



PHILIPPINE COAST GUARD

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE- 46)

Government of the Republic of the Philippines

**Sixth Edition
5 May 2025**

Table of Contents

Glossary of Acronyms, Terms, and Abbreviations	
Section I. Invitation to Bid.....	
Section II. Instructions to Bidders.....	
1. Scope of Bid	
2. Funding Information.....	
3. Bidding Requirements	
4. Corrupt, Fraudulent, Collusive, and Coercive Practices	
5. Eligible Bidders.....	
6. Origin of Goods	
7. Subcontracts	
8. Pre-Bid Conference	
9. Clarification and Amendment of Bidding Documents	
10. Documents comprising the Bid: Eligibility and Technical Components	
11. Documents comprising the Bid: Financial Component	
12. Bid Prices	
13. Bid and Payment Currencies	
14. Bid Security	
15. Sealing and Marking of Bids	
16. Deadline for Submission of Bids	
17. Opening and Preliminary Examination of Bids	
18. Domestic Preference	
19. Detailed Evaluation and Comparison of Bids	
20. Post-Qualification	
21. Signing of the Contract	
Section III. Bid Data Sheet	
Section IV. General Conditions of Contract	
1. Scope of Contract	
2. Advance Payment and Terms of Payment	
3. Performance Security	
4. Inspection and Tests	
5. Warranty	
6. Liability of the Supplier	
Section V. Special Conditions of Contract	
Section VI. Schedule of Requirements	
Section VII. Technical Specifications	
Section VIII. Checklist of Technical and Financial Documents	

Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

CDA - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

DDP – Refers to the quoted price of the Goods, which means “delivered duty paid.”

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

Foreign-funded Procurement or Foreign-Assisted Project– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

Framework Agreement – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as “Call-Offs,” are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure projects or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations



Section I. Invitation to Bid

INVITATION TO BID FOR THE MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

1. The Philippine Coast Guard through the **CG10 IMF CY-2025** intends to apply the total sum of **Seventy-Nine Million Eight Hundred Eighty-Seven Thousand Sixty-Four Pesos and 18/100 (Php79,887,064.18)**, being the total ABC to payments under the contract for the **Modernization of Structural Facilities of BRP BOJEADOR (AE-46)**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The Philippine Coast Guard now invites bids for the above Procurement Project. Delivery of the Goods is required based on the delivery schedule provided under Section VI (Schedule of Requirements) of this Bidding Documents commencing from the date of receipt of the Notice to Proceed. Bidders should have completed, **within five (5) years** from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary *“pass/fail”* criterion as specified in **Section 59 of the Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 12009 and the contract shall be awarded to the bidder who was identified as the Lowest or Single Calculated and Responsive Bid (L/SCRB)**.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to **RA No. 11981 or the “Tatak Pinoy (Proudly Filipino) Act,”**

4. Interested bidders may obtain further information from the *Coast Guard Procurement Service* and inspect the Bidding Documents at the address given below from Monday to Friday during office hours *8:00 AM to 5:00 PM*. except non-working days (i.e. Saturday and Sunday), legal holiday, or special non-working holiday, or other non-working days duly declared by the President, Governor, Mayor or other Government Official authorized to make such declaration.
5. A complete set of Bidding Documents may be acquired by interested Bidders on **5 May 2025 to 26 May 2025** from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents pursuant to the latest Guidelines issued by the GPPB in the amount of **Fifty Thousand Pesos (PhP50,000.00)**.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

The Procuring Entity shall allow the bidder to present its proof of payment for the fees *in person or through email*

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

6. The *Philippine Coast Guard* will hold a Pre-Bid Conference **13 May 2025, 10:00 AM onwards** at the National Headquarters Philippine Coast Guard (NHQ-PCG) Conference Room, 2F Admin Building, 139 25th Street. Port Area, Manila 1018 which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **26 May 2025, 10:00 AM**. Late bids shall not be accepted.
8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
9. Bid opening shall be on **26 May 2025, 10:00 AM onwards** at the given address below at the **National Headquarters Philippine Coast Guard (NHQ-PCG) Conference Room, 2F Admin Building, 139 25th Street, Port Area, 1018 Manila**. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. Bidders shall bear all costs associated with the preparation and submission of their bids, and the Philippine Coast Guard will in no case, be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

Bidders should note that the Philippine Coast Guard will accept bids only from those that have paid the applicable fee for the Bidding Documents.

The Philippine Coast Guard assumes no responsibility whatsoever to compensate or indemnify bidders for any expenses incurred in the preparation of their bids.

In accordance with Government Procurement Policy Board (GPPB) Circular 06-2005 - Tie-Breaking Method, the Bids and Awards Committee (BAC) shall use a non-discretionary and non-discriminatory measure based on sheer luck or chance, which is "DRAW LOTS," in the event that two (2) or more bidders have been post-qualified and determined as the bidder having the Lowest Calculated Responsive Bid (LCRB) to determine the final bidder having the LCRB, based on the following procedures:

- a) In alphabetical order, the bidders shall pick one rolled paper.
 - b) The lucky bidder who would pick the paper with a "CONGRATULATIONS" remark shall be declared as the final bidder having the LCRB and recommended for award of the contract.
11. The Philippine Coast Guard reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with **Section 70 of RA 12009 and its IRR**, without thereby incurring any liability to the affected bidder or bidders.
 12. For further information, please refer to:

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

CAPT BENEDICTO C BARTOLOME PCG

Commander, Coast Guard Procurement Service

Coast Guard Procurement Service

National Headquarters Philippine Coast Guard

139 25th Street, Port Area, South Harbor, 1018 Manila

Contact Number: (+63) 967 249 1551 or (+63) 949 829 2292

Email Address: procurement@coastguard.gov.ph

13. You may visit the following websites:

For downloading of Bidding Documents: www.philgeps.gov.ph and
www.coastguard.gov.ph

05 May 2025

RADM HOSTILLO ARTURO E CORNELIO PCG

BAC Chairperson



Section II. Instructions to Bidders

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

1. Scope of Bid

The Procuring Entity, Philippine Coast Guard wishes to receive Bids for **Modernization of Structural Facilities of BRP BOJEADOR (AE-46)** with identification number **IB No. 2025-015.**

The Procurement Project (referred to herein as “Project”) is composed of one (1) lot. The details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **General Appropriations Fund for CY 2025** in the amount of **Seventy-Nine Million Eight Hundred Eighty-Seven Thousand Sixty-Four Pesos and 18/100 (Php79,887,064.18).**

2.2. The source of funding is the General Appropriations Act.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of **RA 12009 and its IRR**, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “T” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

5.3. **Section 52.4.1.3 of the IRR of RA 12009**, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to at least fifty percent (50%) of the ABC or not less than the amount of **Thirty-Nine Million Nine Hundred Forty-Three Thousand Five Hundred Thirty-Two Pesos and 09/100 (PhP 39,943,532.09)**

5.4. The Bidders shall comply with the eligibility criteria under **Section 52.4.1 of the IRR of RA 12009**.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

7.2. The Procuring Entity has prescribed that Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time at its physical address located at the Philippine Coast Guard Conference Room, 2F Admin Building, 139, 25th St., Port Area, 1018 Manila as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.

10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within **five (5) years** prior to the deadline for the submission and receipt of bids.

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with **Section 79.6 of the IRR of RA 12009**.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under **Section 60.2 of the IRR of RA 12009**.

12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
- a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in e.
 - b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price,

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.

- ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid for a maximum period of one hundred twenty (120) calendar days from the date of the Opening and Preliminary Examination of Bids. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

- 17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under **Section 58 IRR of RA 12009** shall prevail.

- 17.2. The preliminary examination of bids shall be governed by **Section 59 of the IRR of RA 12009**.

18. Domestic Preference

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with **Section 79 of the IRR of RA 12009**.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under **Section 61.2 of the IRR of RA 12009**.

- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case may be. In this case, the Bid Security as required by **ITB Clause 15** shall be submitted for each lot or item separately.

- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to **Section 52.4.1.4 of the IRR of RA 12009**. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.

- 19.4. The Project shall be awarded as One Project having several items that shall be awarded as one contract.

- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to **Section 52.4.1.5 of the IRR of RA 12009**, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

- 20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit **all the eligibility documents supporting its PhilGEPS Certificate of Registration (Platinum Membership), its latest income and business tax returns filed for the preceding quarter which should not be earlier than two (2) quarters from the date of submission and receipt of bid**, and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.



Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause			
5.3	For this purpose, contracts similar to the Project shall be: <ul style="list-style-type: none"> a. Drydocking of Vessel b. Retrofitting of Vessel c. Completed within five (5) years prior to the deadline for the submission and receipt of bids. 		
7.1	No portion of the contract shall be subcontracted.		
12	The price of the Goods shall be quoted DDP at the winning bidder's owned and/or with JVA exclusive Dry-Docking facility with valid and updated MARINA Certificate of at least Class B Ship Building and Ship Repair (SBSR) Facilities.		
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:		
	PARTICULARS	a) Cash, cashier's/ manager's check issued by a Universal or Commercial Bank; b) Bank draft/ guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank; Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank [at least Two Percent (2%) of the ABC]	c) Surety Bond, callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission authorized to issue said security specific for the project [at least Five Percent (5%) of the ABC]
	Modernization of Structural Facilities of BRP BOJEADOR (AE-46)	PhP 1,597,741.28	PhP 3,994,353.21

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

19.3	<p>The Project shall be awarded as One Project having several items that shall be awarded as one contract.</p> <p>Partial bid is not allowed. The goods are grouped in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.</p>
20.1	<p>No additional licenses and permits shall be required to be submitted by the bidder having the Lowest Calculated Bid (LCB) or Single Calculated Bid (SCB).</p> <p>NOTE:</p> <p>Within five (5) calendar days from receipt by the LCB/SCB, said bidder shall submit the following:</p> <ol style="list-style-type: none"> 1. All the eligibility documents supporting its PhilGEPS Certificate of Registration (Platinum Membership), to wit: <ol style="list-style-type: none"> a) Securities and Exchange Commission (SEC) Registration Certificate for corporations, partnerships and/or joint ventures, Department of Trade and Industry (DTI) Registration Certificate for sole proprietorship, or Cooperative Development Authority (CDA) Registration Certificate for cooperatives; b) For corporations, an updated General Information Sheet reflecting the beneficial ownership information duly submitted to the SEC in accordance with its annual reportorial requirements; c) Valid Mayor's or Business Permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas; d) Valid Tax Clearance Certificate per Executive Order (E.O.) No. 398, series of 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR); and e) Latest Audited Financial Statements (AFS), stamped "Received" by the BIR or its duly accredited and authorized institutions for Manual submission. For online submission, an email confirmation from the BIR in lieu of the manual "Received" stamping under Revenue Memorandum Circular No. 49-2020 or subsequent relevant issuance. 2. Latest income and business tax returns filed and paid through the BIR Electronic Filing and Payments System (EFPS) for the preceding quarter which should not be earlier than two (2) quarters from the date of submission and receipt of bids.

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

21.2	In addition to the submission of a Performance Security in any of the allowable forms provided under Section 68 of the IRR of R.A. 12009 , the bidder having the Lowest/Single Calculated Responsive Bid shall submit a Certificate of No Pending Case within ten (10) calendar days from receipt of the Notice of Award (NOA).
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Section IV. General Conditions of Contract

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of **RA No. 12009 and its IRR**, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to **Section 112.2 of the IRR of RA 12009** allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

2. Advance Payment and Terms of Payment

2.1. Advance payment of the contract amount is provided under **Section 71.1.5 of the IRR of RA No. 12009**.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in **Section 68 of the IRR of RA 12009**.

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC**, Section IV (Technical Specifications) shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

5. Warranty

- 5.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under **Section 90.1 of the IRR of RA 12009**.
- 5.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.



Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents –</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is:</p> <p>CAPT LAUREL PAUL N MARIANO JR (ASC) PCG Deputy Chief of Staff for Ships and Aircraft Engineering, CG-10 Philippine Coast Guard 161 A Port Area Bonifacio Drive, 652 Zone 068, Manila, 1018 Metro Manila Email: cg10@coastguard.gov.ph Contact Number: (+63)917-84-250-5038</p> <p>Intellectual Property Rights The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
2.2	<p>The terms of payment shall be as follows:</p> <ul style="list-style-type: none"> No advance payment is allowed. Payment should be made after the completion, inspection and acceptance of the Modernization of Structural Facilities of BRP BOJEADOR (AE-46).
4	<p>The inspections and tests that will be conducted are follows:</p> <ul style="list-style-type: none"> ● The CONTRACTOR shall conduct sea trials for satisfactory result prior acceptance. ● Upon satisfactory completion of works and testing, a Certificate of Acceptance on all completed works shall be properly signed by members of the PCG TIAC.

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)



Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item Number	Description	Quantity	Delivered, Weeks/Months
1	MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)	One (1) Lot	The modernization of the Structural Facilities of BRP BOJEADOR (AE-46) should be completed within One Hundred Twenty (120) calendar days after receipt of the Notice to Proceed.

[Signature of the Authorized Rep.]

[in the capacity of] (Please indicate position of Authorized Rep.)

Duly authorized to sign Bid for and on behalf of _____
(Please indicate name of company)



Section VII. Technical Specifications

Name of Project: Modernization of Structural Facilities of BRP BOJEADOR (AE-46)				
Requirements			<p><i>[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>	
			Item	Specification
		QTY	UNIT	Statement of Compliance: _____ Brand Offered: _____

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

A	DRYDOCKING & UNDOCKING WORKS				
	1	Docking and Undocking	1	occasion	
	2	Drydock lay days rental	100	days	
	3	Mooring and Unmooring - arrival, docking, undock, depart	3	movement	
	a)	Docking			
	b)	Undocking			
	c)	Departure			
	4	Tug Assistance during towing, docking/undocking			
	a)	Assist vessel on Yard movement during beaching/docking.	1	/tug/hr.	
		Mobilization/demobilization during beaching/docking	2	/tug/hr.	
	b)	Assist vessel on Yard movement during unbeaching/undocking	1	/tug/hr.	
		Mobilization/demobilization during unbeaching/undocking	2	/tug/hr.	
	5	Shoreline Handlers - arrival, docking, undock, depart	3	movement	
	a)	Docking			
	b)	Undocking			
	c)	Departure			
	6	Dock Preparation and Block Arrangement			
		Hull Keel Block	50	/set	
		Hull Side Block Port & Starboard	12	/set	
		Removal of Blocks	13	/set	
		Relocation of Block	20	/set	
		Installation of Shoring Post	1	/set	
	7	Dock Master during movements docking & undock	2	movement	
B	GENERAL SERVICES				
	1	Wharfage - to provide berth side for afloat	15	days	
	2	Gangway for access during vessel stay at yard	1	/unit/time	
	3	Shore line Power			
	a)	Connect and disconnect; 220V, single phase; 380V, 3 phase	1	time	
	b)	Electrical power consumption, : 45 kw/day 70 days	3150	/kwh	
	4	Fire line Supply (SOP)			
	a)	Connect and disconnect (Fwd.	100	time	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			and Aft)			
		b)	Daily maintained pressure supply	100	days	
	5	Fresh Water Supply				
		a)	Connect and disconnect	1	time	
		b)	Fresh Water Supply,	5	/kwh	
	6	Garbage Disposal (1 bin per day for 100 days)		30	cbm	
	7	Gas Free Inspection, : 43 days 4 tank		172	/day	
	8	Ventilation / Blower, : 7 days 2 units		140	/unit/day	
	9	Temporary Lighting, : 70 days 2 lights		140	/unit/day	
	10	Security Guard - SOP		100	/man-day	
	11	Safety Firewatch - SOP		100	/man-day	
	12	Yard's Equipment Usage				
		a)	Forklift usage,	30	/unit/hr.	
		b)	Crane usage - up to 25T,	20	/unit/hr.	
			Crane Mobilization/Demobilization	2	/time	
		c)	Scissor Lift for blasting and painting access	30	/unit/hr.	
		d)	Service boat for vessel crew usage			
			1. Arrival	8	/unit/hr.	
			2. Docking	8	/unit/hr.	
			3. Undocking / Shipside	8	/unit/hr.	
			4. Departure	8	/unit/hr.	
		e)	service boat for supply of water in anchorage near yard	8	/unit/hr.	
		f)	Cherry Picker (Access for UTG, Blasting and Painting Works)	120	/unit/hr.	
	13	Scaffold / Staging for access				
		a)	External Staging (IWO propulsion works)	2500	/cbm	
		b)	Internal Staging	1	/cbm	
	13	Hull Scupper chutes		1	/piece	
	14	Various Testing				
		a)	Vacuum Testing on weldments on main deck & bottom plates.	50	/l-mtr	
	15	Provide temporary accommodation for vessel crew		4	/months	
		a)	provide temporary accommodation for vessel crew			
C	EXTERNAL HULL PRESERVATION					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	1	a)	Hull FW high pressure Jet washing from Keel to Topside,	1,409	/sqm	
		b)	Hull FW low pressure Washdown prior second coat, Keel to Topside	1,409	/sqm	
		c)	Hull Scraping from Keel to DLL	801	/sqm	
		d)	Hull Manual Chipping,	200	/sqm	
	2	Hull Grit / Stag Blasting on the following areas.				
		a)	Keel to DLL 1221.41 sqm			
			Spot Blasting (SA 2.0) 30% area 366.4 sqm	366	/sqm	
			Sweep Blasting (SA 2.0) 70 % area 855 sqm	855	/sqm	
	3	Hull Painting (Yard supply paints & thinners)				
		a)	Keel to DLL = 1221.41 sqm			
			One (1) Full coat Epoxy primer	1221	m ² /coat	
			Two (2) Full coat Anti-Corrosive	2443	m ² /coat	
			Two (2) Full coat Anti-Fouling	4,886	m ² /coat	
			Yard supply paints & thinners for 5 coat systems	4,886	m ² /coat	
		b)	Bottom Painting - 178.86sqm			
			One (1) Full coat Epoxy primer	179	m ² /coat	
			Yard supply paints & thinners for 4coat systems	3,500	m ² /coat	
	4	Seachest box/grids				
		a)	Seachest box/grids (clean, blast, paint, refit in good order)	5	/grating	
		b)	Blasting and painting of sea chest boxes	5	/chest	
	5	Hull Markings Repaint				
			Re-Paint with Yard's paint on hull markings			
		1	Draft Marks, Mid, Fwd., Aft, P/S	1	/set	
		2	Ship's Name, Fwd. P/S, Stern	1	/set	
		3	Port of Registry	1	/set	
		4	Plimsoll, P/S	1	/set	
		5	Ship's LOGO, P/S "COAST GUARD" allow 10sqm per side, Php 2,500/sqm	1	/set	
		6	Yard supply paints & thinners for markings/names/port of registry allow:	1	lot	
	6	Hull Zinc Anodes				

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Removing of wasted anodes and installation of new anodes (including rudder, and seachest box)			
		a)	Plain removal of anode	60	/anode	
		b)	Anode Installation	60	/anode	
		c)	Yard supply Zinc Anode@3kg Aluminum Anode	60	/anode	
		d)	Strap/Guard Installation	60	/anode	
		e)	Cover/Protection iwo painting	60	/pce	
		f)	Plain removal of anode inside tank	60	/pce	
		g)	Anode Installation inside tank	60	/pce	
D	STRUCTURAL WORKS					
	MAIN STRUCTURE WORKS					
	1	Ultrasonic Thickness Gauging - UTG (local in-house technician)				
		a)	Bottom & Side Shell Plate Gauging	300	/point	
		b)	In between frames from First (1st) strake to uppermost strake	200	/point	
		c)	Bulk head between tank no. 5 and Engine room bilge	200	/point	
		d)	P/S sea chest box	150	/point	
	2	Reweld Wasted Seams/ Butt / Build up - min of 1 mtr per pass		2	/l-mtr/pass	
		a)	Hammer test, inspect hull & marked suspected areas before dock	2	/l-mtr/pass	
		b)	Hull survey/inspection prior undocking	2	/l-mtr/pass	
	3	Hull Replating (External)				
			Hull external replating using Yards supply MS plates	1	lot	
			Mild Steel Plate (MSP) (Yards Supply plates) 10mm thick.	1	lot	
	4	Crop out and renew deteriorated shell plating and framing				
		A.	Renew/Re-plate the center keel use MS plate size 12.5 mm thick on center keel from FWD to Astern			
			7 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	500	/kgs	
			a) Blasting of new plates and paint with primer paint 1 coat			
			New MS Plates	156	/sqm	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			7 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	156	m ² /coat	
			Yard supply paints & thinners for 1 coat system			
			b) Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			7 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	500	/kgs	
		B.	Make re-plating on bulk head Coffor Dam between tank #4 (fresh water tank) to tank #5 (fuel tank), using MS plate 11mm thick w/ full weld side to side, lower and upper of the bulk head and make hydrotest after re-plating			
			5 sheets- 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	7,110	/kgs	
			a) Blasting of new plates and paints with primer paint 1 coat			
			New MS Plates			
			5 sheets- 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	111	/sqm	
			Yard supply paints & thinners for 1 coat system	111	m ² /coat	
			b) Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			5 sheets- 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	79	/l-mtr	
			Supply of 12 sheets Marine Grade MS plates - 12.5 mm x 6 ft. x 20 ft.			
			12 sheets - 125 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	12	/sheets	
	5	Re - plating Bulkhead between Fore Peak Tank and Cargo Hold #1				
		a)	Re-plate Bulkhead between fore peak tank and cargo hold #1			
			5 sheets - 12.5 mm x 1828.711 x 6095.7 mmL Marine Grade MS Plate	3,000	/kgs	
		b)	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5 sheets - 12.5 mm x 1828.711 x 6095.7 mmL Marine Grade MS Plate	111	/sqm	
			Yard supply paint & thinners for 1 coat system	111	m ² /coat	
		c)	Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			5 sheets - 12.5 mm x 1828.711 x 6095.7 mmL Marine Grade MS Plate	79	/l-mtr	
		d)	Supply of 5 sheets Marine Grade MS plates - 6 mm x 4ft. X 8 ft.			
			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	5	/sheets	
	6	Deteriorated boat deck plating from the pilot house to boat deck cabin.				
		A.	Crop out / re-plate the entire boat deck plating.			
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	11262	/kgs	
		B.	Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	143	/l-mtr	
		C.	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates	201	/sqm	
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	201	m ² /coat	
			Yard supply paints & thinners for 1 coat system			
		D.	Supply of materials for boat deck plating from the pilot house to boat deck cabin.			
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	10	sheets	
	7	Deteriorated Main deck plating from forward to fantail				
		A.	Crop Out / Re-Plate the Entire Boat Deck Plating from forward to fantail			
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	11,262	/kgs	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	143	/l-mtr	
		C.	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	201	/sqm	
			Yard supply paints & thinners for 1 coat system	201	m ² /coat	
		D.	Supply of materials for Entire Boat Deck Plating from forward to fantail			
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	10	sheets	
	8	Replating of Entire Monkey Island and P/S Gun Mount plating		1	lot	
		A.	Provide labor and materials needed for the replating of entire monkey island and gun mount side plating.			
		B.	Remove all interferences at the bridge, all ceiling, walling, electrical wirings, lightings and Electrical outlets.			
		C.	Crop out the entire monkey island deck plating and gun mount side plating.			
		D.	Replate using 10mm-T marine grade MS plate.			
			Blasting the new MS plate and painting with epoxy primer paint 1 coat.			
			Approx. 4 sheets 6ft x 20ft x 10mm-T Marine grade MS plate (Yard supply paint)			
		E.	Remove and replace all deteriorated framings using angle bar.			
			Approx. 20pcs 3in x 4in x 20ft			
		F.	After the replating conduct testing on weldments such as leak testing, vacuum test and kerosene test.			
		G.	After the replating and leak testing install back the new PVC ceiling			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			and walling panels with non-asbestos fire-resistant heat proofing insulation, electrical wirings, lightings and electrical outlets.			
		H.	After the installation of electrical wirings, lightings and electrical outlets conduct testing for the completion of works with satisfactory results.			
SECONDARY STRUCTURES						
	9	Replace Deteriorated Staircases And Hand Rails				
			6 length 1 in-D 6096 mm-L GI Pipe	37	/lmtrs	
			7 length 6 mm-t 200 mm-H 50+50 mm-F 6096 mm-L-GI Channel	904	/kgs	
			4 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates	1	lot	
			A. Supply of materials for checkered plates false flooring works at Rudder Room			
			6 length 1 in-D 6096 mm-L GI Pipe	6	lengths	
			7 length 6 mm-t 200 mm-H 50+50 mm-F 6096 mm-L-GI Channel	7	lengths	
			4 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates	4	sheets	
	10	Deteriorated Ship's Cargo Crane Engine Canopy		1	lot	
		A.	Provide Labor and materials for the fabrication and installation of Ship's Cargo Crane Engine Canopy.			
		B.	Remove and replace the existing deteriorated Ship's Cargo Crane Engine Canopy.			
		C.	Apply anti-rust primer and painted finish			
	11	Installation of four (4) sets of inflatable life raft stands.		4	sets	
		A.	Provide four (4) sets of inflatable life rafts. 2 sets of 25 pax capacity and 2 sets 16 pax capacity			
			2 Set - 25 Capacity			
			2 Set - 16 capacity			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Provide labor and materials for the procurement and installation of four (4) sets new inflatable life raft racks.			
		C.	Install a life raft cradle at port and starboard boat deck (provide necessary measurements)			
	12	Mobile Platform Ladder		1	lot	
		A.	Fabricate steel mobile platform ladder with hand rails support.			
			Ladder - 1.00 m (height) Step - 0.22cm (length)			
			Ladder - 1.00 m (width) Rise - .20cm (height)			
		B.	Install four (4) pcs durable ladder wheels with safety lock.			
		C.	Apply anti-rust primer with painted finish to newly fabricated mobile platform ladder.			
	13	Deteriorated Railings at Forecastle				
		A	Repair/ Renew Railings at Forecastle Area	1	lot	
			Supply of Material			
			a. One (1) Lot GI Pipe 2 ½ by 20 schedule 80 – 8 pcs for stanchion post	6	lengths	
			b. One (1) Lot GI Pipe 1 by 20 schedule 80 – 8 pcs for railings	6	lengths	
	14	Deteriorated stanchion post for railings chain.		1	lot	
		A.	Modify and install new stanchion post for chain			
		B.	After installing apply paint with epoxy primer.			
			Supply of Material			
			One (1) Lot super GI pipe size approximate 2" x 20' schedule 80 for stanchion post chain railings at main deck	6	lengths	
	MAIN DECK WORKS					
	15	Installation of 7pcs new closed chocks				
			A. Dismantling and installation of new closed chock	5	pcs	
			B. Supply of materials for close chock repair			
			1 length 1.5 in-D 6096 mm-L Round Bar	2	length	
			1 sheet 10 mm-t 1219.141 mm-W 6095.7 mm-L Marine Grade MS Plate	1	sheet	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	16	Deteriorated hatch cover handle				
		A.	Replace all deteriorated hatch cover handle with stainless steel flat bars 1"x5mm, M17 stainless bolts with washer and nuts.			
			36 sets 5 mm-t 25 mm-W 300 mm-L Handle (Flat bar)	100	/kgs	
			36 sets M 17 Bolts, Nuts and Washers (Stainless)	36	/sets	
		B.	Supply of materials for Radar Mast Works and Supply of Navigational Lights			
			2 length 5 mm-t 25 mm-W 300 mm-W Handle (Flat bar)	2	length	
			36 sets M 17 Bolts, Nuts and Washers (Stainless)	36	sheet	
	17	Repair / Recondition of all port holes				
		A.	Pull out, Repair / Recondition of all 38 pcs of Port holes	38	pcs	
		B.	Replace old glass and gaskets	6	pcs	
		C.	Supply of materials for porthole repair works			
			38 sets bronze bolts / wing nut / pins / glass frames	1	lot	
	18	Forward Crew's head (Additional toilet bow)		1	lot	
		A.	Install One (1) additional bowl at forward deck crew's accommodation			
		B.	Install modified division for two (2) toilet bowl with half doors to cover person inside			
		C.	Replace existing toilet bowl in way of modifying forward crew's head.			
		D.	Supply of Materials	1	lot	
			1. One (1) Lot steel plate for modified division			
			2. One (1) Lot for two (2) toilet bowl			
			3. One (1) Lot materials for installing the toilet bowl			
	19	Replating of deteriorated bulwark and gunwale.		1	lot	
		A.	Provide labor and materials for the replating of deteriorated bulwark and main deck gunwale.			
		B.	Crop out and replate the deteriorated plate of bulwark and main deck gunwale.			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Replate the bulwark and main deck gun wale using marine grade MS plate.			
			Approx. 4sheets 6ft x 20ft x 10mm-T Marine grade MS Plate			
			Blasting of new MS plate and painting with epoxy primer paint 1 coat.			
			Yard supply paint			
		D.	Replace all deteriorated frames using angle bar.			
			Approx. 2pcs 3in x 3in x 20ft			
		E.	Make new freeing port using round bar.			
			Approx. 2pcs 17mm diameter			
		F.	Renew all scuppers and drain pipes.			
		G.	Conduct testing on all weldments for the completion of works with satisfactory result.			
	20	Replating of Forecastle		1	lot	
		A.	Provide labor and materials needed for the replating of Forecastle.			
		B.	Crop out all deteriorated plates and framings using 11mm-T marine grade MS plate and weld side to side.			
		C.	Remove all interferences including ceiling and electrical wirings at FWD upper accommodation prior to crop out the deteriorated plates.			
		D.	Blasting of new plate and painting of epoxy primer 1 coat.			
			Approx. 8 sheets 6ft x 12ft x 11mm-T Marine grade MS plate.			
		E.	Remove and replace all deteriorated frames using 3in x 4in 20ft angle bar.			
		F.	After replating conduct leak testing vacuum test and kerosene test before installing back the electrical wiring, non-asbestos fire-resistant heat proof insulation and FWD accommodation PVC ceiling and walling panels.			
	ACCOMMODATION WORKS					
	21	Accommodation Head				

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A	Remove and replace deteriorated sewage tank and install new for Aft Accommodation Head			
			(approximate size of 100cm x 60 cm x 100 cm (LxWxH))			
			2 sheets - 6 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate	482	/kgs	
			a) Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			2 sheets - 6 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate	15	/l-mtr	
			b) Supply of 2 sheets Marine Grade Stainless Plate -6mm x 4ft. X 8ft.			
			2 sheets - 6 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate	2	/sheets	
	22	Modification of Existing Galley Arrangement		1	lot	
		A.	Provide labor and materials for the modification of existing galley room arrangement.			
		B.	Provide and install stainless counter top, cabinets and overhead lockers.			
		C.	Provide and install galley room floor tiles			
		D.	Provide and install 2 units 8 cu ft chest freezer.			
		E.	Supply of Materials			
			1. Stainless Counter Top	1	set	
			2. Cabinets and Overhead Lockers	1	set	
			3. Floor Tiles	100	sets	
			4. 8 cu. ft. Chest Freezer (2 units)	2	units	
	23	Modify the forward upper and lower deck accommodation bunks.		1	lot	
		A.	Provide Labor and materials for the modification of forward upper and lower deck accommodation			
		B.	Fabricate and install bunks at the forward upper and lower deck accommodation.			
		C.	Supply of Materials for Upper and Lower Deck Accom Bunks Repair			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			100 sets 2 in-t 3 in-W 8 ft-L Good Lumber			
			30 sets 3/4 in-t 4 in-W 8 ft-L Marine Plywood			
			95 sets 1/2 in-t 4 in-W 8 ft-L Marine Plywood			
			Nails / paint / screw / Sanding paper / brush			
	24	Modification of AFT accommodation head		1	lot	
		A.	Dismantling and replace of toilet bowls, drainage pipe, floor tiles, faucet and stainless lavatory and install new materials.			
		B.	Install new stainless lavatory with faucet			
		C.	Install new pipelines for shower.			
		D.	Install new pipeline for sea water flushing.			
		E.	Supply of Materials used for Accommodation Head Repair			
			2 Units Toilet Bowls	2	Units	
			1 Unit stainless steel lavatory with faucet	1	Unit	
			3 Length 4-in-D 6096 mm-L GI pipe schedule 80	3	Lengths	
			3 Length 3-in-D 6096 mm-L GI pipe schedule 80	3	Lengths	
			3 Length 1.5 in-D 6096 mm-L GI pipe schedule 80	3	Lengths	
			3 Length 0.5 in-D 6096 mm-L GI pipe schedule 80	3	Lengths	
			100 pcs 300 mm-W 300 mm-L Floor Tiles	100	pcs	
	25	Fitting of Lockers at FWD and AFT Accommodation area		1	lot	
		A.	Pull out Lockers at FWD and AFT accommodation area.			
		B.	Fitting of 34 sets of Lockers at FWD and AFT accommodation area.			
		C.	Supply of Materials used for Locker Works			
			50 pcs 3/4 in-t 4 on-W 8 ft-L Marine Plywood	50	pcs	
			Nails/paint/screw/Sanding paper/brush	1	lot	
	26	Replacement of old floor tiles at Commanding officer and Chief Engineer head		1	lot	
		A.	Dismantle and pull out old floor			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			and wall tiles			
		B.	Replacement of floor and wall tiles at CO and Chef Engineer head			
		C.	Supply of materials			
			100 pcs 200 mm-W 200 mm-L Floor Tiles	100	pcs	
			100 pcs 200 mm-W 200 mm-L Wall Tiles	100	pcs	
	27	Modification of Engineering crew quarters and re-plating the tank top at the Launch engineer cabin		1	lot	
		A.	Provide labor and materials for the modification of aft accommodation (engineering crew quarters)			
		B.	Re-plate aft peak tank top at the launch engineer cabin			
		C.	Install new bunk for the launch engineer			
		D.	Fabricate and install bunks at the engineering crew quarters			
		E.	Supply of Materials			
			40 sets 2 in-t 3 in-W 8 ft-L Good Lumber	40	sets	
			10 pcs 3/4 in-t 4-in-W 8 ft-L Marine Plywood	10	pcs	
			10 sets 1/2 in-t 4-in-W 8 ft-L Marine Plywood	10	sets	
			2 sheets 10 mm-t 1828.71 mm-W 6095.7 mm-L marine Grade MS Plate	2	sheets	
	28	Modify and Retiles of flooring at mid - ship head		1	lot	
		A.	Modify Mid-ship head install new toilet bowl and Replace new tiles			
		B.	Supply of materials			
			100 pcs 200 mm-W 200 mm-L Floor Tiles	100	pcs	
			100 pcs 200 mm-W 200 mm-L Wall Tiles	100	pcs	
			1 Unit Toilet Bowl	1	Unit	
	29	Modification of officer's head		1	lot	
		A.	Pull out defective toilet bowl and lavatory			
		B.	Install new toilet bowl and lavatory			
		C.	Install faucet and new medicine cabinet with minor			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D.	Supply of Materials			
			1 Unit Toilet Bowl	1	Unit	
			1 Unit Lavatory Bowl	1	Unit	
			1 Lot Medicine cabinet with minor	1	lot	
	30		Defective ceiling, walling and flooring in Officer's Cabin	1	lot	
		A.	Repair ceiling, walling, flooring tiles and doors.			
		B.	Install new vinyl flooring tiles			
		C.	Repair deteriorate doors, walling and ceiling			
		D.	Supply of Materials			
			100 pcs 1/4 in-t 4 in-W 8 ft-L Marine Plywood (Ceiling / Flooring)	100	pcs	
			2000 pcs 300 mm-W 300 mm-L Vinyl Floor Tiles	2,000	pcs	
			100 sets 2 in-t 3 in-W 8 ft-L Good Lumber	100	sets	
	31		Additional billeting for officer's cabin	1	lot	
		A.	Convert the existing pilot house be modified and divided into two (2) cabin if the retrofitting of the new bridge is approved			
		B.	Install modified head for each cabin			
		C.	Install air-conditioning unit each for cabin			
		D.	Install new wiring connections for outlet, switches and for lighting system			
		E.	Supply of Materials			
			1. One (1) Lot air-conditioning unit each for cabin (0.6 hp window type)	2	units	
			2. One (1) Lot Materials for retrofitting additional two (2) officer's cabin	1	lot	
			3. One (1) Lot Materials for the installation of head each cabin			
			4. One (1) Lot Nails			
			5. One (1) Lot Marine cables, breakers, outlets and switches			
	32		Defective coamings, Rubber Gasket, Dog lock hinges	1	lot	
			1. Recondition water tight steel doors and will fitted			
			2. Free-up, Stuck-up Dog locks			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			and hinges			
			3. Replace stuck-up Dog Locks and hinges Bushing			
			4. Replace water tight gasket			
	33	Dilapidated Fantail Lavatory		1	lot	
		A.	Remove and Replace the dilapidated fantail lavatory			
		B.	Provide all the materials needed for the repair of the said lavatory			
	34	Replating of entire tank top of Aft Peak Tank including engineering quarters head and launch engineer cabin.		1	lot	
		A.	Provide labor and materials needed for the replating of the entire tank top of Aft peak tank including engineering quarters head and launch engineer cabin.			
		B.	Crop out and replate the entire tank top of Aft peak tank using 11mm-T Marine grade MS plate and weld side to side.			
		C.	Replace all deteriorated angular frames.			
		D.	Blasting of new MS plates and paint with primer paint 1 coat. Yard supply paint. Approx. 4 sheets 20ftx6ftx11mm-T Marine grade MS plate			
		E.	Conduct leak test, vacuum testing and kerosene test.			
	35	Modification of CO and EX-O Cabin		1	lot	
		a)	Repair and/or replace ceiling, walling, flooring tiles and doors.			
		b)	Install new vinyl flooring tiles.			
		c)	Replace deteriorate doors, walling and ceiling			
		d)	Install PVC film panels			
		e)	Install non-asbestos fire resistance materials, heat proofing insulation at walls and ceilings			
		f)	Increase Height Clearance by 2.5m and widening of CO and New Exo cabin by 1 frame.			
		g)	Modification of CO cabin and female cabin area into two Separate Cabin with own Toilet			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			and Bath			
		h)	Pull-out and replace defective toilet bowl and lavatory			
		i)	Install faucet and medicine cabinet with mirror			
		j)	Installation of bidet			
		k)	Dismantle and pull-out old floor and wall tiles			
		l)	Re-piping of floor drain 2-inch and toilet bowl 5-inch			
	36	Modification of Engineering's Accommodation Head		1	lot	
		A.	Dismantling and replacement of toilet bowls, drainage pipe, floor tiles, faucet and stainless lavatory and install new materials.			
		B.	Install new stainless lavatory with faucet			
		C.	Install new pipelines for shower.			
		D.	Install new pipelines for sea water flushing.			
	BRIDGE AND NAVIGATIONAL WORKS					
	37	Modification of existing Radar mast base on the standard height of mast requirements with complete navigational lights				
		A.	Modify existing radar mast base on the standard height of mast requirements with complete navigational lights and pulleys on P/S flag and pennants			
			1 set 4 in-D 20 ft-L Radar Mast Body	6	/mtrs	
			1 sheet 6 mm-t 1219.141 mm-W 6095.7 mm-L Marine Grade MS Plate	350	/kgs	
		B.	Installation of complete navigational lights and pulleys on P/S flag and pennants	1	lot	
		C.	Supply of materials for Radar Mast Works and Supply of Navigational Lights			
			1 length 4 in-D 20 ft-L Radar Mast Body	1	length	
			1 sheet 6 mm-t 1219.141 mm-W 6095.7 mm-L Marine Grade MS Plate	1	sheet	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			1 lot marine cable, circuit breakers, panel board and navigational lights.	1	lot	
		D.	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			
			1 sheet 6 mm-t 1219.141 mm-W 6095.7 mm-L Marine Grade MS Plate	15	/sqm	
			1 length 101.6 mm-D 6.095703 mm-L Radar Mast Body	2	/sqm	
			Yard supply paints & thinners for 1 coat system	15	m ² /coat	
	38	Retrofitting of new bridge/pilot house with radio room, chart room and admin office		1	lot	
		A.	Retrofiring of bridge for the proper arrangement of navigational equipment, bridge console and engine control dashboard with chart room radio room, admin office.			
		B.	Supply of materials	1	lot	
			1. Provide 1 Lot steel plate			
			2. Provide 1 Lot Angular bars			
			3. Provide 1 Lot Plywood and screws			
			4. Provide 1 Lot worries bedded for installing of outlets, lights and navigational equipment.			
	39	Deteriorated and Holed Cargo Hatch coaming Side Plating of Cargo Hold Nr. 1 and 2		1	lot	
		A.	Provide labor and materials needed for the replating of cargo hold 1 and 2 coaming side plating.			
		B.	Crop-out/ replate the Cargo hatch coaming side plating.			
		C.	Install natural ventilation for cargo hold number 1 and 2 with water tight cover in case of bad Weather,			
		D.	Install 4 natural ventilation each cargo hold, 2 ventilations located at the port and starboard of cargo hold nr 1 near the access door of FWD accommodation and the 2 is located at the sounding area of fresh water tank nr 2.			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		E.	Install 4 natural ventilation each cargo hold, 2 ventilations located at the fuel sounding area of FO tank nr 3 of cargo hold or 2 and the 2 is located near the mounting area of outboard motor.			
		F.	Remove and replace framing and stiffeners.			
		G.	Install cargo hold cover lock for securing of cargo hold 1 and 2.			
		H.	Install marine grade folding pad eye around the coaming approx. 5 folding pad eye each side of the coaming for both cargo hold 1 and 2.			
		I.	Remove and replace cargo hold cover beam and beam holder at the coaming.			
	40	Installation of New Search Light and Aldis Lamp		1	lot	
		A.	Installation of Search Lights and Aldis Lamp			
		B.	Installation of 2 search light port and std with appropriate luminescence estimated beam services distance 4miles-7miles for search and rescue with manual handle controller at Bridge			
		C.	Provide Portable Aldis Lamp with appropriate power supply connection at port and starboard			
	41	Installation of new echo sounder.		1	lot	
		A.	Provide labor and materials needed for the installation of echo sounder same as existing unit.			
		B.	Install new set of echo sounder at the bridge.			
			Conduct testing of the echo sounder for the completion of works and with satisfactory result.			
	42	Maintenance of existing fish finder.		1	lot	
			Provide labor and materials for the maintenance of existing fish finder.			
	43	Install new public address system.		1	lot	
		A.	Provide labor and material needed for the installation of new public address sound system.			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Provide and install new set of public address sound system with speakers at the bridge, midship, officer's gantry, wardroom, crews mess, engineering quarters, FWD upper and lower accommodation, motor control room, cargo hold number 1 and 2.			
		C.	After installation conduct testing for the completion of works and with satisfactory result.			
ENGINE ROOM AND OTHER WORKS						
	44		Remove and replace deteriorated angular frames and fitting of checkered plates false floor			
		A.	Provide labor and material for the installation of lacking engine room false flooring			
		B.	Remove and replace deteriorated frames and checkered plate false flooring			
		C.	Install angular frames and L-Bars as a support / base of engine room false floor			
		D.	Install new checkered plate on deteriorated and lacking of false flooring			
			10 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates	1	lot	
			20 pcs 6 mm-t 50+50 mm-F/W 6195.6 mm-L Angle Bar	124	/lm	
			1 sheet 6 mm-t 1219.141 mm-W 2438.3 mm-L Marine Grade MS Plate	252	/kgs	
			100 sets M 16 25 mm-L Bolts and Nuts with Lock Washer- Stainless	100	/sets	
		E.	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			
			1 sheet 6 mm-t 1219.141 mm-W 2438.3 mm-L Marine Grade MS Plate	6	/sqm	
			20 pcs 6 mm-t 50+50 mm-F/W 6195.6 mm-L Angle Bar	25	/sqm	
			Yard supply paints & thinners for 1 coat system	31	m ² /coat	
		F.	Supply of materials for checkered plates false flooring works at Engine Room			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			10 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates	10	sheets	
			20 pcs 6 mm-t 50+50 mm-F/W 6195.6 mm-L Angle Bar	20	pcs	
			1 sheet 6 mm-t 1219.141 mm-W 2438.3 mm-L Marine Grade MS Plate	1	sheets	
			100 sets M 16 25 mm-L Bolts and Nuts with Lock Washer- Stainless	100	sets	
	45	Remove and Replace Deteriorated Checkered at Aft Rudder Room and Locker Area				
		A.	Pull out existing checkered plates at aft rudder room, locker and install new checkered plates			
			6 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates	1	lot	
			7 pcs 6 mm-t 50+50 mm-F/W 6195.6 MM-L Angle Bar	43	/lm	
		B.	Supply of materials for checkered plates false flooring works at Rudder Room			
			6 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates	6	sheets	
			7 pcs 6 mm-t 50+50 mm-F/W 6195.6 MM-L Angle Bar	7	pcs	
		C.	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			
			7 pcs 6 mm-t 50+50 mm-F/W 6195.6 MM-L Angle Bar	9	/sqm	
			Yard supply paints & thinners for 1 coat system	9	m ² /coat	
	46	Deteriorated and holed smoke stack panel of the exhaust of engine room machineries				
		A.	Crop-out/ repair/ re-plate deteriorated smokestack Panel Casing and framing plating			
			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	3,640	/kgs	
		B.	Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	63	/l-mtr	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			
			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	89	/sqm	
			Yard supply paints & thinners for 1 coat system	89	m ² /coat	
		D.	Supply of materials for smoke stack plating			
			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	4	sheets	
	47	Install new stern tube stuffing box and replate the bulkhead between engine room bilge and Aft Peak tank where p/s stern tube stuffing box are located.				
		A.	Crop out deteriorated bulkhead and replate in preparation to the installation of p/s stern tube stuffing box.			
			5 sheets 12.5 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	7,110	/kgs	
			20 pcs 8 mm-t 75+75 mm-F/W 6195.6 mm-L Angle Bar	124	/lm	
		B.	Install stern tube stuffing box align to the main propulsion drive shaft	2	sets	
		C.	Supply of materials for bulkhead replating and supply of stuffing box			
			5 sheets 12.5 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	5	sheets	
			2 set Stuffing Box (Brand New)	2	sheets	
			20 pcs 8 mm-t 75+75 mm-F/W 6195.6 mm-L Angle Bar	20	pcs	
	48	Install heat proofing insulation at FWD upper and lower accommodation, engine room bulkhead, smoke stack, engine room overhead, engine crew's accommodation.		600	sqm	
	49	Replace P/S Engine Room Access Door.		1	lot	
		A.	Provide labor and materials needed for the replacement of Port and Starboard engine room access door.			
		B.	Remove existing wooden access door and replace it with aluminum			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			doors.			
		C.	Make and install new aluminum doors for port and starboard engine room access with heat and sound proofing insulation to reduce the noise and heat during underway.			
		D.	Install marine grade glass on both doors for seeing the engine room while the door is closed during underway.			
		E.	Install door knobs and heavy-duty hinges on both aluminum doors.			
		F.	Remove and replace the existing wooden door jambs and replace it with aluminum door jambs on both port and starboard engine room access door.			
TANK STRUCTURAL WORKS						
	50	Renew / Replate the cofferdam between fuel tank #3 and fresh water tank #4				
		a)	Renew re-plate the copper dam between fuel tank #3 and fresh water #4 using 12.55 mm steel plate			
			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	7,110	/kgs	
		b)	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			
			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	111	/sqm	
			Yard supply paints & thinner for 1 coat system	111	m ² /coat	
		c)	Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	79	/l-mtr	
		d)	Supply of 5 sheets Marine Grade MS plates - 6 mm x 4 ft. x 8 ft.			
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	5	/sheets	
	51	Fabricate additional cofferdam fresh water tank #2 and fuel tank #3				

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Make Additional cofferdam between fresh water tank #2 and fuel #3 using 12.5mm steel plate			
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	5,907	/kgs	
		B.	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	67	/sqm	
			Yard supply paints & thinners for 1 coat system	67	m ² /coat	
		C.	Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	48	/l-mtr	
			D. Supply of 5 sheets Marine Grade MS plates -6mm x 4ft. X 8ft.			
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate	3	/sheets	
	52	Deteriorated and Holed Plating of Cargo Hold Nr 1 Which Under P/S Freshwater Tank Nr 2				
		A.	Crop-out/ repair/ re-plate the in-tire top deck plating of the Cargo hold nr 1 (approx. 200 sq. meters)			
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate	7,963	/kgs	
		B.	Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate	111	/l-mtr	
		C.	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate	156	/sqm	
			Yard supply paints & thinners for 1 coat system	156	m ² /coat	
		D.	Supply of materials for Cargo hold No.1 plating			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate	9	sheets	
	53	Deteriorated and dented top plating of Cargo hold Nr 2, which is below of P/S FO Tank Nr 3				
		A.	Crop-out / repair/ re-plate the in- tire deteriorated top plating of the cargo hold nr 2			
		B.	Crop-out/ repair/ re-plate the in- tire top deck plating of the Cargo hold nr 1 (approx. 200 sq. meters)			
			3 sheets 10 mm-t 1828.711 mm- W 6095.7 mm-L Marine Grade MS Plate	3,413	/kgs	
		C.	Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			3 sheets 10 mm-t 1828.711 mm- W 6095.7 mm-L Marine Grade MS Plate	48	/l-mtr	
		D.	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			
			3 sheets 10 mm-t 1828.711 mm- W 6095.7 mm-L Marine Grade MS Plate	67	/sqm	
			Yard supply paints & thinners for 1 coat system	67	m ² /coat	
		E.	Supply of materials for Cargo hold No.2 plating			
			3 sheets 10 mm-t 1828.711 mm- W 6095.7 mm-L Marine Grade MS Plate	3	sheets	
	54	Deteriorated and Holed Cargo Hatch Side Plating of Cargo Hold Nr 1 And 2 And Main Deck Plating Passage				
		A.	Crop-out/ repair/ re-plating of Cargo hatch coaming side plating and main deck passage of Cargo Nr 1 and 2			
		B.	Crop-out/ repair/ re-plate deteriorated smokestack Panel Casing and framing plating			
			8 sheets 10 mm-t 1828.711 mm- W 6095.7 mm-L Marine Grade MS Plate	9,101	/kgs	
		C.	Conduct leak test, vacuum testing and kerosene test			
			Vacuum Testing on weldments			
			8 sheets 10 mm-t 1828.711 mm-	127	/l-mtr	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			W 6095.7 mm-L Marine Grade MS Plate			
		D.	Blasting of new plates and paint with primer paint 1 coat.			
			New MS Plates			
			8 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	178	/sqm	
			Yard supply paints & thinners for 1 coat system	178	m ² /coat	
		E.	Supply of materials for Cargo hold No. 1 and 2 Main deck plating			
			8 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate	8	sheets	
	55	Replating of bulkhead tank number 5 and engine room main bilge including P/S Sea Chest Box.		1	lot	
		A.	Provide labor and materials needed for the replating of bulkhead between tank number 5 and engine room main bilge including port and starboard sea chest box.			
		B.	Crop out and replat the bulkhead between tank number 5 and engine room main bilge including port and starboard sea chest box.			
		C.	Remove and replat the bulkhead and replace all deteriorated frames and install new plates and frame.			
		D.	Remove the existing sea chest box and make new port and starboard sea chest box with division for the suction of port and starboard main and auxiliary engine.			
		E.	Blasting of new plate and painting with epoxy primer 1 coat.			
			Approx. 4 sheets 6ft x 20ft x 12.5mm-T Marine grade MS Plate			
		F.	Conduct leak test, vacuum test and kerosene test for the completion of works with satisfactory results.			
	56	Replating of Bulkhead Between Aft Peak Tank and Rudder Room		1	lot	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Provide labor and materials for the replating of bulkhead between Aft peak tank and rudder room.			
		B.	Crop out the deteriorated bulkhead plating and framing.			
		C.	Replate bulkhead using 12.5mm-T Marine grade MS plate and weld from side to side.			
		D.	Blasting and painting of MS plate primer paint 1 coat.			
			Yard supply paint			
			Approx. 1 sheet 20ft x 6ft x 12.5mm-T Marine grade MS Plate			
		E.	Conduct leak test, vacuum test and kerosene test for the completion of works with satisfactory result.			
	FIREFIGHTING AND LIFESAVING					
	57	Install cradle for rubber boat at P/S deck area				
			10 length 4 mm 6 mm 100 mm 6 mm Hbeam	2,360	/kgs	
			A. Supply of materials for rubber boat cradle			
			10 length 4 mm 6 mm 100 mm 6 mm Hbeam	10	lengths	
	58	Install 30pcs A60 Standard Fireproof Doors and Replace all wooden doors.		30	pcs	
		A.	Pull-out all wooden doors at accommodation areas, Officer's country, heads and wardroom.			
		B.	Install 30 pcs fire proof doors with appropriate door knob, hinges and heavy-duty hydraulic heads door closer surface mounted with stand arm at accommodation areas, Officer's country, heads and wardroom.			
	59	Installation of General Alarm System		1	lot	
		A.	Provide labor and materials for the installation of new general sound alarm at bridge.			
		B.	Install New set of general alarm system with bell at the bridge, FWD accommodation, midship, officer's gantry, crew's mess, engineering quarters, motor control room, cargo hold number 1 and 2.			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	After installation conduct testing for the completion of works with satisfactory result.			
		SEWAGE TANK AND SEWAGE TREATMENT				
	60	Replace and Install New Sewage Tank with Vertical Centrifugal Pump and Motor for Aft		1	lot	
	61	Remove and replace old sewage pipe lines.				
			8 length. 4 in-D 6096 mmL	49	/lmtrs	
	62	Installation of flanges, stainless bolts and nuts with lock washer to the newly fabricated system				
			16 sets 4 in-D Flange-Stainless	16	/sets	
			64 sets M 16 40mmL Bolts and Nuts with Lock Washer-Stainless	64	/sets	
	63	Fabricate stainless steel foundation for the new sewage tank (approximate size of 25mm-t x 4 x 8')				
			1 sheet - 12.5 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate	502	/kgs	
	64	Installation of heavy-duty sewage vertical centrifugal pump and motor with floater switch and complete sets of accessories (Panel controller, marine wiring cables and cable tray)				
			1 set -Heavy duty sewage vertical centrifugal pump and motor with floater switch	1	lot	
			1 set -Panel controller			
			1 set -marine wiring cables and cable tray			
		A.	Supply of materials for new sewage tank fabrication			
			2 length 4 in-D 6096 mm-L GI Pipe- Sch.80	2	/lengths	
			10 sets 4 in-D Flange- Stainless	10	/sets	
			40 sets M 16 40 mm-L Bolts and Nuts with Lock Water-Stainless	40	/sets	
			1 sheet - 12 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate	1	/sheets	
			1 set -Heavy duty sewage vertical centrifugal pump and motor with floater switch	1	set	
			1 set -Panel controller	1	set	
			1 set -marine wiring cables and cable tray	1	set	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	65	Install New Sewage Treatment Plant		1	lot	
		A.	Provide and install One (1) set of sewage treatment plant system.			
		B.	Provide Labor and materials for the fabrication and installation of sewage treatment plant at the engine room.			
		C.	Fabricate bed plate foundation for the mounting of the new sewage treatment plant.			
		D.	Install bypass pipe using 100mm pipe diameter with 100mm gate valve direct to over board In case the sewage treatment plant malfunction.			
		E.	After installation conduct testing for the completion of works and with satisfactory result.			
	GUNNERY WORKS					
	66	Installation of four (4) gun mount system		4	pcs	
		A.	Install two (2) sets of .50 Cal HMG gun mount system at port and starboard monkey island			
		B.	Install two (2) sets of 7.62 mms LMG gun mount system at port and starboard Boat Deck			
	67	Fitting of Armory		1	lot	
		A.	Replace old Armory Locker			
		B.	Install metal framing at Armory Cabinets and drawers			
		C.	Apply metal and wood paint with epoxy primer			
		D.	Install appropriate brackets for Gun Mounts			
		E.	Install Armory Gun Rack			
		F.	Install metal doors with appropriate hinges for armory door			
		G.	Install metal double lock mechanism at armory doors			
E	PIPES AND PIPING SYSTEM					
	1	Renewal of Pipelines (Yard supply)				
			Minimum of one (1) meter per section (flange to flange)	1	lot	
	2	Defective sea water manifold valves / fresh water manifold valve and piping line		1	lot	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Pull out the sea water and fresh water manifold valves from ship to shop for repair and reconditioning and after reconditioning deliver from shop to ship and install.			
		B.	Replace, provide sea water manifold and fresh water manifold if cannot be repair.			
		C.	Install new suction piping's connection and connect from tank to sea water manifold valve and fresh water manifold valve.			
		D.	Install new sea water and fresh water manifold valves, and test to satisfactory result.			
		E.	Supply of Material			
			One (1) Lot sea water manifold valves	1	lot	
			One (1) Lot fresh water manifold valves.	1	lot	
			One (1) Lot Piping's on sea water suction pipe connected to sea water manifold. G.I Schedule 80.	3	lengths	
			One (1) Lot Piping's on fresh water suction pipe connected to fresh water manifold. G.I Schedule 80.	3	lengths	
	3	Make new Sea Chest Box for Fire Pump		1	lot	
		A	Make new sea chest box for fire pump separate to the sea chest box of main engine.			
		B	Install new 4" suction pipe lines with globe valve connected to the fire pump.	1	length	
		C	Conduct to leak testing and hydro testing upon completion of welding works.	1	lot	
		D	Apply epoxy paint and install zinc anodes inside the sea chest box.			
			1. Pull out existing suction piping and install new suction pipe on P/S tank Nr 3 and 5	1	lot	
			2. Install new suction piping with foot valve on P/S tank Nr 3 connecting to fuel oil transfer manifold valve			
			3. Install new suction piping with foot valve on P/S tank Nr 5 connecting to fuel oil transfer manifold valve			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			4. Make hydro testing on pipe to be install before installing to designated tanks for satisfactory testing result			
			Supply of Material			
			1 Lot BI pipe size approx. 2" dia x 20'	4	lengths	
			1 lot flanges	10	pcs	
			1 lot bolt & nuts	40	sets	
			1 lot gasket	50	pcs	
	4	Fitting of Pipe and Valves for Toilet Bowls		1	lot	
		A.	Install new sea water flushing pipe line from engine room to forward head, CO & Chief Engineer Head, mid-Head, Officer's Head, Engineering Crew's Head and Officers Boat Deck Head			
			Supply of Material			
		B.	Fitting of 1 Lot GI Pipe 1" x SCH 80-10 pcs / Valves + 6pcs, onion = 6pcs			
			10 pcs 1 in-D 6096 mm-L GI Pipe-Sch. 80	10	pcs	
			6 pcs 1 in-D Valves	6	pcs	
			6 pcs 1 in-D Fittings	6	pcs	
		C.	Dismantled/ Pull out existing Fire Hydrant and Piping line System	1	lot	
		D.	Install new fire hydrant and piping line system			
		E.	Relocate suction pipe of the fire pump to sea chest or make sea chest for the suction of the fire pump			
			Supply of Material			
			1. Provide and install 1 lot – GI Pipe 2-1/2" Dia x SCH 80 x 20"	4	lengths	
			2. Provide and install 1 lot – GI Pipe 1-1/2" Dia x SCH 80 x 20"	4	lengths	
			3. Provide and install 1 lot – Flanges 56 pcs, Elbow 50 pcs, Tee 5pcs, Reducer 8 pcs			
			56 pcs 2.5 in-D Flange	56	pcs	
			50 pcs 2.5 in-D Elbow	50	pcs	
			5 pcs 2.5 in-D Tee	5	pcs	
			8 pcs 2.5 in-D	8	pcs	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Reducer			
		F.	Provide and install 1 lot – Ball valve 2” – 5pcs, Ball valve 1-1/2” 1pc			
			5 pcs 2 in-D Ball Valve	5	pcs	
			1 pc 1.5 in-D Ball Valve	1	pc	
		G.	Provide and install 1 lot – BI pipe size approx. 4” dia x 20 and valve size approx. 4” dia = 1pc each for the relocation of suction pipe of the fire pump			
			1 pc 4 in-D BI Pipe	1	pc	
			1 pc 4 in-D Valve	1	pc	
		H.	Provide and install 1 lot – flange size approx. 4” = 6			
			6 pcs 4 in-D Flange	6	pcs	
		I.	Provide and install 1 lot - Support/ Clamp/ Bolt / Gasket	1	set	
		J.	Provide and install 1 lot water cannon and accessories	1	set	
	3		Deteriorated and holed breather pipe and valves at P/S sea chest box	1	lot	
		A.	Pull out existing deteriorated and holed breather pipe and valves on Port and Starboard sea chest suction box, and ship to ship			
		B.	Install new breather pipes with flange connection, valves, elbows, tees, brackets and bolts and nuts			
		C.	After re-assemble the new the new breather pipes, make hydro testing before installing at the ship in same position on sea chest suction box			
		D.	4. Paint with epoxy Primer and test to satisfactory upon completion of works			
			Supply of Material			
			1. 1 Lot BI Pipe size approx. 2” dia x sched 80” x 20” = 3pcs	3	lengths	
			2. 1 Lot Flanges	12	pcs	
			3. 1 Lot Elbow	6	pcs	
			4. 1 Lot gasket	1	set	
F	TANK WORKS					
	1		Removal/reinstallation of drain/bottom plugs	1	/set	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	2	Opening/reclosing of Manhole, (Yard's gasket)	1	/set	
	3	Fuel Oil Tank No. 5	1	lot	
	a)	Provide labor and materials needed for the replating of entire tank top of tank nr 5			
	b)	Crop-out/ re-plate the entire top deck plating of tank n 5 (approx. 200 sq. meters). 5 sheets 10 mm-T 1828.71 mm-W 6096 mm-L Marine Grade MS Plate			
	c)	Conduct leak test, vacuum testing and kerosene test. 5 sheets 10 mm-T 1828.71 mm-W 6096 mm-L Marine Grade MS Plate.			
	d)	Blasting of new plates and paint with primer paint 1 coat. New MS Plates 5 sheets 10 mm-T 1828.71 mm-W 6096 mm-L Marine Grade MS Plate Yard supply paints & thinners for 1 coat system			
G	CLEANING OF TANKS				
	1	Fuel Oil Tank Center - 2.0 m³			
	2	Pump out residual fuel and dirty fuel/oil.	200	tons	
	3	Bail-out mud/sludge/waste.	2	/cbm	
	4	Clean & Wipe Dry	1	lot	
	5	Provide storage for fuel (200 tons)	100	days	
H	ANCHORS/CHAINS AND LOCKERS WORKS:				
	1	Range out/in anchor chain from c/locker & lay-out to dock floor	2	/set/s	
	2	De-rust chain slagblasting to SA 2.0	2	/set/s	
	3	Calibrate anchor and chain & issue certificate	2	/set/s	
	4	Disconnect/reconnect bitter ends.	2	sets	
	5	Renew anchor/chain swivel. -	5	pcs	
	6	Free-up frozen swivel.	5	per piece	
	7	Free-up tangled chains.	3	per set	
	8	Apply one coat (chain & anchor) -	2	per set	
	9	Pumping out sea water & bail-out mud from chain locker	10	/drum	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		10	Apply paint/coating to chain locker - Yard's paint	2	/locker	
I	TAILSHAFT WORKS					
		1	Fixed Type Tailshaft, assuming 151-175 mm-D of shaft	1	lot	
		2	Remove/re-install rope guard.	2	time/s	
		3	Check bearing clearance of tailshaft.	2	location/s	
		4	Decouple/re-couple, jump off tailshaft	2	shaft/s	
		5	Remove, lay aside and reinstallation of intermediate shafts	2	unit/s	
		6	Draw out Tailshaft	2	shaft/s	
		7	Transport tailshaft to shop for works	2	shaft/s	
		8	Transport intermediate shaft to shop for works	2	shaft/s	
		9	Disassemble/assemble packing gland, P/S	2	shaft/s	
		10	Renewal of packing using yard supply materials	2	shaft/s	
		11	Dye check tailshaft tapered ends @ coupling and propeller side.	4	/shaft	
		12	Conduct Honing/blue fitting of port/starboard side propeller taper cone both propeller side and coupling sides.	2	/loc	
		13	Removal of Existing deteriorated bearing and replaced with newly fabricated bearing (Yard Supply)	4	bearings	
		14	Clean & polish of tailshaft.	2	shaft/s	
		15	Mount tailshaft to lathe machine, clean & polish and check straightness tailshaft.	2	shaft/s	
		16	Check and calibrate tailshaft's sleeves	2	/sets	
		17	Recondition bolt/nuts, flange	16	pce	
		18	Check radial/ axial alignment	2	shaft/s	
		19	Renew inboard/outboard bearings using yard supply materials.			
			A. Inboard Bearing (With assuming bearing dimensions)			
			2 sets 6.417 in-D 9.84252 in-L (Fabrication of bearing by of holes)	637	in3	
			2 sets 8.417 in-D 9.84252 in-L (Fabrication of bearing by Skimming)	521	in2	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			B. Outboard Bearing (With assuming bearing dimensions)			
			2 sets 6.417 in-D 13.77953 in-L (Fabrication of bearing by boring of holes)	891	in3	
			2 sets 8.417 in-D 13.77953 in-L (Fabrication of bearing by Skimming)	729	in2	
			C. Supply of Thordon Bearing	1	set	
J	PROPELLER WORKS					
			Fixed Type Propeller; 1101-1200 mmOD x 3 blades,			
		1	Clean and polish propeller blades.	2	unit/s	
		2	Unfreeze, remove/reinstall propeller lock nut	2	unit/s	
		3	Removal/reinstallation of propeller blades	2	unit/s	
		4	Pull out rubber seal and install using Yard's materials. Remove and reinstall keep ring.	2	unit/s	
		5	Haul to shop propeller blades	2	set/s	
		6	Dye check blade roots	2	set/s	
		7	Pull-out and re-install propeller hub	2	/set	
		8	Propeller Reconditioning and repitch	2	/set	
		9	Repair/Adjustment of propeller shafting	2	lot	
K	RUDDER WORKS					
	1	: 151-175 mm dia.				
		a)	Check clearance of pintle bearing	2	pce	
		b)	Repack rudder stock gland using Yard supply materials	2	pce	
		c)	Unfreeze, recondition rudder stud bolts/nuts	12	pce	
		d)	Disassemble/re-assemble steering gear.	2	set/s	
		e)	Remove/re-installation of blade.	2	set/s	
		f)	Remove and re-install rudder stock.	2	set/s	
		g)	Machine to finish rudder stock - Yard supply bearing	2	/pc	
		h)	Transport rudder stock to shop for works.	2	stock/s	
		i)	Mount on lathe machine to check lateral or torsional distortion.	2	set/s	
		j)	Clean rudder stock tailshaft & apply preservation coat	2	pce	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		k)	Break solid cement sealed at rudder flanges, re-cement	2	set/s	
		l)	Check bearing clearance of rudder stock.	2	shaft/s	
		m)	To perform swing test of rudder stocks and blades	2	shaft/s	
	2	Replacement of Stern Tube		1	lot	
		a)	Pull out existing stern tube assembly.			
		b)	Align the P/S Stern Tube to the main propulsion and propeller strut.			
		c)	Conduct alignment test prior to final fitting of new P/S Stern Tube assembly with stuffing box and packing glands.			
		d)	Labor Costs			
		e)	Supply of Materials for Installation.			
L	HARBOR GENERATOR WORKS					
	1	HARBOR GENERATOR		1	lot	
		1.a	Install New Synchronizing Panel			
			1. Provide technician to conduct actual evaluation to the existing marine generator set model Baudouin 4w105S and conduct actual checking of installed automatic voltage regulator (AVR) if it is capable for synchronization if AVR is not capable provide 2 sets of AVR.			
			2. Recommend/Provide and install the suitable synchronizing panel system for the existing marine generator set.			
			3. After installation of synchronizing panel system conduct load testing and test to synchronize the output load of port and starboard marine generator set for the completion of works and with satisfactory result.			
		1.b	Supply of Materials for Installation.			
M	VALVES & MACHINERY WORKS					
	Valve Works					
	1	Grind in place, suction valves seating, paint & repacking using Yard's materials.		1	lot	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	2	Remove & reinstall back valves	1	lot	
	3	Supply of New Bronze Valves for PSME and PSAE			
N	MISCELLANEOUS AND ADDITIONAL WORKS				
	1	Shell Expansion Plan			
		Provide Four (4) copies of Shell Expansion Plan indicating the work done in the vessel, w/ reference plan.	1	lot	
	2	Repair Booklet			
		Provide four (4) copies of repair booklet published history of repair don on the vessel to be turned-over to CG-10, F10, MRG, and Vessel.	4	booklets	
	3	Electrical Megger Testing	1	lot	
	4	Sea Trial			
		Provide technical crew during sea trial incl. Service boat @ anchorage	1	trial	
	5	Lathe Machine and Controller assembly Works	1	lot	
	a)	Replace One (1) Unit Lathe Machine DC motor to AC Induction Motor.			
	b)	Install Lathe Machine AC motor with complete accessories, wiring connections, panel controller, forward and reverse switch at the Engine room.			
	c)	Fabricate Bed plate and Foundation.			
	d)	Re-align and Re-couple the Lathe Machine AC motor with belt driven mechanism.			
	e)	Conduct testing Lathe Machine AC Motor into satisfactory and completion of Work.			
		Repair Parts Requested:			
		a. One (1) Unit Lathe Machine AC Motor 5 HP, 220VAC, 60Hz, 3phase 600RPM			
		b. 1 Unit Control Panel			
		c. 1 Lot Marine Cable 2.5mm2			
		d. 1 Lot Support / Clamp / Tray / Bolts			
		e. 1 Lot Consumables / Welding Rod / Oxygen / Gas			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			f. 1 Unit forward and reverse switch			
			g. 1 Set drive belt.			
	6	General Recondition of Ship's Cargo Crane		1	lot	
		a)	1. Repair Recondition said Cargo Crane (Kato).			
		b)	2. Install new hand Brake Lever Assembly and cable.			
		c)	3. Install new Engine Shut Off Assembly with Cable.			
		d)	4. Install new brake pad lining on running Auxiliary and main cable and hand brake Lever Assembly with Cable.			
		e)	5. Repair and Recondition the control valves Assembly on extend and retract valves.			
		f)	6. Replace defective hydraulic nozzle Assembly adaptor on brake Drum.			
		g)	7. Replace all Hydraulic hoses.			
		h)	8. After installing all parts make test to satisfactory upon completion of works.			
			Supply of Material			
			1. Provide brake pad auxiliary and main running Cable of Brake Drum and install new hand Brake Lever Assembly with Cable.			
			2. Provide and Install new Engine solenoid Shut Off Assembly and Cable.			
			3. Provide and Install parts of Hydraulic Delivery Control valve in and out oil supply pressure.			
			4. Provide Hydraulic Nozzle Assembly Adaptor on Auxiliary and main runner Cable of the brake Drum.			
			5. Provide and Install hydraulic new Heavy-Duty Hoses.			
	7	Renew One (1) Unit Bench Grinder Assembly from DC to AC motor power output.		1	lot	
		a)	Replace One Unit Bench Grinder Assembly.			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		b)	Install AC Bench grinder assembly with complete accessories wiring connection panel controller and with grinding disc, wire brush installed both side of the grinder motor			
		c)	Conduct testing on Bench Grinder Assembly into satisfactory and completion of works.			
			Supply of Material	1	set	
			1. One (1) Unit of control Panel.			
			2. One (1) Lot of Marine cable 2.5mm ² .			
			3. One Lot Support/ Clamp/ Tray/ Bolts.			
			4. One (1) Lot Consumables/ Welding Rod/ Oxygen/ Gas.			
			5. One (1) Unit Bench grinder Assembly with wire brush and grinding disc installed 1 HP 220			
			Volts AC 60 Hz 1 Phase 1750 Rpm.			
	8		Electric Motor with Exhaust Blower	1	lot	
		a)	Provide / Install one (1) set Mushroom type exhaust blower with 3Hp, 3 phase induction motor with complete accessories and controller, switch and Wire Cable for the engine room.			
		b)	Fabricate foundation for mushroom type exhaust blower and motor.			
		c)	Fabricate Air duct			
		d)	Test to satisfactory upon completion of works.			
			Supply of Material	1	set	
			1. One Mushroom type Exhaust Blower (3Hp, 3 Phase Induction motor) with complete accessories breaker, controller switch and cable.			
			2. One (1) Lot of Materials for fabrication of foundation for exhaust blower.			
			3. One (1) Lot Consumable / Welder rod/ Oxygen/ Acetylene.			
	9		Main Engine and Auxiliary Engine (Re-checking calibration of standard RPM	1	lot	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		a)	Requesting the Supplier technician to check and calibrate the standard RPM of Main Engine and Auxiliary engine.			
		b)	To correct the voltage and RPM if match the standard RPM referring to the machinery manual.			
			Supply of Material	1	lot	
			1. Main and Auxiliary engine to test and calibrate.			
			2. Port Main Engine re – check the alignment between the shafting and transmission drive shaft.			
			3. Re – align the shafting to shafting of the main propulsion or adjust the main engine.			
			4. Shimming steel.			
			5. Jack for adjusting height.			
			6. Other tools to adjust the machinery.			
		c)	After alignment test to start the main engine make dock trail to observe if properly align.			
	10	P/S Anchor Winch		1	lot	
		a)	Pull out the whole unit from ship to shop for repair and recondition the anchor winch.			
		b)	Overhaul to determine the defects.			
		c)	Machining of shaft and bushing if needed.			
		d)	Replacement of defective parts, oil seal bushing bearing.			
		e)	Fabricate of other parts found defective.			
		f)	Replacement of Bolts and Nuts.			
		g)	After Assembly the component parts, deliver back to ship and install, filled oil and test to satisfactory upon completion of works.			
			Supply of Material			
			1. Bushing bearing.			
			2. Copper ring shaft spacer bushing.			
			3. Oil Seal.			
			4. Fabrication on parts found defective.			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5. One (1) Lot materials needed to convert to hydraulic system.			
	11		Replace one (1) unit Motor for Boat Winch	1	lot	
		a)	Provide Labor and materials for installation of boat winch motor assembly.			
		b)	Pull out interferences prior for hot works and replace the damage materials if needed upon completion.			
		c)	Provide and install one (1) Unit Boat winch Motor.			
		d)	Install Three (3) phase AC Induction Motor of Boat Winch with complete accessories, wiring connection, panel controller and switch at boat deck			
		e)	Fabricate bed plate and foundation.			
		f)	Re – Align and Re- couple the AC motor to winch.			
		g)	Conduct Testing on Boat winch Motor into satisfactory and completion of works.			
			Supply of Material	1	set	
			1. One (1) Unit boat winch Motor with brake system, 5 HP 220 Volt AC 60 Hz at least 1,150 RPM			
			2. One (1) Unit Control Panel, wirings and switch.			
			3. Materials for bed plate foundation.			
	12		Re –Activation of CO2 System	1	set	
		a)	1. Pull out existing co2 12 bottles and replace new 12 bottles with valve hose connection regulator and cable with hand lever to pull to open.			
		b)	2. Pull out existing piping's connection and replace new piping's connection from boat deck to engine room, cargo hold no. 2, cargo hold no. 1 and forward paint storage locker.			
		c)	Conduct Hydro testing upon complete installing of piping's connection CO2.			
		d)	Repair the CO2 storage locker at			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			boat deck.			
		e)	After complete of installing test dry run for completion of works by using air pressure.			
			Supply of Material	1	set	
			1. 12 bottles of CO2 with complete accessories hose regulator and cable with hand lever each distribution.			
			2. One (1) LOT piping's for pipe line.			
			3. One (1) LOT for repairing the co2 storage locker.			
			4. One (1) LOT for consumable welding rod, Oxygen acetylene.			
	13	Shoring Materials- Provide Cylinder type of Plugging Materials, cone type of Plugging materials, Wedging materials, Patching materials and shoring Materials		1	lot	
		a)	Provide 4x4x12" Cylinder type Plugging. (Materials 6 pcs)			
		b)	Provide 3x3x12" Cylinder type Plugging. (Materials 6 pcs)			
		c)	Provide 2x2x12" Cylinder type Plugging. (Materials 6 pcs)			
		d)	Provide 5x1x12" Cone type Plugging. (Materials 6 pcs)			
		e)	Provide 4x1x8" Cone type Plugging. (Materials 6 pcs)			
		f)	Provide 1/2x2x4" Cone type Plugging. (Materials 6 pcs)			
		g)	Provide 2x4x12" wedging materials. (Materials 6 pcs)			
		h)	Provide 2x4x6" wedging materials. (Materials 6 pcs)			
		i)	Provide 2x4x12" Patching materials. (Materials 6 pcs)			
		j)	Provide 4x4x10" Shoring materials. (Materials 6 pcs)			
		k)	Provide 4x4x8" Shoring materials. (Materials 6 pcs)			
		l)	Provide 4x4x6" Shoring materials. (Materials 6 pcs)			
	14	Install new Manual Hydraulic steering system.		1	lot	
		a)	Replace Defective steering cable.			
		b)	Provide and Install new Manual Hydraulic steering.			

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		c)	After installation calibrate and compensate to synchronize the rudder position to the rudder angle indicator at the bridge.			
			Supply of Material	1	set	
			1. One (1) Lot complete set of Manual Hydraulic power steering system assembly.			
			2. One (1) Lot stainless pipe for hydraulic pipelines approx. ½" diameter schedule 80			
			3. One (1) Lot consumable for the installation of manual hydraulic power steering / hydraulic hose / fittings.			
	15		Provide four (4) sets of inflatable life raft.			
		A.	Provide four (4) sets of inflatable life rafts. 2 sets of 25 pax capacity and 2 sets 16 pax capacity			
			2 sets 25 Capacity	2	sets	
			2 sets 16 Capacity	2	sets	
		B.	Provide Labor and materials for the fabrication of four (4) sets new inflatable life raft racks.	1	lot	

Requirement/s if awarded the contract:

A. Delivery and Inspection Site:	
1. Project Completion Period: Modernization of Structural Facilities of BRP BOJEADOR (AE-46) – Within One Hundred Twenty (120) calendar days from receipt of Notice to Proceed.	
2. Project Delivery Site: The winning bidder's owned and/or with JVA exclusive Dry-Docking facility with valid and updated MARINA Certificate of at least Class B Ship Building and Ship Repair (SBSR) Facilities.	
B. During Post Qualification:	
1. The winning Bidder having the Lowest or Single Calculated Bid (L/SCB) shall present the original submitted documents for verification and validation in accordance with the Implementing Rules and Regulations (IRR) of Republic Act (RA) 12009.	
C. Inspection and Acceptance:	
1. The CONTRACTOR shall conduct sea trials for satisfactory result prior acceptance.	
2. Upon satisfactory completion of works and testing, a Certificate of Acceptance on all completed works shall be properly signed by members of the PCG TIAC.	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

D. Warranty Period/ Coverage of Warranty:	
1. One (1) year warranty after issuance of the Certificate of Final Acceptance.	
2. The one (1) year warranty period shall be reckoned from the date of issuance of the certificate of final acceptance. However, if the same defects occurred for two (2) consecutive times within the warranty period on a particular part/item and its attendant part, the warranty period shall be automatically extended for a period of six (6) months after the expiration of the original warranty period. The said item should be repaired and/or replaced within fifteen (15) days from the receipt notice.	
E. Payment: 1. Payment should be made after the completion, inspection and acceptance of the Modernization of Structural Facilities of BRP BOJEADOR (AE-46).	
<p>As evidence of the compliance of the bidders to the legal, technical and financial requirements of the project and proof of their compliance to the statements of compliance to all parameters of the technical specifications, the bidders shall submit the following documentary requirements as part of the First (1st) Bid Envelope (Eligibility Documents and Technical Component) on or before the deadline for the Submission and Receipt of Bids:</p> <ol style="list-style-type: none"> 1. Certificate of "No Late Delivery" or "No Slippage" issued by the Project Management Office (PMO) of the Procuring Entity (PE) or from other government agencies with the same nature of project 2. ISO 9001:2015 Certificates applicable to Ship Building and Ship Repair and issued by any member of the International Association of Classification Society (IACS). The IACS member who issued the ISO 9001:2015 Certificate should be active for at least three (3) years prior to the bid opening. 3. Valid Marina Licensed at least Class B shipbuilding and ship repair. 4. Valid Ship Repairs Liability Insurance Certificate. 5. Certificate of Inspection signed by the Commanding Officer of the vessel after the conduct of inspection for confirmation of scope of work on the Modernization of Structural Facilities of BRP BOJEADOR (AE-46). 	
C. Training Personnel training for the use of equipment for a duration of up to five (5) days with at least ten (10) students.	
Terms and Conditions	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

1	The CONTRACTOR shall present the status of repair to the CPCG (ATTN:CG-10) and CGFLEET (ATTN: F10/MRG) which will be conducted every week on the preferred date of their authorized representatives by way of a PowerPoint presentation. Electronic and hard copies of the presentation shall also be provided.	
2	In case the implementation of works covered under this contract could not proceed, unless growth repairs and/or necessary works have been conducted, the supplier should request from the Head of the Procuring Entity for the extension of the period of delivery.	
3	In the event the request of the supplier for extension of delivery period is granted, or the contract was suspended due to force majeure, the Procuring Entity shall not be held liable for any additional charges such as, but not limited to, wharfage, lay days and incidental costs arising from the extension or suspension of contract.	
4	Once the CONTRACTOR has started any of the contracted work, such as docking of the vessel, it is the obligation of the CONTRACTOR to protect the vessel from any damage attached until the same has been delivered and accepted by the Procuring Entity.	
5	The CONTRACTOR should dry-dock the vessel in its <u>owned/or with JVA exclusive dry-docking facility</u> capable of protecting the same from natural calamities which necessitates the CONTRACTOR to relaunch or undock the vessel, CONTRACTOR SHOULD NOT charge or bill the Procuring Entity for any amount of whatever nature arising from relaunching and re-docking thereof.	
6	The CONTRACTOR must provide adequate firefighting personnel with the necessary firefighting equipment for the entire duration of the repair.	
7	The CONTRACTOR shall be held liable for any damages incurred on the ship and/or personnel due to the CONTRACTOR's fault or negligence for the entire duration of the contract	
8	The winning CONTRACTOR's facility shall be free of health hazard materials/substances.	
9	If there are specifications that require the opening of machinery, piping, fittings, and other equipment, it is understood that the CONTRACTOR shall close such machinery, piping, fittings, and other equipment, back to their original condition.	
10	Should the CONTRACTOR require the removal or shifting of any part of the vessel's fittings, stores, fuel, water, outfit, equipment, or piping for carrying out the work specified or implied, it shall remove the same at its own cost, and such removals shall be subsequently reinstalled in a satisfactory manner without cost to the Procuring Entity. The CONTRACTOR shall be held responsible for the protection of existing and newly installed equipment and materials. Any loss or damage due to the CONTRACTOR's fault shall be renewed/restored/repared at the CONTRACTOR's expense.	
11	All interferences necessary to accomplish the work activities shall be removed and restored to their original condition without cost to the Procuring Entity.	
12	All metal scraps, ferrous or non-ferrous, fittings, machineries and equipment parts dismantled and removed from the vessels and replaced with new ones by the CONTRACTOR resulting from the actual repair of the vessel conducted by the CONTRACTOR shall remain the property of the PCG and shall, after completion of the work, be accounted for IAW	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	proper PCG accounting procedures.	
13	The CONTRACTOR shall submit the After-Repair Completion Report to the procuring entity [CPCG (Attention: DCCGS for Ships and Aircraft Engineering, CG-10)] prior payment of the services rendered. Copy furnished CGFLEET (ATTN: F10/MRG)	
14	The CONTRACTOR shall notify the CGFLEET/ CG-10 at least five days (5) days before the conduct of any shipboard test and seven (7) days before conducting sea trials.	
15	<p>The CONTRACTOR shall not disclose/divulge any information and communication, whether oral or written, to any other person or entity, without the express written consent of the PCG. It includes non-disclosure of, but not limited, to the following:</p> <p>a.) Bidding Document</p> <p>b) Technical Specification of the Project</p> <p>c) Annual Procurement Plan and related Project Procurement Management Plan</p> <p>d) Proposals.</p>	
16	As part of the contractual obligations, the CONTRACTOR shall be held liable for any damages incurred on the vessel during the conduct of towing services and repair activities. Further, this liability extends until the completion of the project and final acceptance of TIAC.	
x-x-x-x-x-x-x Nothing Follows x-x-x-x-x-x-x		

[Signature of the Authorized Rep.]

[in the capacity of] (Please indicate position of Authorized Rep.)

Duly authorized to sign Bid for and on behalf of _____
(Please indicate name of company)



Section VIII. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

Each Bidder shall submit one (1) original and **six (6) copies** of the first and second components of its bid through their duly authorized representatives.

All envelopes shall:

- a. contain the name of the contract to be bid in **capital letters**;
- b. bear the name and address of the Bidder in capital letters;
- c. be addressed to the BAC with the following details:

**BIDS AND AWARDS COMMITTEE (BAC)
PHILIPPINE COAST GUARD – NATIONAL HEADQUARTERS**

- d. bear the specific identification of this bidding process; **and**
- e. bear a warning “**DO NOT OPEN BEFORE...**” the date and time for the opening of bids.

Note: Non-submission of the additional copies shall not be a ground for the bidders disqualification.

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- ☐ a) Valid and updated Philippine Government Electronic Procurement System (PhilGEPS) Registration Certificate (Platinum Membership) (all pages) in accordance with **Section 52.1 of the IRR of RA 12009**, Provided that all of the eligibility documents submitted to PhilGEPS are maintained and updated pursuant to **Section 20.2.9.2 of the IRR of R.A. 12009**.

For purposes of post-qualification, the bidder having the LCB/SCB shall submit copies of the following:

1. Securities and Exchange Commission (SEC) Registration Certificate for corporations, partnerships and/or joint ventures, Department of Trade and Industry (DTI) Registration Certificate for sole proprietorship, or Cooperative Development Authority (CDA) Registration Certificate for cooperatives;
2. Valid Mayor’s or Business Permit issued by the city or municipality where the principal place of business of the prospective bidder is

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

located, or the equivalent document for Exclusive Economic Zones or Areas.

3. Valid Tax Clearance Certificate per Executive Order (E.O.) No. 398, series of 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR); **AND**
4. Latest Audited Financial Statements (AFS), stamped “Received” by the BIR or its duly accredited and authorized institutions for Manual submission. For online submission, an email confirmation from the BIR in lieu of the manual “Received” stamping under Revenue Memorandum Circular No. 49-2020 or subsequent relevant issuance.

Technical Documents

- ☐ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid.

The Statement of all On-going Government and Private Contracts shall indicate for each contract, the following:

- name of the contract;
- date of the contract;
- contract period;
- owner’s name and address;
- kinds of goods;
- amount of contract and value of outstanding contracts; and
- date of delivery (please state estimated date of delivery)

For purposes of post-qualification, the bidders are required to submit copies of the Notices of Award (NOA), Contract/Purchase Order and Notice to Proceed (NTP) for all on-going government contracts. On the other hand, for on-going private contracts, bidders shall submit a copy of its contract and/or other equivalent documents of the NOA and NTP, if any.

Non-submission of copies of the NOA, Contract/Purchase Order and NTP on the deadline for the Submission and Receipt of Bids shall not be a ground for the bidder’s disqualification. However, the bidder having the Lowest/Single Calculated Bid shall be requested by the Technical Working Group (TWG) to provide copies of the aforesaid documents as part of the verification and validation process during post-qualification.

- ☐ (c) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid and completed within the last five (5) years commencing from the deadline for the Submission and Receipt of Bids amounting to at least fifty percent (50%) of the ABC or not less than the amount of Thirty-Nine Million Nine Hundred Forty-Three Thousand Five Hundred Thirty-Two and 09/100 (PhP 39,943,532.09).

The statement identifying the Single Largest Completed Contract (SLCC)

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

shall indicate the following:

- (a) name of the contract;
- (b) date of the contract;
- (c) contract duration;
- (d) owner's name and address;
- (e) kinds of goods;
- (f) amount of completed contracts, adjusted by the bidder to current prices using PSA's consumer price index, if necessary for purposes of meeting the SLCC requirement;
- (h) date of delivery (actual date of delivery for the single largest completed contract); and
- (i) end user's acceptance or official receipt(s) or sales invoice issued for the contract, Notice to Proceed and Purchase Order which shall be attached to the statement of SLCC.

The bidder's SLCC similar to the contract to be bid should have been completed within five (5) years prior to the deadline for the submission and receipt of bids.

For purposes of post-qualification, bidders are required to attach the following in its submitted Statement Identifying the SLCC:

a. If the contracting party is a Procuring Entity:

- a.1. Entire set of the Contract, Purchase Order or Memorandum of Agreement;
- a.2. NOA; and
- a.3. NTP

b. If the contracting party is a private company:

- b.1. Entire set of the Contract, Purchase Order or other equivalent document.

Bidders are also required to Include in the aforesaid Statement of All On-going Government and Private Contracts and Statement Identifying the SLCC the following information:

- a) Contact Person; and
- b) Contact Details (telephone/fax/cellphone number and/or email address)

- ☐ (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission, based on the following schedule:

DESCRIPTION	a) Cash, cashier's/ manager's check issued by a Universal or Commercial Bank;	c) Surety Bond, callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission authorized to issue said security specific for the
	b) Bank draft/ guarantee or irrevocable letter	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

OR;

	of credit issued by a Universal or Commercial Bank; Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank [at least Two Percent (2%) of the ABC]	project [at least Five Percent (5%) of the ABC]
MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)	PhP 1,597,741.28	PhP 3,994,353.21

- ☐ Original copy of Notarized Bid Securing Declaration; **and**
- ☐ (e) Conformity with the Technical Specifications and Schedule of Requirements. Further as part of the bidder's statement of compliance and to ensure the technical capability of the prospective bidders, the following documents shall be submitted:
1. Certificate of "No Late Delivery" or "No Slippage" issued by the Project Management Office (PMO) of the Procuring Entity (PE) or from other government agencies with the same nature of project
 2. ISO 9001:2015 Certificates applicable to Ship Building and Ship Repair and issued by any member of the International Association of Classification Society (IACS). The IACS member who issued the ISO 9001:2015 Certificate should be active for at least three (3) years prior to the bid opening.
 3. Valid Marina Licensed at least Class B shipbuilding and ship repair.
 4. Valid Ship Repairs Liability Insurance Certificate.
 5. Certificate of Inspection signed by the Commanding Officer of the vessel after the conduct of inspection for confirmation of scope of work on the Modernization of Structural Facilities of BRP BOJEADOR (AE-46).
- ☐ (f) Original duly signed Omnibus Sworn Statement (OSS); **and** if applicable, Original Special Power of Attorney for sole proprietorships, Notarized Secretary's Certificate/Board Partnership Resolution in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Reminder: If the prospective bidder's representative who will attend the Submission, Receipt, Opening and Preliminary Examination of Bids is different from the authorized representative to do, execute and perform any and all acts necessary and/or to represent the prospective bidder in the bidding, then the prospective bidder can include the name/s of said representative in the above-mentioned proofs of authorization (*e.g., original copy of the duly notarized Secretary's Certificate for corporations, Board/Partnership Resolution for partnerships, corporations, and/or joint ventures or an original copy of the Special Power of Attorney for sole proprietorships, whichever is applicable*)

Financial Documents

Class "B" Documents

- ☐ (g) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC);

Bidders must submit a computation of its NFCC, which must be at least equal to the sum of the ABC to be bid.

The minimum amount of the NFCC computation is at least **Seventy-Nine Million Eight Hundred Eighty-Seven Thousand Sixty-Four and 18/100 (Php 79,887,064.18)**

NFCC = [(Current assets minus current liabilities) **(15)**] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid.

The values of the domestic bidder's current assets and current liabilities shall be based on the latest Audited Financial Statements submitted to the BIR.

For purposes of computing the foreign bidders' NFCC, the value of the current assets and current liabilities shall be based on their audited financial statements prepared in accordance with international financial reporting standards.

A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

If the prospective bidder opts to submit a committed Line of Credit, it must be at least equal to ten percent (10%) of the total ABC to be bid if issued by a foreign universal or commercial bank, it shall be confirmed or authenticated by a local universal or commercial bank.

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

The amount of the committed line of credit must be at least in the total amount of **Seven Million Nine Hundred Eighty-Eight Thousand Seven Hundred Six and 42/100 (PhP 7,988,706.42).**

- (h) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence;

OR;

duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

Failure to enter into a joint venture in the event of a contract award shall be ground for the forfeiture of the bid security.

Each partner of the joint venture shall submit their respective valid and updated PhilGEPS Platinum Certificate of Registration and Membership in accordance with Section 8.5.2 of the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (R.A.) No. 9184.

The submission of technical and financial eligibility documents by any of the joint venture partners constitutes compliance: *Provided*, That the partner responsible to submit the NFCC shall likewise submit the Statement of all of its ongoing contracts and Audited Financial Statements.

24 FINANCIAL COMPONENT ENVELOPE

- (a) Original of duly signed and accomplished Financial Bid Form;
and
(b) Original of duly signed and accomplished Price Schedule(s).

All financial bids shall be rounded up to two (2) decimal places.

ADDITIONAL REQUIREMENTS TO BE COMPLIED BY THE WINNING SUPPLIER:

Within ten (10) calendar days from receipt of the Notice of Award (NOA), the winning supplier shall submit a Performance Securing Declaration or any form of Performance Security in accordance with the following schedule pursuant to Section 68.4 of the IRR of R.A. 12009 **which shall be denominated in Philippine Pesos, posted in favor of the Philippine Coast Guard and shall remain valid until issuance by the Philippine Coast Guard of the Certificate of Final Acceptance**, to wit:

a) Cash, cashier's/ manager's check issued by a Universal or Commercial Bank;	c) Surety Bond, callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission
b) Bank draft/ guarantee or irrevocable letter	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

of credit issued by a Universal or Commercial Bank; Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank [at least Two Percent (5%) of the Contract Price]	authorized to issue said security specific for the project [at least Thirty Percent (30%) of the Contract Price]
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------

The end-user or implementing units shall be responsible in monitoring the validity of the performance security.



Section IX. Bidding Forms

TABLE OF CONTENTS

BID FORM.....	41
PRICE SCHEDULES.....	43
CONTRACT	
AGREEMENT.....	45
OMNIBUS SWORN	
STATEMENT.....	48
BID SECURING DECLARATION.....	50
STATEMENT OF ALL ON-GOING CONTRACTS.....	53
STATEMENT OF THE SINGLE LARGEST COMPLETED CONTRACT.....	54
NFCC COMPUTATION.....	55
DIAGRAM FOR THE SEALING AND MARKING OF BIDS.....	58

BID FORM

Date: _____
Project Identification No. _____

To: [name and address of Procuring Entity]

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform]* *[description of the Goods]* in conformity with the said PBDs for the sum of *[total Bid amount in words and figures]* or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

[Insert this paragraph if Foreign-Assisted Project with the Development Partner:

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address Amount and Purpose of agent Currency, Commission or gratuity

(if none, state "None")/

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

The undersigned is authorized to submit the bid on behalf of *[name of the bidder]* as evidenced by the attached *[state the written authority]*.

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Name: _____

Legal capacity:

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

For Goods Offered From Abroad
[shall be submitted with the Bid if bidder is offering goods from Abroad]

Kindly supply the required information in the spaces provided. Do not forget to indicate the “Country of Origin” of the goods offered.
Any alteration to any of the terms and conditions contained in the document may cause your disqualification except if said alteration or revision is a result of a Supplemental/Bid Bulletin.

Name of Bidder _____. Invitation to Bid Number __. Page . of ____.

1	2	3	4	5	6	7	8	9
Item	Description	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place (specify border point or place of destination)	Total CIF or CIP price per item (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP (col 4 x 8)
A	DRYDOCKING & UNDOCKING WORKS							
	1	Docking and Undocking		1 occasion				
	2	Drydock lay days rental		100 days				
	3	Mooring and Unmooring - arrival, docking, undock, depart		3 movement				
	a)	Docking						

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		b)	Undocking							
		c)	Departure							
	4	Tug Assistance during towing, docking/undocking								
		a)	Assist vessel on Yard movement during beaching/docking.		1 /tug/hr.					
			Mobilization/demobilization during beaching/docking		2 /tug/hr.					
		b)	Assist vessel on Yard movement during unbeaching/undocking		1 /tug/hr.					
			Mobilization/demobilization during unbeaching/undocking		2 /tug/hr.					
	5	Shoreline Handlers - arrival, docking, undock, depart			3 movement					
		a)	Docking							
		b)	Undocking							
		c)	Departure							
	6	Dock Preparation and Block Arrangement								
			Hull Keel Block		50 /set					
			Hull Side Block Port & Starboard		12 /set					
			Removal of Blocks		13 /set					
			Relocation of Block		20 /set					
			Installation of Shoring Post		1 /set					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	7	Dock Master during movements docking & undock		2 movement					
B	GENERAL SERVICES								
	1	Wharfage - to provide berth side for afloat		15 days					
	2	Gangway for access during vessel stay at yard		1 /unit/time					
	3	Shore line Power							
		a) Connect and disconnect; 220V, single phase; 380V, 3 phase		1 time					
		b) Electrical power consumption, : 45 kw/day 70 days		3150 /kwh					
	4	Fire line Supply (SOP)							
		a) Connect and disconnect (Fwd. and Aft)		100 time					
		b) Daily maintained pressure supply		100 days					
	5	Fresh Water Supply							
		a) Connect and disconnect		1 time					
		b) Fresh Water Supply,		5 /kwh					
	6	Garbage Disposal (1 bin per day for 100 days)		30 cbm					
	7	Gas Free Inspection, : 43 days 4 tank		172 /day					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	8	Ventilation / Blower, : 7 days 2 units		140 /unit/day					
	9	Temporary Lighting, : 70 days 2 lights		140 /unit/day					
	10	Security Guard - SOP		100 /man-day					
	11	Safety Firewatch - SOP		100 /man-day					
	12	Yard's Equipment Usage							
		a) Forklift usage,		30 /unit/hr.					
		b) Crane usage - up to 25T,		20 /unit/hr.					
		Crane Mobilization/Demobilization		2 /time					
		c) Scissor Lift for blasting and painting access		30 /unit/hr.					
		d) Service boat for vessel crew usage							
		1. Arrival		8 /unit/hr.					
		2. Docking		8 /unit/hr.					
		3. Undocking / Shiplside		8 /unit/hr.					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			4. Departure		8 /unit/hr.					
		e)	service boat for supply of water in anchorage near yard		8 /unit/hr.					
		f)	Cherry Picker (Access for UTG, Blasting and Painting Works)		120 /unit/hr.					
	13	Scaffold / Staging for access								
		a)	External Staging (IWO propulsion works)		2500 /cbm					
		b)	Internal Staging		1 /cbm					
	13	Hull Scupper chutes			1 /piece					
	14	Various Testing								
		a)	Vacuum Testing on weldments on main deck & bottom plates.		50 /l-mtr					
	15	Provide temporary accommodation for vessel crew			4 /months					
		a)	provide temporary accommodation for vessel crew							
C	EXTERNAL HULL PRESERVATION									
	1	a)	Hull FW high pressure Jet washing from Keel to Topside,		1409 /sqm					
		b)	Hull FW low pressure Washdown prior second coat, Keel to Topside		1409 /sqm					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		c)	Hull Scraping from Keel to DLL		801 /sqm					
		d)	Hull Manual Chipping,		200 /sqm					
	2		Hull Grit / Stag Blasting on the following areas.							
		a)	Keel to DLL 1221.41 sqm							
			Spot Blasting (SA 2.0) 30% area 366.4 sqm		366 /sqm					
			Sweep Blasting (SA 2.0) 70 % area 855 sqm		855 /sqm					
	3		Hull Painting (Yard supply paints & thinners)							
		a)	Keel to DLL =1221.41 sqm							
			One (1) Full coat Epoxy primer		1221 m ² /coat					
			Two (2) Full coat Anti-Corrosive		2443 m ² /coat					
			Two (2) Full coat Anti-Fouling		4886 m ² /coat					
			Yard supply paints & thinners for 5 coat systems		4886 m ² /coat					
		b)	Bottom Painting - 178.86sqm							
			One (1) Full coat Epoxy primer		179 m ² /coat					
			Yard supply paints & thinners for 4coat systems		3500 m ² /coat					
	4		Seachest box/grids							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		a)	Seachest box/grids (clean, blast, paint, refit in good order)		5 /grating					
		b)	Blasting and painting of sea chest boxes		5 /chest					
	5	Hull Markings Repaint								
			Re-Paint with Yard's paint on hull markings							
		1	Draft Marks, Mid, Fwd., Aft, P/S		1 /set					
		2	Ship's Name, Fwd. P/S, Stern		1 /set					
		3	Port of Registry		1 /set					
		4	Plimsoll, P/S		1 /set					
		5	Ship's LOGO, P/S "COAST GUARD" allow 10sqm per side, Php 2,500/sqm		1 /set					
		6	Yard supply paints & thinners for markings/names/port of registry allow:		1 lot					
	6	Hull Zinc Anodes								
			Removing of wasted anodes and installation of new anodes (including rudder, and seachest box)							
		a)	Plain removal of anode		60 /anode					
		b)	Anode Installation		60 /anode					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		c)	Yard supply Zinc Anode@3kg Aluminum Anode		60 /anode					
		d)	Strap/Guard Installation		60 /anode					
		e)	Cover/Protection iwo painting		60 /pce					
		f)	Plain removal of anode inside tank		60 /pce					
		g)	Anode Installation inside tank		60 /pce					
D	STRUCTURAL WORKS									
	MAIN STRUCTURE WORKS									
	1	Ultrasonic Thickness Gauging - UTG (local in-house technician)								
		a)	Bottom & Side Shell Plate Gauging		300 /point					
		b)	In between frames from First (1st) strake to uppermost strake		200 /point					
		c)	Bulk head between tank no. 5 and Engine room bilge		200 /point					
		d)	P/S sea chest box		150 /point					
	2	Reweld Wasted Seams/ Butt / Build up - min of 1 mtr per pass				2 /l- mtr/pass				
		a)	Hammer test, inspect hull & marked suspected areas before dock		2 /l- mtr/pass					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		b)	Hull survey/inspection prior undocking		2 /l- mtr/pass					
	3		Hull Replating (External)							
			Hull external replating using Yards supply MS plates		1 lot					
			Mild Steel Plate (MSP) (Yards Supply plates) 10mm thick.		1 lot					
	4		Crop out and renew deteriorated shell plating and framing							
		A.	Renew/Re-plate the center keel use MS plate size 12.5 mm thick on center keel from FWD to Astern							
			7 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		500 /kgs					
			a) Blasting of new plates and paint with primer paint 1 coat							
			New MS Plates		156 /sqm					
			7 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		156 m ² /coat					
			Yard supply paints & thinners for 1 coat system							
			b) Conduct leak test, vacuum testing and							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			kerosene test							
			Vacuum Testing on weldments							
			7 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		500 /kgs					
		B.	Make re-plating on bulk head Coffe Dam between tank #4 (fresh water tank) to tank #5 (fuel tank), using MS plate 11mm thick w/ full weld side to side, lower and upper of the bulk head and make hydrotest after re-plating							
			5 sheets- 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		7110 /kgs					
			a) Blasting of new plates and paints with primer paint 1 coat							
			New MS Plates							
			5 sheets- 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		111 /sqm					
			Yard supply paints & thinners for 1 coat system		111 m ² /coat					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			b) Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			5 sheets- 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		79 /l-mtr					
			Supply of 12 sheets Marine Grade MS plates - 12.5 mm x 6 ft. x 20 ft.							
			12 sheets - 125 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		12 /sheets					
	5	Re - plating Bulkhead between Fore Peak Tank and Cargo Hold #1								
		a)	Re-plate Bulkhead between fore peak tank and cargo hold #1							
			5 sheets - 12.5 mm x 1828.711 x 6095.7 mmL Marine Grade MS Plate		3000 /kgs					
		b)	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			5 sheets - 12.5 mm x 1828.711 x 6095.7 mmL		111 /sqm					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Marine Grade MS Plate							
			Yard supply paint & thinners for 1 coat system		111 m ² /coat					
		c)	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			5 sheets - 12.5 mm x 1828.711 x 6095.7 mmL Marine Grade MS Plate		79 /l-mtr					
		d)	Supply of 5 sheets Marine Grade MS plates - 6 mm x 4ft. X 8 ft.							
			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		5 /sheets					
	6	Deteriorated boat deck plating from the pilot house to boat deck cabin.								
		A.	Crop out / re-plate the entire boat deck plating.							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		11262 /kgs					
		B.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		143 /l-mtr					
		C.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates		201 /sqm					
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		201 m ² /coat					
			Yard supply paints & thinners for 1 coat system							
		D.	Supply of materials for boat deck plating from the pilot house to boat deck cabin.							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		10 sheets					
	7	Deteriorated Main deck plating from forward to fantail								
		A.	Crop Out / Re-Plate the Entire Boat Deck Plating from forward to fantail							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		11262 /kgs					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		143 /l-mtr					
		C.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		201 /sqm					
			Yard supply paints & thinners for 1 coat system		201 m ² /coat					
		D.	Supply of materials for Entire Boat Deck Plating from forward to fantail							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		10 sheets					
	8		Replating of Entire Monkey Island and P/S Gun Mount plating		1 lot					
		A.	Provide labor and materials needed for the replating of entire monkey							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			island and gun mount side plating.							
		B.	Remove all interferences at the bridge, all ceiling, walling, electrical wirings, lightings and Electrical outlets.							
		C.	Crop out the entire monkey island deck plating and gun mount side plating.							
		D.	Replate using 10mm-T marine grade MS plate.							
			Blasting the new MS plate and painting with epoxy primer paint 1 coat.							
			Approx. 4 sheets 6ft x 20ft x 10mm-T Marine grade MS plate (Yard supply paint)							
		E.	Remove and replace all deteriorated framings using angle bar.							
			Approx. 20pcs 3in x 4in x 20ft							
		F.	After the replating conduct testing on weldments such as leak testing, vacuum test and kerosene test.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		G.	After the replating and leak testing install back the new PVC ceiling and walling panels with non-asbestos fire-resistant heat proofing insulation, electrical wirings, lightings and electrical outlets.							
		H.	After the installation of electrical wirings, lightings and electrical outlets conduct testing for the completion of works with satisfactory results.							
SECONDARY STRUCTURES										
	9	Replace Deteriorated Staircases And Hand Rails								
			6 length 1 in-D 6096 mm-L GI Pipe		37 /lmtrs					
			7 length 6 mm-t 200 mm-H 50+50 mm-F 6096 mm-L-GI Channel		904 /kgs					
			4 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		1 lot					
			A. Supply of materials for checkered plates false flooring works at Rudder Room							
			6 length 1 in-D 6096 mm-L		6 lengths					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			GI Pipe							
			7 length 6 mm-t 200 mm-H 50+50 mm-F 6096 mm-L- GI Channel		7 lengths					
			4 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		4 sheets					
	10		Deteriorated Ship's Cargo Crane Engine Canopy		1 lot					
		A.	Provide Labor and materials for the fabrication and installation of Ship's Cargo Crane Engine Canopy.							
		B.	Remove and replace the existing deteriorated Ship's Cargo Crane Engine Canopy.							
		C.	Apply anti-rust primer and painted finish							
	11		Installation of four (4) sets of inflatable life raft stands.		4 sets					
		A.	Provide four (4) sets of inflatable life rafts. 2 sets of 25 pax capacity and 2 sets 16 pax capacity							
			2 Set - 25 Capacity							
			2 Set - 16 capacity							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Provide labor and materials for the procurement and installation of four (4) sets new inflatable life raft racks.							
		C.	Install a life raft cradle at port and starboard boat deck (provide necessary measurements)							
	12	Mobile Platform Ladder			1 lot					
		A.	Fabricate steel mobile platform ladder with hand rails support.							
			Ladder - 1.00 m (height) Step - 0.22cm (length)							
			Ladder - 1.00 m (width) Rise - .20cm (height)							
		B.	Install four (4) pcs durable ladder wheels with safety lock.							
		C.	Apply anti-rust primer with painted finish to newly fabricated mobile platform ladder.							
	13	Deteriorated Railings at Forecastle								
		A	Repair/ Renew Railings at Forecastle Area		1 lot					
			Supply of Material							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		a. One (1) Lot GI Pipe 2 ½ by 20 schedule 80 – 8 pcs for stanchion post		6 lengths					
		b. One (1) Lot GI Pipe 1 by 20 schedule 80 – 8 pcs for railings		6 lengths					
	14	Deteriorated stanchion post for railings chain.		1 lot					
		A. Modify and install new stanchion post for chain							
		B. After installing apply paint with epoxy primer.							
		Supply of Material							
		One (1) Lot super GI pipe size approximate 2" x 20' schedule 80 for stanchion post chain railings at main deck		6 lengths					
MAIN DECK WORKS									
	15	Installation of 7pcs new closed chocks							
		A. Dismantling and installation of new closed chock		5 pcs					
		B. Supply of materials for close chock repair							
		1 length 1.5 in-D 6096 mm-L Round Bar		2 length					
		1 sheet 10 mm-t 1219.141 mm-W 6095.7 mm-L		1 sheet					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Marine Grade MS Plate							
	16		Deteriorated hatch cover handle							
		A.	Replace all deteriorated hatch cover handle with stainless steel flat bars 1"x5mm, M17 stainless							
			bolts with washer and nuts.							
			36 sets 5 mm-t 25 mm-W 300 mm-L Handle (Flat bar)		100 /kgs					
			36 sets M 17 Bolts, Nuts and Washers (Stainless)		36 /sets					
		B.	Supply of materials for Radar Mast Works and Supply of Navigational Lights							
			2 length 5 mm-t 25 mm-W 300 mm-W Handle (Flat bar)		2 length					
			36 sets M 17 Bolts, Nuts and Washers (Stainless)		36 sheet					
	17		Repair / Recondition of all port holes							
		A.	Pull out, Repair / Recondition of all 38 pcs of Port holes		38 pcs					
		B.	Replace old glass and gaskets		6 pcs					
		C.	Supply of materials for porthole repair works							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			38 sets bronze bolts / wing nut / pins / glass frames		1 lot					
	18		Forward Crew's head (Additional toilet bowl)		1 lot					
		A.	Install One (1) additional bowl at forward deck crew's accommodation							
		B.	Install modified division for two (2) toilet bowl with half doors to cover person inside							
		C.	Replace existing toilet bowl in way of modifying forward crew's head.							
		D.	Supply of Materials		1 lot					
			1. One (1) Lot steel plate for modified division							
			2. One (1) Lot for two (2) toilet bowl							
			3. One (1) Lot materials for installing the toilet bowl							
	19		Replating of deteriorated bulwark and gunwale.		1 lot					
		A.	Provide labor and materials for the replating of deteriorated bulwark and main deck gunwale.							
		B.	Crop out and replate the deteriorated plate of bulwark and main deck gunwale.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Replate the bulwark and main deck gun wale using marine grade MS plate.							
			Approx. 4sheets 6ft x 20ft x 10mm-T Marine grade MS Plate							
			Blasting of new MS plate and painting with epoxy primer paint 1 coat.							
			Yard supply paint							
		D.	Replace all deteriorated frames using angle bar.							
			Approx. 2pcs 3in x 3in x 20ft							
		E.	Make new freeing port using round bar.							
			Approx. 2pcs 17mm diameter							
		F.	Renew all scuppers and drain pipes.							
		G.	Conduct testing on all weldments for the completion of works with satisfactory result.							
	20	Replating of Forecastle			1 lot					
		A.	Provide labor and materials needed for the replating of Forecastle.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Crop out all deteriorated plates and framings using 11mm-T marine grade MS plate and weld side to side.							
		C.	Remove all interferences including ceiling and electrical wirings at FWD upper accommodation prior to crop out the deteriorated plates.							
		D.	Blasting of new plate and painting of epoxy primer 1 coat.							
			Approx. 8 sheets 6ft x 12ft x 11mm-T Marine grade MS plate.							
		E.	Remove and replace all deteriorated frames using 3in x 4in 20ft angle bar.							
		F.	After replating conduct leak testing vacuum test and kerosene test before installing back the electrical wiring, non-asbestos fire-resistant heat proof insulation and FWD accommodation PVC ceiling and walling panels.							
	ACCOMMODATION WORKS									
	21	Accommodation Head								

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A	Remove and replace deteriorated sewage tank and install new for Aft Accommodation Head							
			(approximate size of 100cm x 60 cm x 100 cm (LxWxH))							
			2 sheets - 6 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate		482 /kgs					
			a) Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			2 sheets - 6 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate		15 /l-mtr					
			b) Supply of 2 sheets Marine Grade Stainless Plate -6mm x 4ft. X 8ft.							
			2 sheets - 6 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate		2 /sheets					
	22		Modification of Existing Galley Arrangement		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Provide labor and materials for the modification of existing galley room arrangement.							
		B.	Provide and install stainless counter top, cabinets and overhead lockers.							
		C.	Provide and install galley room floor tiles							
		D.	Provide and install 2 units 8 cu ft chest freezer.							
		E.	Supply of Materials							
			1. Stainless Counter Top		1 set					
			2. Cabinets and Overhead Lockers		1 set					
			3. Floor Tiles		100 sets					
			4. 8 cu. ft. Chest Freezer (2 units)		2 units					
	23		Modify the forward upper and lower deck accommodation bunks.		1 lot					
		A.	Provide Labor and materials for the modification of forward upper and lower deck accommodation							
		B.	Fabricate and install bunks at the forward upper and lower deck							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			accommodation.							
		C.	Supply of Materials for Upper and Lower Deck Accom Bunks Repair							
			100 sets 2 in-t 3 in-W 8 ft-L Good Lumber							
			30 sets 3/4 in-t 4 in-W 8 ft-L Marine Plywood							
			95 sets 1/2 in-t 4 in-W 8 ft-L Marine Plywood							
			Nails / paint / screw / Sanding paper / brush							
	24	Modification of AFT accommodation head			1 lot					
		A.	Dismantling and replace of toilet bowls, drainage pipe, floor tiles, faucet and stainless lavatory and install new materials.							
		B.	Install new stainless lavatory with faucet							
		C.	Install new pipelines for shower.							
		D.	Install new pipeline for sea water flushing.							
		E.	Supply of Materials used for Accommodation Head Repair							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			2 Units Toilet Bowls		2 Units					
			1 Unit stainless steel lavatory with faucet		1 Unit					
			3 Length 4-in-D 6096 mm-L GI pipe schedule 80		3 Lengths					
			3 Length 3-in-D 6096 mm-L GI pipe schedule 80		3 Lengths					
			3 Length 1.5 in-D 6096 mm-L GI pipe schedule 80		3 Lengths					
			3 Length 0.5 in-D 6096 mm-L GI pipe schedule 80		3 Lengths					
			100 pcs 300 mm-W 300 mm-L Floor Tiles		100 pcs					
	25	Fitting of Lockers at FWD and AFT Accommodation area			1 lot					
		A.	Pull out Lockers at FWD and AFT accommodation area.							
		B.	Fitting of 34 sets of Lockers at FWD and AFT accommodation area.							
		C.	Supply of Materials used for Locker Works							
			50 pcs 3/4 in-t 4 on-W 8 ft-L Marine Plywood		50 pcs					
			Nails/paint/screw/Sanding paper/brush		1 lot					
	26	Replacement of old floor tiles at Commanding officer and Chief Engineer head			1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Dismantle and pull out old floor and wall tiles							
		B.	Replacement of floor and wall tiles at CO and Chef Engineer head							
		C.	Supply of materials							
			100 pcs 200 mm-W 200 mm-L Floor Tiles		100 pcs					
			100 pcs 200 mm-W 200 mm-L Wall Tiles		100 pcs					
	27	Modification of Engineering crew quarters and re-plating the tank top at the Launch engineer cabin			1 lot					
		A.	Provide labor and materials for the modification of aft accommodation (engineering crew quarters)							
		B.	Re-plate aft peak tank top at the launch engineer cabin							
		C.	Install new bunk for the launch engineer							
		D.	Fabricate and install bunks at the engineering crew quarters							
		E.	Supply of Materials							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			40 sets 2 in-t 3 in-W 8 ft-L Good Lumber		40 sets					
			10 pcs 3/4 in-t 4-in-W 8 ft-L Marine Plywood		10 pcs					
			10 sets 1/2 in-t 4-in-W 8 ft-L L Marine Plywood		10 sets					
			2 sheets 10 mm-t 1828.71 mm-W 6095.7 mm- Lmairne Grade MS Plate		2 sheets					
	28	Modify and Retiles of flooring at mid -ship head			1 lot					
		A.	Modify Mid-ship head install new toilet bowl and Replace new tiles							
		B.	Supply of materials							
			100 pcs 200 mm-W 200 mm-L Floor Tiles		100 pcs					
			100 pcs 200 mm-W 200 mm-L Wall Tiles		100 pcs					
			1 Unit Toilet Bowl		1 Unit					
	29	Modification of officer's head			1 lot					
		A.	Pull out defective toilet bow and lavatory							
		B.	Install new toilet bowl and lavatory							
		C.	Install faucet and new medicine cabinet with minor							
		D.	Supply of Materials							
			1 Unit Toilet Bowl		1 Unit					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			1 Unit Lavatory Bowl		1 Unit					
			1 Lot Medicine cabinet with minor		1 lot					
	30		Defective ceiling, walling and flooring in Officer's Cabin		1 lot					
		A.	Repair ceiling, walling, flooring tiles and doors.							
		B.	Install new vinyl flooring tiles							
		C.	Repair deteriorate doors, walling and ceiling							
		D.	Supply of Materials							
			100 pcs 1/4 in-t 4 in-W 8 ft-L Marine Plywood (Ceiling / Flooring)		100 pcs					
			2000 pcs 300 mm-W 300 mm-L Vinyl Floor Tiles		2000 pcs					
			100 sets 2 in-t 3 in-W 8 ft-L Good Lumber		100 sets					
	31		Additional billeting for officer's cabin		1 lot					
		A.	Convert the existing pilot house be modified and divided into two (2) cabin if the retrofitting of the new bridge is approved							
		B.	Install modified head for each cabin							
		C.	Install air-conditioning unit each for cabin							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D.	Install new wiring connections for outlet, switches and for lighting system							
		E.	Supply of Materials							
			1. One (1) Lot air-conditioning unit each for cabin (0.6 hp window type)		2 units					
			2, One (1) Lot Materials for retrofitting additional two (2) officer's cabin		1 lot					
			3. One (1) Lot Materials for the installation of head each cabin							
			4. One (1) Lot Nails							
			5. One (1) Lot Marine cables, breakers, outlets and switches							
	32		Defective coamings, Rubber Gasket, Dog lock hinges		1 lot					
			1. Recondition water tight steel doors and will fitted							
			2. Free-up, Stuck-up Dog locks and hinges							
			3. Replace stuck-up Dog Locks and hinges Bushing							
			4. Replace water tight gasket							
	33		Dilapidated Fantail Lavatory		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Remove and Replace the dilapidated fantail lavatory							
		B.	Provide all the materials needed for the repair of the said lavatory							
	34		Replating of entire tank top of Aft Peak Tank including engineering quarters head and launch engineer cabin.		1 lot					
		A.	Provide labor and materials needed for the replating of the entire tank top of Aft peak tank including engineering quarters head and launch engineer cabin.							
		B.	Crop out and replate the entire tank top of Aft peak tank using 11mm-T Marine grade MS plate and weld side to side.							
		C.	Replace all deteriorated angular frames.							
		D.	Blasting of new MS plates and paint with primer paint 1 coat. Yard supply paint. Approx. 4 sheets 20ftx6ftx11mm-T Marine grade MS plate							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		E.	Conduct leak test, vacuum testing and kerosene test.							
	35		Modification of CO and EX-O Cabin		1 lot					
		a)	Repair and/or replace ceiling, walling, flooring tiles and doors.							
		b)	Install new vinyl flooring tiles.							
		c)	Replace deteriorate doors, walling and ceiling							
		d)	Install PVC film panels							
		e)	Install non-asbestos fire resistance materials, heat proofing insulation at walls and ceilings							
		f)	Increase Height Clearance by 2.5m and widening of CO and New Exo cabin by 1 frame.							
		g)	Modification of CO cabin and female cabin area into two Separate Cabin with own Toilet and Bath							
		h)	Pull-out and replace defective toilet bowl and lavatory							
		i)	Install faucet and medicine cabinet with mirror							
		j)	Installation of bidet							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		k)	Dismantle and pull-out old floor and wall tiles							
		l)	Re-piping of floor drain 2-inch and toilet bowl 5-inch							
	36	Modification of Engineering's Accommodation Head			1 lot					
		A.	Dismantling and replacement of toilet bowls, drainage pipe, floor tiles, faucet and stainless lavatory and install new materials.							
		B.	Install new stainless lavatory with faucet							
		C.	Install new pipelines for shower.							
		D.	Install new pipelines for sea water flushing.							
	BRIDGE AND NAVIGATIONAL WORKS									
	37	Modification of existing Radar mast base on the standard height of mast requirements with complete navigational lights								
		A.	Modify existing radar mast base on the standard height of mast requirements with complete navigational lights and pulleys on P/S flag and pennants							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			1 set 4 in-D 20 ft-L Radar Mast Body		6 /mtrs					
			1 sheet 6 mm-t 1219.141 mm-W 6095.7 mm-L Marine Grade MS Plate		350 /kgs					
		B.	Installation of complete navigational lights and pulleys on P/S flag and pennants		1 lot					
		C.	Supply of materials for Radar Mast Works and Supply of Navigational Lights							
			1 length 4 in-D 20 ft-L Radar Mast Body		1 length					
			1 sheet 6 mm-t 1219.141 mm-W 6095.7 mm-L Marine Grade MS Plate		1 sheet					
			1 lot marine cable, circuit breakers, panel board and navigational lights.		1 lot					
		D.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			1 sheet 6 mm-t 1219.141 mm-W 6095.7 mm-L Marine Grade MS Plate		15 /sqm					
			1 length 101.6 mm-D 6.095703 mm-L Radar Mast Body		2 /sqm					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Yard supply paints & thinners for 1 coat system		15 m ² /coat					
	38		Retrofitting of new bridge/pilot house with radio room, chart room and admin office		1 lot					
		A.	Retrofiring of bridge for the proper arrangement of navigational equipment, bridge console and engine control dashboard with chart room radio room, admin office.							
		B.	Supply of materials		1 lot					
			1. Provide 1 Lot steel plate							
			2. Provide 1 Lot Angular bars							
			3. Provide 1 Lot Plywood and screws							
			4. Provide 1 Lot worries bedded for installing of outlets, lights and navigational equipment.							
	39		Deteriorated and Holed Cargo Hatch coaming Side Plating of Cargo Hold Nr. 1 and 2		1 lot					
		A.	Provide labor and materials needed for the replating of cargo hold 1 and 2 coaming side plating.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Crop-out/ replate the Cargo hatch coaming side plating.							
		C.	Install natural ventilation for cargo hold number 1 and 2 with water tight cover in case of bad Weather,							
		D.	Install 4 natural ventilation each cargo hold, 2 ventilations located at the port and starboard of cargo hold nr 1 near the access door of FWD accommodation and the 2 is located at the sounding area of fresh water tank nr 2.							
		E.	Install 4 natural ventilation each cargo hold, 2 ventilations located at the fuel sounding area of FO tank nr 3 of cargo hold or 2 and the 2 is located near the mounting area of outboard motor.							
		F.	Remove and replace framing and stiffeners.							
		G.	Install cargo hold cover lock for securing of cargo hold 1 and 2.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		H.	Install marine grade folding pad eye around the coaming approx. 5 folding pad eye each side of the coaming for both cargo hold 1 and 2.							
		I.	Remove and replace cargo hold cover beam and beam holder at the coaming.							
	40	Installation of New Search Light and Aldis Lamp			1 lot					
		A.	Installation of Search Lights and Aldis Lamp							
		B.	Installation of 2 search light port and std with appropriate luminescence estimated beam services distance 4miles-7miles for search and rescue with manual handle controller at Bridge							
		C.	Provide Portable Aldis Lamp with appropriate power supply connection at port and starboard							
	41	Installation of new echo sounder.			1 lot					
		A.	Provide labor and materials needed for the installation of echo sounder same as existing							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			unit.							
		B.	Install new set of echo sounder at the bridge.							
			Conduct testing of the echo sounder for the completion of works and with satisfactory result.							
	42	Maintenance of existing fish finder.			1 lot					
			Provide labor and materials for the maintenance of existing fish finder.							
	43	Install new public address system.			1 lot					
		A.	Provide labor and material needed for the installation of new public address sound system.							
		B.	Provide and install new set of public address sound system with speakers at the bridge, midship, officer's gantry, wardroom, crews mess, engineering quarters, FWD upper and lower accommodation, motor control room, cargo hold number 1 and 2.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	After installation conduct testing for the completion of works and with satisfactory result.							
		ENGINE ROOM AND OTHER WORKS								
	44		Remove and replace deteriorated angular frames and fitting of checkered plates false floor							
		A.	Provide labor and material for the installation of lacking engine room false flooring							
		B.	Remove and replace deteriorated frames and checkered plate false flooring							
		C.	Install angular frames and L-Bars as a support / base of engine room false floor							
		D.	Install new checkered plate on deteriorated and lacking of false flooring							
			10 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		1 lot					
			20 pcs 6 mm-t 50+50 mm-F/W 6195.6 mm-L Angle Bar		124 /lm					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			1 sheet 6 mm-t 1219.141 mm-W 2438.3 mm-L Marine Grade MS Plate		252 /kgs					
			100 sets M 16 25 mm-L Bolts and Nuts with Lock Washer- Stainless		100 /sets					
		E.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			1 sheet 6 mm-t 1219.141 mm-W 2438.3 mm-L Marine Grade MS Plate		6 /sqm					
			20 pcs 6 mm-t 50+50 mm-F/W 6195.6 mm-L Angle Bar		25 /sqm					
			Yard supply paints & thinners for 1 coat system		31 m ² /coat					
		F.	Supply of materials for checkered plates false flooring works at Engine Room							
			10 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		10 sheets					
			20 pcs 6 mm-t 50+50 mm-F/W 6195.6 mm-L Angle Bar		20 pcs					
			1 sheet 6 mm-t 1219.141 mm-W 2438.3 mm-L		1 sheets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Marine Grade MS Plate							
			100 sets M 16 25 mm-L Bolts and Nuts with Lock Washer- Stainless		100 sets					
	45	Remove and Replace Deteriorated Checkered at Aft Rudder Room and Locker Area								
		A.	Pull out existing checkered plates at aft rudder room, locker and install new checkered plates							
			6 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		1 lot					
			7 pcs 6 mm-t 50+50 mm-F/W 6195.6 MM-L Angle Bar		43 /lm					
		B.	Supply of materials for checkered plates false flooring works at Rudder Room							
			6 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		6 sheets					
			7 pcs 6 mm-t 50+50 mm-F/W 6195.6 MM-L Angle Bar		7 pcs					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			7 pcs 6 mm-t 50+50 mm-F/W 6195.6 MM-L Angle Bar		9 /sqm					
			Yard supply paints & thinners for 1 coat system		9 m ² /coat					
	46		Deteriorated and holed smoke stack panel of the exhaust of engine room machineries							
		A.	Crop-out/ repair/ re-plate deteriorated smokestack Panel Casing and framing plating							
			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		3640 /kgs					
		B.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		63 /l-mtr					
		C.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		89 /sqm					
			Yard supply paints & thinners for 1 coat system		89 m ² /coat					
		D.	Supply of materials for smoke stack plating							
			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		4 sheets					
	47	Install new stern tube stuffing box and replate the bulkhead between engine room bilge and Aft Peak tank where p/s stern tube stuffing box are located.								
		A.	Crop out deteriorated bulkhead and replate in preparation to the installation of p/s stern tube stuffing box.							
			5 sheets 12.5 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		7110 /kgs					
			20 pcs 8 mm-t 75+75 mm-F/W 6195.6 mm-L Angle Bar		124 /lm					
		B.	Install stern tube stuffing box align to the main propulsion drive shaft		2 sets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Supply of materials for bulkhead replating and supply of stuffing box							
			5 sheets 12.5 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		5 sheets					
			2 set Stuffing Box (Brand New)		2 sheets					
			20 pcs 8 mm-t 75+75 mm-F/W 6195.6 mm-L Angle Bar		20 pcs					
	48		Install heat proofing insulation at FWD upper and lower accommodation, engine room bulkhead, smoke stack, engine room overhead, engine crew's accommodation.		600 sqm					
	49		Replace P/S Engine Room Access Door.		1 lot					
		A.	Provide labor and materials needed for the replacement of Port and Starboard engine room access door.							
		B.	Remove existing wooden access door and replace it with aluminum doors.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Make and install new aluminum doors for port and starboard engine room access with heat and sound proofing insulation to reduce the noise and heat during underway.							
		D.	Install marine grade glass on both doors for seeing the engine room while the door is closed during underway.							
		E.	Install door knobs and heavy-duty hinges on both aluminum doors.							
		F.	Remove and replace the existing wooden door jambs and replace it with aluminum door jambs on both port and starboard engine room access door.							
	TANK STRUCTURAL WORKS									
	50		Renew / Replate the cofferdam between fuel tank #3 and fresh water tank #4							
		a)	Renew re-plate the copper dam between fuel tank #3 and fresh water #4 using 12.55 mm steel plate							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		7110 /kgs					
		b)	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		111 /sqm					
			Yard supply paints & thinner for 1 coat system		111 m ² /coat					
		c)	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		79 /l-mtr					
		d)	Supply of 5 sheets Marine Grade MS plates - 6 mm x 4 ft. x 8 ft.							
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		5 /sheets					
	51		Fabricate additional cofferdam fresh water tank #2 and fuel							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		tank #3								
		A.	Make Additional cofferdam between fresh water tank #2 and fuel #3 using 12.5mm steel plate							
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		5907 /kgs					
		B.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		67 /sqm					
			Yard supply paints & thinners for 1 coat system		67 m ² /coat					
		C.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		48 /l-mtr					
			D. Supply of 5 sheets Marine Grade MS plates - 6mm x 4ft. X 8ft.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		3 /sheets					
	52		Deteriorated and Holed Plating of Cargo Hold Nr 1 Which Under P/S Freshwater Tank Nr 2							
		A.	Crop-out/ repair/ re-plate the in-tire top deck plating of the Cargo hold nr 1 (approx. 200 sq. meters)							
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate		7963 /kgs					
		B.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate		111 /l-mtr					
		C.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate		156 /sqm					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Yard supply paints & thinners for 1 coat system		156 m ² /coat					
		D.	Supply of materials for Cargo hold No.1 plating							
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate		9 sheets					
	53	Deteriorated and dented top plating of Cargo hold Nr 2, which is below of P/S FO Tank Nr 3								
		A.	Crop-out / repair/ re-plate the in-tire deteriorated top plating of the cargo hold nr 2							
		B.	Crop-out/ repair/ re-plate the in-tire top deck plating of the Cargo hold nr 1 (approx. 200 sq. meters)							
			3 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		3413 /kgs					
		C.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			3 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS		48 /l-mtr					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Plate							
		D.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			3 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		67 /sqm					
			Yard supply paints & thinners for 1 coat system		67 m ² /coat					
		E.	Supply of materials for Cargo hold No.2 plating							
			3 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		3 sheets					
	54	Deteriorated and Holed Cargo Hatch Side Plating of Cargo Hold Nr 1 And 2 And Main Deck Plating Passage								
		A.	Crop-out/ repair/ re-plating of Cargo hatch coaming side plating and main deck passage of Cargo Nr 1 and 2							
		B.	Crop-out/ repair/ re-plate deteriorated smokestack Panel Casing and framing plating							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			8 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		9101 /kgs					
		C.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			8 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		127 /l-mtr					
		D.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			8 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		178 /sqm					
			Yard supply paints & thinners for 1 coat system		178 m ² /coat					
		E.	Supply of materials for Cargo hold No. 1 and 2 Main deck plating							
			8 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		8 sheets					
	55		Replating of bulkhead tank number 5 and engine room		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		main bilge including P/S Sea Chest Box.							
		A. Provide labor and materials needed for the replating of bulkhead between tank number 5 and engine room main bilge including port and starboard sea chest box.							
		B. Crop out and replate the bulkhead between tank number 5 and engine room main bilge including port and starboard sea chest box.							
		C. Remove and replate the bulkhead and replace all deteriorated frames and install new plates and frame.							
		D. Remove the existing sea chest box and make new port and starboard sea chest box with division for the suction of port and starboard main and auxiliary engine.							
		E. Blasting of new plate and painting with epoxy primer 1 coat.							
		Approx. 4 sheets 6ft x 20ft x 12.5mm-T Marine grade							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			MS Plate							
		F.	Conduct leak test, vacuum test and kerosene test for the completion of works with satisfactory results.							
	56	Replating of Bulkhead Between Aft Peak Tank and Rudder Room			1 lot					
		A.	Provide labor and materials for the replating of bulkhead between Aft peak tank and rudder room.							
		B.	Crop out the deteriorated bulkhead plating and framing.							
		C.	Replate bulkhead using 12.5mm-T Marine grade MS plate and weld from side to side.							
		D.	Blasting and painting of MS plate primer paint 1 coat.							
			Yard supply paint							
			Approx. 1 sheet 20ft x 6ft x 12.5mm-T Marine grade MS Plate							
		E.	Conduct leak test, vacuum test and kerosene test for the completion of works							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			with satisfactory result.							
			FIREFIGHTING AND LIFESAVING							
	57	Install cradle for rubber boat at P/S deck area								
			10 length 4 mm 6 mm 100 mm 6 mm Hbeam		2360 /kgs					
			A. Supply of materials for rubber boat cradle							
			10 length 4 mm 6 mm 100 mm 6 mm Hbeam		10 lengths					
	58	Install 30pcs A60 Standard Fireproof Doors and Replace all wooden doors.			30 pcs					
		A.	Pull-out all wooden doors at accommodation areas, Officer's country, heads and wardroom.							
		B.	Install 30 pcs fire proof doors with appropriate door knob, hinges and heavy-duty hydraulic heads door closer surface mounted with stand arm at accommodation areas, Officer's country, heads and wardroom.							
	59	Installation of General Alarm System			1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Provide labor and materials for the installation of new general sound alarm at bridge.							
		B.	Install New set of general alarm system with bell at the bridge, FWD accommodation, midship, officer's gantry, crew's mess, engineering quarters, motor control room, cargo hold number 1 and 2.							
		C.	After installation conduct testing for the completion of works with satisfactory result.							
	SEWAGE TANK AND SEWAGE TREATMENT									
	60	Replace and Install New Sewage Tank with Vertical Centrifugal Pump and Motor for Aft			1 lot					
	61	Remove and replace old sewage pipe lines.								
			8 length. 4 in-D 6096 mmL		49 /lmtrs					
	62	Installation of flanges, stainless bolts and nuts with lock washer to the newly fabricated system								
			16 sets 4 in-D Flange-Stainless		16 /sets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		64 sets M 16 40mmL Bolts and Nuts with Lock Washer-Stainless		64 /sets					
	63	Fabricate stainless steel foundation for the new sewage tank (approximate size of 25mm-t x 4 x 8')							
		1 sheet - 12.5 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate		502 /kgs					
	64	Installation of heavy-duty sewage vertical centrifugal pump and motor with floater switch and complete sets of accessories (Panel controller, marine wiring cables and cable tray)							
		1 set -Heavy duty sewage vertical centrifugal pump and motor with floater switch		1 lot					
		1 set -Panel controller							
		1 set -marine wiring cables and cable tray							
	A.	Supply of materials for new sewage tank fabrication							
		2 length 4 in-D 6096 mm-L GI Pipe- Sch.80		2 /lengths					
		10 sets 4 in-D Flange-Stainless		10 /sets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			40 sets M 16 40 mm-L Bolts and Nuts with Lock Water-Stainless		40 /sets					
			1 sheet - 12 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate		1 /sheets					
			1 set -Heavy duty sewage vertical centrifugal pump and motor with floater switch		1 set					
			1 set -Panel controller		1 set					
			1 set -marine wiring cables and cable tray		1 set					
	65	Install New Sewage Treatment Plant			1 lot					
		A.	Provide and install One (1) set of sewage treatment plant system.							
		B.	Provide Labor and materials for the fabrication and installation of sewage treatment plant at the engine room.							
		C.	Fabricate bed plate foundation for the mounting of the new sewage treatment plant.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D.	Install bypass pipe using 100mm pipe diameter with 100mm gate valve direct to over board In case the sewage treatment plant malfunction.							
		E.	After installation conduct testing for the completion of works and with satisfactory result.							
	GUNNERY WORKS									
	66	Installation of four (4) gun mount system			4 pcs					
		A.	Install two (2) sets of .50 Cal HMG gun mount system at port and starboard monkey island							
		B.	Install two (2) sets of 7.62 mms LMG gun mount system at port and starboard Boat Deck							
	67	Fitting of Armory			1 lot					
		A.	Replace old Armory Locker							
		B.	Install metal framing at Armory Cabinets and drawers							
		C.	Apply metal and wood paint with epoxy primer							
		D.	Install appropriate brackets for Gun Mounts							
		E.	Install Armory Gun Rack							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		F.	Install metal doors with appropriate hinges for armory door							
		G.	Install metal double lock mechanism at armory doors							
E	PIPES AND PIPING SYSTEM									
	1	Renewal of Pipelines (Yard supply)								
			Minimum of one (1) meter per section (flange to flange)		1 lot					
	2	Defective sea water manifold valves / fresh water manifold valve and piping line			1 lot					
		A.	Pull out the sea water and fresh water manifold valves from ship to shop for repair and reconditioning and after reconditioning deliver from shop to ship and install.							
		B.	Replace, provide sea water manifold and fresh water manifold if cannot be repair.							
		C.	Install new suction piping's connection and connect from tank to sea water manifold valve and fresh water manifold valve.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D.	Install new sea water and fresh water manifold valves, and test to satisfactory result.							
		E.	Supply of Material							
			One (1) Lot sea water manifold valves		1 lot					
			One (1) Lot fresh water manifold valves.		1 lot					
			One (1) Lot Piping's on sea water suction pipe connected to sea water manifold. G.I Schedule 80.		3 lengths					
			One (1) Lot Piping's on fresh water suction pipe connected to fresh water manifold. G.I Schedule 80.		3 lengths					
	3		Make new Sea Chest Box for Fire Pump		1 lot					
		A	Make new sea chest box for fire pump separate to the sea chest box of main engine.							
		B	Install new 4" suction pipe lines with globe valve connected to the fire pump.		1 length					
		C	Conduct to leak testing and hydro testing upon completion of welding works.		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D	Apply epoxy paint and install zinc anodes inside the sea chest box.							
			1. Pull out existing suction piping and install new suction pipe on P/S tank Nr 3 and 5		1 lot					
			2. Install new suction piping with foot valve on P/S tank Nr 3 connecting to fuel oil transfer manifold valve							
			3. Install new suction piping with foot valve on P/S tank Nr 5 connecting to fuel oil transfer manifold valve							
			4. Make hydro testing on pipe to be install before installing to designated tanks for satisfactory testing result							
			Supply of Material							
			1 Lot BI pipe size approx. 2" dia x 20'		4 lengths					
			1 lot flanges		10 pcs					
			1 lot bolt & nuts		40 sets					
			1 lot gasket		50 pcs					
	4		Fitting of Pipe and Valves for Toilet Bowls		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Install new sea water flushing pipe line from engine room to forward head, CO & Chief Engineer Head, mid-Head, Officer's Head, Engineering Crew's Head and Officers Boat Deck Head							
			Supply of Material							
		B.	Fitting of 1 Lot GI Pipe 1" x SCH 80-10 pcs / Valves + 6pcs, union = 6pcs							
			10 pcs 1 in-D 6096 mm-L GI Pipe- Sch. 80		10 pcs					
			6 pcs 1 in-D Valves		6 pcs					
			6 pcs 1 in-D Fittings		6 pcs					
		C.	Dismantled/ Pull out existing Fire Hydrant and Piping line System		1 lot					
		D.	Install new fire hydrant and piping line system							
		E.	Relocate suction pipe of the fire pump to sea chest or make sea chest for the suction of the fire pump							
			Supply of Material							
			1. Provide and install 1 lot – GI Pipe 2-1/2" Dia x SCH 80 x 20"		4 lengths					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			2. Provide and install 1 lot – GI Pipe 1-1/2" Dia x SCH 80 x 20"		4 lengths					
			3. Provide and install 1 lot – Flanges 56 pcs, Elbow 50 pcs, Tee 5pcs, Reducer 8 pcs							
			56 pcs 2.5 in-D Flange		56 pcs					
			50 pcs 2.5 in-D Elbow		50 pcs					
			5 pcs 2.5 in-D Tee		5 pcs					
			8 pcs 2.5 in-D Reducer		8 pcs					
		F.	Provide and install 1 lot – Ball valve 2" – 5pcs, Ball valve 1-1/2" 1pc							
			5 pcs 2 in-D Ball Valve		5 pcs					
			1 pc 1.5 in-D Ball Valve		1 pc					
		G.	Provide and install 1 lot – BI pipe size approx. 4" dia x 20 and valve size approx. 4" dia = 1pc each for the relocation of suction pipe of the fire pump							
			1 pc 4 in-D BI Pipe		1 pc					
			1 pc 4 in-D		1 pc					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Valve							
		H.	Provide and install 1 lot – flange size approx. 4" = 6							
			6 pcs 4 in-D Flange		6 pcs					
		I.	Provide and install 1 lot - Support/ Clamp/ Bolt / Gasket		1 set					
		J.	Provide and install 1 lot water cannon and accessories		1 set					
	3		Deteriorated and holed breather pipe and valves at P/S sea chest box		1 lot					
		A.	Pull out existing deteriorated and holed breather pipe and valves on Port and Starboard sea chest suction box, and ship to ship							
		B.	Install new breather pipes with flange connection, valves, elbows, tees, brackets and bolts and nuts							
		C.	After re-assemble the new the new breather pipes, make hydro testing before installing at the ship in same position on sea chest suction box							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D.	4. Paint with epoxy Primer and test to satisfactory upon completion of works							
			Supply of Material							
			1. 1 Lot BI Pipe size approx. 2" dia x sched 80" x 20" = 3pcs		3 lengths					
			2. 1 Lot Flanges		12 pcs					
			3. 1 Lot Elbow		6 pcs					
			4. 1 Lot gasket		1 set					
F	TANK WORKS									
	1		Removal/reinstallation of drain/bottom plugs		1 /set					
	2		Opening/reclosing of Manhole, (Yard's gasket)		1 /set					
	3		Fuel Oil Tank No. 5		1 lot					
		a)	Provide labor and materials needed for the replating of entire tank top of tank nr 5							
		b)	Crop-out/ re-plate the entire top deck plating of tank n 5 (approx. 200 sq. meters).							
			5 sheets 10 mm-T 1828.71 mm-W 6096 mm-L							
			Marine Grade MS Plate							
		c)	Conduct leak test, vacuum testing and kerosene test.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5 sheets 10 mm-T 1828.71 mm-W 6096 mm-L Marine Grade MS Plate.							
		d)	Blasting of new plates and paint with primer paint 1 coat. New MS Plates 5 sheets 10 mm-T 1828.71 mm-W 6096 mm-L Marine Grade MS Plate Yard supply paints & thinners for 1 coat system							
G	CLEANING OF TANKS									
		1	Fuel Oil Tank Center - 2.0 m ³							
		2	Pump out residual fuel and dirty fuel/oil.		200 tons					
		3	Bail-out mud/sludge/waste.		2 /cbm					
		4	Clean & Wipe Dry		1 lot					
		5	Provide storage for fuel (200 tons)		100 days					
H	ANCHORS/CHAINS AND LOCKERS WORKS:									
		1	Range out/in anchor chain from c/locker & lay-out to dock floor		2 /set/s					
		2	De-rust chain slagblasting to SA 2.0		2 /set/s					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		3	Calibrate anchor and chain & issue certificate		2 /set/s					
		4	Disconnect/reconnect bitter ends.		2 sets					
		5	Renew anchor/chain swivel. -		5 pcs					
		6	Free-up frozen swivel.		5 per piece					
		7	Free-up tangled chains.		3 per set					
		8	Apply one coat (chain & anchor) -		2 per set					
		9	Pumping out sea water & bail-out mud from chain locker		10 /drum					
		10	Apply paint/coating to chain locker - Yard's paint		2 /locker					
I	TAILSHAFT WORKS									
		1	Fixed Type Tailshaft, assuming 151-175 mm-D of shaft		1 lot					
		2	Remove/re-install rope guard.		2 time/s					
		3	Check bearing clearance of tailshaft.		2 location/s					
		4	Decouple/re-couple, jump off tailshaft		2 shaft/s					
		5	Remove, lay aside and reinstallation of intermediate shafts		2 unit/s					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		6	Draw out Tailshaft		2 shaft/s					
		7	Transport tailshaft to shop for works		2 shaft/s					
		8	Transport intermediate shaft to shop for works		2 shaft/s					
		9	Disassemble/assemble packing gland, P/S		2 shaft/s					
		10	Renewal of packing using yard supply materials		2 shaft/s					
		11	Dye check tailshaft tapered ends @ coupling and propeller side.		4 /shaft					
		12	Conduct Honing/blue fitting of port/starboard side propeller taper cone both propeller side and coupling sides.		2 /loc					
		13	Removal of Existing deteriorated bearing and replaced with newly fabricated bearing (Yard Supply)		4 bearings					
		14	Clean & polish of tailshaft.		2 shaft/s					
		15	Mount tailshaft to lathe machine, clean & polish and check straightness tailshaft.		2 shaft/s					
		16	Check and calibrate tailshaft's sleeves		2 /sets					
		17	Recondition bolt/nuts, flange		16 pce					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		18	Check radial/ axial alignment		2 shaft/s					
		19	Renew inboard/outboard bearings using yard supply materials.							
			A. Inboard Bearing (With assuming bearing dimensions)							
			2 sets 6.417 in-D 9.84252 in-L (Fabrication of bearing by of holes)		637 in3					
			2 sets 8.417 in-D 9.84252 in-L (Fabrication of bearing by Skimming)		521 in2					
			B. Outboard Bearing (With assuming bearing dimensions)							
			2 sets 6.417 in-D 13.77953 in-L (Fabrication of bearing by boring of holes)		891 in3					
			2 sets 8.417 in-D 13.77953 in-L (Fabrication of bearing by Skimming)		729 in2					
			C. Supply of Thordon Bearing		1 set					
J	PROPELLER WORKS									
			Fixed Type Propeller; 1101-1200 mmOD x 3 blades,							
		1	Clean and polish propeller blades.		2 unit/s					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		2	Unfreeze, remove/reinstall propeller lock nut		2 unit/s					
		3	Removal/reinstallation of propeller blades		2 unit/s					
		4	Pull out rubber seal and install using Yard's materials. Remove and reinstall keep ring.		2 unit/s					
		5	Haul to shop propeller blades		2 set/s					
		6	Dye check blade roots		2 set/s					
		7	Pull-out and re-install propeller hub		2 /set					
		8	Propeller Reconditioning and repitch		2 /set					
		9	Repair/Adjustment of propeller shafting		2 lot					
K	RUDDER WORKS									
	1	: 151-175 mm dia.								
		a)	Check clearance of pintle bearing		2 pce					
		b)	Repack rudder stock gland using Yard supply materials		2 pce					
		c)	Unfreeze, recondition rudder stud bolts/nuts		12 pce					
		d)	Disassemble/re-assemble steering gear.		2 set/s					
		e)	Remove/re-installation of blade.		2 set/s					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		f)	Remove and re-install rudder stock.		2 set/s					
		g)	Machine to finish rudder stock - Yard supply bearing		2 /pc					
		h)	Transport rudder stock to shop for works.		2 stock/s					
		i)	Mount on lathe machine to check lateral or torsional distortion.		2 set/s					
		j)	Clean rudder stock tailshaft & apply preservation coat		2 pce					
		k)	Break solid cement sealed at rudder flanges, re-cement		2 set/s					
		l)	Check bearing clearance of rudder stock.		2 shaft/s					
		m)	To perform swing test of rudder stocks and blades		2 shaft/s					
	2	Replacement of Stern Tube			1 lot					
		a)	Pull out existing stern tube assembly.							
		b)	Align the P/S Stern Tube to the main propulsion and propeller strut.							
		c)	Conduct alignment test prior to final fitting of new P/S Stern Tube assembly with stuffing box and packing glands.							
		d)	Labor Costs							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		e)	Supply of Materials for Installation.							
L	HARBOR GENERATOR WORKS									
	1	HARBOR GENERATOR			1 lot					
		1.a	Install New Synchronizing Panel							
			1. Provide technician to conduct actual evaluation to the existing marine generator set model Baudouin 4w105S and conduct actual checking of installed automatic voltage regulator (AVR) if it is capable for synchronization if AVR is not capable provide 2 sets of AVR.							
			2. Recommend/Provide and install the suitable synchronizing panel system for the existing marine generator set.							
			3. After installation of synchronizing panel system conduct load testing and test to synchronize the output load of port and starboard marine generator set for the completion of works							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			and with satisfactory result.							
		1.b	Supply of Materials for Installation.							
M	VALVES & MACHINERY WORKS									
	Valve Works									
	1	Grind in place, suction valves seating, paint & repacking using Yard's materials.			1 lot					
	2	Remove & reinstall back valves			1 lot					
	3	Supply of New Bronze Valves for PSME and PSAE								
N	MISCELLANEOUS AND ADDITIONAL WORKS									
	1	Shell Expansion Plan								
			Provide Four (4) copies of Shell Expansion Plan indicating the work done in the vessel, w/ reference plan.		1 lot					
	2	Repair Booklet								
			Provide four (4) copies of repair booklet published history of repair don on the vessel to be turned-over to CG-10, F10, MRG, and		4 booklets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Vessel.							
	3	Electrical Megger Testing			1 lot					
	4	Sea Trial								
			Provide technical crew during sea trial incl. Service boat @ anchorage		1 trial					
	5	Lathe Machine and Controller assembly Works			1 lot					
		a)	Replace One (1) Unit Lathe Machine DC motor to AC Induction Motor.							
		b)	Install Lathe Machine AC motor with complete accessories, wiring connections, panel controller, forward and reverse switch at the Engine room.							
		c)	Fabricate Bed plate and Foundation.							
		d)	Re-align and Re-couple the Lathe Machine AC motor with belt driven mechanism.							
		e)	Conduct testing Lathe Machine AC Motor into satisfactory and completion of Work.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Repair Parts Requested:							
			a. One (1) Unit Lathe Machine AC Motor 5 HP, 220VAC, 60Hz, 3phase 600RPM							
			b. 1 Unit Control Panel							
			c. 1 Lot Marine Cable 2.5mm2							
			d. 1 Lot Support / Clamp / Tray / Bolts							
			e. 1 Lot Consumables / Welding Rod / Oxygen / Gas							
			f. 1 Unit forward and reverse switch							
			g. 1 Set drive belt.							
	6		General Recondition of Ship's Cargo Crane		1 lot					
		a)	1. Repair Recondition said Cargo Crane (Kato).							
		b)	2. Install new hand Brake Lever Assembly and cable.							
		c)	3. Install new Engine Shut Off Assembly with Cable.							
		d)	4. Install new brake pad lining on running Auxiliary and main cable and hand brake Lever Assembly with Cable.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	e)	5. Repair and Recondition the control valves Assembly on extend and retract valves.							
	f)	6. Replace defective hydraulic nozzle Assembly adaptor on brake Drum.							
	g)	7. Replace all Hydraulic hoses.							
	h)	8. After installing all parts make test to satisfactory upon completion of works.							
		Supply of Material							
		1. Provide brake pad auxiliary and main running Cable of Brake Drum and install new hand							
		Brake Lever Assembly with Cable.							
		2. Provide and Install new Engine solenoid Shut Off Assembly and Cable.							
		3. Provide and Install parts of Hydraulic Delivery Control valve in and out oil supply pressure.							
		4. Provide Hydraulic Nozzle Assembly Adaptor on Auxiliary and main runner Cable of the brake Drum.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5. Provide and Install hydraulic new Heavy-Duty Hoses.							
	7		Renew One (1) Unit Bench Grinder Assembly from DC to AC motor power output.		1 lot					
		a)	Replace One Unit Bench Grinder Assembly.							
		b)	Install AC Bench grinder assembly with complete accessories wiring connection panel controller and with grinding disc, wire brush installed both side of the grinder motor							
		c)	Conduct testing on Bench Grinder Assembly into satisfactory and completion of works.							
			Supply of Material		1 set					
			1. One (1) Unit of control Panel.							
			2. One (1) Lot of Marine cable 2.5mm2.							
			3. One Lot Support/ Clamp/ Tray/ Bolts.							
			4. One (1) Lot Consumables/ Welding Rod/ Oxygen/ Gas.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5. One (1) Unit Bench grinder Assembly with wire brush and grinding disc installed 1 HP 220							
			Volts AC 60 Hz 1 Phase 1750 Rpm.							
	8		Electric Motor with Exhaust Blower		1 lot					
		a)	Provide / Install one (1) set Mushroom type exhaust blower with 3Hp, 3 phase induction motor with complete accessories and controller, switch and Wire Cable for the engine room.							
		b)	Fabricate foundation for mushroom type exhaust blower and motor.							
		c)	Fabricate Air duct							
		d)	Test to satisfactory upon completion of works.							
			Supply of Material		1 set					
			1. One Mushroom type Exhaust Blower (3Hp, 3 Phase Induction motor) with complete accessories breaker, controller switch and cable.							
			2. One (1) Lot of Materials for fabrication of foundation for exhaust							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			blower.							
			3. One (1) Lot Consumable / Welder rod/ Oxygen/ Acetylene.							
	9		Main Engine and Auxiliary Engine (Re-checking calibration of standard RPM		1 lot					
		a)	Requesting the Supplier technician to check and calibrate the standard RPM of Main Engine and Auxiliary engine.							
		b)	To correct the voltage and RPM if match the standard RPM referring to the machinery manual.							
			Supply of Material		1 lot					
			1. Main and Auxiliary engine to test and calibrate.							
			2. Port Main Engine re – check the alignment between the shafting and transmission drive shaft.							
			3. Re – align the shafting to shafting of the main propulsion or adjust the main engine.							
			4. Shimming steel.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5. Jack for adjusting height.							
			6. Other tools to adjust the machinery.							
		c)	After alignment test to start the main engine make dock trail to observe if properly align.							
	10	P/S Anchor Winch			1 lot					
		a)	Pull out the whole unit from ship to shop for repair and recondition the anchor winch.							
		b)	Overhaul to determine the defects.							
		c)	Machining of shaft and bushing if needed.							
		d)	Replacement of defective parts, oil seal bushing bearing.							
		e)	Fabricate of other parts found defective.							
		f)	Replacement of Bolts and Nuts.							
		g)	After Assembly the component parts, deliver back to ship and install, filled oil and test to satisfactory upon completion of works.							
			Supply of Material							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			1. Bushing bearing.							
			2. Copper ring shaft spacer bushing.							
			3. Oil Seal.							
			4. Fabrication on parts found defective.							
			5. One (1) Lot materials needed to convert to hydraulic system.							
	11	Replace one (1) unit Motor for Boat Winch			1 lot					
		a)	Provide Labor and materials for installation of boat winch motor assembly.							
		b)	Pull out interferences prior for hot works and replace the damage materials if needed upon completion.							
		c)	Provide and install one (1) Unit Boat winch Motor.							
		d)	Install Three (3) phase AC Induction Motor of Boat Winch with complete accessories, wiring connection, panel controller and switch at boat deck							
		e)	Fabricate bed plate and foundation.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		f)	Re – Align and Re- couple the AC motor to winch.							
		g)	Conduct Testing on Boat winch Motor into satisfactory and completion of works.							
			Supply of Material		1 set					
			1. One (1) Unit boat winch Motor with brake system, 5 HP 220 Volt AC 60 Hz at least 1,150 RPM							
			2. One (1) Unit Control Panel, wirings and switch.							
			3. Materials for bed plate foundation.							
	12		Re –Activation of CO2 System		1 set					
		a)	1. Pull out existing co2 12 bottles and replace new 12 bottles with valve hose connection regulator and cable with hand lever to pull to open.							
		b)	2. Pull out existing piping's connection and replace new piping's connection from boat deck to engine room, cargo hold no. 2, cargo hold no. 1 and forward paint storage locker.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		c)	Conduct Hydro testing upon complete installing of piping's connection CO2.							
		d)	Repair the CO2 storage locker at boat deck.							
		e)	After complete of installing test dry run for completion of works by using air pressure.							
			Supply of Material		1 set					
			1. 12 bottles of CO2 with complete accessories hose regulator and cable with hand lever each distribution.							
			2. One (1) LOT piping's for pipe line.							
			3. One (1) LOT for repairing the co2 storage locker.							
			4. One (1) LOT for consumable welding rod, Oxygen acetylene.							
	13		Shoring Materials- Provide Cylinder type of Plugging Materials, cone type of Plugging materials, Wedging materials, Patching materials and shoring Materials		1 lot					
		a)	Provide 4x4x12" Cylinder type Plugging. (Materials 6							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			pcs)							
		b)	Provide 3x3x12" Cylinder type Plugging. (Materials 6 pcs)							
		c)	Provide 2x2x12" Cylinder type Plugging. (Materials 6 pcs)							
		d)	Provide 5x1x12" Cone type Plugging. (Materials 6 pcs)							
		e)	Provide 4x1x8" Cone type Plugging. (Materials 6 pcs)							
		f)	Provide 1/2x2x4" Cone type Plugging. (Materials 6 pcs)							
		g)	Provide 2x4x12" wedging materials. (Materials 6 pcs)							
		h)	Provide 2x4x6" wedging materials. (Materials 6 pcs)							
		i)	Provide 2x4x12" Patching materials. (Materials 6 pcs)							
		j)	Provide 4x4x10" Shoring materials. (Materials 6 pcs)							
		k)	Provide 4x4x8" Shoring materials. (Materials 6 pcs)							
		l)	Provide 4x4x6" Shoring materials. (Materials 6 pcs)							
	14	Install new Manual Hydraulic steering system.			1 lot					
		a)	Replace Defective steering							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			cable.							
		b)	Provide and Install new Manual Hydraulic steering.							
		c)	After installation calibrate and compensate to synchronize the rudder position to the rudder angle indicator at the bridge.							
			Supply of Material		1 set					
			1. One (1) Lot complete set of Manual Hydraulic power steering system assembly.							
			2. One (1) Lot stainless pipe for hydraulic pipelines approx. ½" diameter schedule 80							
			3. One (1) Lot consumable for the installation of manual hydraulic power steering / hydraulic hose / fittings.							
	15		Provide four (4) sets of inflatable life raft.							
		A.	Provide four (4) sets of inflatable life rafts. 2 sets of 25 pax capacity and 2 sets 16 pax capacity							
			2 sets 25 Capacity		2 sets					
			2 sets 16 Capacity		2 sets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Provide Labor and materials for the fabrication of four (4) sets new inflatable life raft racks.		1 lot						
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[Signature of the Authorized Rep.]

[in the capacity of] (Please indicate position of Authorized Rep.)]

Duly authorized to sign Bid for and on behalf of _____
(Please indicate name of company)

***BIDDERS SHALL NOT ALTER THIS FORM**

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

For Goods Offered From Within the Philippines
[shall be submitted with the Bid if bidder is offering goods from within the Philippines]

Kindly supply the required information in the spaces provided. Do not forget to indicate the “Country of Origin” of the goods offered. Prospective bidders have the option to indicate the appropriate amount, “0” or “Not Applicable (N/A)” for columns 6, 7 and 8. Any alteration to any of the terms and conditions contained in the document may cause your disqualification except if said alteration or revision is a result of a Supplemental/Bid Bulletin.

1	2	3	4	5	6	7	8	9
Item No.	Description	Country of origin	Quantity	Unit price exw per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)
A	DRYDOCKING & UNDOCKING WORKS							
1	Docking and Undocking		1 occasion					
2	Drydock lay days rental		100 days					
3	Mooring and Unmooring - arrival, docking, undock, depart		3 movement					
	a) Docking							
	b) Undocking							
	c) Departure							
4	Tug Assistance during towing, docking/undocking							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		a)	Assist vessel on Yard movement during beaching/docking.		1 /tug/hr.					
			Mobilization/demobilization during beaching/docking		2 /tug/hr.					
		b)	Assist vessel on Yard movement during unbeaching/undocking		1 /tug/hr.					
			Mobilization/demobilization during unbeaching/undocking		2 /tug/hr.					
	5	Shoreline Handlers - arrival, docking, undock, depart			3 movement					
		a)	Docking							
		b)	Undocking							
		c)	Departure							
	6	Dock Preparation and Block Arrangement								
			Hull Keel Block		50 /set					
			Hull Side Block Port & Starboard		12 /set					
			Removal of Blocks		13 /set					
			Relocation of Block		20 /set					
			Installation of Shoring Post		1 /set					
	7	Dock Master during movements docking & undock			2 movement					
B	GENERAL SERVICES									

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

1	Wharfage - to provide berth side for afloat		15 days					
2	Gangway for access during vessel stay at yard		1 /unit/time					
3	Shore line Power							
	a) Connect and disconnect; 220V, single phase; 380V, 3 phase		1 time					
	b) Electrical power consumption, : 45 kw/day 70 days		3150 /kwh					
4	Fire line Supply (SOP)							
	a) Connect and disconnect (Fwd. and Aft)		100 time					
	b) Daily maintained pressure supply		100 days					
5	Fresh Water Supply							
	a) Connect and disconnect		1 time					
	b) Fresh Water Supply,		5 /kwh					
6	Garbage Disposal (1 bin per day for 100 days)		30 cbm					
7	Gas Free Inspection, : 43 days 4 tank		172 /day					
8	Ventilation / Blower, : 7 days 2 units		140 /unit/day					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

9	Temporary Lighting, : 70 days 2 lights		140 /unit/day					
10	Security Guard - SOP		100 /man-day					
11	Safety Firewatch - SOP		100 /man-day					
12	Yard's Equipment Usage							
	a) Forklift usage,		30 /unit/hr.					
	b) Crane usage - up to 25T,		20 /unit/hr.					
	Crane Mobilization/Demobilization		2 /time					
	c) Scissor Lift for blasting and painting access		30 /unit/hr.					
	d) Service boat for vessel crew usage							
	1. Arrival		8 /unit/hr.					
	2. Docking		8 /unit/hr.					
	3. Undocking / Shipside		8 /unit/hr.					
	4. Departure		8 /unit/hr.					
	e) service boat for supply of water in anchorage near		8 /unit/hr.					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			yard							
		f)	Cherry Picker (Access for UTG, Blasting and Painting Works)		120 /unit/hr.					
	13		Scaffold / Staging for access							
		a)	External Staging (IWO propulsion works)		2500 /cbm					
		b)	Internal Staging		1 /cbm					
	13		Hull Scupper chutes		1 /piece					
	14		Various Testing							
		a)	Vacuum Testing on weldments on main deck & bottom plates.		50 /l-mtr					
	15		Provide temporary accommodation for vessel crew		4 /months					
		a)	provide temporary accommodation for vessel crew							
C	EXTERNAL HULL PRESERVATION									
	1	a)	Hull FW high pressure Jet washing from Keel to Topside,		1409 /sqm					
		b)	Hull FW low pressure Washdown prior second coat, Keel to Topside		1409 /sqm					
		c)	Hull Scraping from Keel to DLL		801 /sqm					
		d)	Hull Manual Chipping,		200 /sqm					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	2	Hull Grit / Stag Blasting on the following areas.							
		a)	Keel to DLL1221.41 sqm						
			Spot Blasting (SA 2.0) 30% area 366.4 sqm		366 /sqm				
			Sweep Blasting (SA 2.0) 70 % area 855 sqm		855 /sqm				
	3	Hull Painting (Yard supply paints & thinners)							
		a)	Keel to DLL =1221.41 sqm						
			One (1) Full coat Epoxy primer		1221 m ² /coat				
			Two (2) Full coat Anti-Corrosive		2443 m ² /coat				
			Two (2) Full coat Anti-Fouling		4886 m ² /coat				
			Yard supply paints & thinners for 5 coat systems		4886 m ² /coat				
		b)	Bottom Painting - 178.86sqm						
			One (1) Full coat Epoxy primer		179 m ² /coat				
			Yard supply paints & thinners for 4coat systems		3500 m ² /coat				
	4	Seachest box/grids							
		a)	Seachest box/grids (clean, blast, paint, refit in good order)		5 /grating				

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		b)	Blasting and painting of sea chest boxes		5 /chest					
	5		Hull Markings Repaint							
			Re-Paint with Yard's paint on hull markings							
		1	Draft Marks, Mid, Fwd., Aft, P/S		1 /set					
		2	Ship's Name, Fwd. P/S, Stern		1 /set					
		3	Port of Registry		1 /set					
		4	Plimsoll, P/S		1 /set					
		5	Ship's LOGO, P/S "COAST GUARD" allow 10sqm per side, Php 2,500/sqm		1 /set					
		6	Yard supply paints & thinners for markings/names/port of registry allow:		1 lot					
	6		Hull Zinc Anodes							
			Removing of wasted anodes and installation of new anodes (including rudder, and seachest box)							
		a)	Plain removal of anode		60 /anode					
		b)	Anode Installation		60 /anode					
		c)	Yard supply Zinc Anode@3kg Aluminum Anode		60 /anode					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		d)	Strap/Guard Installation		60 /anode					
		e)	Cover/Protection iwo painting		60 /pce					
		f)	Plain removal of anode inside tank		60 /pce					
		g)	Anode Installation inside tank		60 /pce					
D	STRUCTURAL WORKS									
	MAIN STRUCTURE WORKS									
	1	Ultrasonic Thickness Gauging - UTG (local in-house technician)								
		a)	Bottom & Side Shell Plate Gauging		300 /point					
		b)	In between frames from First (1st) strake to uppermost strake		200 /point					
		c)	Bulk head between tank no. 5 and Engine room bilge		200 /point					
		d)	P/S sea chest box		150 /point					
	2	Reweld Wasted Seams/ Butt / Build up - min of 1 mtr per pass			2 /l- mtr/pass					
		a)	Hammer test, inspect hull & marked suspected areas before dock		2 /l- mtr/pass					
		b)	Hull survey/inspection prior undocking		2 /l- mtr/pass					
	3	Hull Replating (External)								

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Hull external replating using Yards supply MS plates		1 lot					
			Mild Steel Plate (MSP) (Yards Supply plates) 10mm thick.		1 lot					
	4		Crop out and renew deteriorated shell plating and framing							
		A.	Renew/Re-plate the center keel use MS plate size 12.5 mm thick on center keel from FWD to Astern							
			7 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		500 /kgs					
			a) Blasting of new plates and paint with primer paint 1 coat							
			New MS Plates		156 /sqm					
			7 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		156 m ² /coat					
			Yard supply paints & thinners for 1 coat system							
			b) Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			7 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		500 /kgs					
		B.	Make re-plating on bulk head Coffe Dam between tank #4 (fresh water tank) to tank #5 (fuel tank), using MS plate 11mm thick w/ full weld side to side, lower and upper of the bulk head and make hydrotest after re-plating							
			5 sheets- 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		7110 /kgs					
			a) Blasting of new plates and paints with primer paint 1 coat							
			New MS Plates							
			5 sheets- 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		111 /sqm					
			Yard supply paints & thinners for 1 coat system		111 m ² /coat					
			b) Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			weldments							
			5 sheets- 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		79 /l-mtr					
			Supply of 12 sheets Marine Grade MS plates - 12.5 mm x 6 ft. x 20 ft.							
			12 sheets - 125 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		12 /sheets					
	5	Re - plating Bulkhead between Fore Peak Tank and Cargo Hold #1								
		a)	Re-plate Bulkhead between fore peak tank and cargo hold #1							
			5 sheets - 12.5 mm x 1828.711 x 6095.7 mmL Marine Grade MS Plate		3000 /kgs					
		b)	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			5 sheets - 12.5 mm x 1828.711 x 6095.7 mmL Marine Grade MS Plate		111 /sqm					
			Yard supply paint & thinners for 1 coat system		111 m ² /coat					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		c)	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			5 sheets - 12.5 mm x 1828.711 x 6095.7 mmL Marine Grade MS Plate		79 /l-mtr					
		d)	Supply of 5 sheets Marine Grade MS plates - 6 mm x 4ft. X 8 ft.							
			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		5 /sheets					
	6	Deteriorated boat deck plating from the pilot house to boat deck cabin.								
		A.	Crop out / re-plate the entire boat deck plating.							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		11262 /kgs					
		B.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		143 /l-mtr					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates		201 /sqm					
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		201 m ² /coat					
			Yard supply paints & thinners for 1 coat system							
		D.	Supply of materials for boat deck plating from the pilot house to boat deck cabin.							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		10 sheets					
	7		Deteriorated Main deck plating from forward to fantail							
		A.	Crop Out / Re-Plate the Entire Boat Deck Plating from forward to fantail							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		11262 /kgs					
		B.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		143 /l-mtr					
		C.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		201 /sqm					
			Yard supply paints & thinners for 1 coat system		201 m ² /coat					
		D.	Supply of materials for Entire Boat Deck Plating from forward to fantail							
			9 sheets 11 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		10 sheets					
	8	Replating of Entire Monkey Island and P/S Gun Mount plating			1 lot					
		A.	Provide labor and materials needed for the replating of entire monkey island and gun mount side plating.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Remove all interferences at the bridge, all ceiling, walling, electrical wirings, lightings and Electrical outlets.							
		C.	Crop out the entire monkey island deck plating and gun mount side plating.							
		D.	Replate using 10mm-T marine grade MS plate.							
			Blasting the new MS plate and painting with epoxy primer paint 1 coat.							
			Approx. 4 sheets 6ft x 20ft x 10mm-T Marine grade MS plate (Yard supply paint)							
		E.	Remove and replace all deteriorated framings using angle bar.							
			Approx. 20pcs 3in x 4in x 20ft							
		F.	After the replating conduct testing on weldments such as leak testing, vacuum test and kerosene test.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		G.	After the replating and leak testing install back the new PVC ceiling and walling panels with non-asbestos fire-resistant heat proofing insulation, electrical wirings, lightings and electrical outlets.						
		H.	After the installation of electrical wirings, lightings and electrical outlets conduct testing for the completion of works with satisfactory results.						
SECONDARY STRUCTURES									
	9	Replace Deteriorated Staircases And Hand Rails							
			6 length 1 in-D 6096 mm-L GI Pipe		37 /lmtrs				
			7 length 6 mm-t 200 mm-H 50+50 mm-F 6096 mm-L-GI Channel		904 /kgs				
			4 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		1 lot				
			A. Supply of materials for checkered plates false flooring works at Rudder Room						
			6 length 1 in-D 6096 mm-L		6 lengths				

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			GI Pipe							
			7 length 6 mm-t 200 mm-H 50+50 mm-F 6096 mm-L- GI Channel		7 lengths					
			4 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		4 sheets					
	10	Deteriorated Ship's Cargo Crane Engine Canopy			1 lot					
		A.	Provide Labor and materials for the fabrication and installation of Ship's Cargo Crane Engine Canopy.							
		B.	Remove and replace the existing deteriorated Ship's Cargo Crane Engine Canopy.							
		C.	Apply anti-rust primer and painted finish							
	11	Installation of four (4) sets of inflatable life raft stands.			4 sets					
		A.	Provide four (4) sets of inflatable life rafts. 2 sets of 25 pax capacity and 2 sets 16 pax capacity							
			2 Set - 25 Capacity							
			2 Set - 16 capacity							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Provide labor and materials for the procurement and installation of four (4) sets new inflatable life raft racks.							
		C.	Install a life raft cradle at port and starboard boat deck (provide necessary measurements)							
	12	Mobile Platform Ladder			1 lot					
		A.	Fabricate steel mobile platform ladder with hand rails support.							
			Ladder - 1.00 m (height) Step - 0.22cm (length)							
			Ladder - 1.00 m (width) Rise - .20cm (height)							
		B.	Install four (4) pcs durable ladder wheels with safety lock.							
		C.	Apply anti-rust primer with painted finish to newly fabricated mobile platform ladder.							
	13	Deteriorated Railings at Forecastle								
		A	Repair/ Renew Railings at Forecastle Area		1 lot					
			Supply of Material							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			a. One (1) Lot GI Pipe 2 ½ by 20 schedule 80 – 8 pcs for stanchion post		6 lengths					
			b. One (1) Lot GI Pipe 1 by 20 schedule 80 – 8 pcs for railings		6 lengths					
	14		Deteriorated stanchion post for railings chain.		1 lot					
		A.	Modify and install new stanchion post for chain							
		B.	After installing apply paint with epoxy primer.							
			Supply of Material							
			One (1) Lot super GI pipe size approximate 2" x 20' schedule 80 for stanchion post chain railings at main deck		6 lengths					
	MAIN DECK WORKS									
	15		Installation of 7pcs new closed chocks							
			A. Dismantling and installation of new closed chock		5 pcs					
			B. Supply of materials for close chock repair							
			1 length 1.5 in-D 6096 mm-L Round Bar		2 length					
			1 sheet 10 mm-t 1219.141 mm-W 6095.7 mm-L		1 sheet					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Marine Grade MS Plate							
	16		Deteriorated hatch cover handle							
		A.	Replace all deteriorated hatch cover handle with stainless steel flat bars 1"x5mm, M17 stainless							
			bolts with washer and nuts.							
			36 sets 5 mm-t 25 mm-W 300 mm-L Handle (Flat bar)		100 /kgs					
			36 sets M 17 Bolts, Nuts and Washers (Stainless)		36 /sets					
		B.	Supply of materials for Radar Mast Works and Supply of Navigational Lights							
			2 length 5 mm-t 25 mm-W 300 mm-W Handle (Flat bar)		2 length					
			36 sets M 17 Bolts, Nuts and Washers (Stainless)		36 sheet					
	17		Repair / Recondition of all port holes							
		A.	Pull out, Repair / Recondition of all 38 pcs of Port holes		38 pcs					
		B.	Replace old glass and gaskets		6 pcs					
		C.	Supply of materials for porthole repair works							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			38 sets bronze bolts / wing nut / pins / glass frames		1 lot					
	18		Forward Crew's head (Additional toilet bowl)		1 lot					
		A.	Install One (1) additional bowl at forward deck crew's accommodation							
		B.	Install modified division for two (2) toilet bowl with half doors to cover person inside							
		C.	Replace existing toilet bowl in way of modifying forward crew's head.							
		D.	Supply of Materials		1 lot					
			1. One (1) Lot steel plate for modified division							
			2. One (1) Lot for two (2) toilet bowl							
			3. One (1) Lot materials for installing the toilet bowl							
	19		Replating of deteriorated bulwark and gunwale.		1 lot					
		A.	Provide labor and materials for the replating of deteriorated bulwark and main deck gunwale.							
		B.	Crop out and replate the deteriorated plate of bulwark and main deck gunwale.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Replate the bulwark and main deck gun wale using marine grade MS plate.							
			Approx. 4sheets 6ft x 20ft x 10mm-T Marine grade MS Plate							
			Blasting of new MS plate and painting with epoxy primer paint 1 coat.							
			Yard supply paint							
		D.	Replace all deteriorated frames using angle bar.							
			Approx. 2pcs 3in x 3in x 20ft							
		E.	Make new freeing port using round bar.							
			Approx. 2pcs 17mm diameter							
		F.	Renew all scuppers and drain pipes.							
		G.	Conduct testing on all weldments for the completion of works with satisfactory result.							
	20	Replating of Forecastle			1 lot					
		A.	Provide labor and materials needed for the replating of Forecastle.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Crop out all deteriorated plates and framings using 11mm-T marine grade MS plate and weld side to side.							
		C.	Remove all interferences including ceiling and electrical wirings at FWD upper accommodation prior to crop out the deteriorated plates.							
		D.	Blasting of new plate and painting of epoxy primer 1 coat.							
			Approx. 8 sheets 6ft x 12ft x 11mm-T Marine grade MS plate.							
		E.	Remove and replace all deteriorated frames using 3in x 4in 20ft angle bar.							
		F.	After replating conduct leak testing vacuum test and kerosene test before installing back the electrical wiring, non-asbestos fire-resistant heat proof insulation and FWD accommodation PVC ceiling and walling panels.							
	ACCOMMODATION WORKS									
	21	Accommodation Head								

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	A	Remove and replace deteriorated sewage tank and install new for Aft Accommodation Head							
		(approximate size of 100cm x 60 cm x 100 cm (LxWxH))							
		2 sheets - 6 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate		482 /kgs					
		a) Conduct leak test, vacuum testing and kerosene test							
		Vacuum Testing on weldments							
		2 sheets - 6 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate		15 /l-mtr					
		b) Supply of 2 sheets Marine Grade Stainless Plate -6mm x 4ft. X 8ft.							
		2 sheets - 6 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate		2 /sheets					
22		Modification of Existing Galley Arrangement		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Provide labor and materials for the modification of existing galley room arrangement.							
		B.	Provide and install stainless counter top, cabinets and overhead lockers.							
		C.	Provide and install galley room floor tiles							
		D.	Provide and install 2 units 8 cu ft chest freezer.							
		E.	Supply of Materials							
			1. Stainless Counter Top		1 set					
			2. Cabinets and Overhead Lockers		1 set					
			3. Floor Tiles		100 sets					
			4. 8 cu. ft. Chest Freezer (2 units)		2 units					
	23		Modify the forward upper and lower deck accommodation bunks.		1 lot					
		A.	Provide Labor and materials for the modification of forward upper and lower deck accommodation							
		B.	Fabricate and install bunks at the forward upper and lower deck							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			accommodation.							
		C.	Supply of Materials for Upper and Lower Deck Accom Bunks Repair							
			100 sets 2 in-t 3 in-W 8 ft-L Good Lumber							
			30 sets 3/4 in-t 4 in-W 8 ft-L Marine Plywood							
			95 sets 1/2 in-t 4 in-W 8 ft-L Marine Plywood							
			Nails / paint / screw / Sanding paper / brush							
	24	Modification of AFT accommodation head			1 lot					
		A.	Dismantling and replace of toilet bowls, drainage pipe, floor tiles, faucet and stainless lavatory and install new materials.							
		B.	Install new stainless lavatory with faucet							
		C.	Install new pipelines for shower.							
		D.	Install new pipeline for sea water flushing.							
		E.	Supply of Materials used for Accommodation Head Repair							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			2 Units Toilet Bowls		2 Units					
			1 Unit stainless steel lavatory with faucet		1 Unit					
			3 Length 4-in-D 6096 mm-L GI pipe schedule 80		3 Lengths					
			3 Length 3-in-D 6096 mm-L GI pipe schedule 80		3 Lengths					
			3 Length 1.5 in-D 6096 mm-L GI pipe schedule 80		3 Lengths					
			3 Length 0.5 in-D 6096 mm-L GI pipe schedule 80		3 Lengths					
			100 pcs 300 mm-W 300 mm-L Floor Tiles		100 pcs					
	25	Fitting of Lockers at FWD and AFT Accommodation area			1 lot					
		A.	Pull out Lockers at FWD and AFT accommodation area.							
		B.	Fitting of 34 sets of Lockers at FWD and AFT accommodation area.							
		C.	Supply of Materials used for Locker Works							
			50 pcs 3/4 in-t 4 on-W 8 ft-L Marine Plywood		50 pcs					
			Nails/paint/screw/Sanding paper/brush		1 lot					
	26	Replacement of old floor tiles at Commanding officer and Chief Engineer head			1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Dismantle and pull out old floor and wall tiles							
		B.	Replacement of floor and wall tiles at CO and Chef Engineer head							
		C.	Supply of materials							
			100 pcs 200 mm-W 200 mm-L Floor Tiles		100 pcs					
			100 pcs 200 mm-W 200 mm-L Wall Tiles		100 pcs					
	27	Modification of Engineering crew quarters and re-plating the tank top at the Launch engineer cabin			1 lot					
		A.	Provide labor and materials for the modification of aft accommodation (engineering crew quarters)							
		B.	Re-plate aft peak tank top at the launch engineer cabin							
		C.	Install new bunk for the launch engineer							
		D.	Fabricate and install bunks at the engineering crew quarters							
		E.	Supply of Materials							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			40 sets 2 in-t 3 in-W 8 ft-L Good Lumber		40 sets					
			10 pcs 3/4 in-t 4-in-W 8 ft-L Marine Plywood		10 pcs					
			10 sets 1/2 in-t 4-in-W 8 ft-L L Marine Plywood		10 sets					
			2 sheets 10 mm-t 1828.71 mm-W 6095.7 mm- Lmaine Grade MS Plate		2 sheets					
	28	Modify and Retails of flooring at mid -ship head			1 lot					
		A.	Modify Mid-ship head install new toilet bowl and Replace new tiles							
		B.	Supply of materials							
			100 pcs 200 mm-W 200 mm-L Floor Tiles		100 pcs					
			100 pcs 200 mm-W 200 mm-L Wall Tiles		100 pcs					
			1 Unit Toilet Bowl		1 Unit					
	29	Modification of officer's head			1 lot					
		A.	Pull out defective toilet bow and lavatory							
		B.	Install new toilet bowl and lavatory							
		C.	Install faucet and new medicine cabinet with minor							
		D.	Supply of Materials							
			1 Unit Toilet Bowl		1 Unit					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			1 Unit Lavatory Bowl		1 Unit					
			1 Lot Medicine cabinet with minor		1 lot					
	30		Defective ceiling, walling and flooring in Officer's Cabin		1 lot					
		A.	Repair ceiling, walling, flooring tiles and doors.							
		B.	Install new vinyl flooring tiles							
		C.	Repair deteriorate doors, walling and ceiling							
		D.	Supply of Materials							
			100 pcs 1/4 in-t 4 in-W 8 ft-L Marine Plywood (Ceiling / Flooring)		100 pcs					
			2000 pcs 300 mm-W 300 mm-L Vinyl Floor Tiles		2000 pcs					
			100 sets 2 in-t 3 in-W 8 ft-L Good Lumber		100 sets					
	31		Additional billeting for officer's cabin		1 lot					
		A.	Convert the existing pilot house be modified and divided into two (2) cabin if the retrofitting of the new bridge is approved							
		B.	Install modified head for each cabin							
		C.	Install air-conditioning unit each for cabin							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D.	Install new wiring connections for outlet, switches and for lighting system							
		E.	Supply of Materials							
			1. One (1) Lot air-conditioning unit each for cabin (0.6 hp window type)		2 units					
			2. One (1) Lot Materials for retrofitting additional two (2) officer's cabin		1 lot					
			3. One (1) Lot Materials for the installation of head each cabin							
			4. One (1) Lot Nails							
			5. One (1) Lot Marine cables, breakers, outlets and switches							
	32		Defective coamings, Rubber Gasket, Dog lock hinges		1 lot					
			1. Recondition water tight steel doors and will fitted							
			2. Free-up, Stuck-up Dog locks and hinges							
			3. Replace stuck-up Dog Locks and hinges Bushing							
			4. Replace water tight gasket							
	33		Dilapidated Fantail Lavatory		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Remove and Replace the dilapidated fantail lavatory							
		B.	Provide all the materials needed for the repair of the said lavatory							
	34	Replating of entire tank top of Aft Peak Tank including engineering quarters head and launch engineer cabin.			1 lot					
		A.	Provide labor and materials needed for the replating of the entire tank top of Aft peak tank including engineering quarters head and launch engineer cabin.							
		B.	Crop out and replate the entire tank top of Aft peak tank using 11mm-T Marine grade MS plate and weld side to side.							
		C.	Replace all deteriorated angular frames.							
		D.	Blasting of new MS plates and paint with primer paint 1 coat. Yard supply paint. Approx. 4 sheets 20ftx6ftx11mm-T Marine grade MS plate							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		E.	Conduct leak test, vacuum testing and kerosene test.							
	35		Modification of CO and EX-O Cabin		1 lot					
		a)	Repair and/or replace ceiling, walling, flooring tiles and doors.							
		b)	Install new vinyl flooring tiles.							
		c)	Replace deteriorate doors, walling and ceiling							
		d)	Install PVC film panels							
		e)	Install non-asbestos fire resistance materials, heat proofing insulation at walls and ceilings							
		f)	Increase Height Clearance by 2.5m and widening of CO and New Exo cabin by 1 frame.							
		g)	Modification of CO cabin and female cabin area into two Separate Cabin with own Toilet and Bath							
		h)	Pull-out and replace defective toilet bowl and lavatory							
		i)	Install faucet and medicine cabinet with mirror							
		j)	Installation of bidet							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		k)	Dismantle and pull-out old floor and wall tiles							
		l)	Re-piping of floor drain 2-inch and toilet bowl 5-inch							
	36	Modification of Engineering's Accommodation Head			1 lot					
		A.	Dismantling and replacement of toilet bowls, drainage pipe, floor tiles, faucet and stainless lavatory and install new materials.							
		B.	Install new stainless lavatory with faucet							
		C.	Install new pipelines for shower.							
		D.	Install new pipelines for sea water flushing.							
	BRIDGE AND NAVIGATIONAL WORKS									
	37	Modification of existing Radar mast base on the standard height of mast requirements with complete navigational lights								
		A.	Modify existing radar mast base on the standard height of mast requirements with complete navigational lights and pulleys on P/S flag and pennants							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			1 set 4 in-D 20 ft-L Radar Mast Body		6 /mtrs					
			1 sheet 6 mm-t 1219.141 mm-W 6095.7 mm-L Marine Grade MS Plate		350 /kgs					
		B.	Installation of complete navigational lights and pulleys on P/S flag and pennants		1 lot					
		C.	Supply of materials for Radar Mast Works and Supply of Navigational Lights							
			1 length 4 in-D 20 ft-L Radar Mast Body		1 length					
			1 sheet 6 mm-t 1219.141 mm-W 6095.7 mm-L Marine Grade MS Plate		1 sheet					
			1 lot marine cable, circuit breakers, panel board and navigational lights.		1 lot					
		D.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			1 sheet 6 mm-t 1219.141 mm-W 6095.7 mm-L Marine Grade MS Plate		15 /sqm					
			1 length 101.6 mm-D 6.095703 mm-L Radar Mast Body		2 /sqm					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Yard supply paints & thinners for 1 coat system		15 m ² /coat					
	38		Retrofitting of new bridge/pilot house with radio room, chart room and admin office		1 lot					
		A.	Retrofiring of bridge for the proper arrangement of navigational equipment, bridge console and engine control dashboard with chart room radio room, admin office.							
		B.	Supply of materials		1 lot					
			1. Provide 1 Lot steel plate							
			2. Provide 1 Lot Angular bars							
			3. Provide 1 Lot Plywood and screws							
			4. Provide 1 Lot worries bedded for installing of outlets, lights and navigational equipment.							
	39		Deteriorated and Holed Cargo Hatch coaming Side Plating of Cargo Hold Nr. 1 and 2		1 lot					
		A.	Provide labor and materials needed for the replating of cargo hold 1 and 2 coaming side plating.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Crop-out/ replate the Cargo hatch coaming side plating.							
		C.	Install natural ventilation for cargo hold number 1 and 2 with water tight cover in case of bad Weather,							
		D.	Install 4 natural ventilation each cargo hold, 2 ventilations located at the port and starboard of cargo hold nr 1 near the access door of FWD accommodation and the 2 is located at the sounding area of fresh water tank nr 2.							
		E.	Install 4 natural ventilation each cargo hold, 2 ventilations located at the fuel sounding area of FO tank nr 3 of cargo hold or 2 and the 2 is located near the mounting area of outboard motor.							
		F.	Remove and replace framing and stiffeners.							
		G.	Install cargo hold cover lock for securing of cargo hold 1 and 2.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		H.	Install marine grade folding pad eye around the coaming approx. 5 folding pad eye each side of the coaming for both cargo hold 1 and 2.							
		I.	Remove and replace cargo hold cover beam and beam holder at the coaming.							
	40	Installation of New Search Light and Aldis Lamp			1 lot					
		A.	Installation of Search Lights and Aldis Lamp							
		B.	Installation of 2 search light port and std with appropriate luminescence estimated beam services distance 4miles-7miles for search and rescue with manual handle controller at Bridge							
		C.	Provide Portable Aldis Lamp with appropriate power supply connection at port and starboard							
	41	Installation of new echo sounder.			1 lot					
		A.	Provide labor and materials needed for the installation of echo sounder same as existing							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			unit.							
		B.	Install new set of echo sounder at the bridge.							
			Conduct testing of the echo sounder for the completion of works and with satisfactory result.							
	42		Maintenance of existing fish finder.		1 lot					
			Provide labor and materials for the maintenance of existing fish finder.							
	43		Install new public address system.		1 lot					
		A.	Provide labor and material needed for the installation of new public address sound system.							
		B.	Provide and install new set of public address sound system with speakers at the bridge, midship, officer's gantry, wardroom, crews mess, engineering quarters, FWD upper and lower accommodation, motor control room, cargo hold number 1 and 2.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	After installation conduct testing for the completion of works and with satisfactory result.							
		ENGINE ROOM AND OTHER WORKS								
	44		Remove and replace deteriorated angular frames and fitting of checkered plates false floor							
		A.	Provide labor and material for the installation of lacking engine room false flooring							
		B.	Remove and replace deteriorated frames and checkered plate false flooring							
		C.	Install angular frames and L-Bars as a support / base of engine room false floor							
		D.	Install new checkered plate on deteriorated and lacking of false flooring							
			10 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		1 lot					
			20 pcs 6 mm-t 50+50 mm-F/W 6195.6 mm-L Angle Bar		124 /lm					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			1 sheet 6 mm-t 1219.141 mm-W 2438.3 mm-L Marine Grade MS Plate		252 /kgs					
			100 sets M 16 25 mm-L Bolts and Nuts with Lock Washer- Stainless		100 /sets					
		E.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			1 sheet 6 mm-t 1219.141 mm-W 2438.3 mm-L Marine Grade MS Plate		6 /sqm					
			20 pcs 6 mm-t 50+50 mm-F/W 6195.6 mm-L Angle Bar		25 /sqm					
			Yard supply paints & thinners for 1 coat system		31 m ² /coat					
		F.	Supply of materials for checkered plates false flooring works at Engine Room							
			10 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		10 sheets					
			20 pcs 6 mm-t 50+50 mm-F/W 6195.6 mm-L Angle Bar		20 pcs					
			1 sheet 6 mm-t 1219.141 mm-W 2438.3 mm-L		1 sheets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Marine Grade MS Plate							
			100 sets M 16 25 mm-L Bolts and Nuts with Lock Washer- Stainless		100 sets					
	45	Remove and Replace Deteriorated Checkered at Aft Rudder Room and Locker Area								
		A.	Pull out existing checkered plates at aft rudder room, locker and install new checkered plates							
			6 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		1 lot					
			7 pcs 6 mm-t 50+50 mm-F/W 6195.6 MM-L Angle Bar		43 /lm					
		B.	Supply of materials for checkered plates false flooring works at Rudder Room							
			6 sheets 6 mm-t 1219.141 mm-W 2438.3 mm-L Stainless Checkered Plates		6 sheets					
			7 pcs 6 mm-t 50+50 mm-F/W 6195.6 MM-L Angle Bar		7 pcs					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			7 pcs 6 mm-t 50+50 mm-F/W 6195.6 MM-L Angle Bar		9 /sqm					
			Yard supply paints & thinners for 1 coat system		9 m ² /coat					
	46		Deteriorated and holed smoke stack panel of the exhaust of engine room machineries							
		A.	Crop-out/ repair/ re-plate deteriorated smokestack Panel Casing and framing plating							
			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		3640 /kgs					
		B.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		63 /l-mtr					
		C.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		89 /sqm					
			Yard supply paints & thinners for 1 coat system		89 m ² /coat					
		D.	Supply of materials for smoke stack plating							
			4 sheets 8 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		4 sheets					
	47	Install new stern tube stuffing box and replate the bulkhead between engine room bilge and Aft Peak tank where p/s stern tube stuffing box are located.								
		A.	Crop out deteriorated bulkhead and replate in preparation to the installation of p/s stern tube stuffing box.							
			5 sheets 12.5 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		7110 /kgs					
			20 pcs 8 mm-t 75+75 mm-F/W 6195.6 mm-L Angle Bar		124 /lm					
		B.	Install stern tube stuffing box align to the main propulsion drive shaft		2 sets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Supply of materials for bulkhead replating and supply of stuffing box							
			5 sheets 12.5 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		5 sheets					
			2 set Stuffing Box (Brand New)		2 sheets					
			20 pcs 8 mm-t 75+75 mm-F/W 6195.6 mm-L Angle Bar		20 pcs					
	48		Install heat proofing insulation at FWD upper and lower accommodation, engine room bulkhead, smoke stack, engine room overhead, engine crew's accommodation.		600 sqm					
	49		Replace P/S Engine Room Access Door.		1 lot					
		A.	Provide labor and materials needed for the replacement of Port and Starboard engine room access door.							
		B.	Remove existing wooden access door and replace it with aluminum doors.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		C.	Make and install new aluminum doors for port and starboard engine room access with heat and sound proofing insulation to reduce the noise and heat during underway.							
		D.	Install marine grade glass on both doors for seeing the engine room while the door is closed during underway.							
		E.	Install door knobs and heavy-duty hinges on both aluminum doors.							
		F.	Remove and replace the existing wooden door jambs and replace it with aluminum door jambs on both port and starboard engine room access door.							
	TANK STRUCTURAL WORKS									
	50		Renew / Replate the cofferdam between fuel tank #3 and fresh water tank #4							
		a)	Renew re-plate the copper dam between fuel tank #3 and fresh water #4 using 12.55 mm steel plate							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		7110 /kgs					
		b)	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		111 /sqm					
			Yard supply paints & thinner for 1 coat system		111 m ² /coat					
		c)	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			5 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		79 /l-mtr					
		d)	Supply of 5 sheets Marine Grade MS plates - 6 mm x 4 ft. x 8 ft.							
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		5 /sheets					
	51		Fabricate additional cofferdam fresh water tank #2 and fuel							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		tank #3							
		A.	Make Additional cofferdam between fresh water tank #2 and fuel #3 using 12.5mm steel plate						
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		5907 /kgs				
		B.	Blasting of new plates and paint with primer paint 1 coat.						
			New MS Plates						
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		67 /sqm				
			Yard supply paints & thinners for 1 coat system		67 m ² /coat				
		C.	Conduct leak test, vacuum testing and kerosene test						
			Vacuum Testing on weldments						
			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		48 /l-mtr				
			D. Supply of 5 sheets Marine Grade MS plates - 6mm x 4ft. X 8ft.						

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			3 sheets - 12.5 mm x 1828.711 mm x 6095.7 mmL Marine Grade MS Plate		3 /sheets					
	52		Deteriorated and Holed Plating of Cargo Hold Nr 1 Which Under P/S Freshwater Tank Nr 2							
		A.	Crop-out/ repair/ re-plate the in-tire top deck plating of the Cargo hold nr 1 (approx. 200 sq. meters)							
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate		7963 /kgs					
		B.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate		111 /l-mtr					
		C.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate		156 /sqm					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Yard supply paints & thinners for 1 coat system		156 m ² /coat					
		D.	Supply of materials for Cargo hold No.1 plating							
			7 sheets 10 mm-t 1828.711mm-W 6095.7 mm-L Marine Grade MS Plate		9 sheets					
	53		Deteriorated and dented top plating of Cargo hold Nr 2, which is below of P/S FO Tank Nr 3							
		A.	Crop-out / repair/ re-plate the in-tire deteriorated top plating of the cargo hold nr 2							
		B.	Crop-out/ repair/ re-plate the in-tire top deck plating of the Cargo hold nr 1 (approx. 200 sq. meters)							
			3 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		3413 /kgs					
		C.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			3 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS		48 /l-mtr					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Plate							
		D.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			3 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		67 /sqm					
			Yard supply paints & thinners for 1 coat system		67 m ² /coat					
		E.	Supply of materials for Cargo hold No.2 plating							
			3 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		3 sheets					
	54	Deteriorated and Holed Cargo Hatch Side Plating of Cargo Hold Nr 1 And 2 And Main Deck Plating Passage								
		A.	Crop-out/ repair/ re-plating of Cargo hatch coaming side plating and main deck passage of Cargo Nr 1 and 2							
		B.	Crop-out/ repair/ re-plate deteriorated smokestack Panel Casing and framing plating							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			8 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		9101 /kgs					
		C.	Conduct leak test, vacuum testing and kerosene test							
			Vacuum Testing on weldments							
			8 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		127 /l-mtr					
		D.	Blasting of new plates and paint with primer paint 1 coat.							
			New MS Plates							
			8 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		178 /sqm					
			Yard supply paints & thinners for 1 coat system		178 m ² /coat					
		E.	Supply of materials for Cargo hold No. 1 and 2 Main deck plating							
			8 sheets 10 mm-t 1828.711 mm-W 6095.7 mm-L Marine Grade MS Plate		8 sheets					
	55		Replating of bulkhead tank number 5 and engine room		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		main bilge including P/S Sea Chest Box.							
		A. Provide labor and materials needed for the replating of bulkhead between tank number 5 and engine room main bilge including port and starboard sea chest box.							
		B. Crop out and replate the bulkhead between tank number 5 and engine room main bilge including port and starboard sea chest box.							
		C. Remove and replate the bulkhead and replace all deteriorated frames and install new plates and frame.							
		D. Remove the existing sea chest box and make new port and starboard sea chest box with division for the suction of port and starboard main and auxiliary engine.							
		E. Blasting of new plate and painting with epoxy primer 1 coat.							
		Approx. 4 sheets 6ft x 20ft x 12.5mm-T Marine grade							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			MS Plate							
		F.	Conduct leak test, vacuum test and kerosene test for the completion of works with satisfactory results.							
	56	Replating of Bulkhead Between Aft Peak Tank and Rudder Room			1 lot					
		A.	Provide labor and materials for the replating of bulkhead between Aft peak tank and rudder room.							
		B.	Crop out the deteriorated bulkhead plating and framing.							
		C.	Replate bulkhead using 12.5mm-T Marine grade MS plate and weld from side to side.							
		D.	Blasting and painting of MS plate primer paint 1 coat.							
			Yard supply paint							
			Approx. 1 sheet 20ft x 6ft x 12.5mm-T Marine grade MS Plate							
		E.	Conduct leak test, vacuum test and kerosene test for the completion of works							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			with satisfactory result.							
			FIREFIGHTING AND LIFESAVING							
	57		Install cradle for rubber boat at P/S deck area							
			10 length 4 mm 6 mm 100 mm 6 mm Hbeam		2360 /kgs					
			A. Supply of materials for rubber boat cradle							
			10 length 4 mm 6 mm 100 mm 6 mm Hbeam		10 lengths					
	58		Install 30pcs A60 Standard Fireproof Doors and Replace all wooden doors.		30 pcs					
		A.	Pull-out all wooden doors at accommodation areas, Officer's country, heads and wardroom.							
		B.	Install 30 pcs fire proof doors with appropriate door knob, hinges and heavy-duty hydraulic heads door closer surface mounted with stand arm at accommodation areas, Officer's country, heads and wardroom.							
	59		Installation of General Alarm System		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Provide labor and materials for the installation of new general sound alarm at bridge.							
		B.	Install New set of general alarm system with bell at the bridge, FWD accommodation, midship, officer's gantry, crew's mess, engineering quarters, motor control room, cargo hold number 1 and 2.							
		C.	After installation conduct testing for the completion of works with satisfactory result.							
	SEWAGE TANK AND SEWAGE TREATMENT									
	60	Replace and Install New Sewage Tank with Vertical Centrifugal Pump and Motor for Aft			1 lot					
	61	Remove and replace old sewage pipe lines.								
			8 length. 4 in-D 6096 mmL		49 /lmtrs					
	62	Installation of flanges, stainless bolts and nuts with lock washer to the newly fabricated system								
			16 sets 4 in-D Flange-Stainless		16 /sets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			64 sets M 16 40mmL Bolts and Nuts with Lock Washer-Stainless		64 /sets					
	63		Fabricate stainless steel foundation for the new sewage tank (approximate size of 25mm-t x 4 x 8')							
			1 sheet - 12.5 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate		502 /kgs					
	64		Installation of heavy-duty sewage vertical centrifugal pump and motor with floater switch and complete sets of accessories (Panel controller, marine wiring cables and cable tray)							
			1 set -Heavy duty sewage vertical centrifugal pump and motor with floater switch		1 lot					
			1 set -Panel controller							
			1 set -marine wiring cables and cable tray							
		A.	Supply of materials for new sewage tank fabrication							
			2 length 4 in-D 6096 mm-L GI Pipe- Sch.80		2 /lengths					
			10 sets 4 in-D Flange-Stainless		10 /sets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			40 sets M 16 40 mm-L Bolts and Nuts with Lock Water-Stainless		40 /sets					
			1 sheet - 12 mm x 1219.141 mm x 2438.3 mmL Marine Grade Stainless Plate		1 /sheets					
			1 set -Heavy duty sewage vertical centrifugal pump and motor with floater switch		1 set					
			1 set -Panel controller		1 set					
			1 set -marine wiring cables and cable tray		1 set					
	65	Install New Sewage Treatment Plant			1 lot					
		A.	Provide and install One (1) set of sewage treatment plant system.							
		B.	Provide Labor and materials for the fabrication and installation of sewage treatment plant at the engine room.							
		C.	Fabricate bed plate foundation for the mounting of the new sewage treatment plant.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D.	Install bypass pipe using 100mm pipe diameter with 100mm gate valve direct to over board In case the sewage treatment plant malfunction.							
		E.	After installation conduct testing for the completion of works and with satisfactory result.							
	GUNNERY WORKS									
	66		Installation of four (4) gun mount system		4 pcs					
		A.	Install two (2) sets of .50 Cal HMG gun mount system at port and starboard monkey island							
		B.	Install two (2) sets of 7.62 mms LMG gun mount system at port and starboard Boat Deck							
	67		Fitting of Armory		1 lot					
		A.	Replace old Armory Locker							
		B.	Install metal framing at Armory Cabinets and drawers							
		C.	Apply metal and wood paint with epoxy primer							
		D.	Install appropriate brackets for Gun Mounts							
		E.	Install Armory Gun Rack							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		F.	Install metal doors with appropriate hinges for armory door							
		G.	Install metal double lock mechanism at armory doors							
E	PIPES AND PIPING SYSTEM									
	1	Renewal of Pipelines (Yard supply)								
			Minimum of one (1) meter per section (flange to flange)		1 lot					
	2	Defective sea water manifold valves / fresh water manifold valve and piping line			1 lot					
		A.	Pull out the sea water and fresh water manifold valves from ship to shop for repair and reconditioning and after reconditioning deliver from shop to ship and install.							
		B.	Replace, provide sea water manifold and fresh water manifold if cannot be repair.							
		C.	Install new suction piping's connection and connect from tank to sea water manifold valve and fresh water manifold valve.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D.	Install new sea water and fresh water manifold valves, and test to satisfactory result.							
		E.	Supply of Material							
			One (1) Lot sea water manifold valves		1 lot					
			One (1) Lot fresh water manifold valves.		1 lot					
			One (1) Lot Piping's on sea water suction pipe connected to sea water manifold. G.I Schedule 80.		3 lengths					
			One (1) Lot Piping's on fresh water suction pipe connected to fresh water manifold. G.I Schedule 80.		3 lengths					
	3		Make new Sea Chest Box for Fire Pump		1 lot					
		A	Make new sea chest box for fire pump separate to the sea chest box of main engine.							
		B	Install new 4" suction pipe lines with globe valve connected to the fire pump.		1 length					
		C	Conduct to leak testing and hydro testing upon completion of welding works.		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D	Apply epoxy paint and install zinc anodes inside the sea chest box.							
			1. Pull out existing suction piping and install new suction pipe on P/S tank Nr 3 and 5		1 lot					
			2. Install new suction piping with foot valve on P/S tank Nr 3 connecting to fuel oil transfer manifold valve							
			3. Install new suction piping with foot valve on P/S tank Nr 5 connecting to fuel oil transfer manifold valve							
			4. Make hydro testing on pipe to be install before installing to designated tanks for satisfactory testing result							
			Supply of Material							
			1 Lot BI pipe size approx. 2" dia x 20'		4 lengths					
			1 lot flanges		10 pcs					
			1 lot bolt & nuts		40 sets					
			1 lot gasket		50 pcs					
	4		Fitting of Pipe and Valves for Toilet Bowls		1 lot					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		A.	Install new sea water flushing pipe line from engine room to forward head, CO & Chief Engineer Head, mid-Head, Officer's Head, Engineering Crew's Head and Officers Boat Deck Head							
			Supply of Material							
		B.	Fitting of 1 Lot GI Pipe 1" x SCH 80-10 pcs / Valves + 6pcs, union = 6pcs							
			10 pcs 1 in-D 6096 mm-L GI Pipe- Sch. 80		10 pcs					
			6 pcs 1 in-D Valves		6 pcs					
			6 pcs 1 in-D Fittings		6 pcs					
		C.	Dismantled/ Pull out existing Fire Hydrant and Piping line System		1 lot					
		D.	Install new fire hydrant and piping line system							
		E.	Relocate suction pipe of the fire pump to sea chest or make sea chest for the suction of the fire pump							
			Supply of Material							
			1. Provide and install 1 lot – GI Pipe 2-1/2" Dia x SCH 80 x 20"		4 lengths					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			2. Provide and install 1 lot – GI Pipe 1-1/2" Dia x SCH 80 x 20"		4 lengths					
			3. Provide and install 1 lot – Flanges 56 pcs, Elbow 50 pcs, Tee 5pcs, Reducer 8 pcs							
			56 pcs 2.5 in-D Flange		56 pcs					
			50 pcs 2.5 in-D Elbow		50 pcs					
			5 pcs 2.5 in-D Tee		5 pcs					
			8 pcs 2.5 in-D Reducer		8 pcs					
		F.	Provide and install 1 lot – Ball valve 2" – 5pcs, Ball valve 1-1/2" 1pc							
			5 pcs 2 in-D Ball Valve		5 pcs					
			1 pc 1.5 in-D Ball Valve		1 pc					
		G.	Provide and install 1 lot – BI pipe size approx. 4" dia x 20 and valve size approx. 4" dia = 1pc each for the relocation of suction pipe of the fire pump							
			1 pc 4 in-D BI Pipe		1 pc					
			1 pc 4 in-D		1 pc					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Valve							
		H.	Provide and install 1 lot – flange size approx. 4" = 6							
			6 pcs 4 in-D Flange		6 pcs					
		I.	Provide and install 1 lot - Support/ Clamp/ Bolt / Gasket		1 set					
		J.	Provide and install 1 lot water cannon and accessories		1 set					
	3	Deteriorated and holed breather pipe and valves at P/S sea chest box			1 lot					
		A.	Pull out existing deteriorated and holed breather pipe and valves on Port and Starboard sea chest suction box, and ship to ship							
		B.	Install new breather pipes with flange connection, valves, elbows, tees, brackets and bolts and nuts							
		C.	After re-assemble the new the new breather pipes, make hydro testing before installing at the ship in same position on sea chest suction box							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		D.	4. Paint with epoxy Primer and test to satisfactory upon completion of works							
			Supply of Material							
			1. 1 Lot BI Pipe size approx. 2" dia x sched 80" x 20" = 3pcs		3 lengths					
			2. 1 Lot Flanges		12 pcs					
			3. 1 Lot Elbow		6 pcs					
			4. 1 Lot gasket		1 set					
F	TANK WORKS									
	1		Removal/reinstallation of drain/bottom plugs		1 /set					
	2		Opening/reclosing of Manhole, (Yard's gasket)		1 /set					
	3		Fuel Oil Tank No. 5		1 lot					
		a)	Provide labor and materials needed for the replating of entire tank top of tank nr 5							
		b)	Crop-out/ re-plate the entire top deck plating of tank n 5 (approx. 200 sq. meters). 5 sheets 10 mm-T 1828.71 mm-W 6096 mm-L Marine Grade MS Plate							
		c)	Conduct leak test, vacuum testing and kerosene test.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5 sheets 10 mm-T 1828.71 mm-W 6096 mm-L Marine Grade MS Plate.							
		d)	Blasting of new plates and paint with primer paint 1 coat. New MS Plates 5 sheets 10 mm-T 1828.71 mm-W 6096 mm-L Marine Grade MS Plate Yard supply paints & thinners for 1 coat system							
G	CLEANING OF TANKS									
		1	Fuel Oil Tank Center - 2.0 m ³							
		2	Pump out residual fuel and dirty fuel/oil.		200 tons					
		3	Bail-out mud/sludge/waste.		2 /cbm					
		4	Clean & Wipe Dry		1 lot					
		5	Provide storage for fuel (200 tons)		100 days					
H	ANCHORS/CHAINS AND LOCKERS WORKS:									
		1	Range out/in anchor chain from c/locker & lay-out to dock floor		2 /set/s					
		2	De-rust chain slagblasting to SA 2.0		2 /set/s					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		3	Calibrate anchor and chain & issue certificate		2 /set/s					
		4	Disconnect/reconnect bitter ends.		2 sets					
		5	Renew anchor/chain swivel. -		5 pcs					
		6	Free-up frozen swivel.		5 per piece					
		7	Free-up tangled chains.		3 per set					
		8	Apply one coat (chain & anchor) -		2 per set					
		9	Pumping out sea water & bail-out mud from chain locker		10 /drum					
		10	Apply paint/coating to chain locker - Yard's paint		2 /locker					
I	TAILSHAFT WORKS									
		1	Fixed Type Tailshaft, assuming 151-175 mm-D of shaft		1 lot					
		2	Remove/re-install rope guard.		2 time/s					
		3	Check bearing clearance of tailshaft.		2 location/s					
		4	Decouple/re-couple, jump off tailshaft		2 shaft/s					
		5	Remove, lay aside and reinstallation of intermediate shafts		2 unit/s					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	6	Draw out Tailshaft		2 shaft/s					
	7	Transport tailshaft to shop for works		2 shaft/s					
	8	Transport intermediate shaft to shop for works		2 shaft/s					
	9	Disassemble/assemble packing gland, P/S		2 shaft/s					
	10	Renewal of packing using yard supply materials		2 shaft/s					
	11	Dye check tailshaft tapered ends @ coupling and propeller side.		4 /shaft					
	12	Conduct Honing/blue fitting of port/starboard side propeller taper cone both propeller side and coupling sides.		2 /loc					
	13	Removal of Existing deteriorated bearing and replaced with newly fabricated bearing (Yard Supply)		4 bearings					
	14	Clean & polish of tailshaft.		2 shaft/s					
	15	Mount tailshaft to lathe machine, clean & polish and check straightness tailshaft.		2 shaft/s					
	16	Check and calibrate tailshaft's sleeves		2 /sets					
	17	Recondition bolt/nuts, flange		16 pce					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		18	Check radial/ axial alignment		2 shaft/s					
		19	Renew inboard/outboard bearings using yard supply materials.							
			A. Inboard Bearing (With assuming bearing dimensions)							
			2 sets 6.417 in-D 9.84252 in-L (Fabrication of bearing by of holes)		637 in3					
			2 sets 8.417 in-D 9.84252 in-L (Fabrication of bearing by Skimming)		521 in2					
			B. Outboard Bearing (With assuming bearing dimensions)							
			2 sets 6.417 in-D 13.77953 in-L (Fabrication of bearing by boring of holes)		891 in3					
			2 sets 8.417 in-D 13.77953 in-L (Fabrication of bearing by Skimming)		729 in2					
			C. Supply of Thordon Bearing		1 set					
J	PROPELLER WORKS									
			Fixed Type Propeller; 1101-1200 mmOD x 3 blades,							
		1	Clean and polish propeller blades.		2 unit/s					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	2	Unfreeze, remove/reinstall propeller lock nut		2 unit/s					
	3	Removal/reinstallation of propeller blades		2 unit/s					
	4	Pull out rubber seal and install using Yard's materials. Remove and reinstall keep ring.		2 unit/s					
	5	Haul to shop propeller blades		2 set/s					
	6	Dye check blade roots		2 set/s					
	7	Pull-out and re-install propeller hub		2 /set					
	8	Propeller Reconditioning and repitch		2 /set					
	9	Repair/Adjustment of propeller shafting		2 lot					
K	RUDDER WORKS								
	1	: 151-175 mm dia.							
	a)	Check clearance of pintle bearing		2 pce					
	b)	Repack rudder stock gland using Yard supply materials		2 pce					
	c)	Unfreeze, recondition rudder stud bolts/nuts		12 pce					
	d)	Disassemble/re-assemble steering gear.		2 set/s					
	e)	Remove/re-installation of blade.		2 set/s					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		f)	Remove and re-install rudder stock.		2 set/s					
		g)	Machine to finish rudder stock - Yard supply bearing		2 /pc					
		h)	Transport rudder stock to shop for works.		2 stock/s					
		i)	Mount on lathe machine to check lateral or torsional distortion.		2 set/s					
		j)	Clean rudder stock tailshaft & apply preservation coat		2 pce					
		k)	Break solid cement sealed at rudder flanges, re-cement		2 set/s					
		l)	Check bearing clearance of rudder stock.		2 shaft/s					
		m)	To perform swing test of rudder stocks and blades		2 shaft/s					
	2	Replacement of Stern Tube			1 lot					
		a)	Pull out existing stern tube assembly.							
		b)	Align the P/S Stern Tube to the main propulsion and propeller strut.							
		c)	Conduct alignment test prior to final fitting of new P/S Stern Tube assembly with stuffing box and packing glands.							
		d)	Labor Costs							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		e)	Supply of Materials for Installation.							
L	HARBOR GENERATOR WORKS									
	1	HARBOR GENERATOR			1 lot					
		1.a	Install New Synchronizing Panel							
			1. Provide technician to conduct actual evaluation to the existing marine generator set model Baudouin 4w105S and conduct actual checking of installed automatic voltage regulator (AVR) if it is capable for synchronization if AVR is not capable provide 2 sets of AVR.							
			2. Recommend/Provide and install the suitable synchronizing panel system for the existing marine generator set.							
			3. After installation of synchronizing panel system conduct load testing and test to synchronize the output load of port and starboard marine generator set for the completion of works							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			and with satisfactory result.							
		1.b	Supply of Materials for Installation.							
M	VALVES & MACHINERY WORKS									
	Valve Works									
	1	Grind in place, suction valves seating, paint & repacking using Yard's materials.			1 lot					
	2	Remove & reinstall back valves			1 lot					
	3	Supply of New Bronze Valves for PSME and PSAE								
N	MISCELLANEOUS AND ADDITIONAL WORKS									
	1	Shell Expansion Plan								
			Provide Four (4) copies of Shell Expansion Plan indicating the work done in the vessel, w/ reference plan.		1 lot					
	2	Repair Booklet								
			Provide four (4) copies of repair booklet published history of repair don on the vessel to be turned-over to CG-10, F10, MRG, and		4 booklets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Vessel.							
	3		Electrical Megger Testing		1 lot					
	4		Sea Trial							
			Provide technical crew during sea trial incl. Service boat @ anchorage		1 trial					
	5		Lathe Machine and Controller assembly Works		1 lot					
		a)	Replace One (1) Unit Lathe Machine DC motor to AC Induction Motor.							
		b)	Install Lathe Machine AC motor with complete accessories, wiring connections, panel controller, forward and reverse switch at the Engine room.							
		c)	Fabricate Bed plate and Foundation.							
		d)	Re-align and Re-couple the Lathe Machine AC motor with belt driven mechanism.							
		e)	Conduct testing Lathe Machine AC Motor into satisfactory and completion of Work.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			Repair Parts Requested:							
			a. One (1) Unit Lathe Machine AC Motor 5 HP, 220VAC, 60Hz, 3phase 600RPM							
			b. 1 Unit Control Panel							
			c. 1 Lot Marine Cable 2.5mm2							
			d. 1 Lot Support / Clamp / Tray / Bolts							
			e. 1 Lot Consumables / Welding Rod / Oxygen / Gas							
			f. 1 Unit forward and reverse switch							
			g. 1 Set drive belt.							
	6		General Recondition of Ship's Cargo Crane		1 lot					
		a)	1. Repair Recondition said Cargo Crane (Kato).							
		b)	2. Install new hand Brake Lever Assembly and cable.							
		c)	3. Install new Engine Shut Off Assembly with Cable.							
		d)	4. Install new brake pad lining on running Auxiliary and main cable and hand brake Lever Assembly with Cable.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

	e)	5. Repair and Recondition the control valves Assembly on extend and retract valves.							
	f)	6. Replace defective hydraulic nozzle Assembly adaptor on brake Drum.							
	g)	7. Replace all Hydraulic hoses.							
	h)	8. After installing all parts make test to satisfactory upon completion of works.							
		Supply of Material							
		1. Provide brake pad auxiliary and main running Cable of Brake Drum and install new hand							
		Brake Lever Assembly with Cable.							
		2. Provide and Install new Engine solenoid Shut Off Assembly and Cable.							
		3. Provide and Install parts of Hydraulic Delivery Control valve in and out oil supply pressure.							
		4. Provide Hydraulic Nozzle Assembly Adaptor on Auxiliary and main runner Cable of the brake Drum.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5. Provide and Install hydraulic new Heavy-Duty Hoses.							
	7		Renew One (1) Unit Bench Grinder Assembly from DC to AC motor power output.		1 lot					
		a)	Replace One Unit Bench Grinder Assembly.							
		b)	Install AC Bench grinder assembly with complete accessories wiring connection panel controller and with grinding disc, wire brush installed both side of the grinder motor							
		c)	Conduct testing on Bench Grinder Assembly into satisfactory and completion of works.							
			Supply of Material		1 set					
			1. One (1) Unit of control Panel.							
			2. One (1) Lot of Marine cable 2.5mm2.							
			3. One Lot Support/ Clamp/ Tray/ Bolts.							
			4. One (1) Lot Consumables/ Welding Rod/ Oxygen/ Gas.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5. One (1) Unit Bench grinder Assembly with wire brush and grinding disc installed 1 HP 220							
			Volts AC 60 Hz 1 Phase 1750 Rpm.							
	8		Electric Motor with Exhaust Blower		1 lot					
		a)	Provide / Install one (1) set Mushroom type exhaust blower with 3Hp, 3 phase induction motor with complete accessories and controller, switch and Wire Cable for the engine room.							
		b)	Fabricate foundation for mushroom type exhaust blower and motor.							
		c)	Fabricate Air duct							
		d)	Test to satisfactory upon completion of works.							
			Supply of Material		1 set					
			1. One Mushroom type Exhaust Blower (3Hp, 3 Phase Induction motor) with complete accessories breaker, controller switch and cable.							
			2. One (1) Lot of Materials for fabrication of foundation for exhaust							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			blower.							
			3. One (1) Lot Consumable / Welder rod/ Oxygen/ Acetylene.							
	9		Main Engine and Auxiliary Engine (Re-checking calibration of standard RPM		1 lot					
		a)	Requesting the Supplier technician to check and calibrate the standard RPM of Main Engine and Auxiliary engine.							
		b)	To correct the voltage and RPM if match the standard RPM referring to the machinery manual.							
			Supply of Material		1 lot					
			1. Main and Auxiliary engine to test and calibrate.							
			2. Port Main Engine re – check the alignment between the shafting and transmission drive shaft.							
			3. Re – align the shafting to shafting of the main propulsion or adjust the main engine.							
			4. Shimming steel.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			5. Jack for adjusting height.							
			6. Other tools to adjust the machinery.							
		c)	After alignment test to start the main engine make dock trail to observe if properly align.							
	10	P/S Anchor Winch			1 lot					
		a)	Pull out the whole unit from ship to shop for repair and recondition the anchor winch.							
		b)	Overhaul to determine the defects.							
		c)	Machining of shaft and bushing if needed.							
		d)	Replacement of defective parts, oil seal bushing bearing.							
		e)	Fabricate of other parts found defective.							
		f)	Replacement of Bolts and Nuts.							
		g)	After Assembly the component parts, deliver back to ship and install, filled oil and test to satisfactory upon completion of works.							
			Supply of Material							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			1. Bushing bearing.							
			2. Copper ring shaft spacer bushing.							
			3. Oil Seal.							
			4. Fabrication on parts found defective.							
			5. One (1) Lot materials needed to convert to hydraulic system.							
	11		Replace one (1) unit Motor for Boat Winch		1 lot					
		a)	Provide Labor and materials for installation of boat winch motor assembly.							
		b)	Pull out interferences prior for hot works and replace the damage materials if needed upon completion.							
		c)	Provide and install one (1) Unit Boat winch Motor.							
		d)	Install Three (3) phase AC Induction Motor of Boat Winch with complete accessories, wiring connection, panel controller and switch at boat deck							
		e)	Fabricate bed plate and foundation.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		f)	Re – Align and Re- couple the AC motor to winch.							
		g)	Conduct Testing on Boat winch Motor into satisfactory and completion of works.							
			Supply of Material		1 set					
			1. One (1) Unit boat winch Motor with brake system, 5 HP 220 Volt AC 60 Hz at least 1,150 RPM							
			2. One (1) Unit Control Panel, wirings and switch.							
			3. Materials for bed plate foundation.							
	12	Re –Activation of CO2 System			1 set					
		a)	1. Pull out existing co2 12 bottles and replace new 12 bottles with valve hose connection regulator and cable with hand lever to pull to open.							
		b)	2. Pull out existing piping's connection and replace new piping's connection from boat deck to engine room, cargo hold no. 2, cargo hold no. 1 and forward paint storage locker.							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		c)	Conduct Hydro testing upon complete installing of piping's connection CO2.							
		d)	Repair the CO2 storage locker at boat deck.							
		e)	After complete of installing test dry run for completion of works by using air pressure.							
			Supply of Material		1 set					
			1. 12 bottles of CO2 with complete accessories hose regulator and cable with hand lever each distribution.							
			2. One (1) LOT piping's for pipe line.							
			3. One (1) LOT for repairing the co2 storage locker.							
			4. One (1) LOT for consumable welding rod, Oxygen acetylene.							
	13		Shoring Materials- Provide Cylinder type of Plugging Materials, cone type of Plugging materials, Wedging materials, Patching materials and shoring Materials		1 lot					
		a)	Provide 4x4x12" Cylinder type Plugging. (Materials 6							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			pcs)							
		b)	Provide 3x3x12" Cylinder type Plugging. (Materials 6 pcs)							
		c)	Provide 2x2x12" Cylinder type Plugging. (Materials 6 pcs)							
		d)	Provide 5x1x12" Cone type Plugging. (Materials 6 pcs)							
		e)	Provide 4x1x8" Cone type Plugging. (Materials 6 pcs)							
		f)	Provide 1/2x2x4" Cone type Plugging. (Materials 6 pcs)							
		g)	Provide 2x4x12" wedging materials. (Materials 6 pcs)							
		h)	Provide 2x4x6" wedging materials. (Materials 6 pcs)							
		i)	Provide 2x4x12" Patching materials. (Materials 6 pcs)							
		j)	Provide 4x4x10" Shoring materials. (Materials 6 pcs)							
		k)	Provide 4x4x8" Shoring materials. (Materials 6 pcs)							
		l)	Provide 4x4x6" Shoring materials. (Materials 6 pcs)							
	14	Install new Manual Hydraulic steering system.			1 lot					
		a)	Replace Defective steering							

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

			cable.							
		b)	Provide and Install new Manual Hydraulic steering.							
		c)	After installation calibrate and compensate to synchronize the rudder position to the rudder angle indicator at the bridge.							
			Supply of Material		1 set					
			1. One (1) Lot complete set of Manual Hydraulic power steering system assembly.							
			2. One (1) Lot stainless pipe for hydraulic pipelines approx. 1/2" diameter schedule 80							
			3. One (1) Lot consumable for the installation of manual hydraulic power steering / hydraulic hose / fittings.							
	15		Provide four (4) sets of inflatable life raft.							
		A.	Provide four (4) sets of inflatable life rafts. 2 sets of 25 pax capacity and 2 sets 16 pax capacity							
			2 sets 25 Capacity		2 sets					
			2 sets 16 Capacity		2 sets					

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

		B.	Provide Labor and materials for the fabrication of four (4) sets new inflatable life raft racks.		1 lot					
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[Signature of the Authorized Rep.]

[in the capacity of] (Please indicate position of Authorized Rep.)

Duly authorized to sign Bid for and on behalf of _____
(Please indicate name of company)

***BIDDERS SHALL NOT ALTER THIS FORM**

Contract Agreement Form for the Procurement of Goods (Revised)

[Not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT made the ____ day of _____ 20____ between [name of PROCURING ENTITY] of the Philippines (hereinafter called “the Entity”) of the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called “the Supplier”) of the other part;

WHEREAS, the Entity invited Bids for certain goods and ancillary services, particularly [brief description of goods and services] and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of *[contract price in words and figures in specified currency]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, viz.:
 - i. Philippine Bidding Documents (PBDs);
 - i. Schedule of Requirements;
 - ii. Technical Specifications;
 - iii. General and Special Conditions of Contract; and
 - iv. Supplemental or Bid Bulletins, if any
 - ii. Winning bidder’s bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder’s bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder’s response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity’s bid evaluation;
 - iii. Performance Security;
 - iv. Notice of Award of Contract; and the Bidder’s conforme thereto; and
 - v. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders,**

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

and Warranty Security, shall likewise form part of the Contract.

3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.
4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

<i>[Insert Name and Signature]</i> <i>[Insert Signatory's Legal Capacity]</i> <i>for:</i> <i>[Insert Procuring Entity]</i>	<i>[Insert Name and Signature]</i> <i>[Insert Signatory's Legal Capacity]</i> <i>for:</i> <i>[Insert Name of Supplier]</i>
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MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

ACKNOWLEDGEMENT

REPUBLIC OF THE PHILIPPINES)
_____) S.S.

BEFORE ME, a Notary Public for and in City of _____, Philippines, this
_____ day of _____, 20__, personally appeared:

NAME

ID ISSUED AT/ON

known to me and known to be the same person who execute the foregoing instrument
consisting of _____ () pages, including the page whereon the acknowledgments is
written and acknowledged before me that the same is his/her free and voluntary act and deed
and that of the Corporation/Sole Proprietorship he/she represents.

WITNESS MY HAND AND NOTARIAL SEAL, at the place and on the date first above
written.

Doc No. _____;
Page No. _____;
Book No. _____;
Series of 20__.

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, *[Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and residing at *[Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

1. **Select one, delete the other:**

If a sole proprietorship: I am the sole proprietor or authorized representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

2. **Select one, delete the other:**

If a sole proprietorship: As the owner and sole proprietor, or authorized representative of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity]*, as shown in the attached duly notarized Special Power of Attorney;

If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity]*, as shown in the attached *[state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)]*;

3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. ***Select one, delete the rest:***

If a sole proprietorship: The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a partnership or cooperative: None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:
- a) Carefully examining all of the Bidding Documents;
 - b) Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquiring or securing a Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this ____ day of ____, 20__ at _____, Philippines.

Bidder's Representative/Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon with no. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

BID SECURING DECLARATION FORM

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

BID SECURING DECLARATION
Project Identification No.: *[Insert number]*

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month]* *[year]* at *[place of execution]*.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

SUBSCRIBED AND SWORN to before me this ____ day of *[month]* *[year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of *[month]* *[year]*.

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ *[date issued]*, *[place issued]*

IBP No. _____ *[date issued]*, *[place issued]*

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

STATEMENT OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

Kindly supply the required information in the spaces provided.

Name of Bidder _____. Invitation to Bid Number __. Page . of ____.

Name of the Contract	Date of the Contract	Contract Duration	Owner's Name and Address	Contact Person and Contact Details (Tel./Cell No. and/or Email Address)	Kinds of Goods	Date of Delivery (Please indicate estimated date of delivery)	Amount of Contract	Value of Outstanding Contracts
Government Contracts:								
Private Contracts:								
Total								

[Signature of the Authorized Rep.]

[in the capacity of] (Please indicate position of Authorized Rep.)]

Duly authorized to sign Bid for and on behalf of _____
(Please indicate name of company)

NOTE:

The aforesaid statement should include those contracts awarded but not yet started.

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

Further, bidders should indicate “None” or “No On-going Government and/or Private Contracts” if they do not have any on-ongoing government and/or private contracts in the corresponding rows and/or column, including contracts awarded but not yet started, whether similar or not similar in nature and complexity to the contract to be bid.

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

STATEMENT OF THE SINGLE LARGEST COMPLETED CONTRACT

Kindly supply the required information in the spaces provided.

Name of Bidder _____, Invitation to Bid Number __, Page of ____.

Name of the Contract	Date of the Contract	Contract Duration	Owner's Name and Address	Contact Person and Contact Details (Tel./Cell No. and/or Email Address)	Kinds of Goods	Amount of Contract adjusted by the bidder to current prices using PSA's consumer price index, if necessary for purposes of meeting the SLCC requirement;	Date of Delivery (Please indicate actual date of delivery)

[Signature of the Authorized Rep.]
of Authorized Rep.)]

[in the capacity of] (Please indicate position

Duly authorized to sign Bid for and on behalf of _____
(Please indicate name of company)

NOTE:

Bidders shall submit and attach a copy of the end-user's acceptance or official receipt(s) or sales invoice.

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

NFCC COMPUTATION

Kindly supply the required information in the spaces provided.

Name of Bidder _____. Invitation to Bid Number __. Page . of ____.

DESCRIPTION	ABC
Modernization of Structural Facilities of BRP BOJEADOR (AE-46)	PhP 79,887,064.18

DETAILS	AMOUNT
Current Assets	
Minus	
Current Liabilities	
Difference of Current Assets and Current Liabilities	
Multiplied by	
K	15
Total (Product)	
Minus	
Total value of all outstanding contracts, including those	

MODERNIZATION OF STRUCTURAL FACILITIES OF BRP BOJEADOR (AE-46)

awarded but not yet started	
Total NFCC Computation	

[Signature of the Authorized Rep.] [in the capacity of] (Please indicate position of Authorized Rep.)]

Duly authorized to sign Bid for and on behalf of _____
(Please indicate name of company)

