

SECTION I - INVITATION TO BIDS



PAKISTAN NATIONAL SHIPPING CORPORATION

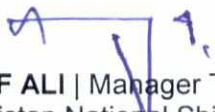
(Statutory Corporation, Established under the ordinance, XX of 1979)

TENDER NO. MRD/18860/2026/SH/DD

Invitation to Bids

DRY DOCKING AND ASSOCIATED REPAIRS/4th SPECIAL SURVEY OF M.T. SHALAMAR

1. Pakistan National Shipping Corporation (PNSC), invite bids for Dry Docking and Associated Repairs/ 4th Special Survey of M.T Shalamar, as per PNSC procurement policy section 4.17, Single stage one Envelope procedure, from Shipyards/Dockyards. Procurement Notice (PN) for the subject Project/Services which appeared in Print Media, PNSC website.
2. PNSC has reserved the funds for the services planned during the Financial Year 2026-27. It is intended that part of the proceeds of the fund will be used to cover eligible payment under the contract for the ***"DRY DOCKING AND ASSOCIATED REPAIRS / 4th SPECIAL SURVEY OF M.T SHALAMAR"***.
3. Bidding documents, may be obtained free of cost from the address stated below from Monday to Friday during the office hours 09:00 PKT to 05:00 PKT or can be downloaded from PNSC website <https://www.pnsc.com.pk/tenders/Shalamar-Drydock-2026.zip> till **October 15th, 2026**.
4. The Bid should be send by an E-mail only shalamar.drydock@pnsc.com.pk latest by (1100 PKT/0600 GMT) **October 15th, 2026** which will be opened on the same day at (1130 PKT/0630 GMT) in the presence of bidders, who wish to attend.
5. PNSC reserves the right to accept or reject any or all bids as per PPRA, 2004.


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SECTION II: INSTRUCTION TO BIDDERS (ITBs)

A. INTRODUCTION

1. SCOPE OF BID

- 1.1. The Procuring Agency (PA), as indicated in the **Bid Data Sheet (BDS)** invites Bids for the provision of **MARINE DRY DOCK WORKS** as specified in the BDS and **Section V-Technical Specifications & Schedule of Requirements**. The successful Bidders will be expected to deliver the **WORKS/SERVICES** within the specified period and timeline(s) as stated in the **BDS**.

2. SOURCE OF FUNDS

- 2.1. Source of funds is referred in Clause-2 of Invitation for Bids.

3. ELIGIBLE BIDDERS

- 3.1. A Bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country, or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture, consortium, or association. In the case of a joint venture, consortium, or association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture, consortium or association shall nominate a Lead Member as nominated in the **BDS**, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of contract.

*(The limit on the number of members of JV or Consortium or Association may be prescribed in **BDS**, in accordance with the guidelines issued by the PPRA).*

- 3.2. The appointment of Lead Member in the joint venture, consortium, or association shall be confirmed by submission of a valid Power of Attorney to the Procuring Agency.
- 3.3. Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.
- 3.4. Any bid submitted by the joint venture, consortium or association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with any instructions issued by the Authority.
- 3.5. The invitation for Bids is open to all prospective **WELL ESTABLISHED SHIPYARDS/DOCKYARDS** subject to any provisions of incorporation or licensing by the respective national incorporating agency or statutory body established for that particular trade or business.
- 3.6. Foreign Bidders must be locally registered with the appropriate national incorporating body or the statutory body, before participating in the **INTERNATIONAL COMPETITIVE BIDDING**
- 3.7. A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidders may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:
- Are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.
 - have controlling shareholders in common; or
 - receive or have received any direct or indirect subsidy from any of them; or
 - have the same legal representative for purposes of this Bid; or
 - have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or
 - Submit more than one Bid in this Bidding process.
- 3.8. A Bidder may be ineligible if –
- he is declared bankrupt or, in the case of company or firm, insolvent;
 - payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial

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- loss of the right to administer and dispose of its property;
- c) legal proceedings are instituted against such Bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property;
 - d) the Bidder is convicted, by a final judgment, of any offence involving professional conduct;
 - e) the Bidder is blacklisted and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration.
 - f) The firm, supplier and contractor is blacklisted or debarred by a foreign country, international organization, or other foreign institutions for the period defined by them.
- 3.9. Bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.
- 3.10. Bidders shall provide such evidence of their continued eligibility to the satisfaction of the Procuring Agency, as the Procuring Agency shall reasonably request.
- 3.11. Bidders shall submit proposals relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to the more than ten (10) percent of the Bid price is envisaged.
- 4. ELIGIBLE GOODS AND RELATED SERVICES**
- 4.1. All goods and related services to be supplied under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such goods and services. For purpose of this Bid, ineligible countries are stated in the section-4 titled as "Eligible Countries".
- 4.2. For purposes of this Clause "origin" means the place where the goods are mined, grown, cultivated, produced, manufactured or processed or through manufacture, procession or assembly another commercially recognized article results that differs substantially in its basic characteristics from its imported components or the place from where the related services are/to be supplied.
- 4.3. The nationality of the supplier that supplies, assembles, distributes, or sells the goods and services shall not determine the origin of the goods.
- 4.4. To establish the eligibility of the Goods and the related services, Bidders shall fill the country of origin declarations included in the Form of Bid.
- 4.5. If so required in the **BDS**, the Bidder shall demonstrate that it has been duly authorized by the manufacturer of the goods to deliver in Pakistan (or in respective country in case of **INTERNATIONAL** procurement, the goods indicated in its Bid.
- 5. ONE BID PER BIDDER**
- 5.1. A bidder shall submit only one Bid, in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.
- 5.2. No bidder can be a sub-contractor while submitting a Bid individually or as a member of a joint venture in the same Bidding process.
- 5.3. A person or a firm cannot be a sub-contractor with more than one bidder in the same bidding process
- 6. COST OF BIDDING**
- 6.1. The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. BIDDING DOCUMENTS

7. CONTENTS OF BIDDING DOCUMENT

- 7.1. The goods required, bidding procedures and terms and conditions of the contract are prescribed in the Bidding Documents. In addition to the Invitation to Bids, the Bidding Documents which should be read in conjunction with any addenda issued in accordance with ITB9.2 include:

Section I Invitation to Bids

Section II Instructions to Bidders (ITBs)

Section III Bid Data Sheet (BDS)

Section IV Eligible Countries

Section V Technical Specifications, Schedule of Requirements



Section VI Forms–Bid

Section VII General Conditions of Contract (GCC)

Section VIII Special Conditions of Contract (SCC)

Section IX Contract Forms

- 7.2. The number of copies to be completed and returned with the Bid is specified in the BDS.
- 7.3. The Procuring Agency is not responsible for the completeness of the Bidding Documents and their addenda, if they were not obtained directly from the Procuring Agency or the signed pdf version from downloaded from the website of the Procuring Agency. However, Procuring Agency shall place both the pdf and same editable version to facilitate the bidder for filling the forms.
- 7.4. The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding Documents. Failure to furnish all the information required in the Bidding Documents will be at the Bidder's risk and may result in the rejection of his Bid.

8. CLARIFICATION OF BIDDING DOCUMENTS

- 8.1. A prospective Bidder requiring any clarification of the Bidding Documents may notify the Procuring Agency in writing or in electronic form that provides record of the content of communication at the Procuring Agency's address indicated in the **BDS**.
- 8.2. The Procuring Agency will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than **TEN (10)** days prior to the deadline for the submission of Bids as prescribed in **ITB 23.1**. However, this clause shall not apply in case of alternate methods of Procurement.
- 8.3. Copies of the Procuring Agency's response will be forwarded to all identified Prospective Bidders through an identified source of communication, including a description of the inquiry, but without identifying its source. In case of downloading of the Bidding Documents from the website of PA, the response of all such queries will also be available on the same link available at the website.
- 8.4. Should the Procuring Agency deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under **ITB 9**.
- 8.5. If indicated in the **BDS**, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned in the **BDS**. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding Documents.
- 8.6. Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective Bidders who have obtained the Bidding Documents. Any modification to the Bidding Documents that may become necessary as a result of the pre-Bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to **ITB 9**. Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

9. AMENDMENT OF BIDDING DOCUMENTS

- 9.1. Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or pre-Bid meeting may modify the Bidding Documents by issuing addenda.
- 9.2. Any addendum issued including the notice of any extension of the deadline shall be part of the Bidding Documents pursuant to **ITB 7.1** and shall be communicated in writing or in any identified electronic form that provide record of the content of communication to all the bidders who have obtained the Bidding Documents from the Procuring Agency. The Procuring Agency shall promptly publish the Addendum at the Procuring Agency's web page identified in the **BDS**:

Provided that the bidder who had either already submitted their bid or handed over the bid to the courier prior to the issuance of any such addendum shall have the right to withdraw his already filed bid and submit the revised bid prior to the original or extended bid submission deadline.

- 9.3. To give prospective Bidders reasonable time in which to take an addendum/corrigendum into account in preparing their Bids, the Procuring Agency may, at its discretion, extend the deadline for the submission of Bids:
Provided that the Procuring Agency shall extend the deadline for submission of Bid, if such an addendum is issued



within last three (03) days of the Bid submission deadline.

C. PREPARATION OF BIDS

10. LANGUAGE OF BID

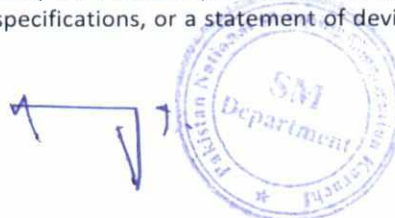
- 10.1. The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Agency shall be written in the English language unless specified in the **BDS**. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless specified in the **BDS**, in which case, for purposes of interpretation of the Bidder, the translation shall govern.

11. DOCUMENTS AND SAMPLE(S) CONSTITUTING THE BID

- 11.1. The Bid prepared by the Bidder shall constitute the following components: -
- a) Form of Bid and Bid Prices completed in accordance with **ITB 14** and **15**;
 - b) Details of the Sample(s) where applicable and requested in the **BDS**.
 - c) Documentary evidence established in accordance with **ITB 13** that the Bidder is eligible and/or qualified for the subject bidding process;
 - d) Documentary evidence established in accordance with **ITB 13.3(a)** that the Bidder has been authorized by the manufacturer to deliver the goods, where required and where the supplier is not the manufacturer of those goods;
 - e) Documentary evidence established in accordance with **ITB 12** that the goods and related services to be supplied by the Bidder are eligible goods and services, and conform to the Bidding Documents;
 - f) Bid security or Bid Securing Declaration furnished in accordance with **ITB 18**;
 - g) Duly Notarized Power of Attorney authorizing the signatory of the Bidder to submit the bid; and
 - h) Any other document required in the **BDS**.
- 11.2. Where a sample(s) is required by a procuring agency, the sample shall be:
- a) Submitted as part of the bid, in the quantities, dimensions and other details requested in the **BDS**;
 - b) Carriage paid;
 - c) Received on, or before, the closing time and date for the submission of bids; and
 - d) Evaluated to determine compliance with all characteristics listed in the **BDS**.
- 11.3. The Procuring Agency shall retain the sample(s) of the successful Bidder. A Procuring Agency shall reject the Bid if the sample(s)-
- a) do(es) not conform to all characteristics prescribed in the bidding documents; and
 - b) Is/are not submitted within the specified time clearly mentioned in the **BDS** Bid Data Sheet.
- 11.4. Where it is not possible to avoid using a propriety article as a sample, a Bidder shall make it clear that the propriety article is displayed only as an example of the type or quality of the goods being Bided for, and that competition shall not thereby be limited to the extent of that article only.
- 11.5. Samples made up from materials supplied by a Procuring Agency shall not be returned to a Bidder nor shall a Procuring Agency be liable for the cost of making them.
- 11.6. All samples produced from materials belonging to an unsuccessful Bidder shall be kept by the Procuring Agency till thirty (30) days from the date of award of contract or exhaust of all the grievance forums (including those pending at Authority's Level or in some Court of Law).

12. DOCUMENTS ESTABLISHING ELIGIBILITY OF GOODS AND RELATED SERVICES AND CONFORMITY TO BIDDING DOCUMENTS

- 12.1. Pursuant to **ITB 11**, the Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all goods and related services which the Bidder proposes to deliver.
- 12.2. The documentary evidence of the eligibility of the goods and related services shall consist of a statement in the Price Schedule of the country of origin of the goods and related services offered which shall be confirmed by a certificate of origin issued at the time of shipment.
- 12.3. The documentary evidence of conformity of the goods and related services to the Bidding Documents may be in the form of literature, drawings, and data, and shall consist of:
- a) a detailed description of the essential technical specifications and performance characteristics of the Goods;
 - b) an item-by-item commentary on the Procuring Agency's Technical Specifications demonstrating substantial responsiveness of the Goods and Services to those specifications, or a statement of deviations and exceptions



to the provisions of the Technical Specifications;

c) any other procurement specific documentation requirement as stated in the **BDS**.

12.4. The Bidder shall also furnish a list giving full particulars, including available sources and current prices of goods, spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified in the **BDS** following commencement of the use of the goods by the Procuring Agency.

12.5. For purposes of the commentary to be furnished pursuant to **ITB 12.3(c)** above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring Agency in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its Bid provided that it demonstrates to the Procuring Agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

12.6. The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation into English shall be attached to the original version.

13. DOCUMENTS ESTABLISHING ELIGIBILITY AND QUALIFICATION OF THE BIDDER

13.1. Pursuant to **ITB 11**, the Bidder shall furnish, as part of its Bid, all those documents establishing the Bidder's eligibility to participate in the bidding process and/or its qualification to perform the contract if its Bid is accepted.

13.2. The documentary evidence of the Bidder's eligibility to Bid shall establish to the satisfaction of the Procuring Agency that the Bidder, at the time of submission of its bid, is from an eligible country as defined in Section-4 titled as "Eligible Countries".

13.3. The documentary evidence of the Bidder's qualifications to perform the contract if its Bid is accepted shall establish to the satisfaction of Procuring Agency that:

a) in the case of a Bidder offering to deliver goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer or producer to deliver the goods in Pakistan;

b) the Bidder has the financial, technical, and supply/production capability necessary to perform the Contract, meets the qualification criteria specified in **BDS**.

c) in the case of a Bidder not doing business within Pakistan, the Bidder is or will be (if awarded the contract) equipped, and able to carry out the Supplier's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications.

d) That the Bidder meets the qualification criteria listed in the Bid Data Sheet **BDS**.

14. FORM OF BID

14.1. The Bidder shall fill the Form of Bid furnished in the Bidding Documents. The Bid Form must be completed without any alterations to its format and no substitute shall be accepted.

15. BID PRICES

15.1. The Bid Prices and discounts quoted by the Bidder in the Form of Bid and in the Price Schedules shall conform to the requirements specified below in **ITB Clause 15** or exclusively mentioned hereafter in the bidding documents.

15.2. All items in the Statement of Work must be listed and priced separately in the Price Schedule(s). If a Price Schedule shows items listed but not priced, their prices shall be construed to be included in the prices of other items.

15.3. Items not listed in the Price Schedule shall be assumed not to be included in the Bid, and provided that the Bid is still substantially responsive in their absence or due to their nominal nature, the corresponding average price of the respective item(s) of the remaining substantially responsive bidder(s) shall be construed to be the price of those missing item(s);

Provided that:

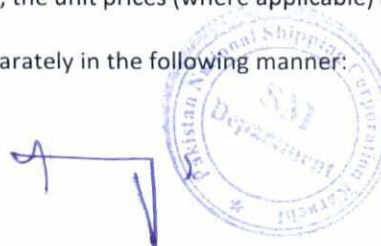
a) where there is only one (substantially) responsive bidder, or

b) where there is provision for alternate proposals and the respective items are not listed in the other bids, The procuring agency may fix the price of missing items in accordance with market survey, and the same shall be considered as final price.

15.4. The Bid price to be quoted in the Form of Bid in accordance with **ITB 15.1** shall be the total price of the Bid, excluding any discounts offered.

15.5. The Bidder shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total Bid price of the goods it proposes to deliver under the contract.

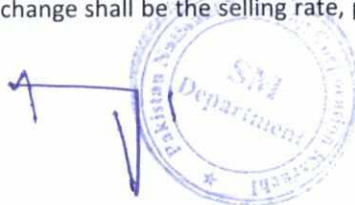
15.6. Prices indicated on the Price Schedule shall be entered separately in the following manner:



- a) For goods manufactured from within Pakistan (or within the country where procurement is being done in case of abroad):
 - i) The price of the goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable:
 - a. On the components and raw material used in the manufacturing or assembly of goods quoted ex-works or ex-factory; or
 - b. On the previously imported goods of foreign origin quoted ex-warehouse, ex-showroom, or off-the-shelf.
 - ii) All applicable taxes which will be payable on the goods if the contract is awarded
 - iii) Price for inland transportation, insurance, and other local costs incidental to delivery of the goods to their final destination, if specified in the **BDS**.
 - iv) The price of other (incidental or allied) services, if any, listed in the **BDS**.
 - b) For goods offered from abroad:
 - i) The price of the goods shall be quoted CIF named port of destination, or CIP border point or CIP named place of destination, in the Procuring Agency's country, as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible countries. Similarly, the Bidder may obtain insurance services from any eligible source country. Or
 - ii) The price of the goods quoted FOB port of shipment (or FCA, as the case may be), if specified in the **BDS**. Or
 - iii) The price of goods quoted CFR port of destination (or CPT as the case may be), if specified in the **BDS**.
 - iv) The price for inland transportation, insurance, and other local costs incidental to delivery of the goods from the port of entry to their final destination, if specified in the **BDS**.
 - v) The price of (incidental) services, if any, listed in the **BDS**.
- 15.7. Prices proposed on the Price Schedule for goods and related services shall be disaggregated, where appropriate as indicated in this Clause. This desegregation shall be solely for the purpose of facilitating the comparison of Bids by the Procuring Agency. This, shall not in any way limit the Procuring Agency's right to contract on any of the terms and conditions offered:-
- a) For Goods: -
 - i) The price of the Goods, quoted as per applicable INCOTERMS as specified in the **BDS**
 - ii) All customs duties, sales tax, and other taxes applicable on goods or on the components and raw materials used in their manufacture or assembly, if the contract is awarded to the Bidder, and
 - b) For Related Services/Works
 - i) The price of the related services/Works, and
 - ii) All customs duties, sales tax and other taxes applicable in Pakistan, paid or payable, on the related services, if the contract is awarded to the Bidder.
- 15.8. Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A Bid submitted with an adjustable price will be treated as non-responsive and shall be rejected, pursuant to ITB 28.
- 15.9. If so indicated in the Invitation to Bids and Instructions to Bidders, that Bids are being invited for individual contracts (Lots) or for any combination of contracts (packages), Bidders wishing to offer any price reduction for the award of more than one contract shall specify in their Bid the price reductions applicable to each package, or alternatively, to individual contracts (Lots) within a package.

16. BID CURRENCIES

- 16.1. Prices shall be quoted in the following currencies:
- a) For goods and services that the Bidder will deliver from within Pakistan, the prices shall be quoted in Pakistani Rupees, unless otherwise specified in the **BDS**.
 - b) For goods and related services that the Bidder will deliver from outside Pakistan, or for imported parts or components of goods and related services originating outside Pakistan, the Bid prices shall be quoted in any freely convertible currency of another country. If the Bidder wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but use no more than three foreign currencies.
- 16.2. For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date



of opening of (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.

- 16.3. Bidders shall indicate details of their expected foreign currency requirements in the Bid.
- 16.4. Bidders may be required by the Procuring Agency to clarify their foreign currency requirements and to substantiate that the amounts included in Lump Sum and in the **SCC** are reasonable and responsive to **ITB 16.1**.

17. BID VALIDITY PERIOD

- 17.1. Bids shall remain valid for the period specified in the **BDS** after the Bid submission deadline prescribed by the Procuring Agency. A Bid valid for a shorter period shall be rejected by the Procuring Agency as non-responsive. The period of Bid validity will be determined from the complementary bid securing instrument i.e. the expiry period of bid security or bid securing declaration as the case may be.
- 17.2. Under exceptional circumstances, prior to the expiration of the initial Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids only once, for the period not more than the period of initial bid validity. The request and the Bidders responses shall be made in writing or in electronic forms that provide record of the content of communication. The Bid Security provided under **ITB 18** shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security or causing to be executed its Bid Securing Declaration. A Bidder agreeing to the request will not be required nor permitted to modify its Bid, but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension, and in compliance with **ITB 18** in all respects.
- 17.3. If the award is delayed by a period exceeding sixty (60) days beyond the expiry of the initial Bid validity period, the contract price may be adjusted by a factor specified in the request for extension. However, the Bid evaluation shall be based on the already quoted Bid Price without taking into consideration on the above correction.

18. BID SECURITY OR BID SECURING DECLARATION

- 18.1. Pursuant to **ITB 11**, unless otherwise specified in the **BDS**, the Bidder shall furnish as part of its Bid, a Bid Security in form of fixed amount not exceeding five percent of the estimated value of procurement determined by the procuring agency and in the amount and currency specified in the **BDS** or Bid Securing Declaration as specified in the **BDS** in the format provided in **Section VI (Standard Forms)**.
- 18.2. The Bid Security or Bid Securing Declaration is required to protect the Procuring Agency against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to **ITB 18.9**.
- 18.3. The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the **BDS** which shall be in any of the following:
 - a) A bank guarantee, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring Agency and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the Bidder;
 - b) A cashier's or certified cheque; or
 - c) Another security if indicated in the **BDS**,
- 18.4. The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in **Section VI (Standard Forms)** or another form approved by the Procuring Agency prior to the Bid submission.
- 18.5. The Bid Security shall be payable promptly upon written demand by the Procuring Agency in case any of the conditions listed in **ITB 18.9** are invoked.
- 18.6. Any Bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with **ITB 18.1 or 18.3** shall be rejected by the Procuring Agency as non-responsive, pursuant to **ITB 28.8**.
- 18.7. Unsuccessful Bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the Procuring Agency pursuant to **ITB 17**. The Procuring Agency shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest:
 - a) the expiry of the Bid Security;
 - b) the entry into force of a procurement contract and the provision of a performance security (or guarantee), for the performance of the contract if such a security (or guarantee), is required by the Bidding documents;



- c) the rejection by the Procuring Agency of all Bids;
 - d) the withdrawal of the Bid prior to the deadline for the submission of Bids, unless the Bidding documents stipulate that no such withdrawal is permitted.
- 18.8. The successful Bidder's Bid Security will be discharged upon the Bidder signing the contract pursuant to **ITB 41**, or furnishing the performance security (or guarantee), pursuant to **ITB 42**.
- 18.9. The Bid Security may be forfeited or the Bid Securing Declaration executed:
- a) if a Bidder:
 - i. withdraws its Bid during the period of Bid Validity as specified by the Procuring Agency, and referred by the bidder on the Form of Bid except as provided for in **ITB 17.2**; or
 - ii. does not accept the correction of errors pursuant to **ITB 30.3**; or
 - b) in the case of a successful Bidder, if the Bidder fails:
 - i. to sign the contract in accordance with **ITB 41**; or
 - ii. to furnish performance security (or guarantee) in accordance with **ITB 42**.

19. ALTERNATIVE BIDS BY BIDDERS

- 19.1. Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic Bidder's technical design as indicated in the specifications and Schedule of Requirements. Alternatives will not be considered, unless specifically allowed for in the **BDS**. If so allowed, **ITB 19.2** shall prevail.
- 19.2. When alternative schedule for delivery of goods is explicitly invited, a statement of that effect will be included in the **BDS** as will the method for evaluating different schedule for delivery of goods.
- 19.3. If so allowed in the **BDS**, Bidders wishing to offer technical alternatives to the requirements of the Bidding Documents must also submit a Bid that complies with the requirements of the Bidding Documents, including the basic technical design as indicated in the specifications. In addition to submitting the basic Bid, the Bidder shall provide all information necessary for a complete evaluation of the alternative by the Procuring Agency, including technical specifications, breakdown of prices, and other relevant details. Only the technical alternatives, if any, of the Most Advantageous Bidder conforming to the basic technical requirements (without altering the bid price) shall be considered by the Procuring Agency.

20. WITHDRAWAL, SUBSTITUTION, AND MODIFICATION OF BIDS

- 20.1. Before bid submission deadline, any bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative and the corresponding substitution or modification must accompany the respective written notice.
- 20.2. Bids requested to be withdrawn in accordance with **ITB 20.1** shall be returned unopened to the Bidders.

21. FORMAT AND SIGNING OF BID

- 21.1. The Bidder shall prepare an original and the number of copies of the Bid as indicated in the **BDS**, clearly marking each "ORIGINAL" and "COPY" as appropriate. In the event of any discrepancy between them, the original shall prevail:
Provided that except in Single Stage One Envelope Procedure, the Bid shall include only the copies of technical proposal.
- 21.2. The original and the copy or copies of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the **BDS** and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid, except for un-amended printed literature, shall be initialed by the person or persons signing the Bid.
- 21.3. Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person or persons signing the Bidder.

D. SUBMISSION OF BIDS

22. SEALING AND MARKING OF BIDS

- 22.1. In case of Single Stage One Envelope Procedure, the Bidder shall seal the original and each copy of the Bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in



an outer envelope securely sealed in such a manner that opening and resealing cannot be achieved undetected.
Note: The envelopes shall be sealed and marked in accordance with the bidding procedure adopted as referred in clause-36(a) of PPR Rules 2004, **read with Rule 13(1) Proviso.**

- 22.2. The inner and outer envelopes shall:
- a) be addressed to the Procuring Agency at the address given in the BDS; and
 - b) bear the title of the subject procurement or Project name, as the case may be as indicated in the **BDS**, the Invitation to Bids (ITB) title and number indicated in the **BDS**, and a statement: "DO NOT OPEN BEFORE," to be completed with the time and the date specified in the **BDS**, pursuant to **ITB 23.1**.
- 22.3. In case of Single Stage Two Envelope Procedure, The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Proposal and the other Financial Proposal. Both envelopes to be enclosed together in an outer single envelope called the Bid. Each Bidder shall submit his bid as under:
- a. Bidder shall submit his **TECHNICAL PROPOSAL** and **FINANCIAL PROPOSAL** in separate inner envelopes and enclosed in a single outer envelope.
 - b. **ORIGINAL** and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
 - c. The envelopes containing the **ORIGINAL** and copies will be put in one sealed envelope and addressed/identified as given in **Sub- Clause 21.2**.
- 22.4. The inner and outer envelopes shall:
- a. Be addressed to the Procuring Agency at the address provided in the Bidding Data;
 - b. bear the name and identification number of the contract as defined in the Bidding Data; and provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data. Pursuant to **ITB 23.1**.
 - c. In addition to the identification required in **Sub- Clause 21.2** hereof, the inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to **Clause IB.24**

If all envelopes are not sealed and marked as required by **ITB 22.2**, **ITB 22.3** and **ITB 22.4** or incorrectly marked, the Procuring Agency will assume no responsibility for the misplacement or premature opening of Bid.

23. DEADLINE FOR SUBMISSION OF BIDS

- 23.1. Bids shall be received by the Procuring Agency no later than the date and time specified in the **BDS**.
- 23.2. The Procuring Agency may, in exceptional circumstances and at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with **ITB 9**, in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline will thereafter be subject to the new deadline.

24. LATE BIDS

- 24.1. The Procuring Agency shall not consider for evaluation any Bid that arrives after the deadline for submission of Bids, in accordance with **ITB 23**.
- 24.2. Any Bid received by the Procuring Agency after the deadline for submission of Bids shall be declared late, recorded, rejected and returned unopened to the Bidder.

25. WITHDRAWAL OF BIDS

- 25.1. A Bidder may withdraw its Bid after it has been submitted, provided that written notice of the withdrawal of the Bid is received by the Procuring Agency prior to the deadline for submission of Bids.
- 25.2. Revised bid may be submitted after the withdrawal of the original bid in accordance with the provisions referred in **ITB 22**.

E. OPENING AND EVALUATION OF BIDS

26. OPENING OF BIDS

- 26.1. The Procuring Agency will open all Bids, in public, in the presence of Bidders' or their representatives who choose to attend, and other parties with a legitimate interest in the Bid proceedings at the place, on the date and at the time, specified in the BDS. The Bidders' representatives present shall sign a register as proof of their attendance.
- 26.2. First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding Withdrawal Notice contains a valid authorization to request the withdrawal and is read out at bid opening.
- 26.3. Second, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Bid shall be exchanged for the corresponding Original Bid being substituted, which is to be returned to the Bidder unopened. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid



authorization to request the substitution and is read out and recorded at bid opening.

- 26.4. Next, outer envelopes marked "MODIFICATION" shall be opened. No Technical Proposal and/or Financial Proposal shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of the Bids. Any Modification shall be read out along with the Original Bid except in case of Single Stage Two Envelope Procedure where only the Technical Proposal, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Proposal, both Original and Modification, will remain unopened till the prescribed financial bid opening date.
- 26.5. Other envelopes holding the Bids shall be opened one at a time, in case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each Bid and of any alternative Bid (if alternatives have been requested or permitted), any discounts, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Procurement Evaluation Committee.
- 26.6. In case of Single Stage Two Envelope Procedure, the Procuring Agency will open the Technical Proposals in public at the address, date and time specified in the BDS in the presence of Bidders' designated representatives who choose to attend and other parties with a legitimate interest in the Bid proceedings. The Financial Proposals will remain unopened and will be held in custody of the Procuring Agency until the specified time of their opening.
- 26.7. The envelopes holding the Technical Proposals shall be opened one at a time, and the following read out and recorded: (a) the name of the Bidder; (b) whether there is a modification or substitution; (c) the presence of a Bid Security, if required; and (d) any other details as the Procuring Agency may consider appropriate.
- 26.8. Bids not opened and not read out at the Bid opening shall not be considered further for evaluation, irrespective of the circumstances. In particular, any discount offered by a Bidder which is not read out at Bid opening shall not be considered further.
- 26.9. Bidders are advised to send in a representative with the knowledge of the content of the Bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent Bidder's representative shall indemnify the Procuring Agency against any claim or failure to read out the correct information contained in the Bidder's Bid.
- 26.10. No Bid will be rejected at the time of Bid opening except for late Bids which will be returned unopened to the Bidder, pursuant to ITB 24.
- 26.11. The Procuring Agency shall prepare minutes of the Bid opening. The record of the Bid opening shall include, as a minimum: the name of the Bidder and whether or not there is a withdrawal, substitution or modification, the Bid price if applicable, including any discounts and alternative offers and the presence or absence of a Bid Security or Bid Securing Declaration.
- 26.12. The Bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a Bidder's signature on the record shall not invalidate the contents and affect the record. A copy of the record shall be distributed to all the Bidders.
- 26.13. A copy of the minutes of the Bid opening shall be furnished to individual Bidders upon request.
- 26.14. In case of Single Stage Two Envelope Bidding Procedure, after the evaluation and approval of technical proposal the procuring agency, shall at a time within the bid validity period, publically open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically non-responsive shall be returned unopened to the respective bidders subject to redress of the grievances from all tiers of grievances.

27. CONFIDENTIALITY

- 27.1. Information relating to the examination, clarification, evaluation and comparison of Bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report.
- 27.2. Any effort by a Bidder to influence the Procuring Agency processing of Bids or award decisions may result in the rejection of its Bid.
- 27.3. Notwithstanding ITB 27.2 from the time of Bid opening to the time of contract award, if any Bidder wishes to contact the Procuring Agency on any matter related to the Bidding process, it should do so in writing or in electronic forms that provides record of the content of communication.

28. CLARIFICATION OF BIDS

- 28.1. To assist in the examination, evaluation and comparison of Bids (and post-qualification if applicable) of the Bidders, the Procuring Agency may, ask any Bidder for a clarification of its Bid including breakdown of prices. Any clarification



- submitted by a Bidder that is not in response to a request by the Procuring Agency shall not be considered.
- 28.2. The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication. In case of Single Stage Two Envelope Procedure, no change in the prices or substance of the Bid shall be sought, offered, or permitted, whereas in case of Single Stage One Envelope Procedure, only the correction of arithmetic errors discovered by the Procuring Agency in the evaluation of Bids should be sought in accordance with **ITB 31**.
- 28.3. The alteration or modification in THE BID which in any affect the following parameters will be considered as a change in the substance of a bid:
- Evaluation & qualification criteria;
 - required scope of work or specifications;
 - All securities requirements;
 - Tax requirements;
 - Terms and conditions of bidding documents.
 - Change in the ranking of the bidder.
- 28.4. From the time of Bid opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bid it should do so in writing or in electronic forms that provide record of the content of communication.

29. PRELIMINARY EXAMINATION OF BIDS

- 29.1. Prior to the detailed evaluation of Bids, the Procuring Agency will determine whether each Bid:
- meets the eligibility criteria defined in **ITB3** and **ITB4**;
 - has been prepared as per the format and contents defined by the Procuring Agency in the Bidding Documents;
 - has been properly signed;
 - is accompanied by the required securities; and
 - is substantially responsive to the requirements of the Bidding Documents.
- The Procuring Agency's determination of a Bid's responsiveness will be based on the contents of the Bid itself.
- 29.2. A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one that:-
- affects in any substantial way the scope, quality, or performance of the Services;
 - limits in any substantial way, inconsistent with the Bidding Documents, the Procuring Agency's rights or the Bidders obligations under the Contract; or
 - if rectified, would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.
- 29.3. The Procuring Agency will confirm that the documents and information specified under **ITB 11, 12 and 13** have been provided in the Bid. If any of these documents or information is missing, or is not provided in accordance with the Instructions to Bidders, the Bid shall be rejected.
- 29.4. The Procuring Agency may waive off any minor informality, nonconformity, or irregularity in a Bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- Explanation:** A minor informality, non-conformity or irregularity is one that is merely a matter of form and not of substance. It also pertains to some immaterial defect in a Bid or variation of a bid from the exact requirements of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the supplies or services being acquired. The Procuring Agency either shall give the bidder an opportunity to cure any deficiency resulting from a minor informality or irregularity in a bid or waive the deficiency, whichever is advantageous to the Procuring Agency. Examples of minor informalities or irregularities include failure of a bidder to—
- Submit the number of copies of signed bids required by the invitation;
 - Furnish required information concerning the number of its employees;
 - the firm submitting a bid has formally adopted or authorized, before the date set for opening of bids, the execution of documents by typewritten, printed, or stamped signature and submits evidence of such authorization and the bid carries such a signature.
- 29.5. Provided that a Technical Bid is substantially responsive, the Procuring Agency may request the Bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information



or documentation on such nonconformities shall not be related to any such aspect of the technical Proposal linked with the ranking of the bidders. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

29.6. Provided that a Technical Bid is substantially responsive, the Procuring Agency shall rectify quantifiable nonmaterial nonconformities or omissions related to the Financial Proposal. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of the missing or nonconforming item or component.

29.7. If a Bid is not substantially responsive, it will be rejected by the Procuring Agency and may not subsequently be evaluated for complete technical responsiveness.

30. EXAMINATION OF TERMS AND CONDITIONS; TECHNICAL EVALUATION

30.1. The Procuring Agency shall examine the Bid to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the Bidder without any material deviation or reservation.

30.2. The Procuring Agency shall evaluate the technical aspects of the Bid submitted in accordance with **ITB 22**, to confirm that all requirements specified in **Section V-Schedule of Requirements, Technical Specifications** of the Bidding Documents have been met without material deviation or reservation.

30.3. If after the examination of the terms and conditions and the technical evaluation, the Procuring Agency determines that the Bid is not substantially responsive in accordance with **ITB 29**, it shall reject the Bid.

31. CORRECTION OF ERRORS

31.1. Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

a. if there is a discrepancy between unit prices and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the Procuring Agency there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;

b) if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and

c) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

d) Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

31.2. The amount stated in the Bid will, be adjusted by the Procuring Agency in accordance with the above procedure for the correction of errors and, with, the concurrence of the Bidder, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bid Securing Declaration may be executed in accordance with **ITB 18.9**.

32. CONVERSION TO SINGLE CURRENCY

32.1. To facilitate evaluation and comparison, the Procuring Agency will convert all Bid prices expressed in the amounts in various currencies in which the Bid prices are payable. For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.

32.2. The currency selected for converting Bid prices to a common base for the purpose of evaluation, along with the source and date of the exchange rate, are specified in the **BDS**.

33. EVALUATION OF BIDS

33.1. The Procuring Agency shall evaluate and compare only the Bids determined to be substantially responsive, pursuant to **ITB 29**.

33.2. In evaluating the Technical Proposal of each Bid, the Procuring Agency shall use the criteria and methodologies listed in the **BDS** and in terms of Statement of Requirements and Technical Specifications. No other evaluation criteria or methodologies shall be permitted.

33.3. The Procuring Agency's evaluation of a Bid will take into account:

a) in the case of goods manufactured in Pakistan or goods of foreign origin already imported in Pakistan, Income Tax, General Sales Tax and other similar/applicable taxes, which will be payable on the goods if a contract is awarded to the Bidder;

b) in the case of goods of foreign origin offered from abroad, customs duties and other similar import taxes which will be payable on the goods if the contract is awarded to the Bidder; and



33.4. The comparison shall be between the EXW price of the goods offered from within Pakistan, such price to include all costs, as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the goods, and named port of destination, border point, or named place of destination) in accordance with applicable INCOTERM in the price of the goods offered from outside Pakistan.

In evaluating the Bidders, the evaluation committee will, in addition to the Bid price quoted in accordance with ITB 15.1, take account of one or more of the following factors as specified in the BDS, and quantified in ITB 32.5:

- a) Cost of inland transportation, insurance, and other costs within the Pakistan incidental to delivery of the goods to their final destination.
- b) delivery schedule offered in the Bid;
- c) deviations in payment schedule from that specified in the Special Conditions of Contract;
- d) the cost of components, mandatory spare parts, and service;
- e) the availability (in Pakistan) of spare parts and after-sales services for the equipment offered in the Bid;
- f) the projected operating and maintenance costs during the life of the equipment;
- g) the performance and productivity of the equipment offered; and/or
- h) Other specific criteria indicated in the TBS and/or in the Technical Specifications.

33.5. For factors retained in BDS, pursuant to ITB 33.4 one or more of the following quantification methods will be applied, as detailed in the BDS:

(a) Inland transportation from EXW/port of entry/border point, Insurance and incidentals.

Inland transportation, insurance, and other incidental costs for delivery of the goods from EXW/port of entry/border point to Project Site named in the BDS will be computed for each Bid by the PA on the basis of published tariffs by the rail or road transport agencies, insurance companies, and/or other appropriate sources. To facilitate such computation, Bidder shall furnish in its Bid the estimated dimensions and shipping weight and the approximate EXW or as per applicable INCOTERM value of each package. The above cost will be added by the Procuring Agency to EXW or as per applicable INCOTERM price.

(b) Delivery schedule.

- i) The Procuring Agency requires that the goods under the Invitation for Bids shall be delivered (shipped) at the time specified in the Schedule of Requirements. The estimated time of arrival of the goods at the Project Site will be calculated for each Bid after allowing for reasonable international and inland transportation time. Treating the Bid resulting in such time of arrival as the base, a delivery "adjustment" will be calculated for other Bids by applying a percentage, specified in the BDS, of the EXW or as per applicable INCOTERM price for each week of delay beyond the base, and this will be added to the Bid price for evaluation. No credit shall be given to early delivery. **OR**
- ii) The goods covered under this invitation are required to be delivered (shipped) within an acceptable range of weeks specified in the Schedule of Requirement. **No credit will be given to earlier deliveries, and Bids offering delivery beyond this range will be treated as non-responsive.** Within this acceptable range, an adjustment per week, as specified in the BDS, will be added for evaluation to the Bid price of Bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements. **OR**
- iii) The goods covered under this invitation are required to be delivered (shipped) in partial shipments, as specified in the Schedule of Requirements. Bids offering deliveries earlier or later than the specified deliveries will be adjusted in the evaluation by adding to the Bid price a factor equal to a percentage, specified in the BDS, of EXW or as per applicable INCOTERM price per week of variation from the specified delivery schedule.

(c) Deviation in payment schedule.

- i) Bidders shall state their Bid price for the payment schedule outlined in the SCC. Bids will be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in Bid price they wish to offer for such alternative payment schedule. The Procuring Agency may consider the alternative payment schedule offered by the selected Bidder. **OR**
- ii) The SCC stipulates the payment schedule offered by the Procuring Agency. If a Bid deviates from the schedule and if such deviation is considered acceptable to the Procuring Agency, the Bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the Bid as compared with those stipulated in this invitation, at the rate per annum specified in the BDS.

(d) Cost of spare parts

- i) The Procuring Agency will draw up a list of high-usage and high-value items of components and spare parts, along with estimated quantities of usage in the initial period of operation specified in the BDS. The total cost of



these items and quantities will be computed from spare parts unit prices submitted by the Bidder and added to the Bid price. **OR**

- ii) The Procuring Agency will estimate the cost of spare parts usage in the initial period of operation specified in the BDS, based on information furnished by each Bidder, as well as on past experience of the Procuring Agency or other Procuring Agency's in similar situations. Such costs shall be added to the Bid price for evaluation.

(e) Spare parts and after sales service facilities in Pakistan

The cost to the Procuring Agency of establishing the minimum service facilities and parts inventories, as outlined in the BDS or elsewhere in the Bidding Documents, if quoted separately, shall be added to the Bid price.

(f) Operating and maintenance costs

Since the operating and maintenance costs of the goods under procurement form a major part of the life cycle cost of the equipment, these costs will be evaluated in accordance with the criteria specified in the BDS or in the Technical Specifications.

(g) Performance and productivity of the equipment.

- i) Bidders shall state the guaranteed performance or efficiency in response to the Technical Specification. For each drop in the performance or efficiency below the norm of 100, an adjustment for an amount specified in the BDS will be added to the Bid Price, representing the capitalized cost of additional operating costs over the life of the plant, using the methodology specified in the BDS or in the Technical Specifications. **OR**
- ii) Goods offered shall have a minimum productivity specified under the relevant provision in the Technical Specifications to be considered responsive. Evaluation shall be based on the cost per unit of the actual productivity of goods offered in the Bid, and adjustment will be added to the Bid price using the methodology specified in the BDS or in the Technical Specifications.

(h) Specific additional criteria.

Other specific additional criteria to be considered in the evaluation and the evaluation method shall be detailed in the BDS and/or the Technical Specifications.

- 33.6. If these Bidding Documents allow Bidders to quote separate prices for different Lots, and the award to a single Bidder of multiple Lots, the methodology of evaluation to determine the lowest evaluated Lot combinations, including any discounts offered in the Form of Bid, is specified in the BDS.

34. DOMESTIC PREFERENCE

- 34.1. If the BDS so specifies, the Procuring Agency will grant a margin of preference to certain goods in line with the rules, regulations, regulatory guides or instructions issued by the Authority from time to time.

35. DETERMINATION OF MOST ADVANTAGEOUS BID

- 35.1. In case where the Procuring Agency adopts the Cost Based Evaluation Technique and, the Bid with the lowest evaluated price from amongst those which are eligible, compliant and substantially responsive shall be the Most Advantageous Bid.
- 35.2. The Procuring Agency may adopt the Quality & Cost Based Selection Technique due to the following two reasons:
 - i. Where the Procuring Agency knows about the main features, usage and output of the products; however not clear about the complete features, technical specifications and functionalities of the goods to be procured and requires the bidders to submit their proposals defining those features, specifications and functionalities; or
 - ii. Where the Procuring Agency, in addition to the mandatory requirements and mandatory technical specifications, requires parameters **specified in Evaluation Criteria** to be evaluated while determining the quality of the goods:
- 35.3. In such cases, the Procuring Agency may allocate certain weightage to these factors as a part of Evaluation Criteria, and may determine the ranking of the bidders on the basis of combined evaluation in accordance with provisions of Rule 2(1)(h) of PPR-2004.

36. POST- QUALIFICATION OF BIDDER AND/OR ABNORMALLY LOW FINANCIAL PROPOSAL

- 36.1. After determining the Most Advantageous Bid, if neither the pre-qualification was undertaken separately nor any qualification parameters were undertaken as part of determining the Most Advantageous Bid, the Procuring Agency shall carry out the post-qualification of the Bidder using only the requirements specified in the BDS. In case of International Tendering, the parameters for incorporation or licensing within Pakistan may be fulfilled as part of post qualification.



36.2. Where the Bid price is considered to be abnormally low, the Procuring Agency shall perform price analysis either during determination of Most Advantageous Bid or as a part of the post-qualification process. The following process shall apply:

- (a) The Procuring Agency may reject a Bid if the Procuring Agency has determined that the price in combination with other constituent elements of the Bid is abnormally low in relation to the subject matter of the procurement (i.e. scope of the procurement or ancillary services) and raises concerns as to the capability and capacity of the respective Bidder to perform that contract;
- (b) Before rejecting an abnormally low Bid the Procuring Agency shall request the Bidder an explanation of the Bid or of those parts which it considers contribute to the Bid being abnormally low; take account of the evidence provided in response to a request in writing; and subsequently verify the Bid or parts of the Bid being abnormally low;
- (c) The decision of the Procuring Agency to reject a Bid and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the Bidder concerned;
- (d) The Procuring Agency shall not incur any liability solely by rejecting abnormally Bid; and
- (e) An abnormally low Bid means, in the light of the Procuring Agency's estimate and of all the Bids submitted, the Bid appears to be abnormally low by not providing a margin for normal levels of profit.

Guidance for Procuring Agency:

In order to identify the Abnormally Low Bid (ALB) following approaches can be considered to minimize the scope of subjectivity:

- i. Comparing the bid price with the cost estimate;
- ii. Comparing the bid price with the bids offered by other bidders submitting substantially responsive bids; and
- iii. Comparing the bid price with prices paid in similar contracts in the recent past either government- or development partner-funded.

36.3. The Procuring Agency will determine to its satisfaction whether the Bidder that is selected as having submitted the most advantageous Bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in **ITB 13.3**.

36.4. The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to **ITB 13.3**, as well as such other information as the Procuring Agency deems necessary and appropriate. Factors not included in these Bidding Documents shall not be used in the evaluation of the Bidders' qualifications.

36.5. Procuring Agency may seek "Certificate for Independent Price Determination" from the Bidder and the results of reference checks may be used in determining award of contract.

Explanation: The Certificate shall be furnished by the bidder. The bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.

36.6. An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's Bid, in which event the Procuring Agency will proceed to the next ranked bidder to make a similar determination of that Bidder's capabilities to perform satisfactorily.

F. AWARD OF CONTRACT

37. CRITERIA OF AWARD

37.1. Subject to ITB 36 and 38, the Procuring Agency will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the Bidding Documents and who has been declared as Most Advantageous Bidder, provided that such Bidder has been determined to be:

- a) eligible in accordance with the provisions of **ITB 3**;
- b) is determined to be qualified to perform the Contract satisfactorily; and
- c) Successful negotiations have been concluded, if any.

38. NEGOTIATIONS

38.1. Negotiations may be undertaken with the Most Advantageous Bid relating to the following areas:

- (a) a minor alteration to the technical details of the statement of requirements;
- (b) reduction of quantities for budgetary reasons, where the reduction is in excess of any provided for in the Bidding documents;
- (c) a minor amendment to the special conditions of Contract;



- (d) finalizing payment arrangements;
- (e) delivery arrangements;
- (f) the methodology for provision of related services; or
- (g) clarifying details that were not apparent or could not be finalized at the time of Bidding;

38.2. Where negotiation fails to result into an agreement, the Procuring Agency may invite the next ranked Bidder for negotiations. Where negotiations are commenced with the next ranked Bidder, the Procuring Agency shall not reopen earlier negotiations.

39. PROCURING AGENCY'S RIGHT TO REJECT ALL BIDS

- 39.1. Notwithstanding ITB 37, the Procuring Agency reserves the right to reject all the bids, and to annul the Bidding process at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders. However, the Authority (i.e. PPRA) may call from the Procuring Agency the justification of those grounds.
- 39.2. Notice of the rejection of all Bids shall be given promptly to all Bidders that have submitted Bids.
- 39.3. The Procuring Agency shall upon request communicate to any Bidder the grounds for its rejection of its Bids, but is not required to justify those grounds.

40. PROCURING AGENCY'S RIGHT TO VARY QUANTITIES AT THE TIME OF AWARD

- 40.1. The Procuring Agency reserves the right at the time of contract award to increase or decrease the quantity of goods or related services originally specified in these Bidding Documents (schedule of requirements) provided this does not exceed by the percentage indicated in the BDS, without any change in unit price or other terms and conditions of the Bid and Bidding Documents.

41. NOTIFICATION OF AWARD

- 41.1. Prior to the award of contract, the Procuring Agency shall issue a Final Evaluation Report giving justification for acceptance or rejection of the bids.
- 41.2. Where no complaints have been lodged, the Bidder whose Bid has been accepted will be notified of the award by the Procuring Agency prior to expiration of the Bid Validity period in writing or electronic forms that provide record of the content of communication. The Letter of Acceptance will state the sum that the Procuring Agency will pay the successful Bidder in consideration for the execution of the scope of works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").
- 41.3. The notification of award will constitute the formation of the Contract, subject to the Bidder furnishing the Performance Security (or guarantee) in accordance with ITB 43 and signing of the contract in accordance with ITB 42.2.
- 41.4. Upon the successful Bidder's furnishing of the performance security (or guarantee) pursuant to ITB 43, the Procuring Agency will promptly notify each unsuccessful Bidder, the name of the successful Bidder and the Contract amount and will discharge the Bid Security or Bid Securing Declaration of the Bidders pursuant to ITB 18.7.

42. SIGNING OF CONTRACT

- 42.1. Promptly after notification of award, Procuring Agency shall send the successful Bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.
- 42.2. Immediately after the Redressal of grievance by the GRC, and **after fulfillment of all conditions precedent** of the Contract Form, the successful Bidder and the Procuring Agency shall sign the contract.
- 42.3. Where no formal signing of a contract is required, purchase order issued to the bidder shall be construed to be the contract.

43. PERFORMANCE SECURITY (OR GUARANTEE)

- 43.1. After the receipt of the Letter of Acceptance, the successful Bidder, within the specified time, shall deliver to the Procuring Agency a Performance Security (or Guarantee) in the amount and in the form stipulated in the BDS and SCC, denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.
- 43.2. If the Performance Security (or Guarantee) is provided by the successful Bidder and it shall be in the form specified in the BDS which shall be in any of the following:
 - (a) certified cheque, cashier's or manager's cheque, or bank draft;
 - (b) irrevocable letter of credit issued by a Scheduled bank or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a Scheduled bank;
 - (c) bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign Bidder, bonded by a foreign bank; or



(d) surety bond callable upon demand issued by any reputable surety or insurance company.
Any Performance Security (or guarantee) submitted shall be enforceable in Pakistan.

- 43.3. Failure of the successful Bidder to comply with the requirement of ITB 43.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security, in which event the Procuring Agency may make the award to the next ranked Bidder or call for new Bids.

44. ADVANCE PAYMENT

- 44.1. The advance payment will not be provided in normal circumstances. However, in case where international incoterms are involved, the same will be dealt with standard international practices and in the manner as prescribed in ITB 44.2.
- 44.2. The Procuring Agency will provide an Advance Payment as stipulated in the Conditions of Contract, subject to a maximum amount, as stated in the BDS. The Advance Payment request shall be accompanied by an Advance Payment Security (Guarantee) in the form provided in Section IX. For the purpose of receiving the Advance Payment, the Bidder shall make and estimate of, and include in its Bid, the expenses that will be incurred in order to commence Delivery of Goods. These expenses will relate to the purchase of equipment, machinery, materials, and on the engagement of labor during the first month beginning with the date of the Procuring Agency's "Notice to Commence" as specified in the SCC.

45. ARBITRATOR

- 45.1. The Arbitrator shall be appointed by mutual consent of the both parties as per the provisions specified in the SCC.

46. CORRUPT & FRAUDULENT PRACTICES

- 46.1. Procuring Agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid to engage in any corrupt and fraudulent practices.

G. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM

47. CONSTITUTION OF GRIEVANCE REDRESSAL

- 47.1. Procuring agency shall constitute a Grievance Redressal Committee (GRC) comprising of odd number of person with proper power and authorization to address the complaint. The GRC shall not have any of the members of Procurement Evaluation Committee. The committee must have one subject specialist depending the nature of the procurement.

48. GRC PROCEDURE

- 48.1. Any party can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the prequalification or bidding documents found contrary to provision of Procurement Regulatory Framework, and the same shall be addressed by the GRC well before the bid submission deadline.
- 48.2. Any Bidder feeling aggrieved by any act of the procuring agency after the submission of his bid may lodge a written complaint concerning his grievances not later than **Seven Days** of the announcement of **Technical Evaluation Report** and **Five Days** after issuance of **Final Evaluation Report**.
- 48.3. In case, the complaint is filed against the technical evaluation report, the GRC shall suspend the procurement proceedings.
- 48.4. In case, the complaint is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report:
Provided that the complainant may raise the objection on any part of the final evaluation report in case where single stage one envelop bidding procedure is adopted.
- 48.5. The GRC, in both the cases shall investigate and decide upon the complaint within ten days of its receipt.
- 48.6. Any bidder or the procuring agency not satisfied with the decision of the GRC may file Appeal before the Appellate Committee of the Authority in prescribed format after depositing the prescribed fee.
- 48.7. The Committee, upon receipt of the Appeal against the decision of the GRC complete in all respect shall serve notices in writing upon all the parties to Appeal.
- 48.8. The committee shall call the record from the concerned procuring agency or the GRC as the case may be, and the same shall be provided within prescribed time.
- 48.9. The committee may after examination of the relevant record and hearing all the concerned parties, shall decide the complaint within fifteen (15) days of receipt of the Appeal.



- 48.10. The decision of the Committee shall be in writing and shall be signed by the Head and each Member of the Committee. The decision of the committee shall be final.

H. MECHANISM OF BLACKLISTING

49. MECHANISM OF BLACKLISTING

- 49.1. The Procuring Agency shall bar for not more than the time prescribed in Rule-19 of the Public Procurement Rules 2004, from participating in their respective procurement proceedings, bidder or contractor who either:
- i. Involved in corrupt and fraudulent practices as defined in Rule-2 of Public Procurement Rules;
 - ii. Fails to perform his contractual obligations; and
 - iii. Fails to abide by the id securing declaration;
- 49.2. The show cause notice shall contain: a) precise allegation, against the bidder or contractor; b) the maximum period for which the Procuring Agency proposes to debar the bidder or contractor from participating in any public procurement of the Procuring Agency; and c) the statement, if needed, about the intention of the Procuring Agency to make a request to the Authority for debarring the bidder or contractor from participating in public procurements of all the procuring agencies.
- 49.3. The procuring agency shall give minimum of seven days to the bidder or contractor for submission of written reply of the show cause notice
- 49.4. In case, the bidder or contractor fails to submit written reply within the requisite time, the Procuring Agency may issue notice for personal hearing to the bidder or contractor/ authorize representative of the bidder or contractor and the procuring agency shall decide the matter on the basis of available record and personal hearing, if availed.
- 49.5. In case the bidder or contractor submits written reply of the show cause notice, the Procuring Agency may decide to file the matter or direct issuance of a notice to the bidder or contractor for personal hearing.
- 49.6. The Procuring Agency shall give minimum of seven days to the bidder or contractor for appearance before the specified officer of the Procuring Agency for personal hearing. The specified officer shall decide the matter on the basis of the available record and personal hearing of the bidder or contractor, if availed
- 49.7. The procuring Agency shall decide the matter within fifteen days from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the period of personal hearing shall be reckoned from the last date of personal hearing.
- 49.8. The Procuring Agency shall communicate to the bidder or contractor the order of debarring the bidder or contractor from participating in any public procurement with a statement that the bidder or contractor may, within thirty days, prefer a representation against the order before the Authority.
- 49.9. Such blacklisting or barring action shall be communicated by the procuring agency to the Authority and respective bidder or bidders in the form of decision containing the grounds for such action. The same shall be publicized by the Authority after examining the record whether the procedure defined in blacklisting and debarment mechanism has been adhered to by the procuring agency.
- 49.10. The bidder may file the review petition before the Review Petition Committee Authority within thirty days of communication of such blacklisting or barring action after depositing the prescribed fee and in accordance with "Procedure of filing and disposal of review petition under Rule-19(3) Regulations, 2021". The Committee shall evaluate the case and decide within ninety days of filing of review petition
- 49.11. The committee shall serve a notice in writing upon all respondent of the review petition. The notices shall be accompanied by the copies of review petition and all attached documents of the review petition including the decision of the procuring agency. The parties may file written statements along with essential documents in support of their contentions. The Committee may pass such order on the representation may deem fit.
- 49.12. The Authority on the basis of decision made by the committee either may debar a bidder or contractor from participating in any public procurement process of all or some of the procuring agencies for such period as the deemed appropriate or acquit the bidder from the allegations. The decision of the Authority shall be final.



SECTION III: BID DATA SHEET

Bid Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITBs). Whenever there is a conflict, the provisions herein shall prevail over those in ITBs.

BDS Clause Number	ITB Number	AMENDMENTS OF AND SUPPLEMENTS TO CLAUSES IN THE INSTRUCTION TO BIDDERS
A. INTRODUCTION		
1.	1.1	Name of Procuring Agency : PAKISTAN NATIONAL SHIPPING CORPORATION (PNSC) , The subject of procurement is: DRY DOCKING AND ASSOCIATED REPAIRS/4th SPECIAL SURVEY OF M.T SHALAMAR Period for delivery of works/services: WITHIN 06 WEEKS AFTER ENTERING DOCKYARD Commencement date for delivery/completion of works/ services: AFTER ISSUANCE OF PURCHASE ORDER
2.	2.1 & 2.2	Financial year for the operations of the Procuring Agency: 2026-2027 Name of Project: DRY DOCKING AND ASSOCIATED REPAIRS/4th SPECIAL SURVEY OF M.T SHALAMAR Name of financing institution: PNSC OWN FUNDS Name and identification number of the Contract: MRD/18860/2026
4.	3.1	Maximum number of members in the joint venture, Consortium or association shall be: NOT ALLOWED
5.	4.1	Ineligible country (ies) is or are: ISRAEL & INDIA
6.	4.5	Demonstration of authorization by manufacturer/Dock yard: REQUIRED
B. BIDDING DOCUMENTS		
7.	7.2	The number of documents to be completed and returned: One Original Signed and stamped Scanned
8.	8.1	The address for clarification of Bidding Documents is: estankers@pnsc.com.pk
	8.5	Pre-bid meeting will not be held
C. PREPARATION OF BIDS		
9.	10.1	The Language of all correspondences and documents related to the Bid is: English
10.	11.1(b)	Detail of sample(s) to be submitted with the Bid are: N/A .
11.	11.2(b)	Characteristics: N/A
12.	11.1(h)	In addition to the documents stated in ITB 11, the following documents must be included with the Bid: N/A
13.	12.3(c)	Other procurement specific documentation Requirements are: N/A
14.	12.4	Spare parts required for N/A Years of operation.
15.	13.3(b)	The qualification criteria required from Bidders in ITB13.3(b) is modified as follows: a) The dry dock should have dry docking facility to accommodate Aframax Tanker. b) The yard should have electrical facilities to repair and overhaul big motors approximate 200 KW/ 315 amp 440 volts. c) The yard should have hydro blasting, sand blasting, and power tooling facilities etc. to carry out complex and extensive steel renewal in Cargo/Ballast/Fuel tank of Aframax Tanker. d) The yard should have the capacity to arrange for OEM service for Main Engine (MAN B&W), Aux. Engine (Yanmar), Boiler (Mitsubishi), Main Engine Turbo Charger (MITSUI-MAN-B&W), Aux. Engine Turbo Charger (IHI) etc., e) The yard should have facilities to repair and overhaul hydraulic motors, and equipment etc.
16.	15.7(a) (iii), (iv)(Optional)	For goods manufactured from within Pakistan the price quoted shall be: N/A
17.	15.7 & 15.6	For goods/services offered from abroad the price quoted shall be: USD



	15.9	The price shall be fixed.
18.	16.1 (a)	a) For goods and related services the currency of the Bid shall be USD only ;
19.	16.2	For the purposes of comparison of bids quoted in different currencies, the price shall be converted in to a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.
20.	17.1	The Bid Validity period shall be: 120 days .
21.	18.1	The amount of Bid Security shall be: N/A The currency of the Bid Security shall be: N/A Or Indicate whether Bid Securing Declaration is applicable: YES
22.	18.3	The Bid Security shall be in the form of: N/A
23.	18.3(c)	Other forms of security are: N/A
24.	19.1	Alternative Bids to the requirements of the Bidding Documents "will not" be permitted,
25.	21.1	The number of copies of the Bid to be completed and returned shall be: SCANNED SIGNED AND STAMPED THROUGH EMAIL: shalamar.drydock@pnscl.com.pk
26.	21.2	Written confirmation of authorization are: Required
D. SUBMISSION OF BIDS		
27.	22.2 (a)	Bid shall be submitted: Through Protected E-mail Address shalamar.drydock@pnscl.com.pk
28.	22.2(b)	Title of the subject Procurement: DRY DOCKING AND ASSOCIATED REPAIRS/4th SPECIAL SURVEY OF M.T SHALAMAR ITB title and No: MRD/18860/2026
29.	23.1	The deadline for Bid submission is: a) Day: Thursday b) Date: October 15th, 2026 c) Time: 11:00 AM
E. OPENING AND EVALUATION OF BIDS		
30.	26.1	The Bid opening shall take place at: Street address: M.T Khan Road Lalazar , Building/Plot No: PNSC Building , Floor/Room No: Sixteen Floor/ Conference room , City/Town: Karachi , Country: Pakistan a) Day: Thursday b) Date: October 15th, 2026 c) Time: 11:30 AM
31.	32.2	The currency that shall be used for Bid evaluation and comparison purposes to convert all Bid prices expressed in various currencies is: USD The source of exchange rate shall be: STATE BANK OF PAKISTAN The date of exchange rate shall be: The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day



After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (technical) specifications/requirements and/or requisite quality threshold (if any), shall be evaluated as follow:

1. M.S Excel worksheet filled in, with unit rates of all rows in USD (only) as per work scope. Shipyards are not allowed to make any modifications to the excel sheet. Doing so will result in disqualification of the bid.
2. Line items left blank / un-quoted by the shipyards shall be considered at the average value of the two lowest quoted price by other substantially responsive bids of participating yards for comparative purpose only.
3. The limit for blank/un-quoted line items is 25%. Bids with percentage of unquoted items exceeding 25% will be considered as unresponsive, and disqualified.
4. The actual cost of line items left unquoted by the participants, and for any unforeseen jobs (hereafter referred to as "additional jobs") identified during the docking, the following pricing mechanisms will be used for subsequent payment:
 - a. For additional jobs with cost exceeding USD 50,000, average of quotation(s) from regional competitive yards and / or local contractors and the additional quotation from shipyard will be considered final price for subsequent payment
 - b. For all additional jobs with cost not exceeding USD 50,000, PNSC may choose to invoke 4(a) in case the yard quotation is considered non-competitive.
5. Only the 'Unit Rate' Column, and 'Discount' Column in Excel sheet given by PNSC is to be filled-up and attached in the e-mail by the bidders. All other cells have been locked in Excel file. The quotation will not be accepted if it is given in any other format or if any other excel sheet is used. Similarly no additional terms and conditions would be accepted.
6. Bidders only have to fill up Excel Sheet and only the standard tariff is to be attached in e-mail, no other quotation or format is to be attached and will be discarded. For each job code, details of job are given in MS Excel file <http://www.pnsc.com.pk/tenders/SHALAMAR-Drydock-2026.zip> against each item the applicable rate and discount is to be filled in Excel file by the bidder. Where any item is quoted against, it will be assumed that rate for the entire job specification has been given for that particular item code. Partial quotations for any particular job code are not accepted and in case bidder cannot quote for entire job, then they may leave that item blank, however leaving blank lines is strongly discouraged. Shipyards are to fill in the General Services as per their standard Tariff in the excel sheet where applicable as well.
7. Shipyards to identify separate days required on blocks and alongside repair berth precisely, as well as docking schedule.
8. The rates quoted by bidders should include cost of such items against each line item, (requires access, removal/refit, material supply from yard, staging, sludge removal and disposal from tanks, etc. i.e. any sort of hidden charges) and any additional charges for these items would not be allowed at the time of final invoicing.
9. The contract would be awarded on the basis of most advantageous bidder which would consider the net repair cost submitted by the yards, opportunity cost for passage days to the shipyard from the delivery port and the time spent inside yard for repairs, and fuel cost for passage.
10. Opportunity cost will also be considered during bids evaluation, along with fuel cost till dock location. Opportunity cost is the estimated value which owner will not earn, starting from the last cargo discharge operation, till commencement of next commercial engagement.
11. Penalty / Liquidated damages would be charged @ USD 9,000/- per day for first 5 days and USD 14,000 / day for delay in excess of 5 days in case of delay in repairs by shipyard. Ship owner to have margin of 15% enhancement in work scope.
12. Shipyards are to provide schedule of docking and un-docking with dates, along with number of days required alongside repair berth. Preference will be given to shipyards providing firm schedules.
13. Shipyards are to also intimate about any external events, such as National Holidays (e.g. Chinese New Year) in the bid, which may adversely affect the overall project.
14. PNSC reserves the right, at its sole discretion, to enter into negotiations with the substantially responsive bidders (in accordance with point 3 above) at any stage of the bid evaluation process.
15. Only shipyards submitting bids directly will be entertained, in accordance with 3.5 of Section II of this document. Bids from Agents will not be entertained and rejected.

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35



33	33.4 (h)	N/A
34	33.5 (a)	N/A
35	33.5 (b)	N/A
36	33.5 c(ii)	N/A
37	33.5 (d)	N/A
38	33.5 ^o (e)	N/A
39	33.5 (f)	N/A
40	33.5 (g)	N/A
41	33.5 (h)	Specific additional criteria to be used in the evaluation and their evaluation method or reference to the Technical Specifications. <u>N/A</u>
42	33.6	N/A
43	34.1	N/A

F. AWARD OF CONTRACT

44.	40.1	Percentage for quantity increase or decrease is: <u>15 %</u>
45.	43.1	The Performance Security (or guarantee) shall be: <u>N/A</u>
46.	43.2	The Performance Security (or guarantee) shall be in the form of: <u>N/A</u>
47.	44.1	The Advance Payment if essential shall be limited to: <u>N/A</u>
48.	44.2	Maximum amount of Advance payment shall be: <u>N/A</u>
49.	45.1	Arbitrator shall be appointed by mutual consent of the both parties.

G. REVIEW OF PROCUREMENT DECISIONS

50.	49.1	The address of the Procuring Agency: <u>PNSC Building MT Khan Road, Karachi Sindh Pakistan</u>
		The Address of PPRA to submit a copy of grievance: Grievance Redressal Appellate Committee, Public Procurement Regulatory Authority, 1 st , Floor, G-5/2, Islamabad, Pakistan, Tel: +92-51-9202254



SECTION IV. ELIGIBLE COUNTRIES

All the bidders are allowed to participate in the subject procurement without regard to nationality, except bidders of some nationality, prohibited in accordance with policy of the Federal Government.

Following countries are ineligible to participate in the procurement process:

1. India
2. Israel

Ministry of Interior, Government of Pakistan has notified List of Business Friendly Countries (BVL), information can be accessed through following link:

<http://www.dgip.gov.pk/Files/Visa%20Categories.aspx#L>



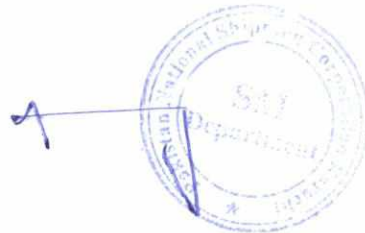


"M.T. SHALAMAR"

DRY DOCK CONTRACT

2026

PAKISTAN NATIONAL SHIPPING CORPORATION
PNSC BUILDING
MOULVI TAMIZUDDIN KHAN ROAD
P.O.BOX: 5350
KARACHI
PAKISTAN
FAX : 99203974 – 35636658
PHONES : 9203980-99 (20 LINES)
Website : www.pnsc.com.pk
E-mail : shalamar.drydock@pnsc.com.pk





FORM OF CONTRACT

This Contract is made and entered into at Karachi on the _____ Day of _____ 2026.

~ BY & BETWEEN~

PAKISTAN NATIONAL SHIPPING CORPORATION (PNSC), a statutory body incorporated under Pakistan National Shipping Corporation Ordinance 1979 (XX of 1979), having its Head Office in P.N.S.C Building, Molvi Tamizuddin Khan Road, Karachi, Pakistan (hereinafter referred to as "THE PURCHASER", which term wherever it occurs in this Contract shall mean and include its successors-in-interest, executors and permitted assigns); Party of the FIRST PART.

~ AND ~

M/s. -----, Duly organized and existing under the laws of the ----- [State Name], having its registered office at ----- (hereinafter referred to as "THE VENDOR" which term wherever it occurs in these present shall mean and include its successors-in-interest, executors and permitted assigns); party of the SECOND PART.

(The Purchaser and the Vendor hereinafter referred to individually as "Party" and collectively as the "Parties").

This Contract is made by the Purchaser and Vendor; whereby the Purchaser agrees to buy and the Vendor agrees to sell the under mentioned (hereinafter called "Product") according to terms and conditions stipulated below:

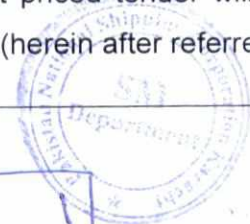
The following documents shall be deemed to form and be read and construed as part of this Contract;

- i. **This Contract Agreement;**
- ii. **Bid Form and**
- iii. **General Condition of Contract.**

Now therefore, in consideration of the mutual terms and conditions, it is agreed by and between the parties as follows:

(A) GENERAL CONDITIONS OF CONTRACT

Pakistan National Shipping Corporation (herein-after referred to as "MANAGERS") on behalf of the Owners of M.T. SHALAMAR (herein-after referred to as "OWNERS") invite ship repair yards (herein after referred to as "CONTRACTORS" to tender for carrying out the Dry-docking, repairs, modifications or renewal as described in the accompanying specification (herein after referred to as "THE SPECIFICATION"). Tenders should be submitted in the manner prescribed in the accompanying tender forms. The lowest priced tender will not necessarily secure the contract. The following terms and conditions (herein after referred to





as Pakistan National Shipping Corporation "GENERAL CONDITIONS") shall be deemed to be incorporated in all tenders submitted by contractors.

1. SPECIFICATION, PRICING AND NUMBERING

The tenders must be submitted by E-mail indicating Code Nos. of Items & Charges. Where a major item consists of several individually numbered parts, prices for these should be indicated separately. This Excel file with prices duly filled in must be returned to MANAGERS within the time limit specified in the tender. The 'Contractors Repair List' issued to the vessel and workmen is to be numbered in accordance with the item numbers contained in the specification, in addition to any numbering required by contractors. Owner's telex Nos. are FAX: 92-21-99203974 – 35683892 PHONES: 92-21-99203980-99 (20 LINES).

2. PLANNING

The successful contractors undertake to provide Outlined Plans Charts / Work programmers, showing the planned commencement and completion schedules for each item given in the specifications. These plans are to be forwarded to MANAGERS for agreement prior to the arrival at the yard and commencement of repairs, also to be updated daily during the course of repairs (including any additional works). Non-compliance with above would render the Contractor liable for the prescribed penalty for delay in work even if additional work by Managers exceeds original scope of work by 10%.

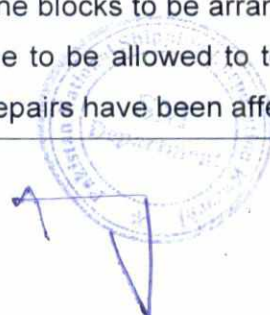
3. PLACE OF DELIVERY/REDELIVERY

The vessel will be delivered to contractors at suitable buoys or safe mooring, at contractors' yard in clean condition. After repairs and trials have been completed to the satisfaction of MANAGERS Representatives, the vessel will be redelivered by contractors to MANAGERS at suitable buoys or safe mooring at contractors yard, in same clean condition at the time of delivery, at Contractor's Cost. Between delivery of the vessel to contractors and redelivery to MANAGERS, Contractors will be responsible for inter-alia, providing or obtaining all towage, pilot age and necessary marine services to operate the vessel, and will be responsible for safe shifting of the vessel.

Any delay in readiness of the Dry dock for accepting the vessel on the confirmed date of Dry dock availability shall be subject to the liquidated damages stated as given in the instructions to bidders, independently of any other clause in this agreement.

4. DRY DOCKING:

The vessel is to be dry docked on blocks fitted with soft wood caps and special shores are to be fitted under all tanks containing water ballast or oil fuel. The blocks to be arranged as per vessel blocks arrangements (dry-dock) plan. Sufficient time to be allowed to test sea valves and systems and to ensure before the vessel sails that repairs have been affected in





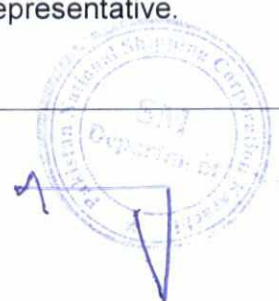
accordance with the SPECIFICATIONS (the same would be assumed to be already incorporated in the time given by Contractor for completion of all works).

5. TOOLS EQUIPMENT, MATERIALS AND WORKMANSHIP:

- a. Unless stated by MANAGERS to the contrary, Contractors are to supply and assume full responsibility for all necessary tools, equipments, materials, renewals, replacements and services, which together with all workmanship shall be of first class quality. Yard will be responsible to execute all repair works to the satisfaction of MANAGERS representatives and Class Surveyor / requirements of Classification Society and all equipments which have been repaired, overhauled or installed by Contractors shall be tested to the satisfaction of Owner Representatives in accordance with the SPECIFICATIONS provided by the MANAGERS.
- b. All the work carried out by the Contractors would be guaranteed for satisfactory materials and workmanship, for at least six months, from the date of completion of repairs.
Contractors would be held responsible for any damages to machinery, directly attributable to, or as a consequence of poor workmanship or unsatisfactory/ insufficient materials during or as a part of repairs or modifications undertaken by them.
- c. All old material, except heavy parts of machinery, propellers and tail shafts shall be the Contractor's property, unless otherwise agreed in writing. However, removal of all such material, debris etc. and the cleaning of all work spaces during and after repairs, will be at the Contractor's cost and responsibility.

6. SCHEDULED AND UNSCHEDULED WORK :

- a. Unless otherwise agreed by the MANAGERS Representatives, the work must be completed in full in accordance with the specification. In case Yard is unable to complete within time any work for which it has already quoted for, the Yard would be responsible for any loss resulting from non-completion and would also be liable to get it completed through alternate sources at its own cost and responsibility.
- b. The MANAGERS reserve the right to delete items from the specification or vary its contents as necessary, prior to, and during the execution of work.
- c. The MANAGERS reserve the right to introduce additional items at any time. It is imperative for the Yard that the Owner receives competitive quotes for all additional items in writing from the Yard within 48 hours after intimation by the Manager's Representative.





The scope of work and rates for any additional work not included in this specification must be agreed in writing between the MANAGER'S Representatives and Contractor. Also in case additional time (in excess of time quoted by Contractor) is reasonably required due to any additional work or due to substantial increase in scope of works given in the Specification (after allowing for any reduction in time due to cancellation of jobs in this specification), the same should be agreed by Owner Representatives before such works are put in hand. Failure to comply with above would render CONTRACTOR liable for the prescribed penalty for delay in work as per Clause 8 below, and rates for the additional works would be reasonably decided by Manager's Representative.

7. TERMS AND CONDITIONS :

The Contractor's attention is drawn for items marked 'MANAGERS' order in the specification. Such items will be attended to, either by Maker's Representatives or specialist services, which will be the responsibility of the MANAGERS to arrange and provide. The Contractor should not therefore include items marked 'MANAGERS Order' in the quotation.

All other items should be quoted for in accordance with the entire job specification given against each item code and it will be assumed that they have been given accordingly, unless the Contractor does not give any quotation for any particular item in Excel based quotation file. Partial quotations for any particular job code are not accepted and any rate quoted against any particular item would assume to be for the entire job specification.

Please note that in case of any clarification regarding job specification, the same can be obtained from the Managers at any time prior to submission of the tender for purpose of furnishing proper quotations.

8. TIME FOR COMPLETION OF WORK :

Time shall be of the essence in the performance of this Contract. The Yard represents and warrants that it has no commitments which will prevent it from putting the vessel into Dry dock for completing the Work timeously and agrees that it will not undertake any such commitments. The Yard undertakes that it shall give the highest priority to the Work and any Additional Work and shall not assign a higher priority to any other work which may interfere with its diligent prosecution of Work and any Additional Work. MANAGER would have the right to increase the scope of work given in the Specifications up to 10% without allowing any increase in time originally quoted by the CONTRACTOR.

In the event the total time taken to complete the dry-docking, repairs, overhauls, modifications or renewal, as described in the specification, as well as any additional work / increase in scope





of work given in specification against which no additional time has been agreed as per Clause 6 above, exceeds the time stipulated by the Contractors in their tender, the amount of penalty specified in the instructions to bidders i.e. US\$ 9,000 / day for first 5 days, and US\$ 14,000 / day after first 5 days, shall be deducted from the contract price on PDPR basis, as an agreed sum by way of liquidated damage for such extra time. The total liquidated damages shall not be more than Twenty percent (20%) of the final repair invoice.

9. EXTRAS AND CREDITS :

Any work detailed in the specification which, for any reason, is not carried out, is to have a credit allowed in accordance with the price scale of the tender. Any work carried out which is in addition to that specified in the tender, will be charged at unit rates not exceeding those given in the tender.

10. OVERHAUL OF VALVES, MOTOR AND PUMPS:

a. VALVES :

The terms "OVERHAUL" when applied to valves, will cover, opening up and reassembling, grinding-in of valve lid and seat, renewal of gland studs, cover studs and nuts (as necessary), and renewal of gland packing and cover jointing, unless otherwise stated by the MANAGERS. For ship side valves, prior to the vessel leaving, and with the dry-dock partially flooded and the vessel still on blocks, all sub-merged ship side valves and disturbed piping to be checked for operation, leakages etc. and any defects to be rectified.

b. A.C. MOTORS ETC :

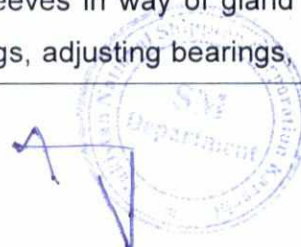
The terms "OVERHAUL" applied to A.C Motors and Alternators cover dismantling, cleaning, testing all insulation, re-varnishing and baking stator, renewing bearings (MANAGERS supplied) and re-assembling, unless otherwise stated by the MANAGERS.

c. D.C MOTROS ETC :

The term "OVERHAUL" applied to D.C Motors, Generators etc. to cover dismantling, cleaning, testing all insulation, re-varnishing and baking Armature and Coils, renewing bearing, (Owner's supplied), machining, Commutator, under-cutting micas, cleaning and resetting brush and reassembling, unless otherwise stated by the MANAGERS.

d. CENTRIFUGAL PUMPS :

The term "OVERHAUL" applied to Centrifugal Pumps is to cover dismantling of pump, checking clearances of bearing and wear rings, renewing shaft sleeves in way of gland packing, packing glands, and machining impeller in way of wear rings, adjusting bearings,





re-assembling and testing pumps, unless otherwise stated by the MANAGERS.

e. RECIPROCATING PUMPS :

The term "OVERHAUL" applied to reciprocating pumps to cover removal of motor, if required, dismantling of pumps, machining Piston and Bucket Rod, renewing neck and gland bushes, machining Piston and Bucket Ring grooves and renewing rings, renewing packing and jointing, overhauling the Suction and Discharge valves, Valve Spring and guards, re-assembling and testing pumps, unless otherwise stated by the MANAGERS.

11. SIZES AND MEASUREMENTS:

All sizes given in the specification are given in good faith, but not guaranteed. Also all sketches given in the specification are for tender purpose only. Contractors are to take their own measurement and be responsible for same. Any clarification may also be obtained from Managers.

12. LIGHTING, ACCESS AND LAGGING :

Where pipes are disturbed for renewal, repair, or access, all joints and flanges' bolts and nuts are to be renewed at yard's cost with yard supplied materials. Also all lagging that is removed or damaged in gaining access to pipe work or machinery is to be replaced or made good.

The Contractor shall be responsible at his own expense for the provision of sufficient lighting and safe access for work on deck, tanks, cargo spaces, machinery spaces and wherever required for the entire duration of repairs.

13. The tender must cover and include the work as specified herein and all necessary removals in way thereof necessary to facilitate such work, even though such removals may not be specified in detail, all at Contractor's cost. All removals to be replaced in good order.

14. The specification is for the repairs, renewal, and /or alterations to be affected and to cover the supply of all labor, machinery materials, equipment and spare parts required for the Contractor to complete the items of work herein (except all items of machinery, materials, equipment and spare parts specified to be furnished by the MANAGERS.

15. Any structural parts specified to be renewed can be restored to their original condition by fairing etc. Also any parts to be removed for fairing which can be faired in place to the satisfaction of Owner's Representative will be accepted. Any parts found broken in removal of fairing will be renewed by Contractor at his own expenses.



Handwritten signature or mark in blue ink.



16. All repairs, alterations and /or betterment specified herein are to be carried out and completed by the Contractor to meet the requirement of the Classification Society and Owner's satisfaction.

All workmanship and material will be of the best quality and any dispute of opinion as to the interpretation of the specification regarding the quality of material and /or workmanship shall be left to the decision of the MANAGERS Representative or any other competent authority whose decision will be final and binding.

17. Any particulars of the work involved specified herein are given only for the guidance of the Contractor, who will be held responsible for the securing of all dimensions and details, the intent of the specification being to restore the vessel condition.

18. In case of the vessel's machinery equipment or fittings being used by the Contractor for any purpose, he shall be held responsible for any damages losses which will be made good at his own expenses.

19. The Contractor's liability will commence from the time the vessel is delivered to shipyard and would cease upon satisfactory performance of all repaired items and re-delivery of vessel to MANAGERS.

20. Should any of the material required for carrying out specified work satisfactorily be not available with the Contractors, the Contractor must ensure that it is brought to the Owner's attention at the time of submission of tender. In certain cases, where specified material may not be procurable, the MANAGERS would consider equivalent material, prior to deciding upon accepting the Contractor's tender or in some cases, prior to completion of work.

21. The Contractor shall take out adequate and proper insurance, covering workmen's Compensation Act applicable (or in lieu shall secure the payment of compensation provided for, by any such acts or in other manner approved by the terms of such acts), it being definitely understood that all workmen engaged upon the work hereunder shall at all times be employees of the Contractor or its Sub-Contractors and not employees of the Owner and shall indemnify the Owner against and hold Owner harmless from all claims and damages, arising from injuries to any person or persons (except employees of the MANAGERS, unless such employee is injured through negligence of the Contractor) or from damage to any property of Shipyard used in connection with repairs, renewals, alterations, dry docking, and operation of the vessel until satisfactory completion of all work as per this specification and other supplementary repairs as approved by MANAGERS.

22. For our accounting and processing, final invoices to be arranged as under:





- a. Each item of work to be given Owner's job code and job serial number.
 - b. The repair specification including item number as indicated to the contractor, to be completely written up as the first part of the invoice with individual prices.
 - c. All extra work carried out must be included in second part of the invoice with serial and Group code numbers as supplied by MANAGERS Representative.
 - d. The covering sheet should show net total charges which should be mutually agreed between MANAGERS Representative and Contractor in completion of repairs.
 - e. Charges for all individual items must be shown separately.
 - f. For all damage repairs carried out, separate invoices should be prepared and must be endorsed by Underwriters before forwarding to MANAGERS.
 - g. Original and one copy of Invoice will have to be submitted.
 - h. Invoices must accompany the work certificates duly signed by vessel's Master and Chief Engineer, and also one original copy of the additional scope of work and rates agreed between Managers and Contractor for all those jobs which are not mentioned in these specifications (duly signed by Contractor and Managers Representative).
23. Tender must specify the time required by the Contractor, in consecutive calendar days, to execute the specification. Consecutive calendar days by definition will include weekends and Holidays.

24. ARBITRATION

Any claims, demands, cause of action, controversies, dispute(s) in relation to any matter connected with or arising out of this contract including any question regarding its existence, breach, validity or termination and not amicably settled between the parties themselves shall be referred to arbitration by appointing two Arbitrators, one each to be appointed by the two parties, and the said Arbitrators shall appoint an Umpire before entering upon the reference, and the award of the two arbitrators or the Umpire, as the case may be, shall be final and binding on both the parties. The arbitration shall be governed by the Arbitration Act 1940 as modified or re-enacted and in force from time to time. The venue of arbitration shall be at Karachi, Pakistan.

25. PAYMENT TERMS

- 30% of final agreed invoice upon completion of repairs.
- 20% of final agreed invoice after 30 days of completion of repairs.
- 20% of final agreed invoice after 60 days of completion of repairs.
- 20% of final agreed invoice after 90 days of completion of repairs.
- 10% of final agreed invoice after 120 days of completion of repairs.





26. Tender must be addressed to:

PAKISTAN NATIONAL SHIPPING CORPORATION,
PNSC BUILDING,
MOULVI TAMIZUDDIN KHAN ROAD,
P.O.BOX : 5350
KARACHI
PAKISTAN
FAX : 92 21 9203974 – 5636658
PHONES : 00 92 21 99203980-99 (20 LINES)
EMAIL : shalamar.drydock@pnsc.com.pk

"IN WITNESS THE WHEREOF, the parties hereto have signed this Contract and has caused the common seal to be affixed on the Contract in the manner hereinafter appearing on the day and year first here-in-above written."

For and Behalf of Pakistan National Shippi
Corporation (PNSC)

For and on Behalf of _____
(Contractor)

Signature: _____

Signature: _____

Name: _____

Name : _____

Designation: _____

Designation: _____

Telephone No: _____

Telephone No: _____



Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
		RUDDER INTERNAL COATING. Option - a 1) The lower rudder plug is to be removed. 2) If the rudder is found to be dry the plug is to be replaced, using new shipyard supplied joint and properly sealed with appropriate sealer provided by the shipyard. A vacuum box test should be applied to each removed plug 3) Staging to be included separately in each case (3X4X8)CUB FEET. 4) Rudder pitting area to be rebuilt. 5) If leakage found separate quotation for fitting 6) Bearing replacement/ Bearing repaired Option - b 1. Should the rudder be found to have water ingress then the bottom plug is to be replaced and upper plug removed. 2. The rudder is to be completely filled with fresh water and checked for leakage. A pressure test to 0.25kg/cm2 is to be performed. 3. Drain the rudder and fill with approved (yard supply) non flammable anti-corrosion liquid. Rudder is then to be completely refilled and drained with fresh water at least twice to assure complete coverage of all internal surfaces. 4. Allow replacing all plugs to the satisfaction of owner representative. A vacuum box test should be applied to each removed plug. 5. Removed & refitting of Rudder.					
64	72	PLEASE QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLIED MATERIAL INCLUDING STAGGING	Job		1.00		
65	73	QUOTATION FOR REPAIR/RENEWAL OF LEAKAGE FOUND TILL OWNER SATISFACTION	Job		1.00		
		HULL ANODES It is required to lay weld 200 pieces of 20 kg. Alum. zinc anodes on ship's hull in way of stern frame, rudder, and sea chests. In your quotation allow for a staging of up to 8 meters x ten towers to install new anodes and removal of old anode brackets and masking new anodes to protect them from paint. Please quote your price for this job on the basis of anodes.					
66	74	04 X 04 FT HEIGHT 10 MTRS A) QUOTATION FOR RENEWAL WITH OWNER SUPPLIED MATERIAL. STERN TUBE SEAL Stern tube bearing and tail shaft are to be cleaned and made ready for inspection of surveyor and owners representative. The tail shaft taper is to be examined using magnaflex to the satisfaction of surveyor and owners representative.	Per Pc		200.00		
67	75	PLEASE QUOTE LUMPSUM FOR ABOVE JOB & INCLUDING TRANSPORTATION FROM AND TO SHIP. CLOSE CHOCKS LEADS/MOORING BITS GROOVES TO BE REPAIR 1. 36 NOS GROOVES TO BE REPAIRED BUILD UP AS PER STANDARD REQUIREMENT. STAGING REQUIRED OUT SIDE THE VESSEL FOR EACH JOB 2. APPROX 25MTR HEIGHT STAGING REQUIRED. 3. 04 X 04 FT STAGGING REQUIRED FROM OUTSIDE ABOUT 25 MTRS HEIGHT.	Per Pc		10.00		
68	76	PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING STAGING PER m3 .	Per Pc		25.00		
69	77	03-08 MAIN DECK RAILING TOP PIPE OUTER DIA=35 MM, TOTAL 200m REQUIRED MIDDLE PIPE OUTER DIA=20MM, TOTAL 100m REQUIRED 1. RAILING AT 30 POINTS THINNED DOWN (200 MTRS TO BE RENEWED). 2. NO STAGGING REQUIRED. 3. AFT PORT SIDE RAILING BEND (APPROX LENGTH 3 MTRS TO BE RENEWED) . A SINGLE PRIMER TO BE APPLIED FOR FABRICATED RAILINGS. PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	PER M		200.00		
70	77	LIFEBOAT & LIFE RAFT CHECKER PLATE LIFE RAFT: 7x7 mtrs (02 Nos) Thickness= 8mm 1. LIFE RAFT PORT AND STBD EMBARKATION PLATFORMS TO BE RENEWED. 1.1 Both the raft securing and slinging platforms are badly corroded and holed. 03-09 2. ABOUT 3-4 MTR STAGGING REQUIRED. 3. PORT & STBD LIFEBOAT CHECKER PLATE 6' X 4' WIDTH 42" 4. PORT & STBD LIFERAFT CHECKER PLATE 7'1" X 7'1" 5. LIFE RAFT SUPPORT FOUNDATION 430MM X 300MM X 300MM (TRIANGULAR) 16 Nos. LIFE BOAT: 8' X 4' (02 Nos) THICKNESS= 8mm 1. PORT & STBD LIFEBOAT CHECKER PLATE TO BE RENEWED.					
71	78	PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING STAGGING	Job		1.00		
		03-10 MONKEY ISLAND LIGHT POST RUSTED/ DETACHED AT POINTS 1. WEAKEN LGTHS TO BE REPLACED 2. BROKEN FIXTURES TO BE REPAIRED/REPLACED 3. COMPLETE RENEWAL OF THE BROKEN LIGHTS AND FIXTURES 4. SINGLE PRIMER COAT TO BE APPLIED AFTER REPAIR 5. APPROX 10 m2 RUSTED.					
72	79	PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR REPAIR WITH YARD SUPPLIED MATERIAL INCLUDING COST FOR STAGING.	Job		1.00		
		03-11 BUNKER AIR VENTS(PIPE) 1) BUNKER AIR VENTS ON DECK RENEWAL, LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW 20 NOS BUNKER AIR VENTS BASE TO BE RENEWED. NO STAGGING REQUIRED. 2) DRIP TRAY BUNKER VENT ON DECK TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW NO STAGGING REQUIRED. DETAILS AS BELOW 3) FUEL OIL TANK PORT VENT PIPE O/D=170MM L=350MM 4) DRIP TRAY DIESEL OIL TANK PORT VENT PIPE O/D=115MM L=350MM 5) D/O TANK VENT PORT PIPE O/D=90MM X 350M 6) F/W VENT STBD PIPE O/D=90MM X 520MM 7) D/O TANK STBD VENT PIPE O/D=115MM X 400MM 8) F/O TANK STBD VENT 2 PIPE O/D=165MM X 360MM 9) 1 F/O TANK STBD VENT PIPE O/D=170MM X 350MM 10) SEPARATELY QUOTE PRICE FOR SINGLE PRIMER COAT PER SQUARE METRE/PER UNIT LENGTH 11) REMOVAL TRANSFER TO THE YARD WORKSHOP FOR REPAIR/RENEWAL PLEASE QUOTE LUMPSUM FOR ABOVE JOB. QUOTATION FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	Job		1.00		
74	80	PLEASE QUOTE LUMPSUM FOR ABOVE JOB. QUOTATION FOR RENEWAL WITH YARD SUPPLIED MATERIAL	Job		1.00		
		03-12 SOUNDING PIPE 1. FLOODING HIGH SUCTION VALVE STBD PIPE O/D=170MM X 130MM 2. 1 F/O SOUNDING PIPE STBD PIPE O/D=90MM X 330MM 3. 1 F/O TANK BUNKER SOUNDING PORT PIPE O/D=266MM X 260MM 4. 2 F/O TANK BUNKER SOUNDING PORT PIPE O/D=266MM X 260MM 5. F/O SOUNDING PIPE PORT PIPE O/D=90MM X 330MM 6. SHORE CONNECTION PORT PIPE O/D=90MM X 500MM 7. BILGE SHORE CONNECTION PORT PIPE O/D=62MM X 540MM 8. ME L/O TANK PORT PIPE O/D=78MM X 530MM 9. TURBINE L/O PORT PIPE O/D=55MM X 530MM 10. C.L.O TANK PORT PIPE O/D=90MM X 550MM 11. D/O TANK STBD PIPE O/D=100MM X 350MM 12. F/O TANK 2 STBD PIPE O/D=100MM X 400MM 13. D/O TANK STBD SOUNDING PIPE O/D=270MM X 260MM 14. D/O TANK SOUNDING PIPE STBD PIPE O/D=78MM X 350MM 15. F/O BUNKER SOUNDING STBD PIPE O/D=266MM X 260MM 16. SEPARATELY QUOTE PRICE FOR SINGLE PRIMER COAT PER SQUARE METRE/PER UNIT LENGTH 17. REMOVAL TRANSFER TO THE YARD WORKSHOP FOR REPAIR/RENEWAL 18. FABRICATED NEW & FIX BACK					
75	81	A) PLEASE QUOTE LUMPSUM FOR ABOVE JOB, QUOTATION FOR RENEWAL & REPAIR WITH YARD SUPPLIED MATERIAL, INCLUDING TRANSPORTATION. DECK SEAL LINE 1. DECK SEAL LINE ON DECK RENEWAL, LINES TO BE REMOVED 2. SHIFTING TO YARD. 3. FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. 4. DETAILS AS BELOW OUTER DIA=25MM LENGTH=Hm, OUTER DIA=50MM LENGTH=H+3 MTRS. NO STAGGING REQUIRED. 5. SEPARATELY QUOTE PRICE FOR SINGLE PRIMER COAT PER SQUARE METRE/PER UNIT LENGTH	Job		1.00		
76	82	A. PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING TRANSPORTATION. PORT AND STBD MANIFOLD DRIP TRAYS & DRAIN LINES DRIP TRAY: Length=, width=, thickness= 1. Drip tray bottom plates to be renewed (Length=16 M, Breadth=2 M & Thickness=8 MM, Height=0.65 M) 2. Removal & shifted to yard. 3. Fabricate new & fix back. 4. SEPARATELY QUOTE PRICE FOR SINGLE PRIMER COAT PER SQUARE METRE/PER UNIT LENGTH DRIP TRAY DRAIN LINE: Length= 30m, Line Outer dia= 90mm, Flange Size= 186 mm, P.C.D= 152mm, No. of Bolts= 08, Bolt size= 24mm I. DRIP TRAYS DRAIN LINE PORT/STBD RUSTED AT PENETRATION. II. REMOVE AND SHIFTED TO YARD III. FABRICATE NEW AND FIX BACK PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING TRANSPORTATION.	M		5.00		
77	83	PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING TRANSPORTATION. DRIP TRAY DRAIN LINE: Length= 30m, Line Outer dia= 90mm, Flange Size= 186 mm, P.C.D= 152mm, No. of Bolts= 08, Bolt size= 24mm I. DRIP TRAYS DRAIN LINE PORT/STBD RUSTED AT PENETRATION. II. REMOVE AND SHIFTED TO YARD III. FABRICATE NEW AND FIX BACK PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING TRANSPORTATION.	M		30.00		

	Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
		03-15	SEA CHEST GRATINGS Nine nos. Sea Chest gratings size as below. Located on hull to be opened cleaned, painted and fitted back with yard supplied s/steel fixing studs. Please allow for staging, about 20 cubic meter for each grating. Quote your lump sum price for complete job including material cost. E/R High suction Sea Chest Stbd 2 x (80x 80 CM) E/R Low suction Sea Chest Port 2 x (80x 80 CM) Pump Room Sea Chest Port 2 x (95 x 95 CM) Pump room Sea Chest Stbd 2 x (80x 80 CM) Emergency Fire PIP Stbd 1 x (24.50 Sq. CM)					
78	84		PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL, INCLUDING STAGGING & TRANSPORTATION. MAKER: SHI. L x B x D: 235mm x 42mm x 21.30mm BALANCING RATIO: 0.278 SIZE / AREA : 66.50MP MAX HELM ANGLE : 35 RUDDER CLEARANCE AND MEASUREMENT SURVEY 1.1 Inspection and calibration rudder bearing bushes, steering gear, jumping stopper. 1.2 Inspection rudder stock and lower pintle nuts locking arrangements. 1.3 Inspection of rudder structure, coating protection. 1.4 Air test of rudder blade. 1.5 Class survey and sea trials. 04 X 04 FT STAGGING	Per Pc	5.00			-
79	85		PLEASE QUOTE LUMPSUM FOR ABOVE JOB , INCLUDING STAGGING	JOB	1.00			-
		03-17	Keyless propeller as per manufacturer's instructions Manufacturer: NAKASHIMA PROPELLER CO.LTD TYPE: 6 BLADES SOLID HSP 29.9 SKEW , KEYLESS DIAMETER 6.650 MTRS DIAMETER PITCH :4.940 M. PROPELLER REPAIR AND POLISHING + POLISHING + CLASS SURVEY + ROPE GUARD REMOVAL FOR ACCESS, REPAIR, TREATMENT AND ANODES RENEWAL. STAGGING REQUIRED 50X21 METRES + 110 M3 2) NDT - Dye penetrant test of the propeller, complete area both sides. 3) Cold repair in way of erosion areas - "per m2" (4 blades 400 x 400 mm, each).	Job	1.00			-
80	86		PLEASE QUOTE FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS WITH STAGGING.	Job	1.00			-
81	87		2) NDT - Dye penetrant test of the propeller, complete area both sides.	Job	1.00			-
82	88		3) Cold repair in way of erosion areas - "per m2" (4 blades 400 x 400 mm, each).	Job	1.00			-
		03-18	WAKE: SUMITOMO HEAVY INDUSTRIES CO., LTD. TAILSHAFT AND STERN TUBE BEARING & SEALS (FWD & AFT) INSPECTION & OVERHAULING Remove keyless propeller as per manufacturer's instructions Manufacturer: NAKASHIMA PROPELLER CO.LTD TYPE: 6 BLADES SOLID HSP 29.9 SKEW , KEYLESS DIAMETER 6.650 MTRS DIAMETER PITCH :4.940 M. INTERMEDIATE SHAFT: 8.600MMX495MM I.D. MASS 13,990 KG PROPELLER SHAFT: 7.200MMX500MM I.D. MASS 15,100 KG Shaft seals:Wartsila Japan. Co. Ltd AFT SEALS DWG: CL54-9030 FWD SEALS DWG: CL54-9030 Scope of work. 1.1 One off intermediate shaft removal for access. 1.2 One off tail shaft removal for inspection, NDT and Class Survey. 1.3 One off intermediate bearings open for access, inspection and Class Survey (under separate repair specification). 1.4 Removal, inspection and re-conditioning of propulsion shafts flanges and flange Hydraulic coupling boltnuts. 1.5 Removal, inspection and re-conditioning of shaft grounding system.					
83	90		PLEASE QUOTE LUMPSUM FOR ABOVE JOB WITH OWNER SUPPLIED MATERIAL,INCLUDING TRANSPORTATION CHARGES.	Job	1.00			-
		03-19	Tailshaft Weight : 15100kgs, Diameter : 590 mm, Length : 7,290 mm, Intermediate Shaft, Weight : 13990 kgs, Diameter : 495 mm, Length : 3600 mm, Shaft seals:SUMITOMO HEAVY INDUSTRIES CO.LTD PROPULSION SHAFTING JACK-UP TEST Scope of work. 4 off measurement to be planned : + Aftoff, prior docking; + on blocks, before repair; + on blocks, after repair; + Aftoff, after undocking - same draft condition.					
84	91		PLEASE QUOTE LUMPSUM FOR ABOVE JOB INCLUDING YARD SUPPLY MATERIALS.	JOB	1.00			-
		03-20	INTERMEDIATE SHAFT BEARING (FORCED LUB TYPE) JOURNAL DIA : 500mm WEIGHT : 860KG INTERMEDIATE SHAFT BEARING 1) Scope of work. 1.1 One off intermediate shaft bearing upper cover removal for access and Class Survey witnessed by Second Engineer. 1.2 Bearing to be cleaned, calibrated and white metal ultrasonic bonding tested. 1.3 Bearing seal, cooling and lubrication systems examination and alarms tested. 1.4 Bearing shell working surface mechanical imperfections, if any, carry out dressing.					
85	92		PLEASE QUOTE LUMPSUM FOR ABOVE JOB	JOB	1.00			-
		03-21	EQUIPMENT PROTECTION DURING REPAIRS 1) Scope of Work 1.1) Protection covering on main deck, engine room and pump room 1.2) Supply of protective material - plastic sheet, plywood, tarpaulin 1.3) Cleanliness - provide mopwater and cleanroom material.					
86	93		PLEASE QUOTE LUMPSUM FOR ABOVE JOB INCLUDING YARD SUPPLY MATERIALS.	JOB	1.00			-
		03-22	PROPULSION SHAFTING LASER ALIGNMENT 1) Scope of Work 1.1) 2 off measurement to be planned on blocks, before repair 1 and on blocks 'after repairs'. 1.2) Opening and closing of intermediate bearing covers, calibration, NDT 1.3) Yard arrangement of the measurement instruments and tools - calibrated & Certified. Implementation by highly qualified and certified Engineer.					
87	94		PLEASE QUOTE LUMPSUM FOR ABOVE JOB INCLUDING YARD SUPPLY MATERIALS.	JOB	1.00			-
		03-23	Maker: THE NIPPON CORROSION ENGINEERING CO LTD MODEL : CAP-48A(SCR) CLASS: ABS Wetted surface area: 12510 m2 for Hull, 49 m2 for propeller, Current density capacity : 30 mA/m2 for Hull, 600 mA/m2 for Propeller Maximum current capacity : 450 Amps CAPAC (AUTOMATICALLY CONTROLLED IMPRESSED CURRENT) 1) Scope of Work 1.1 Inspection and calibration under Service Engineer supervision. 1.2 Provide assistance to Service Engineer. 1.3 Protection covering.					
88	95		A. PLEASE QUOTE LUMPSUM FOR ABOVE JOB INCLUDING YARD SUPPLY MATERIALS.	JOB	1.00			-
			Sub Total					
4			SECTION - 04 CARGO AND BALLAST TANKS					
		04-01	NO.1 -5 PORT, STBD & FORE PEAK & AFT PEAK BALLAST TANK Assume following quantity: 1. Steel Plates : 150,000 KG 2. Angle Bar:100,000 KG 3. Round Bar: 25,000 KG 4. Sq. Bar : 25,000 KG 5. Inspect ladders and where damaged to be repaired. 6. Quote for each steps of ladder. Assume 20 steps 7. Width = 360mm 8. Distance b/w two steps 78 mm 9. Sides flat bar 35 x 6 mm, length =20m 10. Center sq. Bar 22 x 22 mm how many =08 NOS 11. Inspect coatings and damages to be patched up / painted after surface preparation. a. Estimate for 600 sq.mtr. 12. Wbt sounding pipes to be checked for any leakages 13. Lines to be blanked for work/hot work 14. Lines blank to be removed after completion of job. 15. 02 x 02 ft stagging required fro height 20 mtrs 16. WBT filling lines to be pressure test and repair / renewal as required. 17. WBT valves / dresser coupling to be tested for operation and attended as required.					

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
88	96	PLEASE QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLIED MATERIAL INCLUDING STAGGING, TRANSPORTATION .	TON	300.00			-
	04-08A	POWER TOOLING AND COATING OF BALLAST TANKS 1. Surface condition inspection to be carried out and all corroded and stained areas to be marked and mapped out for mechanical treatment. Spots power tooling and feathering to be carried out of the coating damaged areas as identified by owner's representative, using staging for inspection access. 2. Power tooling required on ballast tanks 1w,2w,3w,4w,5w, FPK & APK3. Also required on main deck, funnel area, engine room housing & Accommodation Area 4. COATING TO APPLIED AS PER OWNER DIRECTION APPROX AREA 20M2 IN EACH TANK FOR COATING AND POWER TOOLING					-
90	97	A. QUOTE FOR ABOVE JOB LUMPSUM INCLUDING POWER TOOLING AND COATING FRESH WATER TANK Detailed Specification: i. FRESH WATER TANK TO BE CLEANED AREA=75m2 ii. INTERNAL COATING AS REQUIRED AREA= 20m2 04-08 B iii. Quote for each Steps of Ladder: Assumed 10 steps iv. width = 360MM v. Distance BW two steps 78 mm vi. Sides flat bar 35 X 6mm, length= 10m vii. Center Sq. Bar 22 X 22mm, pcs= 5 viii. FW sounding pipes OGD= 40mm, Length= 15m to be checked for any leakages	TANKS	14.00			-
91	98	A. PLEASE QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS. DISTILLED WATER TANK i. DRINKING WATER TANK TO BE CLEANED AREA=75 m2 ii. INTERNAL COATING AS REQUIRED AREA= 20m2 iii. Quote for each Steps of Ladder: Assumed 10 steps iv. width = 360MM v. Distance BW two steps 78 mm vi. Sides flat bar 35 X 6mm, length= 10m vii. Center Sq. Bar 22 X 22mm, pcs= 5 viii. Inspect coatings and damages to be patched up / painted after surface preparation. ix. Estimate for : 20wmc	JOB	1.00			-
	04-08 C	04-08 C i. DRINKING WATER TANK TO BE CLEANED AREA=75 m2 ii. INTERNAL COATING AS REQUIRED AREA= 20m2 iii. Quote for each Steps of Ladder: Assumed 10 steps iv. width = 360MM v. Distance BW two steps 78 mm vi. Sides flat bar 35 X 6mm, length= 10m vii. Center Sq. Bar 22 X 22mm, pcs= 5 viii. Inspect coatings and damages to be patched up / painted after surface preparation. ix. Estimate for : 20wmc					-
92	99	A. PLEASE QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS. FOUNDATION ANGLE FOR SENSOR FOR SENSOR PIPE SUPPORT 1. ANGLE BAR NEAR 5 W.B PORT ANGLE SIZE + ANGLE BAR NEAR 7 PORT/ 5 W.B ANGLE SIZE + ANGLE BAR NEAR 4 PORT/ 3 W.B ANGLE SIZE + ANGLE BAR NEAR 2 W.B PORT ANGLE SIZE + ANGLE BAR NEAR 2 W.B STBD ANGLE SIZE +50MM X 50MM X 72M 2. ANGLE BAR NEAR 6 PORT/4 W.B ANGLE SIZE + ANGLE BAR NEAR 3 W.B STBD ANGLE SIZE + ANGLE BAR NEAR 5 W.B STBD ANGLE SIZE +40MM X 40MM X 47M 3. ANGLE BAR NEAR 5 PORT/ 4 W.B ANGLE SIZE + ANGLE BAR NEAR 3 PORT/ 3 W.B ANGLE SIZE + ANGLE BAR NEAR 2 PORT/ 2 W.B ANGLE SIZE + ANGLE BAR NEAR 1 PORT/ 1 W.B ANGLE SIZE + ANGLE BAR NEAR 1 W.B PORT ANGLE SIZE + ANGLE BAR NEAR 1 W.B STBD ANGLE SIZE + ANGLE BAR NEAR 1 W.B STBD MIDDLE ANGLE SIZE +30MM X 30MM X 101M 4. ANGLE BAR NEAR 1 W.B STBD ANGLE SIZE=100MM X 100MM X 12M 5. ANGLE BAR NEAR 3 W.B STBD MIDDLE ANGLE SIZE + ANGLE BAR NEAR 3 W.B STBD MIDDLE ANGLE SIZE + ANGLE SIZE =80MM X 80MM X 42M 6. ANGLE BAR NEAR 5 W.B ANGLE SIZE=80MM X 80MM X 10M & 70MM X 70MM X 3M 7. ANGLE BAR NEAR 4 W.B STBD ANGLE SIZE=70MM X 70MM X 13M 8. ANGLE BAR NEAR 4 W.B STBD ANGLE SIZE=70MM X 70MM X 13M PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL,INCLUDING TRANSPORTATION, SEPARATELY QUOTE PRICE FOR SINGLE PRIMER COAT PER SQUARE METRE/PER UNIT LENGTH	JOB	1.00			-
93	100	COT & WBT MANHOLES COVERS MANHOLE COVERS ON DECK RENEWAL TO BE REMOVED, SHIFTING TO YARD, FABRICATE AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW OUTER DIA= 20mm, Length= 50mm, Pipe Ring Bore= 21mm (4 PC REQ.) OUTER DIA= 15mm, Length=40mm, Pipe Ring Bore=16mm (2 PC REQ.) TOTAL SAME SIZE HANDLE=24, EXTRA=24,BAR SIZE=20MM, PIPE BORE=21MM					-
	04-10	04-10 MANHOLE COVERS ON DECK RENEWAL TO BE REMOVED, SHIFTING TO YARD, FABRICATE AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW OUTER DIA= 20mm, Length= 50mm, Pipe Ring Bore= 21mm (4 PC REQ.) OUTER DIA= 15mm, Length=40mm, Pipe Ring Bore=16mm (2 PC REQ.) TOTAL SAME SIZE HANDLE=24, EXTRA=24,BAR SIZE=20MM, PIPE BORE=21MM					-
94	101	A. QUOTE FOR ABOVE JOBS YARD SUPPLY MATERIAL INCLUDING TRANSPORTATION & FIRST COAT OF PRIMER. CARGO OIL TANKS (1W,2W,3W,4W,5W & SLOP P & S & ROT) TOTAL 13 TANKS 1. Please give your lump sum rate for Cleaning of Cargo Oil Tanks (hard hand scrapping) per m2, in case required for safety purpose for carrying oil steel hot works in adjacent Water Ballast Tanks. 2. Quote Cost of staging separately per m3. 3. Cost should include all necessary costs like lighting, ventilation, cleaning after etc. 4. Assume cleaning area of 100 sq. Meter each in three Cargo Oil Tanks, and staging of 1,800 m3 in each tank 5. To renew 50tons of Class approved Steel of small pcs. At various locations in Cargo Oil Tanks depending on results of U/T gauging. Lump sum rate to be quoted on basis of per KG of steel irrespective of size / weight. 6. Power tooling if required 7. Tank cleaning & Democking required 8. Approx. 20 cubic mtr per tank for democking 9. Coating to be applied as required 10. Lines to be blanked for workshop work 11. Lines blank to be removed after completion of job 12. COT valves / dresser coupling to be tested for operation and attended as required. 13. COT filling lines to be pressure test and repair / renewal as required.	Per Pc	88.00			-
95	102	A) PLEASE QUOTE LUMPSUM FOR STEEL RENEWAL.	TON	100.00			-
96	103	B) PLEASE QUOTE LUMPSUM FOR ABOVE JOB QUOTATION FOR TANKS CLEANING WITH YARD SUPPLIED CLEANING MATERIAL.	TANKS	16.00			-
	04-12	DECK SEAL & NR/V DECK SEAL: 1. DECK SEAL CLEANING & INSPECTION TO BE CARRIED OUT 2. INTERNAL COATING REQUIRED AREA= 3.5 m2 3. IF OBSERVED THINNED DOWN FABRICATE NEW AREA ABOUT m2 IG- NR/V: BUTTERFLY VALVE DIA=400MM a) NR/V TO BE OVERHAULED b) NR/V REMOVED SHIFTED TO YARD c) FABRICATE NEW AND FIX BACK					-
97	104	A) PLEASE QUOTE LUMPSUM FOR ABOVE JOB QUOTATION FOR RENEWAL WITH YARD SUPPLIED MATERIAL. A.U.S LINE 1. A.U.S LINE TO DRAIN TANK RENEWAL, LINES TO BE REMOVED. 2. SHIFTING TO YARD. 3. FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. 4. DETAILS AS BELOW A) NO. OF FLANGE=08, FLANGE SIZE=269MM, P.C.D=230MM, PIPE SIZE=169MM X 1MTR, ALBOW SIZE=169MM, NO. OF ALBOW=04, BOLT SIZE=16 X 70 X 24, TOTAL BOLT=32 PIECES 5. LEAKAGE TEST 6. PRESSURE TEST TO BE CARRIED OUT	JOB	1.00			-
98	105	A) RENEWAL OF PIPES WITH YARD SUPPLIED MATERIALS QUOTE FOR RENEWAL WITH PER UNIT LENGTH PIPE, FLANGE & NUT & BOLTS YARD SUPPLIED BELL MOUTH 1. BELL MOUTH COTE: 1. All cargo tanks bell mouth to be removed from place and bottom plating area to be inspected. 2. Rebuilt if required 3. All bell mouths to be refitted with new gaskets. DIA : 350 MM TOTAL : 10 NOS. DIA - 300 MM TOTAL : 02 NOS DIA - 200 MM TOTAL : 01 NOS 2) BELL MOUTH WBTs: 1. Ballast tanks bell mouths to be removed from place and bottom plating to be inspected. 2. Rebuilt if required 3. All bell mouths to be refitted with new gaskets. DIA : 400 MM TOTAL : 02 NOS. DIA - 300 MM TOTAL : 08 DIA - 200 MM TOTAL : 01 DIA - 80 MM	JOB	1.00			-
99	106	A) QUOTE LUMPSUM FOR ABOVE JOBS, INCLUDING AREA CLEANING BALLAST TANKS INSPECTION AND GAUGING and staged as per surveyors requirement for close up inspection, gauging of under deck. TANK CAPACITY (IN CU-M) liq meter FORE PEAK 2291m³ NO.1 P&S 275602 m³ NO.2 P&S 261862 m³ NO.3 P & S 516562 m³ NO.4 P&S 515562 m³ NO.5P&S 336862 m³ A.P.T 575 m³ P.W TANK 172m³ Kindly quote per cu-m and charges for total staging. Assume total staging of 2,000m3. Kindly quote for power tooling in above tanks. (approx. = 9242 m²) Quote for Man power (8 men per day for 6 hours)	JOB	1.00			-
100	107	PLEASE QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING STAGGING.	JOB	1.00			-

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		INSTALLATION OF ANODES IN BALLAST TANKS To install zinc anodes in all ballast tanks (location and no. Of anodes to be installed will be designate by superintendent). NET WEIGHT = ABOUT 16.8 K.G GROSS WEIGHT= ABOUT 17.5 K.G TYPE= Z-16BSR FORE PEAK 20 NO:1 P & S 90 NO:2 P & S 161 NO:3 P & S 81 NO:4 P & S 81 NO:5 P & S 74 AFT PEAK 22 TOTAL ANODES 529 PCS NET MASS 8887 K.gs GROSS MASS 9257 K.gs					
101	108	PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH OWNER SUPPLIED MATERIAL.	UNIT COST	240.00			-
		FPK/CHAIN LOCKER EDUCTOR The fire peak/chain locker eductor requires to be removed for inspection. Please allow for the following: 1. Remove eductor from pipe line. 2. Remove eductor to shore workshop. 3. Internal surfaces to be cleaned and condition assessed by owner's representative and attending Surveyor. 4. Eductor to be disassembled and then rebuilt after recording nozzle dimensions. 5. Allow for preparing damaged sections of coating to SA 2.0 and painting with three coats of vessel supplied paint. 6. Return to vessel and refit to working condition using new shipyard supplied joints, nuts and bolts. To lift the eductor chain blocks and lifting equipment will be required.					
102	109	PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL, INCLUDING TRANSPORTATION	JOB	1.00			-
		BALLAST WATER EXCHANGE VIV INSPECTION & OVERHAULING Ballast water exchange valves within ballast water tank to be inspected and to be overhauled by Yard Butterfly Valve size 250 mm Total no of vivs ----- 10 The above valves to be removed and transported to workshop. Valves to be dismantled, overhauled and pressure tested in presence of ships representative. Coating to be applied in the housing and butterfly. Hydraulic actuator to be tested by applying pressure.					
103	110	PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL, INCLUDING TRANSPORTATION.	Job	1.00			-
		Sub Total					
5		SECTION - 05 CARGO SYSTEMS AND PIPING					
		CARGO STRIPPING EDUCTOR INSPECTION The cargo stripping eductor requires to be removed for inspection. Please allow for the following: 1. Remove eductor from pipe line by disconnecting three flanges. The flanges are 10", 12" and 14" eductor length is 2400mm. 2. Remove eductor to shore workshop. 3. Internal surfaces to be cleaned and condition assessed by owner's representative and attending Surveyor. 4. Eductor to be disassembled and then rebuilt after recording nozzle dimensions. 5. Allow for preparing damaged sections of coating to SA 2.0 and painting with three coats of owner supplied paint.					
104	111	PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	NOS	1.00			-
		ANNUAL OVERHAULING OF CRANE BLOCKS ALL DECK LIFTING APPLIANCES INCLUDING CHAIN BLOCKS, CARGO HOOKS, CARGO BELTS, SAFETY HARNESS, SNOTTER TO BE INSPECTED & LOAD TESTED WITH CERTIFICATION. CHAIN BLOCKS CB001-SWL 1.0 TON, CB002-SWL 1.0 TON, CB003-SWL 3.0 TON, CB004-SWL 3.0 TON CARGO HOOKS CH001-SWL 12.8 TON, CH002-SWL 7.0 TON, CH003-SWL 7.0 TON, CH004-SWL 7.0 TON CARGO BELTS i-CBL001-SWL 2.0 TON/V=3200LBS, CH=2500LBS, VB=6400LBS, L=1.5M ii-CBL002-SWL 2.0 TON/V=3200LBS, CH=2500LBS, VB=6400LBS, L=1.5M iii-CBL003-SWL 2.0 TON/V=3200LBS, CH=2500LBS, VB=6400LBS, L=1.5M iv-CBL004-SWL 7.0 TON/V=10000LBS, CH=8000LBS, VB=20000LBS, L=8.0FT v-CBL004-SWL 7.0 TON/V=10000LBS, CH=8000LBS, VB=20000LBS, L=8.0FT SAFETY HARNESS SH001-SWL 140KG, SH002-SWL 140KG, SH003-SWL 140KG, SH004-SWL 140KG, SH005-SWL 140KG SNOTTER SN001-SWL 1.0 TON, SN002-SWL 2.0 TON, SN003-SWL 3.0 TON, SN004-SWL 4.0 TON, SN005-SWL 8.0 TON, SN006-SWL 8.0 TON					
105	112	QUOTATION FOR ABOVE INCLUDING LOAD TEST	JOB	1.00			-
		HYDRO/GRIT BLASTING MAIN DECK MAIN DECK: 1. Grit Hydro blasting of main deck around accommodation block and poop deck area: approx area 150 sq. mtr. 2. To be chemical cleaned, high pressure washing, primer and top coat to be applied 3. To be painted as required. 4. For G Area= 200 sq.mtr 5. Main Deck= 500 sq.mtr 6. Main Deck piping= 50 sq.mtr 7. Pipe supports= 50 sq.mtr 8. Poop Deck= 250 sq.mtr 9. Around Accommodation block port/star= 1200 sq.mtr WINDLASS & WINCHES: a. 02 NOS WINDLASSES & 06 NOS MOORING WINCHES TO BE GRIT/HYDRO BLASTED					
106	113	PLEASE QUOTE LUMPSUM FOR ABOVE JOB, WITH OWNER SUPPLY PAINTS, CHEMICAL AND OTHER EQUIPMENTS YARD SUPPLY	M2	2,400.00			-
		STEAM LINE SUPPLY VALVE LINE OUTER DIA=200mm, Flange size=400mm, No. of Bolt=12, Bolt Size= 30mm, P.C.D=354mm 1. Deck main steam line supply vlv to be overhauled, pressure tested in work shop and fitted back.					
107	114	PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH OWNER SUPPLIED MATERIAL.	JOB	1.00			-
		VALVE OVERHAULING FOAM ROOM: Diameter 250 mm, Type: globe 1. Fire line main isolating valve in foam room to be overhauled. 2. Removal and shifted to yard 3. Seat to be rebuilt. 4. Pressure test DECK MANIFOLD VALVES: i. Cargo line master Dia=450mm, Type= Butterfly on deck to be overhauled. ii. Cargo lines drop valves Dia=450mm Type= Butterfly to be overhauled. iii. Manifold cross over valves Dia=450mm Type= Butterfly to be overhauled iv. Manifold valves Dia=450mm Type= Butterfly to be over hauled. v. Goose neck valves Dia=125mm Type= Butterfly to be over hauled. vi. Manifold Drain valves Dia=125mm Type= Butterfly to be over hauled. vii. Drip tray drain valves Dia=50mm Type= Butterfly to be over hauled. AUS TO DRAIN TANK: i. 02 NOS AUS to DRAIN tank Valves Dia=150mm Type= Butterfly overhauling BALLAST OVERBOARD: i. 02 nos ballast overboard valves Dia=450mm Type= Butterfly to be overhauled. Staggering (3-5 m) required as per overboard valve height. ii. Removal and shifted to yard iii. Seat to be rebuilt.					
108	115	PLEASE QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL IF REQUIRED.	NOS	12.00			-
		PUMP ROOM EXHAUST DUCT FRAME AND MESH WIRE Pump room exhaust duct frame and mesh wire to be renewed (Yard supplied material). Section side: Mesh assembly divided in 8 sections within: Outer dia:2.45m approx. =5.0sq. q.mtr Inner dia: 1.45m approx. = 2.0sq.mtr Exhaust side: Mesh assembly divided in 8 sections outer dia: 3m approx. = 7.5 sq.mtr STAGGING ABOUT 3 MTR HEIGHT					
109	116	QUOTATION FOR REPAIR & RENEWAL WITH YARD SUPPLIED MATERIAL, INCLUDING STAGGING.	JOB	1.00			
		BULKHEAD MASTER VALVES (PUMP ROOM) MAKE = NAKARTTA, TYPE = BUTTERFLY HYDRAULIC OPERATED SIZE = 550 MM VIV NOS. 201,202,203 To open, inspect, pressure test and fit back, seat rings to renew if required. 1. Flange rating = JIS 16K Pg/30 2. WORKING Pressure = 10 KG/CM2 3. Dwg. No. PB13 -E 7600 4. Total no. of valves ----- 03 5. N.B. No spare seat rings onboard. 6. Removal shifted to yard 7. Overhaul & fit back 8. Certificate required					

	Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
110	117		A) PLEASE QUOTE LUMP SUM FOR ABOVE JOB QUOTATION FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	NOS	1.00			-
111	118		B) SEPARATE QUOTE FOR OVERHAULING INSTU WITH OWNER SUPPLY SPARES.	NOS	1.00			-
		05-08	OVERHAULING OF CARGO LINE VALVE Following cargo/ballast line vlv's in pump room to be overhauled and seat ring to be inspected and change if required & Valve Seat to be rebuilt if required. Functioning Test. Pump room Manual crossover, suction & Stop PIS COT reduction Valve: 1. Valve size = 150 mm dia Total no 01 Type= Butterfly (CZ-260) 2. Valve size = 200 mm dia Total no 15 Type= Butterfly (CS-218,220,226,237,243,248,254,259,265,259, WBT-253,254,256,WD-281) TOTAL NO 08(DRAIN VIV ON MNFOLD) CS- 307,308,309,310,311,312,315,316 3. Valve size = 250 mm dia Total no 08 Type= Butterfly (CS-252,212,213,214,215,216,217 WS-286) TOTAL NO 01 (ON DECK) CS-328 HYDRAULIC CARGO SUCTION VALVE: 4. Valve size = 650 mm dia Total no 03 Type= Butterfly (WB - 271,279,277) 5. Valve size = 550 mm dia Total no 02 Type= Butterfly (WB - 278,278) 6. Valve size = 500 mm dia Total no 14 Type= Butterfly (CO-223,224,225,226,227,228,230,231,220,221,222,201,202,203) HYDRAULIC CARGO DISCH VALVE: 7. Valve size = 450 mm Total no 06 Type= Butterfly (CO-204,205,206 WB-272,273,263) PNEUMATIC CARGO DISCH VALVE: 8. Valve size = 400 mm Total no 08 Type= Pneumatic (CS-246,247,248,249,250,251 WB-274,275) NON-RETURN SUCTION VALVE WBP: 9. vlv's ballast line= 300 mm dia total 03 Type= Non-return (WT-207,208 WS-286) PUMP ROOM STRIPPING BILGE VALVE: 10. Screw down non-return vlv's stripping line = 100mm dia total 03 Type= butterfly (018 vcs,017 vcs,015 vcs.)					
112	119		QUOTE FOR OVERHAULING WITH OWNER SUPPLIED MATERIAL.	UNIT COST	20.00			-
		05-09	OVERHAULING OF CARGO LINE NON RETURN VALVES NON-RETURN VALVE: (A) vlv's cargo line = 450 mm dia Total 03 Type= Non-return (240,241,242 vcs) Please allow for each of the following valves: 1. Furnish labour, equipment and material to remove and transport to shore workshop the flap non return valves located in pump room. 2. Striptown valve, cleaning all parts and renewal of shipyard supplied rubber seat ring. 3. Renewal of shipyard supplied valve seat ring. 4. Removal of valve spindle bushes and for the manufacturing and fitting of new phosphor bronze bushes. 5. Machining of new stainless steel spindle to correct dimensions. 6. Rebuilding valve body pitting with welding. 7. Grit blasting of valves and coating with owner's supplied tar epoxy after any repairs to the body. 8. Allow for light staging for each check valve to a height of 1 meter. 9. Allow for pressure test to the satisfaction of owner's representative and attending Surveyor. 10. Valves are to be refitted upon completion using new joints. Upon completion four copies of pressure test certificates are to be forwarded to vessel's Superintendent. All joints, extra nuts and extra bolts are from Ship yard supply. Access is good with chain blocks and lifting gear.					
113	120		A) PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIAL.	JOB	1.00			-
		05-10	DECK STEAM LINE ISOLATION VALVE & CARGO HEATER LINE Deck Steam line isolation vlv on main deck to be removed and overhauled, pressure tested in work shop and fitted back. 1. APPROX 180 mts line to be renewed 2. 60 NOS. Valves to be overhauled (30 nos. Supply) & (30 nos. Return) 3. Cargo Heater Steam line isolation vlv at pump room bulk head to be removed and overhauled, pressure tested in work shop and fitted back.					
114	121		A) PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIAL.	JOB	1.00			-
		05-11	MAKER : POLARMARINE SCANDINAVIA AB INC MODEL : PJ120 TYPE: SINGLE NOZZLE COW MACHINE (17 NOS. DECK MOUNTED) OVERHAUL 1. Cow machines on deck overhauling, machines to be removed, shifting to yard & to be fix back with new gaskets yard supplied. Details as below. 2. 24 nos Deck mounted cow machines to be overhauled. 3. 08 nos Bottom mounted cow machines to be overhauled. 4. No staggering required.					
115	122		A) PLEASE QUOTE FOR ABOVE JOB QUOTATION FOR YARD SUPPLY MATERIAL.	NOS	32.00			-
		05-12	HYDRAULIC VALVES COTS & WBTS CARGO OIL TANK: Valves to be removed, serviced and their seats to be renewed. 1. 1W,2W,3W,4W,5W, SLOP PORT & STBD & ROT 2. MAIN VALVE DIA=350mm, Total= 11 NOS, Type Butterfly Valve 3. MAIN VALVE DIA=400mm, Total= 06 NOS, Type Butterfly Valve 4. MAIN VALVE DIA=250mm, Total= 04 NOS, Type Butterfly Valve 5. MAIN VALVE DIA=200mm, Total= 06 NOS, Type Butterfly Valve WATER BALLAST TANK: 1) FPK, 1W, 2W, 3W,4W,5W, & APK 2) FPK MAIN VALVE DIA=200mm, Total= 01 NOS, Type Butterfly Valve 3) MAIN VALVE DIA=300mm, Total=08 NOS, Type Butterfly valve 4) MAIN VALVE DIA=350mm, Total= 1 NOS, Type Butterfly Valve 5) MAIN VALVE DIA=400mm, Total= 02 NOS, Type Butterfly Valve 1. Removal and shifted to yard 2. Seat to be rebuilt. 3. Overhauled & fix back 4. Pressure test 5. Actuators of all above valves to be overhauled which includes 6. Pistons to be applied plasma coating and machined to size. 7. Hydraulic oil seals to be renewed 8. System to be checked for satisfactory operations..					
116	123		A) PLEASE QUOTE FOR ABOVE JOB FOR OVERHAULING OF VALVES YARD SUPPLY MATERIAL	NOS	75.00			-
		05-13	TYPE = PRESSURE / VACUUM BREAKER RATING = + 1632 / -350MM AQUA COTS PV VALVES & PV BREAKER TO BE OVERHAUL COTS PV Valves: Total No 13 TYPE : PRESSURE / VACUUM VALVE RATING : + 1632 / -350 MM AQUA Remove PV valves, gauge body, overhaul valves and renew wire mesh with yard supplied material as per specs. Valves to be tested in presence of ships representative. After firm testing to be brought back and fitted in place. 1) 13 NOS PV VALVES TO BE OVERHAULED / NEW SAMPLING POINTS TO BE FABRICATED 2) VACUUM SIDE MESH TO BE RENEWED PV Breaker Type= Pressure / Vacuum Breaker Rating = + 1800 / 700MM Aqua 1. PV breaker outer body to gauge for thickness & renew as required.					
117	124		A) PLEASE QUOTE FOR ABOVE JOB QUOTATION FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING REMOVAL & TRANSPORTATION TO & FROM VESSEL	PER UNIT COST	16.00			-
		05-14	I.G. MAIN LINE Renew 116M L x 400mm D SCH 80 Pipe. FOR I.G LINE PIPE COUPLING FLEX 19". RING-L254MM(STYLE 11) HOT RLD STEEL Dresser couplings total 09.No. of bolts 10(in each coupling). 1. I.G main line on deck renewal 2. Removal and shifted to yard 3. Fabricate new and to fix back with new gaskets yard supplied. 4. Pressure test 5. Bolts to be removed and sealant joints to be renewed (yard supplied)					
118	125		A) QUOTATION FOR RENEWAL WITH YARD SUPPLIED MATERIAL	M2	20.00			-
		05-15	DRESSER COUPLINGS OF CARGO / MARPOL/ STEAM/ FOAM/ELECTRIC/ COW/ BUNKER/BALLAST/FRESH WATER/SEA WATER/ FWD SEA WATER LINES I. CARGO LINE: L=270MM, FLANGE SIZE=580MM, NO. OF HOLE=12, P.C.D=536MM, PIPE O/D=460MM II. MARPOL LINE: L=255MM, FLANGE SIZE=235MM, NO. OF HOLE=04, P.C.D=195MM, PIPE O/D=140MM III. STEAM LINE: DRESSOR COUPLING SPECIAL NO.1 INLET, NO.2 OUTLET IV. FOAM LINE: L=255MM, FLANGE SIZE=325MM, NO. OF BOLT=06, P.C.D=290MM, PIPE O/D=218MM V. ELECTRIC LINE: BOLT SIZE=16 X 24 X 310MM, NO. OF HOLES=06, L=260MM, FLANGE SIZE=322MM, P.C.D=285MM (LINES REQUIRED 02 Nos.) VI. COW LINE: L=260MM, FLANGE SIZE=320MM, NO. OF HOLE=06, P.C.D=290MM, PIPE O/D=218MM VII. BUNKER LINE: L=255MM, FLANGE SIZE=325MM, NO. OF BOLT=06, P.C.D=290MM, PIPE O/D=220MM VIII. FRESH WATER LINE: L=250MM, FLANGE SIZE=205MM, NO. OF HOLE=04, P.C.D=175MM, PIPE O/D=115MM IX. SEA WATER LINE: L=255MM, FLANGE SIZE=235MM, NO. OF BOLT=04, P.C.D=195MM, PIPE O/D=140MM X. FWD SEA WATER LINE: L=250MM, FLANGE SIZE=200MM, NO. OF HOLE=04, P.C.D=170MM, PIPE O/D=115MM I. Removal and shifted to yard II. Seat to be rebuilt. III. repair & fix back IV. Pressure test V. separately quote prices for single primer coat per square metre per unit length.					

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119	126	PLEASE QUOTE LUMP SUM FOR RENEWAL WITH YARD SUPPLY MATERIAL INCLUDING COST OF TRANSPORTATION.	Job	1.00			-
	05-16	TYPE : CAST IRON VALVE : BUTTERFLY MAKE : NAKAKITA I.G. MAIN LINE ISOLATION V/V IG ISOLATION V/V MAIN DECK:- 1. IG Isolation valve on deck renewal 2. Removal and shifted to yard 3. To be fix back with new gaskets yard supplied 4. Pressure test 5. separately quote price for single primer coat per square metre per unit length.					
120	127	PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR OVERHAULING IN PLACE.	JOB	1.00			-
	05-17	VALVE : BUTTERFLY MAKE : NAKAKITA I.G BRANCH LINE VALVES 13 NOS IG VALVE SEAT RING TO BE CHANGED LINE DIA=200MM BOLTS=16 NO. OF HOLE/BOLT=08 Flange = steel JIS 5kg/cm2 Note: No spare seat rings on board. I.G Branch line valves: 1. Removal and shifted to yard 2. Seat to be rebuilt and fix back					
121	128	PLEASE QUOTE LUMP SUM FOR OVERHAULING VALVE WITH YARD SUPPLY SPARE PARTS.	Job	1.00			-
	05-18	LINES PRESSURE TESTING 1. CARGO LINES (03 NOS. Size 450 mm, 3 x 108m) TO BE PRESSURE TESTED 2. COW LINE (Size 200mm, 215m) TO BE PRESSURE TESTED 3. MARPOL LINE (DIA= 125mm, LENGTH= 105m) TO BE PRESSURE TESTED 4. I.G LINE (DIA= 400mm, LENGTH= 215m) TO BE PRESSURE TESTED 5. BUNKER LINE (Size 200mm, 108m) TO BE PRESSURE TESTED 6. FIRE LINE (Size 200mm, 250m) AND FOAM LINE (Size 200mm, 195m) TO BE PRESSURE TESTED 7. STEAM LINE (Inlet Size 250mm, 210m/Outlet Size 125mm, 210m) TO BE PRESSURE TESTED 8. CARGO LINE UNDER DECK TILL COT FILLING VALVES					
122	129	PLEASE QUOTE LUMP SUM FOR ABOVE JOB. CERTIFICATE TO SUPPLY AFTER TESTING.	JOB	1.00			-
	05-19	CARGO SEA CHEST VALVES OVER HAULING Over hauling of cargo sea chest valves. Cargo sea chest vlv s 02 no. To be overhauled and to be tested size 550 mm dia (v/v no.CO 230 & CO 231). 1. Removal and shifted to yard 2. Seat to be rebuilt. 3. Overhauled & Fix back 4. Pressure test 5. separately quote price for single primer coat per square metre per unit length 6. Certificate required					
123	130	PLEASE QUOTE FOR O/H ON BOARD	PER UNIT COST	2.00			-
	05-20	BALLAST SEA CHEST VALVE OVER HAULING OF Ballast SEA CHEST VALVES Ballast sea chest valves 01 nos. to be overhauled and to be tested V/V SIZE 500mm (WBC 277) 1. Removal and shifted to yard 2. Seat to be rebuilt. 3. Overhauled & Fix back 4. Pressure test 5. separately quote price for single primer coat per square metre per unit length 6. Certificate required					
124	131	PLEASE QUOTE FOR OVERHAULING OF VALVE IN PLACE	PER UNIT COST	2.00			-
	05-21	MAKER: NAKAKITA SEISAKUSHO ENGINEER LTD VRC HIGH PRESSURE LINES VRC HIGH PRESSURE LINE (SCHEDULE 160): 1. VRC HIGH PRESSURE LINE (SCHEDULE- 160) ON DECK RENEWAL 2. LINES TO BE REMOVED. 3. SHIFTING TO YARD. 4. FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. 5. VRC H-PRESSURE LINE OUTER DIA 50MM, LENGTH 100M (01 FLANGE DETAILS AS BELOW I. LENGTH 300 MTR , OUTER DIA=50mm, No. of Flange=60, U-bolt size=50mm II. PIPE DIA SIZE=50mm, High pressure square flange OD=100mm, P.C.D=96mm, Nut & Bolt Size=16 x 100 x 24, NO. Of Bolts=4 III. LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT WITNESS BY OWNER REPRESENTATIVE.					
125	132	QUOTE FOR RENEWAL OF PIPES WITH YARD SUPPLIED MATERIAL.	JOB	1.00			-
	05-22B	FW LINE AT ACCOMMODATION BULKHEAD PENETRATION 1. FRESH WATER LINE OUTER DIA 50MM, LENGTH 50CM (01 FLANGE) 2. LINES TO BE REMOVED. 3. SHIFTING TO YARD. 4. FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. 1.5-2.0 MTR STAGGING REQUIRED					
126	133	PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL PER UNIT LENGTH	M	1.00			-
	05-23	MAST RISER 1. Mast riser baffle to be removed and shifted to yard 2. Fabricate new and to fit back 3. separately quote price for single primer coat per square metre per unit length 4. Mast riser valve to be overhauled 5. Mast riser mesh to be changed 6. Mast riser breather valve +1400 MMWG/350MMWG to be overhauled 7. Stagnation AB required					
127	134	PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	JOB	1.00			-
	05-24	HYDRAULIC LINES COVERING ANGLE GUARD BARS APPROX LENGTH 300 MTRS HYDRAULIC LINES COVERING ANGLE BARS TO BE RENEWED. HYDRAULIC LINE ANGLE GUARD COVER M.S ANGLE 1-1/4" 120 FEET, M.S ANGLE 1-1/2" 120 FEET, M.S ANGLE 2" 120 FEET, M.S ANGLE 2-1/2" 120 FEET, M.S NUT & BOLTS 8MM X 25MM, M.S NUT & BOLTS 10MM X 40MM.					
128	135	PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	MTR	300.00			-

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	05-25	BALLAST LINE EDUCATOR The ballast line Educator requires to be removed for inspection. Please allow for the following: a. Remove Educator from pipe line. b. Remove Educator to shore workshop. c. Internal surfaces to be cleaned and condition assessed by owner's representative. d. Educator to be disassembled and then rebuilt after recording nozzle dimensions. e. Allow for preparing damaged sections of coating to SA 2.0 and painting with three coats of vessel supplied paint. f. Return to vessel and refit to working condition using new shipyard supplied joints, nuts and bolts.					
129	130	PLEASE QUOTE FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	JOB	1.00			-
	05-26	COW MAIN & BRANCH LINE COW MAIN & BRANCH LINE ON DECK RENEWAL, LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW : A) APPROX LENGTH 350 MTRS COW MAIN & BRANCH LINES TO BE CHANGED (SCHEDULE 40) B) OUTER DIA=90mm, Length=531.35cm, No. of flange=120, U-bolt size=90mm,Nut & Bolt size= 20X70X30, P.C.D= 160mm C) OUTER DIA=150mm, Length=87cm LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED ABOUT 1.5-2.0 MTRS STAGGING REQUIRED. OUT WITNESS BY OWNER					
130	137	ARENEWAL OF PIPES PER UNIT LENGTH WITH YARD SUPPLIED MATERIALS FLANGE GASKET, NUT & BOLTS YARD SUPPLIED	M	369.00			-
	05-27	WILDON PUMP SUCTION LINE WILDON PUMP SUCTION LINE ON DECK RENEWAL, LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) APPROX 60 MTRS WILDON PUMP SUCTION LINE(PORT & STBD) TO BE CHANGED B) OUTER DIA=60mm, Length=170 cm, No. of flange=30, U-bolt size= 65mm X 10, Bolt size= 12mm X 60mm X 19mm, Flange size Outer Dia= 130mm, P.C.D=150mm, No. of Hole= 04 LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED. NO STAGGING REQUIRED. OUT WITNESS BY OWNER REPRESENTATIVE.					
131	138	RENEWAL OF PIPES WITH YARD SUPPLIED MATERIALS QUOTE FOR RENEWAL WITH PER UNIT LENGTH PIPE, FLANGE & NUT & BOLTS YARD SUPPLIED, INCLUDING TRANSPORTATION	M	60.00			-
	05-28	CONDUIT LINE 1. CONDUIT LINE TO BE RENEWED 2. CONDUIT LINE TO BE COVERED WITH GRP COATING. 3. LINE REMOVAL & WIRE TO BE SECURED 4. SEPARATELY QUOTE PRICE FOR SINGLE PRIMER COAT PER SQUARE METRE/PER UNIT LENGTH FORWARD OF ACCOMODATION TOTAL LENGTH=184m 15-2.0 MTR STAGGING REQUIRED. I. CONDUIT BRANCH LINE ON DECK OF 50mm(REG 118MTR) II. CONDUIT BRANCH LINE ON DECK OF 60mm(REG 24MTR) III. CONDUIT BRANCH LINE ON DECK OF 80mm(REG 21MTR) IV. CONDUIT BRANCH LINE ON DECK OF 50mm(REG 21MTR) AFT OF ACCOMODATION TOTAL LENGTH=44m 15-2.0 MTR STAGGING REQUIRED. a) CONDUIT BRANCH LINE ON DECK OF 40mm(REG 7MTR) b) CONDUIT BRANCH LINE ON DECK OF 50mm(REG 7.5MTR) c) CONDUIT BRANCH LINE ON DECK OF 80mm(REG 9.2MTR) d) CONDUIT BRANCH LINE ON DECK OF 50mm(REG 7MTR)					
132	139	PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL	M	30.00			-
133	140	QUOTE FOR WIRE REMOVAL AND RE FIXING AFTER LINE FABRICATION	M	1.00			-
	05-29	POWER PACK HYDRAULIC LINES POWER PACK PRESSURE LINE: PRESSURE LINE O.D.A=65mm SCHEDULED 160 08 NOS. APPROX 150 mtrs MAIN POWER PACK HYDRAULIC LINES TO BE RENEWED. POWER PACK RETURN LINE: RETURN LINE O.D.A=100 mm SCHEDULED 40 08 NOS. APPROX 150 mtrs MAIN POWER PACK HYDRAULIC LINES TO BE RENEWED. 15-2.0 MTR STAGGING REQUIRED MAIN POWER PACK HYDRAULIC LINES: 1) REMOVAL AND SHIFTED TO YARD 2) FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. A. PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING TRANSPORTATION					
134	141	PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING TRANSPORTATION	M	400.00			-

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	05-30	SLUDGE LINE SLUDGE LINES TO BE RENEWED. SLUDGE LINE: 9 MTR SLUDGE LINE ON DECK RENEWAL, LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) LENGTH 5 MTR, OUTER DIA=62mm, No. of Flange=16, U-bolt size=65mm B) LENGTH 4 MTR, OUTER DIA=132mm, P.C.D=105mm, No. of bolts= 4... STAGGING REQUIRED APPROX 3'2MTR, LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT WITNESS BY OWNER REPRESENTATIVE.					
135	142	A.PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR RENEWAL FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	M	10.00			-
	05-31	FIRE & FOAM HYDRANT/FOAM MONITOR FIRE HYDRANT (10 NOS.) & FOAM HYDRANT(07 NOS.) OVERHAULING: I. TO BE REMOVED AND SHIFTED TO YARD 2. OVERHAULED & FIX BACK WITH NEW GASKETS YARD SUPPLIED 3. SEPARATELY QUOTE PRICE FOR SINGLE PRIMER COAT PER SQUARE METRE/PER UNIT LENGTH ABOUT 1.5-2.0 MTR STAGGING REQUIRED FOAM MONITOR(08 NOS.) OVERHAULING: I. TO BE REMOVED AND SHIFTED TO YARD II. OVERHAULED & FIX BACK WITH NEW GASKETS YARD SUPPLIED III. SEPARATELY QUOTE PRICE FOR SINGLE PRIMER COAT PER SQUARE METRE/PER UNIT LENGTH					
136	143	A. PLEASE QUOTE LUMP SUM FOR ABOVE JOB QUOTATION FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	JOB	1.00			
	05-32	MANIFOLD'S DRAIN LINE (CARGO) 1) MANIFOLD DRAIN LINE (CARGO) PORT & STBD LINE SAME SIZE ON DECK RENEWAL. 2) LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. ABOUT 1.0 MTR STAGGING REQUIRED. DETAILS AS BELOW A) LENGTH 5.20 MTR ,OUTER DIA=140mm to be renewed B) Length Size=195mm, No. of Flange=12, P.C.D=150mm, Pipe size=92mm, Bolt Size=16X70X24 Flange Size=275mm.No. of Flange=34,P.C.D=225mm,Pipe size=142mm, Bolt Size=20 X 70 X 30 C) LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT WITNESS BY OWNER REPRESENTATIVE.					
137	144	PLEASE QUOTE LUMP SUM FOR ABOVE JOB QUOTATION FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	M	6.00			-
	05-33	HEATING COILS 1. ALL HEATING COILS IN CARGO OIL TANKS TO BE PRESSURE TESTED AND INSPECT FOR LEAKAGE 2. TOTAL TANKS=13 3. CARGO OIL TANKS (1W,2W,3W,4W,5W, HAVE 4.SETS OF HEATING COILS DIA=36.0 mm 5. SLOPPY HAS 2 SETS OF HEATING COILS DIA=36.0 mm 6. SLOPPY HAS 4 SETS OF HEATING COILS DIA=36.0 mm 7. Pipe dia : sch. 40/80 both to be quoted separately					
138	145	PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL, INCLUDING TRANSPORTATION	PER TANK	16.00			-
139	146	QUOTATION FOR RENEWAL WITH OWNER SUPPLIED MATERIAL	PER TANK	1.00			-
	05-34	DECK AIR LINE APPROX 180 mtrs length (dian 45 MM) to be renewed. 1.5-2.0 MTR STAGGING REQUIRED. DECK AIR LINE ON DECK RENEWAL: 1. Removal and shifted to yard 2. Fabricate new and to fix back with new gaskets(yard supplied) 3. Pressure test					
140	147	PLEASE QUOTE LUMP SUM FOR ABOVE JOB QUOTATION FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	M	2.00			-
	05-35	DECK AIR VALVES AND THEIR COVER ON DECK 1. 08 NOS DECK AIR VALVES AND THEIR COVER ON DECK TO BE RENEWED. 2. NO STAGGING REQUIRED. 3. Removal and shifted to yard 4. Seat to be rebuilt. 5. Overhauled & Fix back 6. Pressure test 7. separately quote price for single primer coat per square metre/pe unit length					
141	148	PLEASE QUOTE FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	PER UNIT COST	8.00			-
	05-36	MARPOL LINE MARPOL LINES TO BE RENEWED. MARPOL LINE: MARPOL LINE ON DECK RENEWAL, LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) APPROX 120MTRS TO BE RENEWED(SCHEDULE 80) B) OUTER DIA=92mm, Length=95cm C) OUTER DIA=142mm, Length=830cm, Flange size=280mm, P.C.D=225mm, U-Bolt Size=142mm, No. of bolts per flange=08, Total bolts=50, Total flange=08 LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT.					
142	149	RENEWAL OF PIPES WITH YARD SUPPLIED MATERIALS QUOTE FOR RENEWAL WITH PER UNIT LENGTH PIPE,FLANGE GASKIT & NUT & BOLTS YARD SUPPLIED.	M	5.00			-
	05-37	MAKE: SHINKO IND.LTD. TYPE: RX1, TURBINE SHAFT SPEED: 7128 RPM, OUTPUT: 1111 KW STEAM PRESSURE: 15 KG/cm2 CARGO PUMP TURBINE INSPECTION AND SURVEY (03 Nos) 1. Remove the following external attachments: Gearbox; over speed arrangement; lube oil pipes; Sensor cabling; thermometers; instrumentation, lube oil pump etc. 2. Remove gearbox Allen head screws (42) and swing open cover door to expose gearing. 3. Remove bearing covers (4) and record clearances. Bearing covers are fixed with 4 x m6 castle nuts secured with split pins. Clearances to be recorded using lead wire. 4. Replace bearing covers and torque castle nuts to required value. Shipyard to supply replacement split pins to secure castle nuts. 5. Gear wheel teeth to be inspected and checked for correct.Contact by using engineer's blue. 6. Clean teeth and casing sealing surfaces. 7. Close covers using new joints / sealing compound as Necessary. 8. Replace external attachments, gearbox, over speed arrangement, lube oil pipes; sensor cabling; thermometers; instrumentation etc. 9. Close up to be to the satisfaction of attending owner's representative. 10. Remove steam casing cladding and lagging to expose turbine casing. 11. Remove casing drain pipe lines, gland steam lines and other associated pipe work. 12. Remove alien head screws (36) to allow turbine casing to be removed. 13. Carefully slide off split casing to expose rotor blades for inspection by attending surveyor. 14. Upon completion of inspection replace split casing and tighten alien head screws to required torque.					

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		15. Replace drain pipe lines and other removed pipe work. 16. Upon successful testing of the pump turbine replace lagging and cladding. Any joints to be shipyard supplied. Upon completion of the repair four copies of the repair four copies of the clearances to be forwarded to the attending superintendent					
143	150	Quote lumpsum for above job.Yard to arrange Maker authorize SE to carry this Job.	JOB	1.00			-
	05-38	Shinko Model Governor Maker : WOODWARD Type UG100 Part Number : L8528653 Governor RPM : 600-1262 CARGO PUMP TURBINE GOVERNORS – OVERHAUL (03 NOS) 1. Governors to be removed from vessel and transported to / from authorizedWoodward service contractor. 2. Units to be fully serviced with maker's spare kits supplied by owner/service contractors, including shutdown solenoid and speed adjustment motor. Spare parts to be owner's supply. 3. Service engineer to attend for final adjustments during CQPT trials. Service engineer costs to be included in shipyard cost. Upon completion of the repair four copies of the repair four copies of the clearances to be forwarded to the attending superintendent					
144	151	Please Quote Yard To arrange Maker authorize workshop to carry this job.	Per Governor	3.00			-
	1-May	FIRE LINE FIRE LINE ON DECK RENEWAL. LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) APPROX 120MTRS TO BE RENEWED LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT. WITNESS BY OWNER REPRESENTATIVE.					
	152	Quote lumpsum for above job.Yard to arrange Maker authorize SE to carry this Job.	Job	1.00			-
		Sub Total					
6		SECTION - 06 ACCOMMODATION AND NAVIGATIONAL AIDS					
	06-01	MAKER: TOKIMEC TYPE: HB165A-S SERIAL NO: N3920 MAGNETIC COMPASS Magnetic compass service and overhauling to be done and later compass to be adjusted and error removed.Maker authorized technicians attendance required.					
145	153	YARD TO ARRANGE MAKER AUTHORIZE SE TO CARRY THIS JOB.	JOB	1.00			-
	06-02	STERN LIGHT LINE / PROTECTION ELCT./BOX LINE/ EMERGENCY GENERATOR VENT LINE 1. STERN LIGHT LINE ON DECK RENEWAL. LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK ABOUT 1 MTR STAGGING REQUIRED. DETAILS AS BELOW OUTER DIA=80MM LENGTH=1m. 2. PROTECTION ETA BOXLINE ON DECK RENEWAL. LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK ABOUT 1 MTR STAGGING REQUIRED. DETAILS AS BELOW OUTER DIA=80MM LENGTH=1m. OUTER DIA=40MM LENGTH=1m. 3. EMERGENCY GENERATOR VENT LINE ON DECK RENEWAL. LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW OUTER DIA=80MM LENGTH=1m. OUTER DIA=80MM LENGTH=13m. ABOUT 2.0-3.0 MTR STAGGING REQUIRED.					
146	154	PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL.	JOB	1.00			-
	06-03	MAKER: JAPAN RADIO CO.LTD MODEL: JCY-1180 SERIAL NO: MB32323 BRIDGE EQUIPMENT Equipment to be serviced by maker's authorized contractor. 1. GMDSS EQUIPMENT MAKER JRC MODEL JHS 7 & 32B 2. ANAEMO METER MAKER: OCEAN TECH MODEL: JUNLU AMC 72B 3. VDR MAKER JRC MODEL: NCG-169 4. SCREEN WIPERS					
147	155	A. PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR SERVICED WITH MAKER'S APPROVED TECHNICIAN.	JOB	1.00			-
	06-04	MAKER MODEL TOKIMEC GYRO COMPASS A. Master GYRO to be service by maker authorised tech. Bridge wings port & stbd Gyro repeaters BASE NEED TO BE FABRICATE, GYRO REPEATER ON WINGS. SIZE AS BELOW Bottom size O.D=280mm, Foundation thickness=20mm, Centre size O.D=164mm, Upper Body Size O.D= 372mm, No. of bolts=04, Bolt size= 24mm					
148	156	PLEASE QUOTE LUMP SUM FOR ABOVE JOB & FOR SERVICED WITH YARD SUPPLIED SPARES.	JOB	1.00			-
	06-05	ACCOMODATION DRAIN PIPES ACCOMODATION DRAIN PIPES RENEWAL: 1. 25 NOS APPROX 300 MTRS. ACCOMODATI DRAIN PIPES 2. DIA=50mm LENGTH=100m, 3. DIA=50mm LENGTH=50m, 4. DIA= 40mm LENGTH=50m TO BE RENEWED 5. 2.0-3.0 MTR STAGGING REQUIRED. I. Removal and shifted to yard II. Fabricate new and to fix back III. separately quote price for single primer coat per square metre/per unit length					
149	157	PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH STAGGING & YARD SUPPLIED MATERIAL, INCLUDING TRANSPORTATION.	JOB	1.00			-
	06-06	ACCOMODATION WASHROOM TILES 06 NOS ACCOMODATION WASHROOM TILES TO BE CHANGED. TOTAL AREA PER WASHROOM= 1660 X 1260 mm2 TOTAL AREA= 15.0DM1 m2 TILE SIZE= 70 x 70 mm2 TOTAL TILES REQUIRED FOR AREA= 15.0 m2 1) Removal of old tiles 2) Cleaning of debris and transportation to yard 3) Fixing of new tiles					
150	158	A. PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLIED MATERIAL.	JOB	1.00			-

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		SUPER STRUCTURE & FUNNEL HYDRO BLASTING/GRITBLASTING & PAINTING SUPERSTRUCTURE: 1) ALL SUPER STRUCTURE AREA TO BE HYDROBLAST/GRITBLAST. 2) STAGGING REQUIRED 3) SURFACE TO BE PREPARED FOR PRIMER & PAINT APPLICATION TWO COAT. 4) SEPARATELY QUOTE PRICE FOR SINGLE PRIMER COAT PER SQUARE METRE FUNNEL: I. ALL FUNNEL AREA TO BE HYDROBLAST/GRITBLAST. II. STAGGING REQUIRED – III. Funnel : 900 m3 IV. Engine room housing: 900 m3 V. Funnel top : 50 m3 VI. Total : 1,850 m3 VII. SURFACE TO BE PREPARED FOR PRIMER & PAINT APPLICATION VIII. PRIMER (HEAT PROOF) COATING AS REQUIRED IX. TOP COAT (HEAT PROOF) AS REQUIRED X. COMPANY LOGO TO BE PAINTED STAGGING(4X4 FT)					
151	159	A) PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING STAGGING.	JOB	1.00			-
		MONKEY ISLAND MAST AND FORWARD LIGHT POST Various nos of deck flood lights corroded bases to be renewed. 1. Monkey bridge mast to be made new. 2. Monkey bridge mast to be repair approx 10 m2 rusted. 3. Forward mast light post to be made new. 4. Forward mast light post to be repaired approx 5 m2 rusted. 5. Deck all light base to be renewed. 6. Material supplied by owner/yard. 7. Staging reqd 6-7 M 8. Approx 10 m2 rusted. 9. Approx 12 m2 platform checker plate to be renewed STAGGING 4X4 FT PER m3 PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL WITH STAGGING.	JOB	1.00			-
152	160	Sub Total					
7		SECTION - 07 BOILERS					
	07-01	TYPE / MODEL: AALBORG MISSIONTM OL, Vertical, top-fired boilers WORKING PRESSURE: 7/ 16 Bar DESIGN PRESSURE: 18 Bar EVAPORATION RATE: 25 ton/hour MAKER AND ADDRESS :AALBORG INDUSTRIES, Ltd PORT & STBD AUXILIARY BOILERS VINS FOR OVERHAUL AND SURVEY 1.SCOPE OF WORK: 1.1 Removal to workshop. 1.2 Overhaul, including treatment. 1.3 Testing and Class Survey. 1.4 Safety valves - overhaul, testing setting. 1.5 Boiler shell penetrations NDT.					
161		PLEASE QUOTE FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL WITH STAGGING.	Pc	48.00			-
	07-02	TYPE / MODEL: AALBORG MISSIONTM OL, Vertical, top-fired boilers WORKING PRESSURE: 7/ 16 Bar DESIGN PRESSURE: 18 Bar EVAPORATION RATE: 25 ton/hour MAKER AND ADDRESS :AALBORG INDUSTRIES, Ltd AUX BOILER NO-1 & AUX BOILER NO-2 MAIN STEAM LINE NON RETURN FLAP VALVE TO BE RENEWED. 1.SCOPE OF WORK: 1.1 Removal to workshop. 1.2 Overhaul, including treatment. 1.3 Testing and Class Survey. 1.4 Safety valves - overhaul, testing setting. 1.5 Boiler shell penetrations NDT.					
162		PLEASE QUOTE FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL WITH STAGGING.	UNIT COST	2.00			-
	07-03	TYPE / MODEL: AALBORG MISSIONTM OL, Vertical, top-fired boilers WORKING PRESSURE: 7/ 16 Bar DESIGN PRESSURE: 18 Bar EVAPORATION RATE: 25 ton/hour MAKER AND ADDRESS :AALBORG INDUSTRIES, Ltd AUX BOILER NO-1 & AUX BOILER NO-2 MAIN SOOT BLOWER LINES TO BE RENEWED & V/V TO BE OVERHAUL. 1.SCOPE OF WORK: 1.1 Removal to workshop. 1.2 Overhaul, including treatment. 1.3 Testing and Class Survey. 1.4 Safety valves - overhaul, testing setting. 1.5 Boiler shell penetrations NDT.					
163		PLEASE QUOTE FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL WITH STAGGING.	UNIT COST	2.00			-
	07-04	TYPE / MODEL: AALBORG MISSIONTM OL, Vertical, top-fired boilers WORKING PRESSURE: 7/ 16 Bar DESIGN PRESSURE: 18 Bar EVAPORATION RATE: 25 ton/hour MAKER AND ADDRESS :AALBORG INDUSTRIES, Ltd AUX BOILER NO-1 & AUX BOILER NO-2 AIR POSITIONER TO BE CALIBRATE AND FUNCTION TEST. 1.SCOPE OF WORK: 1.1 Removal to workshop. 1.2 Overhaul, including treatment. 1.3 Testing and Class Survey. 1.4 Safety valves - overhaul, testing setting. 1.5 Boiler shell penetrations NDT.					
164		PLEASE QUOTE FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL WITH STAGGING.	UNIT COST	2.00			-
	07-05	TYPE / MODEL: AALBORG MISSIONTM OL, Vertical, top-fired boilers WORKING PRESSURE: 7/ 16 Bar DESIGN PRESSURE: 18 Bar EVAPORATION RATE: 25 ton/hour MAKER AND ADDRESS :AALBORG INDUSTRIES, Ltd AUX BOILER NO-1 & AUX BOILER NO-2 FUEL CONTROLLER TO BE CALIBRATE AND FUNTION TEST. 1.SCOPE OF WORK: 1.1 Removal to workshop. 1.2 Overhaul, including treatment. 1.3 Testing and Class Survey. 1.4 Safety valves - overhaul, testing setting. 1.5 Boiler shell penetrations NDT.					
165		PLEASE QUOTE FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL WITH STAGGING.	UNIT COST	2.00			-
	07-06	TYPE / MODEL: AALBORG MISSIONTM OL, Vertical, top-fired boilers WORKING PRESSURE: 7/ 16 Bar DESIGN PRESSURE: 18 Bar EVAPORATION RATE: 25 ton/hour MAKER AND ADDRESS :AALBORG INDUSTRIES, Ltd AUX BOILER NO-1 & AUX BOILER NO-2 WATER POSITIONER TO BE CALIBRATE AND FUNTION TEST. 1.SCOPE OF WORK: 1.1 Removal to workshop. 1.2 Overhaul, including treatment. 1.3 Testing and Class Survey. 1.4 Safety valves - overhaul, testing setting. 1.5 Boiler shell penetrations NDT.					
153	166	PLEASE QUOTE FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL WITH STAGGING.	PER UNIT COST	48.00			-
	07-07	TYPE / MODEL: MAC-25B WORKING PRESSURE: 1.57MPa DESIGN PRESSURE: 1.77MPa EVAPORATION RATE: 25,000kg/hr MAKER AND ADDRESS: Mitsubishi Heavy Industries Ltd. PORT & STBD AUXILIARY BOILERS FOR OVERHAUL AND SURVEY (REFRACTORY) 1.SCOPE OF WORK: 1.1 Open / close manholes for access 1.2 Internal cleaning - gas side 1.3 Pressure testing and class survey 1.4 Safety valves - operational test and setting. 1.5 Refractory inspection and spot repair 1.6 Ventilation and lighting - to be considered survey in "confined spaces".					
154	167	PLEASE QUOTE LUMP SUM FOR ABOVE JOB FOR ABOVE JOB WITH YARD SUPPLIED MATERIALS	JOB	1.00			-

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
	07-08	WORKING PRESSURE=0.6 MPA DESIGN PRESSURE=2.3 MPA EVAPORATION RATE=1400KGHR MAKER=MITSUBISHIHEAVY INDUSTRIES LTD TOKYO JAPAN. EXHAUST GAS ECONOMIZER 1.SCOPE OF WORK: 1.1 Open / close 2 off manholes for access 1.2 Internal cleaning - gas side 1.3 Pressure testing and class survey 1.4 overhauling of valves 1.5 Soot blowers service and testing 1.6 EGE lower casing renewal and studs renewal. 1.7 Insulation repair and casing plate UTM 1.8 Ventilation and lighting - to be considered survey in "confined spaces". 1.9 EGE LOWER CASING RENEWAL AND STUDS RENEWAL. 2) PLATE SIZE= 604 SQUARE METRE. STUDS: M16 MATERIAL -5 S LENGTH=4 INCH					
155	168	A. QUOTE FOR LUMPSUM FOR ABOVE JOBS FOR REPAIR OF LOWER CASING WITH YARD SUPPLIED MATERIAL INCLUDING TRANSPORTATION CHARGES	JOB	1.00			-
	07-09	Type/Model: NH-F100NA CAPACITY:100Nm3/hr VOLTAGE/AMPERE: 100V AC MAKER:Nihon Baihi Co.Ltd INCINERATOR 1.SCOPE OF WORK: 1.1 Cleaning and inspection 1.2 Dismantle and overhaul of the mountings					
	169	QUOTE FOR LUMPSUM FOR ABOVE JOBS	JOB	1.00			-
	07-10	AUX BOILER NO-1 AND NO-2 SAFETY VALVE, ECONOMIZER SAFETY VALVE, ECONOMIZER INLET AND OUTLET VALVES AND AUX BOILER NO-1 & 2 ALL VALVES TO BE OVERHAUL.					
156	170	PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-
		Sub Total					
8		SECTION - 08 MAIN ENGINE					
	08-01	TYPE: MITSUI - MAN B&W 6560 MC-C 6 CYL, 2 STROKE 12350 KW @ 97 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE ALL MAIN BEARINGS, SURVEY INSPECTION & OVERHAULING. REASON FOR REPAIR: Routine, plan-maintenance overhaul. 1.SCOPE OF WORK: 1.Yard to overhaul Main all units as per maker manual description, all parts supplied by vessel liner also to be removed and renew o'ing.					
157	171	QUOTE FOR THE ABOVE JOB WITH OWNER SUPPLY MATERIALS.	JOB	1.00			-
	08-02	TYPE: MITSUI - MAN B&W 6560 MC-C 6 CYL, 2 STROKE 12350 KW @ 97 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE CROSSHEAD BEARING SURVEY INSPECTION. REASON FOR REPAIR: Periodical Plan maintenance, Inspection and Class survey 1.SCOPE OF WORK: 1.1 Open, inspection, calibration of MAIN ENGINE RECIPROCATING PARTS BY MAKER SERVICE ENGINEER. 1.2 Sea trials.					
158	172	QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-
	08-03	TYPE: MITSUI - MAN B&W 6560 MC-C 6 CYL, 2 STROKE 12350 KW @ 97 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE ALL UNITS CRANKPIN BEARING INSPECTION, OH AND SURVEY REASON FOR REPAIR: Periodical Plan maintenance, Inspection and Class survey 1.SCOPE OF WORK: 1.1 Open, inspection, calibration of Main Engine Bearings (as listed below). 1.2 Assistance to Service Engineer. 1.3 Sea trials.					
159	173	QUOTE LUMPSUM OF ABOVE JOB WITH YARD SUPPLY MATERIAL IF REPAIR REQUIRED.	JOB	1.00			-
	08-04	TYPE: MITSUI - MAN B&W 6560 MC-C 6 CYL, 2 STROKE 12350 KW @ 97 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE EXHAUST BELLOW INSPECTION. REASON FOR REPAIR: Periodical Plan maintenance, Inspection and Class survey 1.SCOPE OF WORK: 1.1 Open, inspection, calibration of cross head bearing (as listed below). 1.2 Assistance to Service Engineer. 1.3 Sea trials.					
160	174	QUOTE LUMPSUM OF ABOVE JOB WITH YARD SUPPLY MATERIAL IF REPAIR REQUIRED.	JOB	1.00			-
	08-05	TYPE: MITSUI - MAN B&W 6560 MC-C 6 CYL, 2 STROKE 12350 BHP @ 97 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE ALL UNITS FUEL OIL INLET VALVES TO BE RENEWED. REASON FOR REPAIR: Periodical Plan maintenance, Inspection and Class survey 1.SCOPE OF WORK: 1.1 Open, inspection, calibration of Main Engine Crank Pin Bearings.					

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
161	175	QUOTE LUMP SUM OF ABOVE JOB WITH YARD SUPPLY MATERIAL IF REPAIR REQUIRED.	JOB	1.00			-
	08-06	TYPE: MITSUI - MAN B&W 6560 MC-C 6 CYL, 2 STROKE 12350 BHP @ 97 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE ALPHA LUBRICATOR SYSTEM INSPECTION AND SURVEY REASON FOR REPAIR: Periodical Plan maintenance, Inspection and Class survey 1.SCOPE OF WORK: 1.1 Open, inspection, calibration of Main Engine Journal Bearings (as listed below). 1.2 Sea trials.					
162	176	QUOTE LUMP SUM OF ABOVE JOB WITH YARD SUPPLY MATERIAL IF REPAIR REQUIRED.	JOB	1.00			-
	08-07	TYPE: MITSUI - MAN B&W 6560 MC-6 CYL, 2 STROKE 12350 BHP @ 97 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE CAM SHAFT BEARINGS (7NOS) INSPECTION, OI AND SURVEY REASON FOR REPAIR: Periodical Plan maintenance, Inspection and Class survey 1.SCOPE OF WORK: 1.1 Open, inspection, calibration of Main Engine Cam Shaft Bearings (as listed below).					
163	176	QUOTE LUMP SUM OF ABOVE JOB WITH YARD SUPPLY MATERIAL IF REPAIR REQUIRED.	JOB	1.00			-
	08-08	TYPE: MITSUI - MAN B&W 6560 MC-C SER NO. 4270 6 CYL, 2 STROKE 18395 BHP @ 105 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE THRUST PADS INSPECTION, OI AND SURVEY REASON FOR REPAIR: Periodical Plan maintenance, Inspection and Class survey 1.SCOPE OF WORK: 1.1 Open, inspection, calibration of Main Engine Thrust pads (as listed below). 1.2 Sea trials.					
164							
165	176	QUOTE LUMP SUM OF ABOVE JOB.	JOB	1.00			-
	08-09	TYPE: MITSUI - MAN B&W 6560 MC-C SER NO. 4270 6 CYL, 2 STROKE 16561 BHP @ 97 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE LINERS CALIBRATION AND RENEWAL UNIT 1,3,4,5 1.SCOPE OF WORK: 1.1 Arrangement inspection and calibration of all 6 liner. 1.2 Renew Unit 1,3,4,5 liners. 1.3 Final inspection and calibration report.					
166	180	QUOTE LUMP SUM OF ABOVE JOB WITH YARD SUPPLY MATERIAL IF REPAIR REQUIRED.	JOB	1.00			-
	08-10	M.E OIL MIST DETECTOR SENSOR TO RENEWED. MODEL: MD-8X COMPANY: DAIHATSU DIESEL MFG CO LTD. WORK AND SCOPE: SENSOR ELECTRICALLY ISOLATED AND OPEN MOUNTING OF SENSOR. SENSOR CHECK AND CALLIBRATED.					
167	181	QUOTE LUMP SUM FOR THE ABOVE JOB.	JOB	1.00			-
	08-11	TYPE: MAN B&W 6 560 MC-C GOVERNOR MAKER: MITSUI ZOSEN SYSTEM TYPE: MSR, BMS 000 Servo motor Serial no 0810181 maker Toei electric Servo drive Maker Toei electric type blpst-025p2-ax serial # 24d32303121 MAIN ENGINE GOVERNOR - OVERHAUL. The main engine governor requires to be removed from the engine to an authorized shore workshop for cleaning, inspection and bearings renewal of servo motor. Please allow for the following: 1. Governor to be removed from vessel and transported to / from authorized Mitsui Zosen service contractor. 2. Unit to be fully serviced including governor booster. Maker's Spare parts & maker's spare Kits are supplied by owner's yard. 3. Backup batteries used to be renewed.					
168	182	QUOTE LUMP SUM FOR THE ABOVE JOB.	JOB	1.00			-
	08-12	TYPE / MODEL: MAG-200 B DESIGNATION NUMBER: VLBS-08015-A0003 MAKER AND ADDRESS: Kawasaki Plant Systems, Ltd., Tokyo, Japan MAIN ENGINE SCAVENGES AIR COOLER CLEANING AND INSPECTION. REASON FOR REPAIR: Periodical Inspection / Chemical cleaning by circulation, pressure test 1.SCOPE OF WORK: 1.1) Cleaning Procedure, obtained from HISAKA 1.2) Chemical cleaning by circulation 1.3) Testing 1.4) Cleaning Chemical supply.					
169	183	Quote for the above job with yard supply materials including transportation & cleaning charges.	JOB	1.00			-
	08-13	TYPE: MITSUI - MAN B&W 6560 MC-C SER NO. 4270 6 CYL, 2 STROKE 18395 BHP @ 105 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE CRANKSHAFT DEFLECTIONS The main engine crankshaft deflections require to be recorded prior to any main engine work being undertaken, prior to the vessel entering the dry dock, after the vessel refloats after sitting on the blocks and after completion of any main engine work. Deflections will also be necessary at more regular intervals if any main engine bearing work requires to be undertaken. Upon completion of each set of crankshaft deflections four copies are to be forwarded to the attending superintendent without delay. Safety is paramount when turning the engine, so close coordination with other departments is necessary. Suitable signs to be displayed both internally and externally when the main engine is going to be turned to advise personnel. Assume 2 Deflections. a) Service technician required for deflection of crank shaft, clearance & measurements should be taken by maker service technician. Job is quoted under standard yard quote. Yard to arrange maker authorize workshop to carry out this job. Fuel Timing to check after completion of overhauling.					
170	184	QUOTE LUMP SUM FOR THE ABOVE JOB.	JOB	1.00			-
	08-15	TYPE: MITSUI - MAN B&W 6560 MC-C SER NO. 4270 6 CYL, 2 STROKE 16561 BHP @ 97 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE EXHAUST VALVES AND SEATS 2 NOS. RECONDITIONING. Yard to recondition 2 in number exhaust valves and seat					
171	185	A. QUOTE LUMP SUM FOR THE ABOVE JOB.	JOB	1.00			-
	08-17	TYPE: MITSUI - MAN B&W 6560 MC-C SER NO. 4270 6 CYL, 2 STROKE 16561 BHP @ 97 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE WATER MIST CATCHER REASON FOR REPAIR: Routine chemical cleaning, inspection and repair 1.SCOPE OF WORK: 1.5 Water mist catchers transportation to / from workshop for chemical cleaning. 1.6 Side plates repair, Silicone Seal Renewal 1.7 Setting in place					
172							
173	186	QUOTE LUMP SUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-
	08-18	MAIN STARTING VALVE OVERHAUL. TYPE: MITSUI - MAN B&W 6560 MC-C SER NO. 4270 6 CYL, 2 STROKE 18395 BHP @ 105 RPM BUILDER: MITSUI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. REASON FOR REPAIR: Routine periodical maintenance and survey 1.SCOPE OF WORK: 1.8 Removal to workshop 1.9 Dismantle and overhaul 1.10 Test in workshop and onboard 1.11 Sea trials.					
174	187	A. QUOTE LUMP SUM FOR THE ABOVE JOB WITH YARD SUPPLIED SPARE KIT INCLUDING TRANSPORTATION CHARGES.	JOB	1.00			-

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
	08-19	TYPE: MITSUBI - MAN B&W 5550 M/C SER NO. 4270 6 CYL 2 STROKE 16661 BHP @ 97 RPM BUILDER: MITSUBI ENGINEERING & SHIPBUILDING CO., LTD., JAPAN. MAIN ENGINE VIBRATION DAMPER 1.WORK DESCRIPTION: 1) To dismantle, inspect and repair (if required) Main Engine Axial vibration damper as per Maker's instructions (attached). 2) Allow to mount main engine vibration damper as per Maker's instructions, after inspection / Class Survey. 3) Operational running test to be carried out. 4) MAN B & W Service Engineer to attend.					
175	188	QUOTE LUMPSUM FOR THE ABOVE JOB.	JOB	1.00			-
	08-20	MAIN ENGINE ALL UNITS JACKET COOLING WATER INLET AND OUTLET VALVE AND COMPENSATING VALVE TO BE RENEWED. SCOPE AND WORK: RENEW MAIN ENGINE ALL UNITS JACKET COOLING WATER INLET AND OUTLET VALVE AND COMPENSATING VALVE WITH NEW GASKET, CARRY OUT PRESSURE LEAK TEST AFTER INSTALLATION AND CONFIRM SATISFACTORY OPERATION.					
176	189	QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-
		Sub Total					
9		SECTION - 09 ENGINE ROOM AUXILIARIES					
	09-01	MAKE: DAIHATSU TYPE / MODEL : 6DK20-BRUSHLESS AC GENERATOR DIESEL GENERATOR ENGINE A/E #1 MAIN BEARING AND THRUST BEARING INSPECTION AND RENEWAL 1) ALL CYLINDER HEADS TO BE O/H WITH NEW V/V SEATS, V/V SPINDLES, STEM SEALS AND ROTOCAPS. (2) ALL UNITS TO BE O/H WITH NEW PISTON RINGS, O-RINGS, GASKETS, V-RINGS AND NEW CON ROD BOLTS AND NUTS. (3) ALL LINERS, PISTON RING GROOVES, ANTI POLISHING RINGS, BEARING SHELLS, PITON PINS, CRANK PINS CALIBRATION AND CLEARANCES TO MEASURED, TAPPETS AND V/V CLEARANCES TO BE ADJUSTED AS PER MAKER'S INSTRUCTION MANUAL, IDLE AND LOAD TEST RUNNING. (4) REMOVAL OF MAIN AND THRUST BEARINGS, INSPECTION AND RENEWAL.					
190		QUOTE LUMPSUM FOR THE ABOVE JOB WITH OWENER SUPPLY MATERIALS. OVERHAULING IN PLACE.	JOB	1.00			-
	09-02	MAKE: DAIHATSU TYPE / MODEL : 6DK20-BRUSHLESS AC GENERATOR DIESEL GENERATOR ENGINE A/E #1 OVERHAULING LINER CALIBRATION AND RENEWAL. 1) ALL CYLINDER HEADS TO BE O/H WITH NEW V/V SEATS, V/V SPINDLES, STEM SEALS AND ROTOCAPS. (2) ALL UNITS TO BE O/H WITH NEW PISTON RINGS, O-RINGS, GASKETS, V-RINGS AND NEW CON ROD BOLTS AND NUTS. (3) ALL LINERS, PISTON RING GROOVES, ANTI POLISHING RINGS, BEARING SHELLS, PITON PINS, CRANK PINS CALIBRATION AND CLEARANCES TO MEASURED, TAPPETS AND V/V CLEARANCES TO BE ADJUSTED AS PER MAKER'S INSTRUCTION MANUAL, IDLE AND LOAD TEST RUNNING. (4) REMOVAL OF MAIN AND THRUST BEARINGS, INSPECTION AND RENEWAL.					
177	190	QUOTE LUMPSUM FOR THE ABOVE JOB WITH OWENER SUPPLY MATERIALS. OVERHAULING IN PLACE.	JOB	1.00			-
	09-03	TAIKO KIKAI MODEL: SBT 40 SEWAGE TREATMENT PLANT CLEANING AND INSTALLATION VISUAL FLOW INDICATOR. REASON FOR REPAIR: Routine inspection, maintenance, class survey SCOPE OF WORK: 1.1 Cleaning and inspection 1.2 Dismantle and overhaul of the mountings 1.3 sewage connection at peak tank. 1.4 Temporary connection and receipt yard sewage facilities. 1.5 Testing and Class Certification. 1.6 installation of flow meter					
192		QUOTE LUMPSUM FOR THE ABOVE JOB WITH OWENER SUPPLY MATERIALS. OVERHAULING IN PLACE.	JOB	1.00			-
	09-03	TAIKO KIKAI MODEL: SBT 40 SEWAGE TREATMENT PLANT SCREEN AND TOP COVER TO BE RENEWED. REASON FOR REPAIR: Routine inspection, maintenance, class survey SCOPE OF WORK: 1.1 Cleaning and inspection 1.2 Dismantle and overhaul of the mountings 1.3 sewage connection at peak tank. 1.4 Temporary connection and receipt yard sewage facilities. 1.5 Testing and Class Certification. 1.6 installation of flow meter					
193		QUOTE LUMPSUM FOR THE ABOVE JOB WITH OWENER SUPPLY MATERIALS. OVERHAULING IN PLACE.	JOB	1.00			-
	09-04	TYPE: ELECTRO HYDRAULIC TORQUE: 1236KN OUTPUT: 37KW SCOPE ISOLATE STEERING GEAR POWER, DEPRESSURIZE HYDRAULIC SYSTEM. OPEN TANK VENT, DRAIN OIL FROM AFFECTED RAM CHAMBER, DISCONNECT HYDRAULIC PIPES TO RAM CYLINDER. CAP OPEN ENDS STRIP OLD SEAL FROM PISTON GROOVE AND ROD GLAND. CLEAN ALL GROOVES, PISTON, ROD, CYLINDER BORE. CHECK FOR SCORING, PITTING, CORROSION. MEASURE ROD AND BORE FOR WEAR. MAX CLEARANCE AS PER MAKER MANUAL.	PC	4.00			
178	194	QUOTE LUMPSUM FOR THE ABOVE JOB WITH OWENER SUPPLY MATERIALS. OVERHAULING IN PLACE.	JOB	1.00			-
	09-05	MAIN ENGINE F.O HEATER NO-1 & NO-2, AUX ENGINE F.O HEATER NO-1 & NO-2 AND BOILER, PURIFIERS HEATER TO BE CLEANED AND PRESSURE TESTED SCOPE OF WORK: ISOLATE HEATER CLOSE F.O INLET/OUTLET VALVES+STEAM VALVES. DEPRESSURIZED AND DRAIN BOTH SIDES. COOL DOWN HEATER REMOVE END COVERS AND PULL OUT TUBE STAKE FOR CLEANING. SHELL SIDE PRESSURE TEST CARRIED OUT AS PER MAKER. TUBE SIDE PRESSURE TESTING CARRIED OUT AS PER MAKER HOLD FOR 30 MIN CHECK FOR LEAKS					
179	195	QUOTE LUMPSUM FOR THE ABOVE JOB WITH OWENER SUPPLY MATERIALS. OVERHAULING IN PLACE.	JOB	1.00			-
	09-06	MAIN ENGINE F.O BOOSTER PUMP NO.2 INSPECTION & OVERHAULING. NANIWA PUMP MODEL: ALGT-50 CO CAPACITY: 7.5 METER CUBE PER HOUR SCOPE OF WORK: One off gear pumps removal from it's base & transport to workshop, inspection and cleaning , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft manufacturing of wear ring application of standarder coating on pump casing, machining of casing /bearing housing , alignment and reassembling Test and Class Survey & Foundation treatment.					
180	196	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWENER SUPPLY MATERIALS INCLUDING REMOVAL.	JOB	1.00			-
	09-07	TYPE / MODEL: FEV-V-3000 CAPACITY / HEAD: 810m3/hr, Total head 20m MAKER AND ADDRESS: NANIWA PUMP MFG. CO MAIN COOLING SEA WATER PUMP NO-1 INSPECTION, SURVEY & OVERHAULING. Routine preventive maintenance / overhaul, Class Survey. SCOPE OF WORK: ONE off Centrifugal pumps removal from it's base & transport to workshop, inspection and cleaning of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft manufacturing of wear ring application of standarder coating on pump casing, machining of casing /bearing housing , alignment and reassembling Test and Class Survey & Foundation treatment					
181	197	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH YARD SUPPLY MATERIALS INCLUDING REMOVAL, OVERHAULING, TRANSPORTATION , CRANNAGE & REINSTALLATION OF PUMP. ALSO INCLUDE TESTING & TREATMENT/PAINTING OF PUMP & BASE CHARGES.	JOB	1.00			-
	09-08	TYPE / MODEL: FG-V-150 WITH VK 20-NB CAPACITY / HEAD: 5m3/hr Total head- 35m MAKER AND ADDRESS: NANIWA PUMP MFG. CO LTD FIRE AND GS PUMP INSPECTION, SURVEY & OVERHAULING. Routine preventive maintenance / overhaul, Class Survey SCOPE OF WORK: ONE off Centrifugal pumps removal from it's base & transport to workshop, inspection and cleaning of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft manufacturing of wear ring application of standarder coating on pump casing, machining of casing /bearing housing , alignment and reassembling Test and Class Survey & Foundation treatment					
182	198	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWENER SUPPLY MATERIALS.	JOB	1.00			-
	09-9	MAKE: NANIWA PUMP MODEL: WV150S VERTICAL DUPLEX DOUBLE ACTING RECIPROCATING CAPACITY: 150 CU MTR/HR HEAD = 135 MTRS. SUCTION HEAD= -5 MTRS, CYL BORE=300mm, PUMP SUCT BORE=200mm OVERHAULING OF STRIPPING PUMP INSPECTION, SURVEY & OVERHAULING Steam driven stripping pump to be overhauled, inspect and change steam cylinder piston ring allow for renewal of synthetic resin valve disc and machining of valve and valve seats pump. Cross head worm threads to be repaired, worm pins to be renewed. Broken lubricating oil lines to be renewed pump side bucket ring to be renew, and boxed up in good order trial to be given.					
183	199	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWENER SUPPLY MATERIALS.	JOB	1.00			-

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
	09-10	TYPE: BALLAST PUMP DETAILS: CAPACITY 2000 M3HR, TOTAL HEAD 30 SPEED 1150 RPM MAKER NANIWA PUMP MODEL DV-350 BALLAST PUMP # 1 & # 2 INSPECTION AND SURVEY INSPETION, SURVEY & OVERHAULING. Operational / running test, Pressure testing, Visual inspection by ship staff, Test certificate required Surveyor to witness Two off Centrifugal pumps removal from it's base & transport to workshop, inspection and cleaning of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatment					
184	206	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS. TYPE / MODEL:CBV-350A CAPACITY / HEAD:2500m3/hr / 135m SPEED/ NPSH:1500rpm / MAKER AND ADDRESS: NANIWA PUMP MFG CO.LTD COPT TURBINE AND PUMP INSPECTION AND SURVEY (03 Nos) INSPETION, SURVEY & OVERHAULING. REASON FOR REPAIR: ROUTINE OVERHAUL AND CLASS SURVEY. SCOPE OF WORK: Pumps removal from it's base & transport to workshop, inspection and cleaning of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatment	JOB	1.00			-
185	201	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS. TYPE / MODEL:BHR-40 CAPACITY / HEAD: 5m3/hr / 35M Disch Pr: 0.9 MPa MAKER AND ADDRESS: NANIWA PUMP MFG CO. LTD IG DECK SEAL WATER PUMP NO:1 OVERHAULING AND INSPECTION. REASON FOR REPAIR: Routine preventive maintenance / overhaul, Class Survey. SCOPE OF WORK: TWO (2) off centrifugal pumps removal from it's base & transport to workshop, inspection and cleaning , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatment. Two off Safety valves dismantle, overhaul and test.	PER UNIT COST	3.00			-
186	203	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS. TYPE / MODEL : ALGV-100BL CAPACITY / HEAD: 47m3/hr, Disch Pr:0.3MPa MAKER AND ADDRESS: NANIWA PUMP MFG CO. LTD FUEL OIL TRANSFER PUMP INSPECTION, SURVEY & OVERHAULING REASON FOR REPAIR: Routine preventive maintenance / overhaul, Class Survey. SCOPE OF WORK: One off gear pumps removal from it's base & transport to workshop, inspection and cleaning , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatment. Safety valve dismantle, overhaul and test.					
187	205	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS. MAKE: NANIWA PUMP MFG CO. LTD. TYPE: FGV-150, CAP: 140 M3HR MOTOR: 30KW, 440V, 3PH, 60HZ, 3520 RPM SCRUBBER COOLING PUMP (1No) INSPETION, SURVEY & OVERHAULING. REASON FOR REPAIR: Routine preventive maintenance / overhaul, Class Survey. SCOPE OF WORK: off Centrifugal pumps removal from it's base & transport to workshop, inspection and cleaning of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatment	JOB	1.00			-
188	204	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS. TYPE/MODEL:FEV-12SE CAPACITY/HEAD:115m3/hr Total head:30m MAKER AND ADDRESS : NANIWA PUMP MFG CO. LTD MAIN ENGINE J.W. COOLING PUMP (2NOS) INSPETION, SURVEY & OVERHAULING REASON FOR REPAIR: Routine preventive maintenance / overhaul, Class Survey. SCOPE OF WORK: Two off Centrifugal pumps removal from it's base & transport to workshop, inspection and cleaning of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatment	JOB	1.00			-
189	205	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS. TYPE / MODEL :TOM-200-2 CAPACITY / HEAD:285 m3/hr MAKER AND ADDRESS: NANIWA PUMP MFG CO. LTD MAIN LUBE OIL PUMP (2NOS) INSPETION, SURVEY & OVERHAULING REASON FOR REPAIR: Routine preventive maintenance / overhaul, Class Survey. SCOPE OF WORK: Two off Centrifugal pumps removal from it's base & transport to workshop, inspection and cleaning of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatment	PER UNIT COST	2.00			-
190	206	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS. TYPE / MODEL : EB4H-40 CAPACITY / HEAD: 4m3/hr Total head:225m MAKER AND ADDRESS: NANIWA PUMP MFG CO. LTD ECONOMIZER FEED WATER PUMP (2NOS) INSPETION, SURVEY & OVERHAULING REASON FOR REPAIR: Routine preventive maintenance / overhaul, Class Survey. SCOPE OF WORK: Two off Centrifugal pumps removal from it's base & transport to workshop, inspection and cleaning of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatment	PER UNIT COST	2.00			-
191	207	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS.	PER UNIT COST	2.00			-

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
	09-18	TYPE/ MODEL:EB4H-100 CAPACITY / HEAD:65m³/hr Total head-225m MAKER & ADDRESS:NANIWA PUMP MFG CO. LTD MAIN AUX BLR FEED WATER PUMP (2NOS) INSPETION, SURVEY & OVERHAULING REASON FOR REPAIR: Routine preventive maintenance / overhaul, Class Survey. SCOPE OF WORK: Two off Centrifugal pumps removal from it's base & transport to workshop, inspection and clearing of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatment					
192	208	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS.	PER UNIT COST	2.00			-
	09-19	TYPE / MODEL:FGV-150 WITH VK-20NB CAPACITY / HEAD:150 m³/hr / 85M Total head- 80m MAKER AND ADDRESS: NANIWA PUMP MFG CO. LTD FIRE AND BILGE BALLAST P/P (01 IN NOS) INSPETION, SURVEY & OVERHAULING. REASON FOR REPAIR: Routine preventive maintenance / overhaul, Class Survey. SCOPE OF WORK: One off Centrifugal pumps removal from it's base & transport to workshop, inspection and clearing of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatment					
193	209	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS.	JOB	1.00			-
	09-20	TYPE / MODEL:FDV-100 CAPACITY / HEAD :72 m³/hr Total head- 85m MAKER AND ADDRESS: NANIWA PUMP MFG CO. LTD EMERGENCY FIRE PUMP + VACCUME PUMP INSPETION, SURVEY & OVERHAULING REASON FOR REPAIR: Routine preventive maintenance / overhaul, Class Survey. SCOPE OF WORK: One off Centrifugal pumps removal from it's base & transport to workshop, inspection and clearing of impeller , shaft, casing and bearings with standard overhauling with dynamic balancing, replacement of wornout parts (seal, bearing , gaskets) machining/polishing of old shaft,manufacturing of wear ring,application of standered coating on pump casing,machining of casing /bearing housing ,alignment and reassembling Test and Class Survey & Foundation treatmentincluding Ejector priming system.					
194	210	QUOTE FOR THE STANDARD OVERHAULING OF PUMP WITH OWNER SUPPLY MATERIALS.	JOB	1.00			-
	09-21	MAKE: NAKAKITA SEISAKUSHO CO. LTD AE JWC, ME JWC,FO AND LO PURIFIERS HEATERS STEAM CONTROLLERS AND ACTUATORS, (06 IN NOS) REASON FOR REPAIR: Routine maintenance, service, calibration SCOPE OF WORK: 1.1 Test and commissioning onboard in service condition 1.3 Repair kit supply - spare parts nomenclature as recommended by Makers TUBE RENEWAL AND PLUGGING ASSUME 02 TUBES LEAKING.					
195	211	HEATER TO BE CLEANED AND PRESSURE TESTED, SAFETY VALVE TO BE OVERHAUL AND PRESSURE TESTED, CERTIFICATE TO BE PROVIDED.	PER UNIT COST	6.00			-
	09-22	ME F.O HEATER TYPE+ 6MS 88-1.75 MAKER+ SHOWA INDUSTRIAL CO. LTD DG F.O HEATER TYPE+ 4MS 84-0.75 MAKER+ SHOWA INDUSTRIAL CO. LTD AUX BOILER F.O HEATER TYPE+ MAKER+ SHOWA INDUSTRIAL CO. LTD PURIFIER FO HEATER TYPE+ 6MS86-1.0 MAKER+ SHOWA INDUSTRIAL CO. LTD ME F.O HEATER /DG F.O HEATER / AUX BOILER F.O HEATER / PURIFIER FO HEATER CLEANING & PRESSURE TEST MAKER: SHOWA INDUSTRIAL CO. LTD. 1. ME F.O. HEATER 2 OFF 2. GE F.O. HEATER 1 OFF 3. H F.O. PURIFIER HEATER 2 OFF 3. L.O PURIFIER HEATER 2 OFF 4. BOILER FO HEATER 2 OFF TOTAL : 9 OFF REASON FOR REPAIR: Chemical cleaning, Pressure test, Class Survey 1.SCOPE OF WORK: 1.1 Removal to workshop. 1.2 Chemical cleaning. 1.3 Testing and Class Survey.					
196	212	HEATER TO BE CLEANED AND PRESSURE TESTED, SAFETY VALVE TO BE OVERHAUL AND PRESSURE TESTED, CERTIFICATE TO BE PROVIDED.	PER UNIT COST	9.00			-
	09-23	TUNNEL SPARK ARRESTER CLEANING INSPECTION OVERHAULING MACHINERY DATA:- 1. BOILER SPARK ARRESTER 1 NOS 2. AUX ENGINE SPARK ARRESTOR WITH SILENCERS 3 NOS 3. MAIN ENGINE SPARK ARRESTOR 1 NOS REASON FOR REPAIR: CLEANING,INSPECTION & WIRE NET RENEWAL (IF REQUIRED) 1.SCOPE OF WORK: 1. 2 off spark arrestors removal to workshop for cleaning and overhaul. 2. off silencers cleaning and service					
197	213	QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIAL	JOB	1.00			-
	09-24	TYPE / MODEL :NXZ 140K X 2 CAPACITY / PRESSURE : 2X 180/LMIN AT 1760 / 23.9-24.5MPa WORKING PUMPS : 4, Type : K3VL140/B REVOLUTION :1760 rpm MAKER AND ADDRESS: Nippon Puasres Co., Ltd. HYDRAULIC POWER PACK PUMPS SET NO:1 AND SET NO: 2 INSPECTION , CALIBRATION & OVERHAULING HYDRAULIC POWER PACK FOR DECK MACHINERY INsPECTION,CALIBRATION AND OVERHAULING IF REQUIRED BY MAKER. Standard overhauling of three hydraulic pump of above specifications Allow for chain block in ER and crannage to and from shore workshop.					
198	214	QUOTE FOR ABOVE STANDARD OVERHAULING SPARES ARE SUPPLIED BY YARD.	PER UNIT COST	3.00			-
	09-25-A	LOAD TEST OF ENGINE ROOM LIFTING BEAMS 5 yearly Periodical load test survey and certification + Engine room work shop SWL 2 ton Height 4 meters. + Auxiliary engine (3 beams) SWL 1 ton / each. Height 3 meters. + Purifier area SWL 1 ton height 3 meters. + Main shafting SWL 30 ton. Height 6 meters. + Aux boiler above burners. SWL 0.5 ton. Height 2.5 meters. 1.1 Load testing and certification, testing facilities. 1.2 Maintenance, marking and tagging.					
199	215	Quote lumpsum cost for above jobs.	JOB	1.00			-

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	09-25-B	TORQUE SPANNER CERTIFICATION-5 NOS As per approved PMS modification PMS/809 for ashore calibration 1.SCOPE OF WORK: 1. 150-750 Nm 1228.6 3/4" 2. 50-225 Nm 587 1/2" 3. 12-68 Nm 476 1/2" 4. 2.5-11 Nm 315 3/8" 5. 80-560 Nm 1195 3/4" TOTAL = 5 NOS ALL ABOVE TORQUE SPANNERS TO BE CALIBERATED. Calibration Certificate To Be Issued On Completion. Quote lumpsum cost for above jobs.	PER UNIT COST	5.00			-
200	235	AUX BOILER F.O BURN PUMP NO- 1 OVERHAULING AND INSPECTION. TYPE/MODEL: SNH-120ERS1 MANUFACTURE: NANIWA PUMP MFG CO. LTD 1 SCOPE OF WORK 1.1 Yard to arrange service engineer to carry out maintenance, service & certification of AC plant, GAS COLLECTION, GAS CHARGING, VACUUM, LEAK TEST, RUNNING TEST. 1.2 Service of the refrigerator recovery unit. 1.3 Service of Leak detection System, Leak test. 1.4 REMOVAL & RENEWAL OF AC EVAPORATOR. Maker's drawings and manual					-
201	237	QUOTE LUMP SUM FOR THE ABOVE JOB WITH OWNER SUPPLY MATERIAL INCLUDING SERVICING, TRANSPORTATION & REPAIR/REPAIR: TYPE/MODEL=KM-30, CAPACITY=30 T/DAY MAKE AND ADDRESS=Sasakura Engineering Co., Ltd. FRESH WATER GENERATOR EVAPORATOR RE-TUBING & SHELL RENEWAL F.W.G EVAPORATOR RENEWAL/REPAIR: NBR TUBES x DIA x LGTH x THICK:100 x 16.0 x 200 x 1.2 Kindly quote separately for the following a. Removal of fresh water evaporator from its base b. chemical cleaning of tubes c. re-tubing of the choked tubes. d. pressure testing e. transportation to & from yard to vessel. f. Re-installation of evaporator. g. plugging of tubes. F.W.G SHELL RENEWAL/REPAIR: a) Removal of shell. b) Transportation to & from yard to vessel. c) Wasted shell to be repaired or renewed. (Wasted area= 4x4 sq feet) also renewal of internal coating. e) Inspection & cleaning of demister & deflector. f) Re-installation of shell. g) Renewal of inside shell coating. h) cleaning of demister i) chemical cleaning of condenser j) inspection & repair of deflector	JOB	1.00			-
202	238	QUOTE LUMP SUM FOR THE ABOVE FOR YARD SUPPLY MATERIAL COMPLETE SHELL RENEWAL INCLUDING TRANSPOTATION CHARGES.	JOB	1.00			-
	09-28	MAKER-ORIENTAL PRECISION & ENGINEERING CO. LTD TYPE: NHD-3,STON X 6.1M LIFTING CAPACITY:3.5 tons LIFTING SPEED:3.0m/min 3.5 TON ENGINE ROOM OVERHEAD CRANE INSPECTION, SERVICE & LOAD TEST REASON FOR REPAIR: Routine periodical service, load test and certification. Wire rope renewal (if required) 1. Scope of work : 1.1 Yard to arrange Maker's authorized company qualified personnel to carry out service, load test, certification and wires renewal of the Engine Room main engine overhead crane. 1.2 Test and certification. 1.3 Yard assistance - manpower and load testing facilities.					-
203	239	QUOTE LUMP SUM FOR THE ABOVE JOB WITH INCLUDING LOAD TEST AND CERTIFICATION.	JOB	1.00			-
	09-29	AUX. ENGINE'S EXHAUST UPTAKE SILENCER'S INSPECTION REASON FOR REPAIR: Routine Maintenance. 1.SCOPE OF WORK: 1.1 Removal of Auxiliary engines exhaust uptake silencers (3 off) to workshop. 1.2 Cleaning, examination, repairs, NDT's. 1.3 Insulation renewal.					-
204	240	PLEASE QUOTE LUMP SUM FOR OVERHAULING OF THE ABOVE JOB. INERT GAS FAN DYNAMIC BALANCING AND OVERHAULING. MAKER: OSAKA BLOWER MFG CO LTD CAPACITY: 4700 meter cube, PRESSURE: 18.6 KPa MOTOR: 55KW SCOPE AND WORK: IG BLOWER DYNAMIC BALANCING TO BE CARRIED OUT, FWD AND AFT BEARING RENEW AND STUFFING BOX CARBON SEAL TO BE RENEWED.	JOB	1.00			-
	09-30	PLEASE QUOTE LUMP SUM FOR OVERHAULING OF THE ABOVE JOB. IG EXECUTIVE ATMOSPHERIC VALVE ACTUATOR AND IG BLOWER BOTH DELIVERY VALVE ACTUATOR TO BE OVERHAULED.	Job	1.00			-
	09-31	SCOPE AND WORK: SHUT OPERATING AIR SUPPLY, DISMENTLED THE ACTUATOR. INSPECTION THE O-RING AND SLIDING PISTON.					-
	09-32	PLEASE QUOTE LUMP SUM FOR OVERHAULING OF THE ABOVE JOB. IG MAIN LINE REGULATING VALVE ACTUATOR NEED TO BE OVERHAULED. SCOPE AND WORK: SHUT OPERATING AIR SUPPLY, DISMENTLED THE ACTUATOR. INSPECTION THE O-RING AND SLIDING PISTON.	Job	1.00			-
205	243	PLEASE QUOTE LUMP SUM FOR OVERHAULING OF THE ABOVE JOB.	Job	1.00			-
		Sub Total					-
10		SECTION - 10 ENGINE ROOM PIPING & VALVES.					
	10-01	CARGO CONDENSOR SEA WATER INLET LINES 3 IN NOS: LINE DIA: 16" PCD: 490MM NUM OF BOLTS: 16 1ST PIECE: LENGTH 1500MM WITH BEND AND 2 FLANGES. 2ND 3RD PIECE: LENGTH 1000MM WITH 2 FLANGES.					-
206	234	PLEASE QUOTE LUMP SUM FOR OVERHAULING OF THE ABOVE JOB. IGPS ANODES TO BE RENEWED AND SEA WATER INLET & OUTLET LINE	M	2.00			-
	10-02	20 MTR MCPS SEA WATER INLET & OUTLET LINE RENEWAL. LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) LENGTH 20 MTR, OUTER DIA=60mm, No. of Flange=12, FLANGE P.C.D=100mm, No. of bolts= 4 B) PIPE SCHEDULE=40					-
207	225	A. QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS RUBBER COATED PIPE INCLUDING TRANSPORTATION 3 NOS STEAM RETURN LINE IN PURIFIER ROOM TO BE RENEWED.	Per M	20.00			-
	10-03	4 MTR AE SEA WATER INLET LINE RENEWAL. LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) LENGTH 4 MTR, OUTER DIA=78mm B) STRAINER BODY OUTER DIA: LENGTH: 310mm, 160mm, FLANGE OUTER DIA: 150mm, FLANGE PCD: 120mm, No. of bolts= 4. C) PIPE SCHEDULE=40 LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT WITNESS BY OWNER REPRESENTATIVE					-
208	236	A. QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS RUBBER COATED PIPE INCLUDING TRANSPORTATION 15 NOS STEAM RETURN LINES ON THE TOP OF OWS, M/E L.O COOLER AND COPT PLATFORM LINES RENEWAL 20 MTR FRESH WATER LINE RENEWAL. LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) LENGTH 20 MTR, OUTER DIA=50mm, FLANGE OUTER DIA: 125mm, FLANGE P.C.D=95mm, NO OF FLANGES: 12. B) PIPE SCHEDULE=40 LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT WITNESS BY OWNER REPRESENTATIVE MATERIALS ARE SUPPLIED BY OWNER/YARD.	Per M	4.00			-
209	227	A. QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	20.00			-

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
	10-05	FRESH WATER 3 NOS LINES IN A/C ROOM DIA: 60mm 1ST PIECE LENGTH: 2000mm 2ND PIECE LENGTH: 1600mm WITH 40mm DIA. ROOM PCD: 105mm FRESH WATER 2 NOS LINE IN STEERING DIA: 60mm TOTAL LENGTH: 2820mm					
210	238	A. QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	5.89			
	10-06	DECK SEAL S.W PIPES 5 IN NOS. LINE FROM SEA DUCT TO DECK SEAL PUMP. PCD: 95mm, NUM OF BOLTS IN FLANGE: 4 LINE DIA: 2" 1ST PIECE: LENGTH 1100MM WITH BEND ALONG WITH 3 FLANGES. 2ND PIECE: LENGTH 500MM WITH WITH 2 FLANGES. 3RD PIECE: LENGTH 1030MM WITH 2 FLANGES. 4TH PIECE: LENGTH 2000MM WITH 2 FLANGES. 5TH PIECE: LENGTH 1200MM FROM SEA DUCT PENETRATION WITH 2 FLANGES.					
211	239	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	14.00			
	10-07	LY COOLER NO:1 & 2 BACK WASH LINES TO BE FITTED. 12 MTR SEA CHEST MANFOLD SEA WATER LINE RENEWAL, LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) LENGTH 7 MTR. OUTER DIA=430mm, FLANGE P.C.D=760mm, NO OF FLANGES: 8, NO OF BOLTS: 24 B) LENGTH 5 MTR. OUTER DIA=300mm, FLANGE P.C.D=385mm, NO OF FLANGES: 8, NO OF BOLTS: 12 C) PIPE SCHEDULE=80 LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT WITNESS BY OWNER REPRESENTATIVE					
212	240	A. QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	12.00			
	10-08	COPT. LO COOLER MAIN S.W INLET LINE VALVE TO BE FITTED. 2 MTR SEA WATER INLET LINE RENEWAL, LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) LENGTH 2 MTR. OUTER DIA=450mm, FLANGE P.C.D=450mm, NO OF FLANGES: 6, NO OF BOLTS: 16 B) PIPE SCHEDULE=80 LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT WITNESS BY OWNER REPRESENTATIVE					
213	231	A. QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	2.00			
	10-09	HYDRAULIC POWER PACK SEA WATER COOLING LINES. PCD: 100mm DIA: 405mm NO OF BOLTS: 4 SEA WATER COOLER INLET LINE LENGTH: 1900mm SEA WATER COOLER OUTLET LINE LENGTH: 2200mm					
214	232	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	JOB	1.00			
	10-10	COPT NO: 1,2 AND 3 S.W INLET/OUTLET 12 IN NOS LINES FLANGE PCD: 100mm DIA: 2" INCHES NO OF BOLTS: 4 INLET LINE LENGTH 600MM WITH BEND AND 2 FLANGES (3 IN NOS), INLET LINE 2ND SEGMENT LENGTH 1600MM WITH BEND AND 2 FLANGES (3 IN NOS), OUTLET LINE LENGTH 600MM WITH BEND AND 2 FLANGES (3 IN NOS), OUTLET LINE 2ND SEGMENT LENGTH 1300MM WITH BEND AND 2 FLANGES (3 IN NOS)					
215	233	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	1.00			
	10-11	ALL SHIP SIDE AND OVERBOARD VALVES TO BE OVERHAULED AND RENEWED.					
216	234	A. QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	10.00			
	10-12	FIRE & GS AND BILGE BALLAST PUMP COMMON SEA WATER DISC AND AFT PEAK FILLING MANIFOLD. PCD: 240MM DIA: 6" INCHES NUM OF BOLTS: 8 1ST TEE 340mm*130mm 2ND TEE 338mm*130mm 3RD TEE 316mm*130mm FIRE AND GS PUMP SUCTION LINE FROM SEA DUCT WITH BEND LENGTH: 1200mm FIRE AND BILGE BALLAST PUMP SUCTION LINE FROM SEA DUCT WITH BEND LENGTH: 1200mm FIRE AND GS PIP DISC LINE 600mm FIRE AND BILGE BALLAST PIP DISC LINE 600mm					
217	235	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	10.00			
	10-13	TAIKO KIKAI MODEL: SBT 40 ALL STEAM VALVES IN PURIFIER ROOM, COPT MAIN STEAM INLET VALVE AND COPT NO: 1,2 AND 3 ALL INDIVIDUAL STEAM INLET AND DRAIN VALVES. REASON FOR REPAIR: Maintenance, class survey. SCOPE OF WORK: 1.1 Sewage connection aft peak tank. 1.2 Temporary connection and receipt yard sewage facilities. 1.3 Testing and Class Certification. 1.4 Installation of flow meter.					
218	236	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	10.00			
	10-14	MGPS S.W INLET/OUTLET VALVES TO BE OVERHAULED. (1) STAGING REQUIRED, REMOVAL OF WASTED DUCTS, WASTED PARTS TO BE RENEWED. (2) SIZES: 50 SQUARE TYPE 630 INCH, (6 PIECES REQUIRED), MESH SIZE= 15X15 SQUARE INCH. (3) PAINTING. (4) MATERIALS ARE SUPPLIED BY OWNER/YARD.					
219	237	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS INCLUDING REMOVAL & RENEWAL.	JOB	1.00			
	10-15	MAIN S.W PUMP 1,2 & 3 S.W INLET/OUTLET VALVES (7 IN NOS) TO BE OVERHAULED. F.O SETTling AND SERVICE TANKS FLOAT TYPE LEVEL GAUGES OVER HAULING REMOVAL OF GAUGES AND GAUGES TO BE SERVICED. A) REMOVAL, SERVICING & REINSTALLING OF GAUGES. B) REMOVAL & RENEWAL OF GAUGES WITH OWNER SUPPLIED MATERIALS C) SEPERATELY QUOTE FOR REMOVAL & RENEWAL OF GAUGES BY YARD SUPPLIED					
220	238	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS INCLUDING REMOVAL & OVERHAULING.	JOB	1.00			
	10-16	SCRUBBER PUMP S.W INLET/OUTLET VALVES TO BE OVERHAULED. 2 MTR FWG SEA WATER LINE RENEWAL, LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) LENGTH 2 MTR. LINE OUTER DIA=38mm. B) PIPE SCHEDULE=40 LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT WITNESS BY OWNER REPRESENTATIVE					
221	239	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	2.00			
	10-17	DECK SEAL PUMP MAIN SW INLET LINE AND VALVE TO BE RENEWED. 3 MTR EGE DRAIN LINE RENEWAL, LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASKETS YARD SUPPLIED. DETAILS AS BELOW A) LENGTH 3 MTR. LINE OUTER DIA=114, FLANGE PCD: 165mm, NO OF HOLES 4 ELBOW 90 DEG B) PIPE SCHEDULE=40 LEAKAGE TEST AND PRESSURE TEST TO BE CARRIED OUT WITNESS BY OWNER REPRESENTATIVE					
222	240	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS. RUBBER COATED PIPE INCLUDING TRANSPORTATION	Per M	3.00			
	10-18	COPT NO: 1,2&3 LO COOLER S.W INLET/OUTLET VALVE (6 IN NOS) TO BE RENEWED					
223	241	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS INCLUDING REMOVAL & RENEWAL	M	100.00			
	10-19	STEAM DUMPING VALVES IS NOT WORKING ON AUTO. 1.SCOPE OF WORK: CARRY OUT COMPLETE INSPECTION AND TROUBLESHOOTING OF THE AUTOMATIC CONTROL SYSTEM. INSPECTION OF ACTUATOR, POSITIONER, SOLENOID VALVE, CHECK WIRING CONTROL SIGNAL AND CALIBRATE THE VALVE. RENEW DEFECTED COMPONENTS AS REQUIRED. TEST VALVE OPERATION IN AUTO AND MANUAL MODES. AND CONFIRM SATISFACTORY OPERATION.					
224	242	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS INCLUDING INSPECTION, TREATMENT & OVERHAULING ALSO INCLUDE PRESSURE TESTING.	PER UNIT COST	1.00			

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
	10-20	COPT NO:1,2 AND 3 DISCHARGE VALVES. Opening and cleaning condenser to original condition. Inspection and survey by attending Surveyor and owner's representative. Pressure testing shell side Returning to vessel and installing to original condition. Plugging of tubes (approx. 5 ~ 10). Re-tubing of tubes (approx. 70 ~ 80).					
225	245	QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING RETUBING OF TUBES,PLUGGING OF TUBES,TRANSPORTATION & CRANPAGE ALSO INCLUDE PRESSURE TESTING.	JOB	1.00			-
226	246	COST REQUIRED PER TUBE FOR PLUGGING & RETUBING OF LEAKED TUBES	TUBES	10.00			-
	10-21	FUEL OIL BUNKER LINES AND VALVES, FUEL OIL BUNKER LINES VALVES IN MANIFOLD TO BE CHANGED. LINE DIA: 220MM / 8" INCHES PCD: 280MM FLANGES OUTER DIA: 315MM NUM OF BOLTS: 08 TOTAL NUM OF LINES TO BE FABRICATE: 12 IN NOS. TOTAL LINE LENGTH APPROX: 45 METER / 148 FT 4 INCHES					
227	246	QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING RETUBING OF TUBES,PLUGGING OF TUBES,TRANSPORTATION & CRANPAGE ALSO INCLUDE PRESSURE TESTING.	JOB	1.00			-
	10-22	WAKU YAMASHITA SEIRO Co. Ltd. TYPE: VCH1F-200B40 Steam flow 4300kg/hy sea water flow 1100cu.m/hr/hy Qper. Press. >00mmwg -0.065mp test pres. 0.165 Mpa Surface area 290 sq. Mtrs NBR TUBES : DIA x LGTH x THICK=1175 x 16.0 x 4965 x 1.2 10 tubes to be retube, 5 tubes to be plugged. VACUUM CONDENSER CLEANING The vacuum condenser requires to be opened for inspection and cleaning. Relubing of tubes. Plugging of tubes.					
228	246	QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING RETUBING OF TUBES,PLUGGING OF TUBES,TRANSPORTATION & CRANPAGE ALSO INCLUDE PRESSURE TESTING.	JOB	1.00			-
	10-23	CLEANING OF SEA WATER PIPES Main sea water line 650 mm Dia to remove and clean of sea growth and to fit back in position. Thickness to be checked. 200mm Dia 06 section of pipes to remove and clean of sea growth and to fit back in position.					
229	247	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS INCLUDING INSPECTION , REMOVAL & TREATMENT.	JOB	6.00			-
	10-24	SEA WATER SYSTEM VALVES OVERHAUL. REASON FOR REPAIR: Periodically overhaul and testing. 1.SCOPE OF WORK: 1.1 Removal to workshop 1.2 Overhaul and pressure test 1.3 Treatment and coating TOTAL NOS: 37 VV (INTERMEDIATE VALVE / SUCTION VALVE / OVERBOARD VALVES)					
230	248	A QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS INCLUDING REMOVAL & RENEWAL,TRANSPORTATION & OVERHAULING & PRESSURE TESTING CHARGES.	PER UNIT COST	37.00			-
	10-25	TYREMODEL:UAPC-RHS402L4 COOLING CAPACITY:18.7 (16000 Kcal/h) MAKER AND ADDRESS:Ushio Reimetsu Co., Ltd. PACKAGED AIR CONDITIONER GALLEY 1) GALLEY AC BLOWER RENEW: GALLEY AC BLOWER RENEW WITH NEW ONE. SPECIFICATION: MULTI BLADE FAN. MODEL: DB6AK25-18 AIR FLOW RATE: 26.5 m3/min EXTERNAL STATIC PRESSURE : 0.36 kPa MOTOR OUTPUT x POLES: 0.75x4 KWap DRIVEN: BELT DRIVEN 2) GALLEY AC BODY REPAIR: HEIGHT:LENGTH*WIDTH:1640x1050x550 a) GALLEY AC PLANT BODY DEEPLY RUSTED NEED TO BE DE-RUSTED, CLEANING & PAINTING. b) IF REPAIR COST IS TOO HIGH RENEWAL OF WHOLE BODY. 3) CONDENSOR RENEWAL: CONDENSOR TO BE RENEW WITH NEW ONE CONDENSOR SPECIFICATION: a) WATER COOLED SHELL & FINNED TUBE b) MODEL NO : UWC-204H c) TUBE : COPPER ALLOY LOW FIN TUBE (C687ZT)					
	10-26	A QUOTE LUMPSUM COST FOR ABOVE JOB WITH MATERIAL YARD SUPPLY,TREATMENT & COATING ,PAINTING OF WHOLE BODY,CONDENSER RENEWAL,BLOWER RENEWAL & GAS CHARGING WITH RUNNING TEST.	JOB	1.00			-
231	249	F.O INTER TRANSFER BUNKER LINE 14 FO INTER TRANSFER. LINES TO BE REMOVED, SHIFTING TO YARD, FABRICATE NEW AND TO BE FIX BACK WITH NEW GASNETS YARD SUPPLIED. DETAILS AS BELOW A) WASTED LINE TO BE RENEWED (OD=50MM,LL=500MM,FLANGE O/D=152MM, NO OF FLANGES =01)					
232	250	QUOTE FOR ABOVE JOBS WITH YARD SUPPLY MATERIALS OWNER SUPPLIED	PER LINE	14.00			-
11		Sub Total					
		SECTION - 11 DECK MACHINERY					
	11-01	MAKER: NIPPON PUSNES CO. LTD FOUNDATION OF WINDLASS AND WINCHES 2 in no's windlasses and 16 in no's winches foundations to be sand blasted and coated with primer supplied by vessel.					
233	251	A. PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH MATERIALS YARD SUPPLY .	JOB	1.00			-
	11-02	MAKER: NIPPON PUSNES CO. LTD. TYPE :K-17CU + NS200HW CAPACITY: 33.5 TON X 9 MMIN PORT SIDE WINDLASS (DM 2) WINCH 1. Remove mooring wire. 2. Remove windlass and winch drive shafts, gears and bearing housings to workshop. 3. Winch engage bar to be renewed. No staggering required 4. Check condition of keyways and calibrate the shaft for possible ovality. Provide build-up/reconditioning if required. 5. Rebuild and on completion test run windlass on board. 6.Engaging drive slipping issues for all winches required to build up/metals on meeting spaces or by grinding surfaces to make flat & equal hot work required if build up other wise grinder usage permission required. 7.DM-2 Outer port side Winch required to replace the main shaft built due to large clearance during operation observed jumping the whole winch. 8. Reset/pour chock- fast for the foundations of support frames. 9. Fit new brake linings to windlass brakes(Asbestos free) (2 bands on each drum and 2 bands on anchor windlass total 6 bands. 10. Allow for de-scaling of brake drums. Linings and screws yards supply. 11. Annual B.I.C Test to be carried out.					
234	252	A. QUOTE FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION & renewal of bearings.	JOB	1.00			-
	11-03	MAKER: NIPPON PUSNES CO. LTD TYPE: NS160HW AFT & FWD DECK WINCHES 06 WINCHES WINCH ENGAGE BAR TO BE RENEWED. NO STAGGING REQUIRED 1) Remove winch drive shafts, gears and bearing housings to workshop. It may be necessary to remove the bearing frames from bedplate chock fast mountings. 2) Dismantle and inspect all bearings and shaft surfaces for wear. Check condition of keyways and calibrate the shaft for possible ovality. Provide reconditioning of the shaft if required. 3) Re-fit winch to deck and pour chock fast resin. On completion test run winch. 4) Renew brakelining where required (Asbestos free) Lining, screws with nuts yard supply. 5)Engaging drive slipping issues for all winches required to build up/metals on meeting spaces or by grinding surfaces to make flat & equal hot work required if build up other wise grinder usage permission required. 6) 2 sets of brakelining = 4 bands on each winch. 7. Annual B.I.C Test to be carried out.					
235	253	A. QUOTE FOR THE ABOVE JOB ABOVE SCOPE AND RENEWAL OF BEARINGS	JOB per WINCH	6.00			-
	11-04	STBD & PORT ANCHOR STRIKER BAR PORT & STBD WINDLASS BRAKE OVERHAUL: 1) PORT & STBD WINDLASS BRAKE TO BE OVERHAULED. 2) REMOVE SHIFTD TO YARD 3) REPAIR/RENEWAL 4) FUNCTION TEST					
236	254	QUOTE FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING REMOVAL & TRANSPORTATION ,INSPECTION , RECONDITIONING & REFITTING CHARGES.	JOB	1.00			-

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
	11-05	MODEL=ELECTRO HYDRAULIC 360DEG SLEWING LUFFING TYPE JIB, HOISTING LOAD=150 TONS MAKER AND ADDRESS=SUNITOMO HEAVY INDUSTRIES Co., Ltd.) HOSE HANDLING CRANE ALL HOSES TO RENEWED AND RENEWAL OF SEAL. 1. ABOUT 15-20 T. ABOUT 15-20 MTR STAGGING REQUIRED. Railing Pipe O/D=39MM L=121m, Middle Railing O/D=22MM L=10.6m, Emergency Ladder Size O/D=20MM L= 0.35m (11PC) 2. HOSE HANDLING CRANE'S WIRE TO BE RENEWED 3. Rooking test to be carried out. 4. Top floor checker plate all damage (2x2 mtr) 5. All hydraulic high pressure line leaking. 6. JIB limit switch plate corroded. New to be fabricated 7. HOSE HANDLING CRANE REMOTE LEAKAGE TO BE REPAIRED 8-10 MTR STAGGING REQUIRED. 8. Certification with validity required.	JOB	1.00			-
237	255	SEPARATE QUOTATION FOR WIRE RENEWAL WITH OWNER SUPPLIED MATERIAL	JOB	2.00			-
	11-06	MODEL= EEO-05085 / EEO-01085, HOISTING LOAD=5.0ton / 0.8ton PROVISION CRANE PORT & STBD SIDE 1) Annual overhauling and through examination of hydraulic hose pipes/blocks/sheaves/loose gear. 2) PROVISION CRANE'S WIRE TO BE RENEWED 3) Rooking test to be carried out. 4) Certification with validity required. 5) Spares to be supplied either by yard or owner.	JOB	2.00			-
238	256	SEPARATE QUOTATION FOR WIRE RENEWAL RENEWAL WITH OWNER SUPPLIED MATERIAL	JOB	2.00			-
	11-07	INSULATED ELECTRIC SUPPLY TO FWD LIFE RAFT LIGHT POST 1. INTRINSICALLY SAFE ELECTRIC CONNECTION & LIGHT POST FROM CONDUITE LINE JUNCTION BOX TO THE FWD LIFE RAFT EMBARKATION PLATFORM ON PORT & STBD SIDE TO BE FABRICATED. 2. LENGTH OF PIPE = 70 MTRS (35 MTRS ON PORT SIDE FROM CONDUITE LINE JUNCTION BOX TO LIGHT POST & 35 MTRS ON STBD SIDE FROM CONDUITE LINE JUNCTION BOX TO LIGHT POST). Yard Supply DIA OF PIPE = 01 INCH 3. LENGTH OF INTRINSICALLY SAFE CABLE = 75 MTRS. Yard Supply 4. NO. OF FLANGES = 04 ON EACH SIDE. Yard Supply	JOB	1.00			-
239	257	A QUOTE LUMPSUM FOR ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL	JOB	1.00			-
	11-08	MAKER: KASHIWA, MODEL: FWD-TK40F, AFT-TK40A Emergency Towing Arrangement(ETA) 1. Visual inspection by ship staff 2. MPI test & Load Test 3. Test certificate required 4. Surveyor to witness 5. Emergency towing arrangement components periodical inspection, service and Class survey : 6. Fret chaffing chain 7. Smith brackets 8. Chain stopper 9. AR ETA rope 10. AR ETA strong point 11. AR ETA strong drum and air motor 12. Towing rope to be disconnected from stowing drum and Carry out inspection by competent yard personnel. 13. Renewal and repair of mooring winch and cable	JOB	1.00			-
240	258	QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS, INCLUDING FOR TESTING OF ETA ARRANGEMENT	JOB	1.00			-
	11-09	Mooring Winch and Windlass MAKE: NIPPON PUSHER CO. LTD. ; Cable Lifter J-19CU Capacity:338 KN, Mooring Winch: NS200HW, Capacity: 147KN, Hyd. Motor: HMC200,MAKE:KAWASAKI PRECISION MACHINERY (UK) LTD. PORT & STBD-SIDE WINDLASS MOTOR OVERHAULING 1. Removal of hydraulic motor, two speed valve, counter balance valve, flow & directional control valve, check valve or interlock valve as may be necessary after discussion and approval from C/E or Superintendent Engineer. 2. Hydraulic motor to be overhauled along with operating blocks. High pressure O-rings in operating blocks to be renewed. 3. Hydraulic leakages in block and lines to be rectified. 4. To be operational tested in yard workshop 5. Firing back and then testing in front of ship's representative. 6. Preferably this job to be carried out by makers approved hydraulic specialist. 7. Preferably this job to be carried out by makers approved hydraulic specialist.	JOB	1.00			-
241	259	A QUOTE FOR ABOVE JOB LUMPSUM WITH YARD SUPPLIED MATERIALS AND TRANSPORTATION, INSPECTION, OVERHAULING & TESTING CHARGES.	JOB	1.00			-
		Sub Total					
12		SECTION - 12 ELECTRICAL MACHINERY					
	12-01	MAIN SWITCHBOARD & ACB EXAMINATION AND CLEANING. MAKE UZUSHIO ELECTRIC CO LTD 440V 3 PHASE ACB SPECIFICATION MAKER : TERASAKI TYPE : ACBIS NO. OF POLE : 3P RATED VOLTAGE AC 450V RATED FREQUENCY 60HZ RATED CURRENT: 1167A CT RATING 16000A OCR MODEL: AGR-1IS-PS REASON FOR REPAIR: Routine inspection and service during vessel dry-docking. 1.SCOPE OF WORK: 1.1 Yard to arrange maker's authorized service engineer. 1.2 Service, test and calibration 1.3 Test and certification 1.4 Class survey 1.5 Cleaning of Main switch Board					
242	260	QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING CALIBRATION OF ACB'S & CLEANING OF PANELS.	Per Unit Cost	3.00			-
	12-02	EMERGENCY SWITCHBOARD & ECB EXAMINATION AND CLEANING. MAKE UZUSHIO ELECTRIC CO LTD, TYPE: RATING 150KVA (150A), 440V 3PHASE, ECB SPECIFICATION MAKER : TERASAKI TYPE : AME38 NO. OF POLE: 3P RATED VOLTAGE AC 450V RATED FREQUENCY 60HZ RATED CURRENT 192.5 A , CT RATING 2500/0.05 A REASON FOR REPAIR: Routine inspection and service during vessel dry-docking. 1.SCOPE OF WORK: 1.6 Yard to arrange maker's authorized service engineer. 1.7 Service, test and calibration 1.8 Test and certification 1.9 Class survey 1.10 Cleaning of Emergency switch Board					
243	261	QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING CALIBRATION OF ACB'S & CLEANING OF PANELS.	JOB	1.00			-
	12-03	3 MAIN ALTERNATORS FOR CLEANING & EXAMINATION. TYPE: BRUSH LESS FEK547C VOLTS : 450 V, 60 HZ AMPERES : 1167 POWER (KVA) : 925 MANUFACTURER: TAIYO ELECTRIC CO., LTD., GIFU FACTORY REASON FOR REPAIR: Routine periodical service. 1.SCOPE OF WORK: 1.11 Service and Certification. 1.12 Testing and Class Survey.					
244	262	QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING CLEANING & SERVICING OF ALTERNATORS.	JOB	1.00			-

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
	12-04	GENERATOR AUTOMATION PANEL EXAMINATION & CALIBRATION TYPE: BRUSH LESS FEK547C VOLTS : 450 V, 60 HZ AMPERES : 1187 POWER (KVA) : 925 MANUFACTURER: TAIYO ELECTRIC CO., LTD., GIFU FACTORY REASON FOR REPAIR: Routine periodical service and cleaning of generator automation panel. 1.SCOPE OF WORK: 1.1 Lighting, ventilation and cleaning facilities. 1.2 Cleaning and inspection of generator automation panel.					
245	263	QUOTE FOR TOTAL LUMPSUMCOST FOR ABOVE JOBSWITH YARD SUPPLY MATERIALS INCLUDING CLEANING,SERVICING & TESTING OF GENERATOR AUTOMATION PANEL. MAKER: SUNRUI ENVIROMENT ENGINEERING CO. LTD ONE UNIT BTWS FILTER CLEANING REQUIRED TO BE CARRIED OUT BY YARD YARD TO ASSIST IN CARRYING OUT OPERATIONAL TEST OF SYSTEM	JOB	1.00			-
246	264	A PLEASE QUOTE FOR FILTER CLEANING AND OPERATIONAL TEST ASSISTANCE BALLAST WATER TREATMENT VALVE ATTENDAGE FOR AUTOMATION MAKER: SUNRUI ENVIROMENT ENGINEERING CO. LTD	JOB	1.00			-
	12-06						
	12-07	A PLEASE QUOTE FOR FILTER CLEANING AND OPERATIONAL TEST ASSISTANCE STEERING GEAR #1 & #2 MOTOR INSPECTION, SURVEY & OVERHAULING. MAKE: TIYO TYPE : 17S-225S VOLTS: 440V / PHASE: 3 PHASE 60HZ. OUTPUT: 90 / 7.5 KW CURRENT:66 / 20AMPS POLES: 4 / 8P RPM:176587S MASS: 366KGS BRGS : 6314ZCC3; 7312D8 1. SCOPE OF WORK: Removal from its base & Transport to workshop.Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks.Reassembling, test run and verify temperature rise . lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)	JOB	1.00			-
247	266	QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES. MAIN ENGINE AUXILIARY BLOWER MOTOR AND FAN (02 IN NOS) INSPECTION, SURVEY & OVERHAULING. VOLTS: 440V PHASE: 3 PHASE 60HZ. OUTPUT: 50 KW CURRENT:79 AMP S POLES: 2P RPM: 3540 MASS: 335KGS BRGS : 6212ZCC3; 6213ZCC3 1. SCOPE OF WORK: Removal from its base & Transport to workshop.Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks.Reassembling, test run and verify temperature rise . lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)	JOB	1.00			-
	12-08						
248	267	QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES.	Per Unit Cost	2.00			-
	12-09	IG BLOWERS MOTORS AND FANS (2 IN Nos) INSPECTION, SURVEY & OVERHAULING. VOLTS: 440V PHASE: 3 PHASE 60HZ. OUTPUT: 55 KW CURRENT: 86 AMP S POLES: 2P RPM: 3530 MASS: 365KGS BRGS : 6312ZCC3; 6312ZCC3 1. SCOPE OF WORK: Removal from its base & Transport to workshop.Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks.Reassembling, test run and verify temperature rise . lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
249	268	A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES.	Per Unit Cost	2.00			-
	12-10	A U S VACUM PUMP MOTOR NO.1 AND 2 INSPECTION, SURVEY & OVERHAULING. MAKE: TAIYO TYPE: T10V-225S VOLTS: 440V PHASE: 3 PHASE 60HZ. OUTPUT: 11KW CURRENT: 21AMPS POLES: 4P RPM: 1190 MASS: 65KGS BRGS : 6309ZCC3; 6307ZCC3 1. SCOPE OF WORK: Removal from its base & Transport to workshop.Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks.Reassembling, test run and verify temperature rise . lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
250	269	QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES.	Per Unit Cost	2.00			-
	12-11	MAIN LUBE OIL PUMP MOTORS #1 & #2 INSPECTION, SURVEY & OVERHAULING. VOLTS: 440V PHASE: 3 PHASE 60HZ OUTPUT: 70KW CURRENT: 112 AMPS POLES: 4P RPM: 1770 MASS: 910 KGS BRGS: 6218; 6313Z 1. SCOPE OF WORK: Removal from its base & Transport to workshop.Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks.Reassembling, test run and verify temperature rise . lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
251	270	QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES.	Per Unit Cost	2.00			-
	12-12	PIRE & GS PIP MOTOR INSPECTION, SURVEY & OVERHAULING. MAKE: TAIYO TYPE: T10V-225S VOLTS: 440V / PHASE: 3 PHASE 60HZ OUTPUT: 65KW CURRENT: 103AMPS POLES: 4P RPM: 1760 MASS: 368KGS BRGS : 6312ZCC3; 6218 1. SCOPE OF WORK: Removal from its base & Transport to workshop.Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks.Reassembling, test run and verify temperature rise . lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
252	271	QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES.	JOB	1.00			-

	Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
		12-13	FIRE BILGE AND BALLAST MOTOR INSPECTION, SURVEY & OVERHAULING. MAKE : TAIYO TYPE: TIDV-225S VOLTS: 440V PHASE: 3 PHASE 60HZ. OUTPUT: 65KW CURRENT: 103AMPS POLES: 4P RPM: 1760 MASS: 365KGS BRGS: 3132ZC3; 6218 1. SCOPE OF WORK: Removal from it's base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. Lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
253	272		QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGER.	JOB	1.00			-
		12-14	BALLAST PUMP MOTOR NO.1 AND 2 INSPECTION, SURVEY & OVERHAULING. MAKE : TAIYO TYPE: TIDV-225S VOLTS: 440V PHASE: 3 PHASE 60HZ OUTPUT: 200KW CURRENT: 315 AMPS POLES: RPM: 1180 MASS: 365KGS BRGS : 6222 ; 6318 1. SCOPE OF WORK: Removal from it's base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. Lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
			QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGER.	Per Unit Cost	2.00			-
254	273		BOILER MAIN FEED PUMP MOTOR NO. 1 AND 2 INSPECTION, SURVEY & OVERHAULING. MAKE : TAIYO TYPE: TIDV-225S VOLTS: 440V PHASE: 3 PHASE 60HZ. OUTPUT: 90KW CURRENT: 103AMPS POLES: 4P RPM: 3525 MASS: 365KGS BRGS : 6312ZC3; 6312ZC3 1. SCOPE OF WORK: Removal from it's base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. Lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
		12-15	A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGER.	Per Unit Cost	2.00			-
255	274		AUX BOILER TO FAN MOTOR NO.1 AND 2 INSPECTION, SURVEY & OVERHAULING. MAKE : TAIYO TYPE: TIDV-225S VOLTS: 440V PHASE: 3 PHASE 60HZ, OUTPUT: 90KW CURRENT: 110AMPS POLES: 4P RPM: 1760 MASS: 365KGS BRGS : 6313ZC3; 6218 1. SCOPE OF WORK: Removal from it's base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. Lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
		12-16	A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGER.					
			A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGER.	Per Unit Cost	2.00			-
256	275		ENGINE ROOM VENT FAN MOTOR (WITH FAN) NO.1, 2, 3, 4 INSPECTION, SURVEY & OVERHAULING. MAKE : TAIYO TYPE: FA-B-110-3J VOLTS: 440V PHASE: 3 PHASE 60HZ. OUTPUT: 18.5KW CURRENT: 35AMPS POLES: 6 P RPM: 1160 MASS: KGS BRGS : 6311ZC3 1. SCOPE OF WORK: Removal from it's base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. Lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
		12-17	A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGER.					
257	276		OS COMPRESSOR MOTOR INSPECTION, SURVEY & OVERHAULING. MAKE : TYPE VOLTS: 440V PHASE: 3 PHASE 60HZ. OUTPUT: 35KW CURRENT: AMPS RPM: 3520 MASS 140KG SCOPE OF WORK: Removal from it's base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. Lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
		12-18	A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGER.	Job	1.00			-
258	277		MAIN AIR COMPRESSOR ELECTRIC MOTOR (62 IN NOS) INSPECTION, SURVEY & OVERHAULING. MAKE : TAIYO TYPE: TIT-225S VOLTS: 440V PHASE: 3 PHASE 60HZ. OUTPUT: 45 KW CURRENT: 76AMPS POLES: 6P RPM: 1175 MASS: Ca 380 KGS BRGS : 6316ZC3; 6213ZC3 1. SCOPE OF WORK: Removal from it's base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. Lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
		12-19	A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGER.	Per Unit Cost	2.00			-
259	278		A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGER.					

	Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
		12-20	MAIN COOLING SEA WATER MOTORS (2 NOS) INSPECTION, SURVEY & OVERHAULING. MAKE: TAIYO TYPE: TIT-2255 VOLTS: 440V PHASE: 3 PHASE 60HZ OUTPUT: 65 KW CURRENT: 153AMPS POLES: 4P RPM: 1760 MASS: 350 KGS BRGS : 6216; 6213ZZ 1. SCOPE OF WORK: Removal from its base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
260	279		A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES.	Per Unit Cost	2.00			-
		12-21	PUMP ROOM EXH FAN MOTOR WITH FAN INSPECTION, SURVEY & OVERHAULING. MAKE: TAIYO TYPE: TIT-2605 VOLTS: 440V PHASE: 3 PHASE 60HZ OUTPUT: 37KW CURRENT: 63AMPS POLES: 8 P RPM: 880 MASS: KGS BRGS : 6313ZZC3; 6218 1. SCOPE OF WORK: Removal from its base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
261	280		A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES.	JOB	1.00			-
		12-22	HYDRAULIC PUMP MOTOR # 1, 2, 3, AND 4 INSPECTION, SURVEY & OVERHAULING. 1. SCOPE OF WORK: Removal from its base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
262	281		A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES.	Per Unit Cost	3.00			-
		12-23	ACCOM. A/C BLOWER INSPECTION, SURVEY & OVERHAULING. MAKE: TAIYO TYPE: TIT-160L VOLTS: 440V PHASE: 3 PHASE 60HZ OUTPUT: 15KW CURRENT: 24 AMPS POLES: 4P RPM: 1740 MASS :137KG BRGS: 6313C3ZZ, 6218C3 1. SCOPE OF WORK: Removal from its base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
263	282		A QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES.	Per Unit Cost	2.00			-
		12-24	COPT COND CIRC PUMP MOTOR 01 INSPECTION, SURVEY & OVERHAULING. MAKE: TAIYO TYPE: TIT-160L VOLTS: 440V PHASE: 3 PHASE 60HZ OUTPUT: 15KW, CURRENT: 24 AMPS POLES: 4P RPM: 1740 MASS : 137KG BRGS: 6313C3ZZ, 6218C3 1. SCOPE OF WORK: Removal from its base & Transport to workshop, Dismantle, cleaning of stator and rotor using appropriate methods, overhaul Renewal of bearings clean and inspect bearing housing. Electrical insulation and resistance testing Dynamic balancing of rotor afterwards Load test in workshop and operational test onboard after refitting vibration and alignment checks Reassembling, test run and verify temperature rise. lubrication with recommended grease. shaft bearing area re conditioning machining and build up 0.1 to 0.5 mm(if required) end covers bearing area reconditioning by buildup and machining / ndt: machining and build up in the range: 0.1 mm to 0.5 mm(if required) re-sleeving bearing housing(if required)					
264	283		QUOTE LUMPSUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING TRANSPORTATION ,CLEANING,OVERHAULING ,DYNAMIC BALANCING,LOAD TESTING & OPERATION TESTING ONBOARD,VIBRATION & ALIGNMENT CHECKING,LUBRICATING & RUNNING TEST CHARGES.	Job	1.00			-
		12-25	ER VENT FAN CASING (PORT/STBD SIDE) & FUNNEL DAMPERS MODEL# FA-B-110-3J MAKER# Taiyo Electric Co., Ltd. 1.SCOPE OF WORK: 1.1 4 off ER fan casings repairs and treatment. 1.2 5 sets fire dampers and fire dampers remote control 1.3 Test and class survey. Allow for the following scope of work to be carried out after blasting : a) Dismantle and overhaul 5 off fire dampers flaps, shafts, bearings. b) Straightening and thread dressing of the shaft / nuts c) Renew / insert wasted steelwork areas. d) Cleaning and inspection of the noise absorber. e) All grease nipples and small bore tubing renewal. f) 4 off alternators to be cleaned, examined and deficiencies rectified. g) Lower areas surface treatment and coating spot damages repair					
265	284		QUOTE LUMP SUM FOR ABOVE JOB FOR SERVICEING OF ALL DAMPERS	JOB	1.00			-
		12-26	ER TRANSFORMER INSPECTION & CLEANING. MAKER: UZUSKIO ELECTRIC CO LTD. MAIN TRANSFORMER: UT-40SE26-450V,3 PHASE,30 KVA EMERGENCY TRANSFORMER: UT-22 SE26-400V,3PHASE,22 SKVA BOW LIGHT TRANSFORMER: UT-7.5D26-450V,3-PHASE,7.5KVA SUPPLY LABOUR, MATERIALS AND EQUIPMENT TO OPEN UP TRANSFORMER FOR INTERNAL CLEANING AND EXAMINATION. SUPPLY NECESSARY VENTILATION, HEAT LAMPS ETC. CLEAN ALL ELECTRICAL WINDINGS AND TERMINALS WITH AN APPROVED CLEANING FLUID. INSULATION RESISTANCE TO BE RAISED ABOVE 100 MEGA OHMS, IN COLD CONDITION, PRIOR TO SPRAYING WITH APPROVED INSULATION VARNISH. REINSTALL ALL COVERS REPLACING GASKETS AND BOLTS AS NECESSARY, AFTER SURVEY AND INSPECTION. ALLOW FOR YARD/OWNER TO SUPPLY ALL MATERIALS & FOR ANY NECESSARY REPAIRS.					
266	285		QUOTE LUMPSUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING CLEANING & SERVICEING OF ALTERNATORS.	UNIT PRICE	3.00			-

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
		SHAFT GROUNDING SYSTEM MAKE: THE NIPPON CORROSION ENGINEERING CO.LTD. MODEL:3682S-1 1.SCOPE OF WORK: 1.1 Pre-repair inspection Tests and submission of condition report - as found. 1.2 Removal/Installation for access during hull shaft service and Class certification. 1.3 Propulsion shafting earthing device service, repair, setting, trials. 1.4 Arranging qualified personnel to carry out service and sea trials attendance 3) Certificates & Reports. 1) Condition report - as found. 2) Service report - as carried out. 3) Yard testing equipment calibration certificate.					
267	286	QUOTE TOTAL COST FOR ABOVE JOBS INCLUDING SERVICING	JOB	1.00			-
		BATTERIES RENEWAL OF PLC & CONTROLLER Required maker service technician or yard approve technician for replacing various controllers and plc batteries renewal batteries with makers spares. 1) BOILER CONTROLLER PLC (LITHIUM BATTERY FOR PLC) 2) MBB CONTROLLER PLC (LITHIUM BATTERY FOR PLC) 3) GOVERNOR CONTROL BATTERY (BATTERY BOARD OF SERVO DRIVER: PCB BBT-06 4) BOILER SMOKE INDICATION (LITHIUM BATTERY FOR SMOKE INDICATION)					
268	287	A. PLEASE QUOTE LUMP SUM AMOUNT FOR THE ABOVE JOB. BATTERIES OWNER SUPPLY	JOB	1.00			-
		LOAD BANK TESTING OF ACCOMADATION DISTRIBUTION CIRCUIT BREAKERS - Carry out load bank testing of accommodation distribution circuit breakers under controlled load conditions. - Verify breaker operation/overload/short circuit protection and tripping functions. - Renewal break switch and control cable/terminals and connections as per requirement.					
		Sub Total					
13		SECTION - 13AUTOMATION AND CONTROL/ GAUGES/ SAFETY EQUIPMENT					
		13-01 MAIN ENGINE, AUX ENGINE, F.O PURIFIER HEATER AND AUX BOILER F.O HEATERS NO-1 AND NO-2 CONTROLLER TO BE OVER HAULED AND CALIBRATED.					
269	288	A. QUOTE LUMP SUM FOR SERVICING OF DAVITS, LOAD TEST AND GEARBOX	Job	1.00			-
		MAIN ENGINE PNEUMATIC MANOEUVRING SYSTEM HEALTH CHECK & SERVICING PNEUMATIC VALVES, CYLINDER & ACTUATOR. SCOPE AND WORK: CARRY OUT COMPLETE HEALTH CHECK OF THE MAIN ENGINE MANOEUVRING SYSTEM INSPECT, SERVICE AND OVERHAUL PNEUMATIC VALVES AND CYLINDER ACTUATORS. RENEW DEFECTED SEALS, O-RING, DIAPHRAM AND GASKETS, ADJUST AND CALIBRATE THE SYSTEM. CARRY OUT FUNCTION TESTING OF AHED AND ASTERN MANOEUVRING AND CONFIRM SATISFACTORY OPERATION.					
270	289	QUOTE LUMP SUM FOR LOAD TEST	JOB	1.00			-
		13-03 BRIDGE MANOEUVRING SYSTEM TO BE CHECK FOR SERVICING AND CALIBRATION REQUIRED. SCOPE AND WORK: CARRY OUT COMPLETE INSPECTION OF BRIDGE MANOEUVRING SYSTEM SERVICE ALL RELEVANT CONTROL CONNECTIONS AND WIRING CONNECTIONS. CHECK CALIBRATE AND ADJUST THE SYSTEM AS PER MAKER SPECIFICATION. VERIFY AHEAD/ ASTERN COMMANDS, ENGINE RESPONSE AND SAFETY INTERLOCKS. CARRY OUT FUNCTIONAL TESTING AND CONFIRM SATISFACTORY OPERATION.					
271	290	QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS	JOB	1.00			-
		13-04 F.O SERVICE TANK LEVEL GAUGE, F.O OVER FLOW TANK LEVEL GAUGE AND INCINERATOR WASTE OIL TANK LEVEL GAUGE NEEDS TO BE CALIBRATE AND OVERHAULED. SCOPE AND WORK: OVERHAULED AND CALIBRATE THE F.O SERVICE TANK LEVEL GAUGE, F.O OVER FLOW TANK LEVEL GAUGE AND INCINERATOR WASTE OIL TANK LEVEL GAUGE. VERIFY INDICATION ACCURCY CARRY OUT FUNCTION TESTING OPERATION AND CONFIRM SATISFACTORY SYSTEM.					
272	291	QUOTE LUMP SUM FOR ABOVE JOB.	JOB	1.00			-
		13-05 LIFE BOAT RELEASE GEAR SERVICE AND ON LOAD FUNCTION TEST. BOAT DETAILS: MFG: JIANGYIN KINGONG FRP 13UJI HEAVY INDUSTRIES CO LTD TYPE: RHE PROTECTED LIFEBOAT 17-GPM-4.8M/ 33 PERSONS - 4.8M X 2.3M X 1.2M. FULL LOAD - 6061 KG. LIFTING HOOKS - JX-1 ON / OFF RELEASE GEAR TYPE, SWL 4T. The lifeboat release gear requires to be serviced by Maker Approved shore contractor to comply with the renewal conditions of the safety construction certificate. Please allow for the following: 1. Storage of the boats ashore in line with 20-01 3. Allow for renewal of the release mechanism wires. Wires Owner supply. 4. Allow for renewal of the parts if any in the release mechanism. 5. Provide transport to dock side, crane, lifting equipment, sand bags and contractor to carry out on load release to satisfaction of attending surveyor. 6. Both lifeboat to be painted 7. Both lifeboat to be mark with Name, IMO, Port of registry, Capacity etc 9. Last annual service dated: 09-09-2024					
273	292	QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS INCLUDING WIRE RENEWAL CHARGES & LOAD TESTING CHARGES.	JOB	1.00			-
		13-06 ACCOMMODATION OUTSIDE STAIRS STEP 1. APPROX 50X05 STAIRS STEP LENGTH=220 mm, WIDTH= 700mm PLATE OUTSIDE ACCOMMODATION TO BE RENEWED. 2. DIFFERENT STAGGING REQUIRED 3. SEPARATELY QUOTE PRICE FOR SINGLE PRIMER COAT PER SQUARE METRE/PER UNIT LENGTH					
274	293	PLEASE QUOTE LUMP SUM FOR ABOVE JOB. RENEWAL WITH YARD SUPPLIED MATERIAL	Per Pc	60.00			-
		13-07 PUMP ROOM & BALLAST TANKS GAS DETECTORS MAKER: KOMYO RIKAGAKU KAGYO K.K TYPE: FOMA-T41TW DETECTION GAS HC, O2, H2S TOTAL NO. OF SENSORS = (06) A) Sensors to be checked and calibrated. B) Gas extraction pumps for samples to be inspected. C) After calibration sensors to be fitted back in place and system operational test/trial in presence of ships representative. D) Furnish calibration certificate. E) Two ballast tanks gas detector pipes resting plates badly wasted to be renewed. PLEASE QUOTE FOR SENSOR CALIBRATION.	PER UNIT COST	6.00			-
275	294	13-08 BA AIR COMPRESSOR MAKE: BAUER JUNIOR II , J11W CAPACITY 100 LTR/MIN BA air compressor inspection, certification & sample to be tested for oil free by authorized maker's contractor. After completion of work service certificate to be issued.					
276	295	QUOTATION FOR SERVICE OF COMPRESSOR	JOB	1.00			-
		13-09 ECHO SOUNDER MANUFACTURER: FURUNO MODEL: FE 709 1. Complete servicing of system function and features test by authorized maker's contractor. 2. Complete in accordance with IMO and ISO standards MSC 74(69) annex 4 and ISO 9875 3. Alarms to be check for shallow water, bottom lost, power drop. 4. Hull mounted fittings/sensors to be cleaned and serviced for proper functioning. 5. NEEDS CALIBRATION, SERVICING AND CERTIFICATION WITH VALIDITY.					
277	296	PLEASE QUOTE FOR INSPECTION OF SYSTEM	JOB	1.00			-
		13-10 DOPPLER LOG MANUFACTURER: FURUNO MODEL: D380 1. Complete servicing of system function and features test by authorized maker's contractor. 2. Alarms to be check for shallow water, bottom lost, power drop. 3. Hull mounted fittings/sensors to be cleaned and serviced for proper functioning. 4. NEEDS CALIBRATION, SERVICING AND CERTIFICATION WITH VALIDITY 6. Sensors not displaying following parameters I. Wind/current II. Depth/LRC III. Rate of turn(ROT)					
318	297	PLEASE QUOTE FOR INSPECTION OF SYSTEM & RENEWL OF DOPPLER LOG.	JOB	1.00			-
	13-11	PRESSURE GAUGES					

	Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
			TOTAL PRESSURE GAUGES 75 nos pressure gauges on main engine local control. Cargo control console. COPT. control console and boiler gauge board to be calibrated and adjusted, head adjustment to be made (head loss due to height of pressure gauge). ME MANEUVER STAND (TOTAL 9) L.O IN, PIST COOL IN, SCAM AIR, TIC L.O IN, STARTING AIR, JACKET IN, EXH VIV L.O IN, MANEUVER AIR, ECR CONSOLE (TOTAL 4) MAIN AIR BOTTLE 182, MANEUVER AIR PRESS, COPT VACCUUM GAUGE. COPT (TOTAL 903) GLAND STEAM, STEAM CHEST, SUCTION, EXHAUST, DISCHARGE, L.O IN. AIR RESERVOIR (TOTAL 4) AIR BOTTLE 182, CONTROL AIR, SERVICE AIR BOILER (TOTAL 6) FEED WTR, F.O, STEAM, ATOMIZING STEAM CARGO CONTROL CONSOLE COP SUCTION & DISCHARGE (06), STEAM CHEST PRESS(04),STRIPPING PUMP SUCTION &DISCHARGE (02),CARGOEDUCTOR DRIVE, SUCTION & DISCHARGE (03),BALLAST PIP SUCTION, DISCHARGE (04 NOS), DRIVEDISH SUCTION (03 NOS),TANK CLEANING LINE PRESS,TEMP (02 NOS),CONTROL AIR PRESS (01),AUS PRESSURE GUAGES (3 NO S) AND AUS LEVEL AND DISCHARGE VALVE OPENING,CLOSING INDICATOR(3 NO S) DECK MANIFOLD PORT & STBD (06 NOS)					
	319	298	PLEASE QUOTE FOR CALIBRATION OF ALL PRESSURE GAUGES & CERTIFICATION	PER UNIT COST	82.00			-
		13-12	A U S LEVEL TRANSMITTER & VIV POSITION TRANSMITTER CALIBRATION MAKER SINKO TYPE : DIAPHRAM PNEUMATIC DIFFERENTIAL PRESSURE TRANSMITTER Three AUS level transmitter & Viv position transmitter inspection & calibration to be carried out. a) AUS level transmitter & viv position transmitter, inspection, over hauling & calibration inplace.Sparees are supplied by owner. b) AUS level transmitter & viv position transmitter, inspection, over hauling & calibration inplace.Sparees are supplied by yard.					
	320	299	QUOTE FOR FAULT RECTIFICATION OF THE SYSTEM & CALIBERATION	JOB	1.00			-
		13-13	ACCOMODATION GAS DETECTORS INSPECTION, CALIBRATION & CERTIFICATION. MAKER: RIKEN KEIKI CO LTD MODEL RM -990 Sensor for combustible gases In smoke rooms, galley, CCR, A/C duct, accomm 'n' deck 04 nos sensors to be inspected and calibrated. Certificate to be furnished. 1. ALL GAS DETECTORS TO BE CALIBRATED WITH THEIR PANELS IN CCR. 2. DETECTORS TO BE RENEWED IF REQUIRED. 3. ACCOMODATION A/C DUCT GAS DETECTOR FAULTY TO BE RENEWED. 4. SPARE SUPPLIED BY OWNER/YARD. 5. CERTIFICATION WITH VALIDITY REQUIRED.					
	321	300	Satisfactory trial of alarms after fitting in place to be made in presence of ship's representative. SEPARATELY QUOTE FOR CALIBRATION OF SYSTEM I.G. PRESSURE SENSORS	JOB	1.00			-
		13-14	1. VARIOUS CCR PANEL I.G. PRESSURE SENSORS SHOWING WRONG PRESSURE ON DIGITAL LEVEL INDICATOR PANEL. 2. 35 NEW PRESSURE TRANSMITTERS ALREADY RENEWED BY SHIP STAFF BUT PRESSURE STILL SHOWING WRONG. 3. ALL COTS DIGITAL LEVEL INDICATORS TO BE CALIBRATED. 4. SERVICING AND CALIBRATION AND FAULT RECTIFICATION OF I.G PRESSURE SENSORS BY MAKER SERVICE ENGINEER.					
	322	301	SEPARATELY QUOTE FOR CALIBRATION OF SYSTEM (ALL TANKS)	JOB	1.00			-
		13-15	BILGE TANK INSPECTION & CLEANING & BOTTOM PLATE CLEANING AND PAINTING. 1.SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags.Pumping/Removal and disposal FO and Oily Water.ventilation & gas free provide lighting.Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if required.					
			QUOTE LUMP SUM FOT THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING.REMOVAL OF SLUDGE,VENTILLATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
	323	302	CAPACITY=22 CUBIC METER BILGE & SLUDGE TANK CLEANING AND SOUNDING PIPES CLEANING REASON FOR REPAIR: Cleaning, inspection and class survey 1. SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags.Pumping/Removal and disposal FO and Oily Water.ventilation & gas free provide lighting.Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if required.					
			QUOTE LUMP SUM FOT THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING.REMOVAL OF SLUDGE,VENTILLATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
	324	303	CAPACITY= 3 CUBIC METER PRIMARY BILGE TANK CLEANING REASON FOR REPAIR: Cleaning, inspection and class survey 1. SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags.Pumping/Removal and disposal FO and Oily Water.ventilation & gas free provide lighting.Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if required.					
		13-17	QUOTE LUMP SUM FOT THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING.REMOVAL OF SLUDGE,VENTILLATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
	325	304	CAPACITY= 1.2 CUBIC METER. HYDROPHORE FW AND DIST WTR TANK CLEANING REASON FOR REPAIR: Cleaning, inspection and class survey 1. SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags.Pumping/Removal and disposal FO and Oily Water.ventilation & gas free provide lighting.Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if required.					
		13-18	A) QUOTE LUMP SUM FOT THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING.REMOVAL OF SLUDGE,VENTILLATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	2.00			-
		13-19	CAPACITY= 1.2 CUBIC METER STUFFING BOX DR TANK CLEANING REASON FOR REPAIR: Cleaning, inspection and class survey 1. SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags.Pumping/Removal and disposal FO and Oily Water.ventilation & gas free provide lighting.Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if required.					
			QUOTE LUMP SUM FOT THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING.REMOVAL OF SLUDGE,VENTILLATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
	327	305	CAPACITY = 1.2 CUBIC METER SCAVENGE DR TANK CLEANING REASON FOR REPAIR: Cleaning, inspection and class survey 1. SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags.Pumping/Removal and disposal FO and Oily Water.ventilation & gas free provide lighting.Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if required.					
		13-20	QUOTE LUMP SUM FOT THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING.REMOVAL OF SLUDGE,VENTILLATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
	328	307	CAPACITY= 30.9 CUBIC METER DIESEL OIL SERV TANK CLEANING REASON FOR REPAIR: Cleaning, inspection and class survey 1. SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags.Pumping/Removal and disposal FO and Oily Water.ventilation & gas free provide lighting.Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if required.					
		13-21	A) QUOTE LUMP SUM FOT THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING.REMOVAL OF SLUDGE,VENTILLATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
	329	308						

Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
		CAPACITY= 1.6 CUBIC METER PURIFIER FUEL OIL SLUDGE TANK CLEANING REASON FOR REPAIR: Cleaning, inspection and class survey 1. SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags.Pumping/Removal and disposal FO and Oily Water.ventilation & gas free provide lighting.Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if required.Pressure testing of heating coil at standard pressure.replacement of leaky heating coil.					
330	329	A) QUOTE LUMP SUM FOT THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING.REMOVAL OF SLUDGE,VENTLLATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
		CAPACITY= 1.7 CUBIC METER. CLEAN DRAIN TANK INSPECTION AND CLEANING REASON FOR REPAIR: Cleaning, inspection and class survey 1. SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags.Pumping/Removal and disposal FO and Oily Water.ventilation & gas free provide lighting.Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if require					
331	330	QUOTE LUMP SUM FOT THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING.REMOVAL OF SLUDGE,VENTLLATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
		CAPACITY= 1.5 CUBIC METER. COFFER DAM INSPECTION AND CLEANING REASON FOR REPAIR: Cleaning, inspection and class survey 1. SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags.Pumping/Removal and disposal FO and Oily Water.ventilation & gas free provide lighting.Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if require					
332	331	A) QUOTE LUMP SUM FOT THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING.REMOVAL OF SLUDGE,VENTLLATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
		OXYGEN ANALYZER 02 IN NO.5 1. 02 analyzer MAKER: MISUZU Industrial Corp. TYPE/MODEL (SENSOR UNIT):EcoazC-28B-S / MD II CONTROL UNIT:DIGITAL VOLTAGE / POWER :AC 100V / 200VA OUTPUT VOLTAGE / AMPS :4 TO 20 mAmp 0.2 02 analyzer + CROWCON X GARD TYPE 1 02 0-25 % VOL , SENSOR PART NO. S011265S), SERIAL NO. W356304-003 REASON FOR REPAIR: Routine periodical service, calibration, test and certification. 1. SCOPE OF WORK: 1.1 Yard to arrange Maker's authorized service engineer 1.2 Service test, calibration 1.3 Test and calibration 1.4 Class Survey NOTE: OXYGEN ANALYZER NO.2 CROWCON SENSOR FAULTY. RENEWAL OF FAULTY SENSOR					
333	332	PLEASE QUOTE FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,OVERHAULING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES.	PER UNIT COST	2.00			-
		OIL DISCHARGE MONITORING SYSTEM MANUFACTURER: HESKON PUMPS WORKS CO LTD CONTROL UNIT TYPE: CLEAN TRACK 1000 MANUFACTURER : BRANNSTROM ELEKTRONIK AB A) COME GPS FALSE ALARM TO BE RECTIFIED. B) FUNCTION TEST TO PERFORM BY AUTHORISED MAKER TECHNICIAN. C) FUNCTION TEST TO PERFORM BY AUTHORISED YARD TECHNICIAN. D) TESTING & CERTIFICATION WITH VALIDITY REQD.					
334	333	PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,OVERHAULING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES.	JOB	1.00			-
		RE AND AE VISCOTHERM (85-UNITS) OVERHAULING MANUFACTURER: NAKAKITA CO.LTD. REASON FOR REPAIR: Routine periodical maintenance, service, calibration. SCOPE OF WORK: 1. Scope of Work (Quote for 2 off Viscotherms - Aux Engine - 1 off, Main Engine - 1 off) 1.1 Working area in yard workshop for viscotherms overhaul 1.2 Service, calibration, sea trials 1.3 Repair kit supply - spare parts nomenclature as recommended by Makers. 1.4 Bench test, setting and sea trials attendance.					
335	334	PLEASE QUOTE FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,OVERHAULING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES.	PER UNIT COST	2.00			-
		COPT VACUUM CONDENSOR LEVEL CONTROLLER CALIBRATION. MANUFACTURER: NAKAKITA CO.LTD. PREFERABLY MAKERS SERVICE ENGINEERS TO BE ARRANGED FOR THIS JOB. LEVEL TRANSMITTERS TO BE CALIBRATED AND ADJUSTED AS PER MAKERS INSTRUCTIONS TO SHOW CORRECT READINGS. LEVEL CONTROLLER OVERHAULING, CALIBRATION, CERTIFICATION WITH VALIDATION AND TEST TRIAL.					
336	335	PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,OVERHAULING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES.	JOB	1.00			-
		HYPER MIST FIXED LOCAL APPLICATION FINE FIGHTING SYSTEM INSPECTION MAKER : KASHIWA SYSTEM TO BE CHECKED AS PER CLASS SURVEYOR SATISFACTION & IMO CIRCULAR MSC.1/Circ. 1432 AND CERTIFICATE TO BE ISSUED. CLEANING,TESTING. Material,vest supply.					
337	336	PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,OVERHAULING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES.	JOB	1.00			-
		AUXILIARY BOILER AUTOMATION AND CONTROL SYSTEM INSPECTION & CALIBRATION. TYPE /MODEL : MAC-285 WORKING PRESSURE: 1.87MPa DESIGN PRESSURE : 1.77MPa EVAPORATION RATE: 25,000kg/hr MAKER AND ADDRESS: Mitsubishi Heavy Industries Ltd. Preferably makers service engineers to be arranged for this job. Level transmitters to be calibrated and adjusted as per maker's instructions to show correct readings. Auxiliary boiler automation (level transmitter, fuel control valve, FD fan damper & control valve) to be overhauled and calibrated by the service engineer. All pneumatic valves to be serviced with new service kits supplied by owner /yard. All D P cells to be calibrated and working to be checked. All pressure and temperature transmitters to be checked and calibrated. F.D fan fin bushes to be checked if required bushes to be renewed.					
338	337	A. PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,OVERHAULING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES.	JOB	1.00			-
		ENGINE CONTROL ROOM METERS CALIBRATION REASON FOR REPAIR: Routine inspection and service and calibration SCOPE OF WORK: 1.1 Removal to workshop 1.2 Service, test, calibration 1.3 Tagging					
339		TOTAL:27 NOS					
340	338	A. PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,OVERHAULING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES.	PER UNIT COST	27.00			-

	Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
		13-32	IG-REGULATING , EXCESS , FLUE GAS NO.1 &2. BLOWER DISCHARGE VALVE ACTUATORS MAKER= MISUZU INDUSTRIAL CORPORATION. MISUZU F.M.V. INERT GAS SYSTEM TYPE: FLUE GAS MW-400 9K-400A (2 IN NO.S), BLOWER DISCHARGE VALVE 9K-300A (2 IN NO.S), REGULATING VALVE 9K-400A (1 NO.), EXCESS VALVE 9K-250A (1 NO.) Removal of vlv, over hauling , renewal & cleaning,transportation to & from yard,spares are supplied by owner/yard. a) removal of regulating , excess , flue gas no.1 &2, discharge valve actuators. b) Renewal of regulating , excess, flue gas no.1 &2, discharge valve actuators supplied by owner/yard. c) transportation to & from yard to vessel d) To be on with maker's spare kit supplied by owner/yard. e) Re-installation of vlv.					
	341	339	PLEASE QUOTE FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,OVERHAULING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES. BUNKER TANK LEVEL GAUGING SYSTEM INSPECTION,CALIBRATION & REPAIR MAKER= MODERN AUTOMATION (SINGAPORE) PROJECT :A1882 REASON FOR REPAIR: 1. Level gauging system 1.SCOPE OF WORK: 1.5 Yard to arrange Makers authorized, class approved company qualified personnel to carry out Service & Certification of Bunker Tank Level Gauging System. 1.6 Service, calibration, certification. 1.7 Yard assistance	PER UNIT COST	8.00			-
	342	330	PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,OVERHAULING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES.	JOB	1.00			-
		13-34	BALLAST WATER TANK AIR PURGE TYPE LEVEL GAUGING SYSTEM INSPECTION & CALIBRATION REASON FOR REPAIR: Routine periodical service, calibration, class survey. 1.SCOPE OF WORK: 1.1 Yard to arrange Makers authorized, approved service engineer. 1.2 Qualified personnel to carry out Service & Certification of WBT remote sounding and draft gauging system. 1.3 Service, calibration, certification. 1.4 Yard assistance 1.5 Class survey 3. Certificates and Reports : 3.1 Condition report - as found 3.2 Calibration certificate 3.3 Service Engineer report - including renewed parts and recommendations 3.4 Class certificate 3.5 Service company - "maker authorization letter"					
	343	323	PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,OVERHAULING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES. OILY WATER SEPARATOR CLEANING, INSPECTION, 15 PPM CALIBRATION & CERTIFICATION. TYPE:MODEL KM-30 CAPACITY*8.0M3HR MAKER AND ADDRESS=TANO KIKAI INDUSTRIES CO.,LTD YAMAGUCHI,JAPAN Measuring cell specification s: 15 ppm oil monitoring maker : DECKMA HAMBURG GmbH Type : OMD-2006 MEASURING CELL REASON FOR REPAIR: Planned periodical inspection / class survey / testing/certification 1.SCOPE OF WORK: 1. Cleaning and inspection 2. Dismantle and overhaul of the mountings 3. Treatment and coating 4. Testing and class certification. 5. Steel work - complete casing to be gauged.	JOB	1.00			-
	344	322	PLEASE QUOTE LUMP SUM FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,CLEANING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES.	JOB	1.00			-
		13-36	HYDRAULIC OIL TANK CLEANING 1.WORK DESCRIPTION: 1) Around 300 ltrs. Of hydraulic oil to be pumped out and stored in a clean dry drum for analysis and re-use. 2) Two off inspection doors to be removed 3) Cleaning of tank bottom and sides using none a floppy material. 4) Yard to arrange man power and ventilation 5) Internal paint, cleaning inspection and level alarms will be examined by C/E. 6) None asbestos gaskets. (YARD SUPPLY)					
	345	323	QUOTE LUMP SUM FOR THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING,REMOVAL OF SLUDGE,VENTILATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
		13-37	AUXILIARY BOILER / M. E. AND AUX. ENGINE FUEL OIL FLOW METER CALIBRATION REASON FOR REPAIR: Required due to EU Regulation (EU) 2015/757) on monitoring, reporting and verification of emissions (MRV). 1.WORK DESCRIPTION: 1) M.E. Aux Engine & Auxiliary boiler fuel flow meters will be isolated by ships staff and drained by ship staff. 2) Fuel flow meters to be disconnected as per attached drawing ,allow for disposal 1 litre oil from each. 3) Both oil fuel flow meters to be transported to yard workshop for accuracy check & calibration and return to vessel. 4) Oil flow meters to fit back in place and operational by Owners representative.					
	346	324	PLEASE QUOTE FOR ABOVE JOB WITH YARD SUPPLY MATERIALS FOR INSPECTION ,CLEANING , SERVICE OR RENEWAL OF FAULTY PARTS & CALIBRATION INCLUDING TESTING & CERTIFICATION CHARGES.	PER UNIT COST	3.00			-
		13-38	HFO BETTLING TANK HFO SERVICE TANK CLEANING & FOUR IN NUMBER BUNKER TANKS CLEANING & PRESSURE TEST REASON FOR REPAIR: Cleaning, inspection and class survey 1. SCOPE OF WORK: Opening & Closing of manholes.Cleaning of tank with chemical and rags Pumping/Removal and disposal FO and Oily Water ,ventilation & gas free provide lighting,Waste handling & removal to shore in compliance with MARPOL regulation.Submit Disposal records & waste manifests.Coating of defective area of tank if require.Pressure testing of heating coil at standard pressure.Replacement of leaky heating coil.					
		325	QUOTE LUMP SUM FOR THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING,REMOVAL OF SLUDGE,VENTILATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
		13-39	ALL COP SEPARATOR SYSTEM ATTENDANCE FOR PROPER FUCTION REASON FOR REPAIR: Planned ATTENDANCE 1.SCOPE OF WORK: 1. Cleaning and inspection 2. Dismantle and overhaul of the mountings 3. Treatment / ATTENDANCE / REPLACEMENT AS REQUIRED 4. Testing FOR PROPER FUCTION					
	347	326	QUOTE LUMP SUM FOR THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING,REMOVAL OF SLUDGE,VENTILATION,LIGHTING,WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
	14		Sub Total					
			SECTION-14 MISCELLANEOUS					
		14-01	Man hours Kindly provide the man hour rates for the following categories: 1. Labours for power tooling, painting etc. 2. Welder to perform welding jobs. 3. Cleaners for cleaning of oil and sludge tanks. Assume 10 persons for 10 hours PER DAY each category.					
	348	327	QUOTE FOR ABOVE PER LABOUR PER DAY	JOB	1.00			-

	Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
			Slop tank cleaning/ Pump room cleaning					
			SLOP TANK Kindly provide the lumpsum rates inclusive of all charges for cleaning of slop tank and disposal of sludge: 1. Kindly provide the rates for cleaning of the tank. 2. Allow disposal of 80 m3 of oily sludge.					
		14-02	PUMP ROOM: 1. Kindly provide the rates for cleaning of the pump room. 2. Allow disposal of 200 m3 of oily sludge.					
349	328		QUOTE LUMP SUM FOR THE ABOVE JOB FOR RENEWAL WITH YARD SUPPLIED MATERIAL INCLUDING CLEANING, REMOVAL OF SLUDGE, VENTILLATION, LIGHTING, WASTE HANDLING & REMOVAL TO SHORE & TREATMENT & COATING CHARGES.	JOB	1.00			-
			OILY WATER / SEA WATER REMOVAL Kindly provide the lumpsum cost for below mentioned job: 1. Disposal of oily water from slop tank allow 40 m3 of oil and 200 m3 of sea water. 2. Disposal of approx. 4. 00 m3 of sea water may have traces of oil as the water would have been used for rafting for surveyor and U.T.					
350	329		QUOTE LUMP SUM FOR THE ABOVE JOB FOR TRANSPORTATION FROM SHIP TO YARD.	M3	240.00			-
			BATTERY ROOM VENT AND LOUVRES REPAIRS Kindly provide rates for repair of the following: 1. Battery room Gooseneck Exhaust Vent Coaming Thinned down and localized holes. 2. Inlet Louver of Battery Room Thinned Down					
351	330	14-04	QUOTE LUMP SUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-
			MISCELLANEOUS COAMINGS REPAIR Repair of the following Electrical Cable Penetrations for the following needs to be repaired, found to be wasted and holed. a. VDR b. Signal Light c. VHF d. FBD 150 e. NAVTEX f. GPS 1					
352	331		QUOTE LUMP SUM FOR THE ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-

	Sr.#	Code	Description	Unit	Qty	Unit price (USD)	Discount (Per unit)	Unit price after discount
			FIRE MAIN HYDRANT PIPE 1. Firemain Hydrant Pipe on Bridge Deck (Port Side) need to be renewed. 2. Pipe Dia – 125 A, Schedule 80 3. Approximate Length – 3 Meters 4. One Bracket of Foam Hydrant on Upper Deck (STBD) to be repaired, found wasted and thinned down. I. Removal and shifted to yard II. Fabricate & Fix back III. Pressure test IV. separately quote price for single primer coat per square metre per unit length.					
		14-06						
			PLEASE QUOTE LUMPSUM FOR ABOVE JOB, FOR REPAIR PER MTR YARD SUPPLY MATERIAL, INCLUDING TRANSPORTATION.	Per M	3.00			-
353	332		ALL SHIP U-BOLT SIZES 1. VRC RETURN LINE SIZE=115MM QUANTITY REQUIRED=200 PIECES 2. VRC HIGH PRESSURE LINE SIZE=50MM QUANTITY REQUIRED=200 PIECES 3. MARPOL LINE SIZE=140MM QUANTITY REQUIRED=200 PIECES 4. BUNKER LINE SIZE=220MM QUANTITY REQUIRED=100 PIECES 5. I.G LINE SIZE=405MM QUANTITY REQUIRED=200 PIECES 6. ELECTRIC CONDUIT LINE SIZE=220MM QUANTITY REQUIRED=200 PIECES 7. SEA WATER LINE SIZE=218MM QUANTITY REQUIRED=200 PIECES 8. FOAM LINE SIZE=142MM QUANTITY REQUIRED=200 PIECES 9. FRESH WATER LINE SIZE=115MM QUANTITY REQUIRED=200 PIECES 10. CARGO LINE SIZE=460MM QUANTITY REQUIRED=100 PIECES 11. COW LINE SIZE=218MM QUANTITY REQUIRED=200 PIECES 12. POWER PACK RETURN LINE SIZE=115MM QUANTITY REQUIRED=200 PIECES 13. POWER PACK HIGH PRESSURE LINE SIZE=75MM QUANTITY REQUIRED=200 PIECES QUOTE PRICE PER PIECE WITH YARD SUPPLY MATERIALS.	PER UNIT COST	2,300.00			-
355	333		PROVISION CRANE DRUM SIDE PLATES REPAIR Hoisting Wire Drum Side Plates (02 in total) thinned down to be repaired, Approximate Diameter and Thickness to be 496 mm and 10 mm respectively. Material Carbon Steel STK 400.					
		14-08						
			QUOTE LUMPSUM COST FOR ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-
356	334		VERTICAL LADDER STEPS a. 40 NOS VERTICAL LADDER STEPS TO BE RENEWED DIFFERENT STAGGING REQUIRED. b. Length= 2072mm, No. of pieces=30, Square Bar=140mm c. Flat Bar= 70mm X 12mm X 6' (05 Pieces) & 70mm X 12mm X 5' (05 Pieces)					
		14-09						
357	335		QUOTE LUMPSUM COST FOR ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-
			ENGINE ROOM BILGE WELLS & BILGES AREA DE-RUSTING/PAINTING REASON FOR REPAIR: ER bilges and bilge wells cleaning, UTM and treatment during dry dock. 1.SCOPE OF WORK: 1.1 ER Bilge area final cleaning. 1.2 ER bilge wells and suction filters cleaning. 1.3 ER bilge area treatment and coating (Paint Owner Supply)					
		14-10						
358	336		QUOTE LUMPSUM COST FOR ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-
			ENGINE CONTROL ROOM VENYL FLOORING ECR (ENGINE CONTROL ROOM) ECR FLOORING IS DAMAGED AND UNEVEN DUE TO BROKEN FLOOR.RENEW THE EXISTING CEMENT FLOOR WHOLE AREA & INSTALLATION OF COINGRIP STUDDED VINYL. A) SUPPLY & INSTALL NEW COINGRIP STUDDED VINYL FLOOR WITH 6-8 mm THICK MAXIT UNDERLAYMENT ON NEWLY CEMENT PAINTED FLOOR. B) BREAKING & REMOVAL OF THE EXISTING FLOOR MATERIAL. C) RENEWAL OF THE FLOOR MASONARY WORK. SIZE: LENGTH X WIDTH = 408 X 216 INCHES TOTAL COVER AREA= 648 SQ.					
		14-11						
359	337		QUOTE LUMPSUM COST FOR ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-
			FIXED FIRE FIGHTING SYSTEM FOR 1. EIR, 2. PIR, 3. PAINT LKR & DECK Pressure testing - Operational / running test - Visual inspection by ship staff - MPI test - Ultrasonic thickness check - Test certificate required - Surveyor to witness 5 years service, test, certification during drydocking					
		14-12						
			QUOTE LUMPSUM COST FOR ABOVE JOB WITH YARD SUPPLY MATERIALS.	JOB	1.00			-
		338						
			COT NO: 1W, 2W, 3W, 4W, 5W, SLOP-W & ROT SAAB RADAR SENSOR INSPECTION FLAP REASON FOR REPAIR: 10 NOS SAAB RADAR SENSOR INSPECTION FLAP COVER NEED RENEWAL. 1.SCOPE OF WORK: NEED O FABRICATE AS PER SAMPLE PLATE THICKNESS 12 MM					
		14-13						
360	339		QUOTE LUMPSUM FOR ABOVE JOB.	JOB	1.00			-
			SUBTOTAL					
			TOTAL					

SUMMARY REPORT**Dry Dock analysis**

S. NO.	Name	Amount in USD
		Net Amount
1	SECTION - 01 DOCKING & GENERAL SERVICE	-
2	SECTION - 02 HULL CLEANING & PAINTING	-
3	SECTION - 03 HULL REPAIRS	-
4	SECTION - 04 CARGO AND BALLAST TANKS	-
5	SECTION - 05 CARGO SYSTEMS AND PIPING	-
6	SECTION - 06 ACCOMMODATION AND NAVIGATIONAL AIDS	-
7	SECTION - 07 BOILERS	-
8	SECTION - 08 MAIN ENGINE	-
9	SECTION - 09 ENGINE ROOM AUXILIARIES	-
10	SECTION - 10 ENGINE ROOM PIPING & VALVES.	-
11	SECTION - 11 DECK MACHINERY	-
12	SECTION - 12 ELECTRICAL MACHINERY	-
13	SECTION - 13AUTOMATION AND CONTROL / GAUGES / SAFETY EQUIPMENT	-
14	SECTION-14 MISCELLENEOUS	-
	Total USD.	-