



PAKISTAN NATIONAL SHIPPING CORPORATION
(Statutory Corporation, Established under the ordinance, XX of 1979)

TENDER NO. MRD/18779/2026

INVITATION TO BIDS

DRY DOCKING AND ASSOCIATED REPAIRS / 5TH SPECIAL SURVEY OF M.V CHITRAL

1. Pakistan National Shipping Corporation (PNSC), invite bids for Dry Docking and Associated Repairs / 5th Special Survey of M.V CHITRAL, as per clause-36(a) Single stage one Envelope procedure of PPR Rules, 2004 & Approved PNSC Procurement Policy Clause 4.17 from Shipyards / Dockyards. Procurement Notice (PN) for the subject Project / Services which appeared in Print Media, PPRA EPMS & PNSC websites.
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 / 5TH SPECIAL SURVEY OF M.V CHITRAL."**
3. Bidding documents, may be obtained free of cost from the address stated below from Monday to Friday during the office hours 09:30 PKT to 04:30 PKT or can be downloaded from PNSC website <https://www.pnsc.com.pk/tenders/Chitral-Drydock-2026.zip>.
4. The Bid should be sent by an E-mail only chitral.drydock@pnsc.com.pk latest by (11:00 PKT / 06:00 GMT) **October 26th, 2026**. Bids will be opened on the same day at (11:30 PKT/0630 GMT) in the Conference Room, Sixteen Floor, PNSC Building, in the presence of bidders, who may wish to attend.
5. PNSC reserves the right to accept or reject any or all bids as per Approved Independent PNSC Procurement Policy 2025.


TANVEER HASAN
TECHNICAL SUPERINTENDENT
(Ship Management, PNSC)

TANVEER HASAN, SUPERINTENDENT ENGINEER (SM)
PNSC, Building, Fifteen Floor, M.T Khan Road, Karachi.
Cell # +92 313-2085361, Dir: 021 99204016 (6020)
Email: tanveer.hasan@pnsc.com.pk (for query only)
Website: www.pnsc.com.pk

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:
 - a) 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.
 - b) have controlling shareholders in common; or
 - c) receive or have received any direct or indirect subsidy from any of them; or
 - d) have the same legal representative for purposes of this Bid; or
 - e) 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
 - f) Submit more than one Bid in this Bidding process.
- 3.8. A Bidder may be ineligible if –
 - a) he is declared bankrupt or, in the case of company or firm, insolvent;
 - b) 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 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:
- a. Evaluation & qualification criteria;
 - b. required scope of work or specifications;
 - c. All securities requirements;
 - d. Tax requirements;
 - e. Terms and conditions of bidding documents.
 - f. 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:
- a) meets the eligibility criteria defined in **ITB3** and **ITB4**;
 - b) has been prepared as per the format and contents defined by the Procuring Agency in the Bidding Documents;
 - c) has been properly signed;
 - d) is accompanied by the required securities; and
 - e) 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:-
- a) affects in any substantial way the scope, quality, or performance of the Services;
 - b) limits in any substantial way, inconsistent with the Bidding Documents, the Procuring Agency's rights or the Bidders obligations under the Contract; or
 - c) 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—*
- a) *Submit the number of copies of signed bids required by the invitation;*
 - b) *Furnish required information concerning the number of its employees;*
 - c) *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 on 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
<u>A.INTRODUCTION</u>		
1.	1.1	Name of Procuring Agency : <u>PAKISTAN NATIONAL SHIPPING CORPORATION (PNSC)</u> , The subject of procurement is: <u>DRY DOCKING AND ASSOCIATED REPAIRS/5th SPECIAL SURVEY OF MV CHITRAL</u> Period for delivery of works/services: <u>WITHIN 06 WEEKS AFTER ENTERING DOCKYARD</u> Commencement date for delivery/completion of works/ services: <u>AFTER ISSUANCE OF PURCHASE ORDER</u>
2.	2.1 & 2.2	Financial year for the operations of the Procuring Agency: <u>2026-2027</u> Name of Project: <u>DRY DOCKING AND ASSOCIATED REPAIRS/5th SPECIAL SURVEY OF MV CHITRAL</u> Name of financing institution: <u>PNSC OWN FUNDS</u> Name and identification number of the Contract: <u>MRD/18779/2026</u>
4.	3.1	Maximum number of members in the joint venture, Consortium or association shall be: <u>NOT ALLOWED</u>
5.	4.1	Ineligible country (ies) is or are: <u>ISRAEL & INDIA</u>
6.	4.5	Demonstration of authorization by manufacturer/Dock yard: <u>REQUIRED</u>
<u>B. BIDDING DOCUMENTS</u>		
7.	7.2	The number of documents to be completed and returned: <u>One Original Signed and stamped Scanned</u>
8.	8.1	The address for clarification of Bidding Documents is: <u>vmrs@pnscl.com.pk</u>
	8.5	Pre-bid meeting will <u>not</u> be held
<u>C. PREPARATION OF BIDS</u>		
9.	10.1	The Language of all correspondences and documents related to the Bid is: <u>English</u>
10.	11.1(b)	Detail of sample(s) to be submitted with the Bid are: <u>N/A</u> .
11.	11.2(b)	Characteristics: <u>N/A</u>
12.	11.1(h)	In addition to the documents stated in <u>ITB 11</u> , the following documents must be included with the Bid: <u>N/A</u>
13.	12.3(c)	Other procurement specific documentation Requirements are: <u>N/A</u>
14.	12.4	Spare parts required for <u>N/A</u> Years of operation.
15.	13.3(b)	The qualification criteria required from Bidders in <u>ITB13.3(b)</u> is modified as follows: a) The dry dock should have dry docking facility to accommodate Supramax Bulk Carrier. 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 Supramax Carrier. 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: <u>N/A</u>
17.	15.7 & 15.6	For goods/services offered from abroad the price quoted shall be: <u>USD</u>

	15.9	The price shall be fixed.
18.	16.1 (a)	a) For goods and related services the currency of the Bid shall be <u>USD only;</u>
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: <u>120 days.</u>
21.	18.1	The amount of Bid Security shall be: <u>N/A</u> The currency of the Bid Security shall be: <u>N/A</u> Or Indicate whether Bid Securing Declaration is applicable: <u>YES</u>
22.	18.3	The Bid Security shall be in the form of: <u>N/A</u>
23.	18.3(c)	Other forms of security are: <u>N/A</u>
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: <u>SCANNED SIGNED AND STAMPED THROUGH EMAIL: chitral.drydock@pnsc.com.pk</u>
26.	21.2	Written confirmation of authorization are: <u>Required</u>
<u>D. SUBMISSION OF BIDS</u>		
27.	22.2 (a)	Bid shall be submitted: Through Protected E-mail Address <u>chitral.drydock@pnsc.com.pk</u>
28.	22.2(b)	Title of the subject Procurement: <u>DRY DOCKING AND ASSOCIATED REPAIRS/5th SPECIAL SURVEY OF MV CHITRAL</u> ITB title and No: <u>MRD/18779/2026</u>
29.	23.1	The deadline for Bid submission is: a) <u>Day: Monday</u> b) <u>Date: October 26th, 2026</u> c) <u>Time: 11:00 AM</u>
<u>E. OPENING AND EVALUATION OF BIDS</u>		
30.	26.1	The Bid opening shall take place at: Street address: <u>M.T Khan Road Lalazar</u> , Building/Plot No: <u>PNSC Building</u> , Floor/Room No: <u>Sixteen Floor/ Conference room</u> , City/Town: <u>Karachi</u> , Country: <u>Pakistan</u> a) <u>Day: Monday</u> b) <u>Date: October 26th, 2026</u> c) <u>Time: 11:30 AM</u>
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: <u>USD</u> The source of exchange rate shall be: <u>STATE BANK OF PAKISTAN</u> The date of exchange rate shall be: <u>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</u>

32	35	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. <u>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.</u> 2. <u>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.</u> 3. <u>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.</u> 4. <u>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:</u> a. <u>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</u> b. <u>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.</u> 5. <u>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.</u> 6. <u>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/Chitral-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.</u> 7. <u>Shipyards to identify separate days required on blocks and alongside repair berth precisely, as well as docking schedule.</u> 8. <u>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.</u> 9. <u>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.</u> 10. <u>Opportunity cost will also be considered during bids evaluation, along with fuel cost till dock location. Opportunity cost USD 11,000.00 is the estimated value which owner will not earn, starting from the last cargo discharge operation, till commencement of next commercial engagement.</u> 11. <u>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.</u> 12. <u>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.</u> 13. <u>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.</u> 14. <u>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.</u> 15. <u>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.</u>
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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 (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>3 5 %</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>

"MV CHITRAL"

FORM OF 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 : chitral.drydock@pnsc.com.pk



GENERAL INFORMATION ON

"MV CHITRAL"

FLAG :	PAKISTAN
IMO No.	9272876
SIGNAL LETTERS	AQQE
TYPE OF SHIP	BULK CARRIER
BUILDER	OSHIMA SHIP BUILDING CO. LTD, JAPAN
BUILT	JUNE 9, 2003
CLASS	CLASS NK
LENGTH OVERALL	185.73 M
BREADTH MOLDED	30.95 M
DEPTH MOULDED	16.40 M
SUMMER DRAFT	11.778 MTR
SUMMER DWT	46,710 MT
GROSS TONNAGE	26395 MT
T.P.C	50.79 T
MAIN ENGINE	Kawasaki MAN B & W 6S50MC-C
MAXIMUM CONT. OUTPUT	7,024 KW AT 104 RPM



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, including all conditions and clauses mentioned in Instruction to Bidders (ITB) Document**
- iii. **General Condition of this 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 MV Chitral (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

Participating shipyard is to provide a firm schedule of docking (i.e. Vessel on blocks) and undocking, along with total number of days required alongside repair berth. Preference will be given to shipyards providing a firm schedule. 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 in the bid for agreement in the bidding document, as well as in the final contract once successful bidders are finalized, prior to the arrival at the yard and commencement of repairs, also to be up-dated 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 15%. Shipyards are to be also intimate PNSC of any National Holidays (such as the Chinese New Year) in the bidding document.

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, which will be in accordance with Clause 32 of Bid Data Sheet and Clause # 35 4(a) and 4(b) of the Instruction of Bidder (ITB). 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 15% 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 (YARD 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, (Yard supplied), machining, Commentator, undercutting 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,



Any parts found broken in removal of fairing will be renewed by Contractor at his own expenses.

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 the amount agreed in the interim invoice, prior to departure of vessel from the shipyard.

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 : chitral.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 Shipping Corporation (PNSC)

Signature: _____

Name: _____

Designation: _____

Telephone No: _____



For and on Behalf of _____

(Contractor)

Signature: _____

Name : _____

Designation: _____

Telephone No: _____

"CHITRAL" BULK CARRIER SHIP 2003 IMO 9272874								
		NAME OF YARD						
		Total no. of days at Repair Berth / Warf (Please fill days in column "F" First)				(Please fill days in column "F" First)		
		Total no. of days in Dry Dock (Please fill days in column "F" First)						
		TOTAL DAYS						
Sr.No	ITEM CODE	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE USD	DISCOUNT (PER UNIT)	UNIT PRICE AFTER DISCOUNT	TOTAL USD
	1.00	GENERAL SERVICES						
		VESSEL TO BE SAFELY BERTHED AT A SUITABLE REPAIR YARD FOR THE DURATION OF REPAIR PERIOD NOT OCCUPIED BY DRY-DOCKING. NORMAL SERVICES AS REQUIRED TO BE PROVIDED DURING REPAIR PERIOD. IN CASE VESSEL IS DOUBLE BANKED, THE YARD TO ENSURE ADEQUATE CRAINAGE FACILITIES AVAILABLE SO THAT THE WORK IS NOT HAMPERED. SUITABLE GANGWAY TO BE PROVIDED BY YARD AT THEIR OWN COST. VESSEL TO BE SAFELY DOCKED IN SUITABLE DRYDOCK ON BLOCK OF ADEQUATE HEIGHT. MINIMUM CLEARANCE AVAILABLE ON SIDE FOR GRIT BLASTING AND PAINTING TO BE INDICATED BY YARD.						
		VESSEL TO BE SAFELY DOCKED IN SUITABLE DRYDOCK ON BLOCK OF ADEQUATE HEIGHT. MINIMUM CLEARANCE AVAILABLE ON SIDE FOR GRIT BLASTING AND PAINTING TO BE INDICATED BY YARD.						
		WORK SHOULD BE CONTINUED ON WEEK ENDS AND HOLIDAYS.						
		ADEQUATE LIGHTING TO BE PROVIDED DURING HOURS OF DARKNESS AT YARD'S COST.						
		YARD TO ARRANGE TUGS PILOTS RIGGERS BOATMEN FOR MOORING UNMOORING SHIFTING AND DOCKING OF VESSEL. IF VESSEL IS SHIFTED FOR YARDS CONVENIENCE NO CHARGES TO BE LEVIED TO THE VESSEL. YARD TO QUOTE LUMP SUM CHARGES FOR EACH SHIFTING OR MOVEMENT.						
		YARD TO DISPLAY SUITABLE PRECAUTIONARY WARNING NOTICES AT VARIOUS LOCATIONS TO AVOID ACCIDENTS & ALSO ENSURE SUFFICIENT SAFETY MEASURES DURING VESSELS STAY IN YARD.						
		FIREMEN TO WEAR DISTINCTIVE UNIFORM WHICH TO BE MADE KNOWN TO SHIPS OFFICERS ON ARRIVAL. THE FIREMAN WOULD REPORT TO MASTER & CHIEF ENGINEER TWICE EVERY DAY.						
		YARD SHALL PROVIDE CRANE FACILITIES ON WRITTEN REQUEST FROM SHIPS STAFF AS AND WHEN REQUIRED TO LIFT SHIFT PROVISION STORES SPARES ETC. TOTAL TIME CRANE USED SHOULD BE CERTIFIED BY SHIPS STAFF.						
		YARD WOULD ARRANGE GAS FREE/HOT WORK CERTIFICATES FOR ALL SPACES ON BOARD AS REQUIRED DURING THE REPAIR PERIOD.						
		YARD WOULD BE RESPONSIBLE FOR ALL FIRE & SAFETY ARRANGEMENTS WHILE THE VESSEL IS AT THEIR YARD. YARD TO ARRANGE ALL NECESSARY FIRE EXTINGUISHERS, FIRE PROTECTION SHEETS AND OTHER NECESSARY RELATED MATERIALS ALL AT YARD'S COST.						
		STAGING, ACCESS AND ALL MATERIALS YARD SUPPLIED (Y/S) TO BE INCLUDED IN COST WHERE REQUIRED.						
	1.01	Fire line to connect/disconnect.						
1		Quote your lump sum price for supplying sea water and maintaining a pressure of 7 bars from shore mains to ship's mains during vessel's complete stay in the dry dock. Your price should include connection / disconnection and other charges.	Job	1.00				
	1.02	Fire watchmen for repair days						
2		Quote your lump sum price for providing necessary firemen on twenty four hour basis during vessel's complete stay in your yard.	Job	1.00				
	1.03	Cooling water						
3		Quote your lump sum price for providing Cooling water (two lines) inclusive of connection/ disconnection charges to ship's plant in the dry dock.	Job	1.00				
	1.04	Shore Power 440/110 V 60HZ						
4		Quote your unit price for supplying approximately 50,000 KWH rated at 440/110 V AC 60 Hz to vessel. Unit rate should include all charges for connections and disconnections. To obtain actual consumption figures we require you to record opening / closing meter readings in presence of ship's Electrical Engineer.	KWH	50,000.00				
	1.05	Garbage remove & disposal for total repair days.						
5		Quote your lump sum price for removing galley refuse every day during vessel's complete stay in your premises, including certificates of disposal.	Job	1.00				
	1.06	Shore crane for owner's use						
6		Yard to give lumpsum cost of crane (including riggers etc.) for usage of shore crane per hour, for entire duration of vessel's stay in the yard. Shipyard to notify Superintendent before providing crane service if exceeds 35 hours, otherwise no additional charge will be admissible.	Hour	35.00				
	1.07	Telephone charges						
7		Quote your lump sum price for providing mobile calling service (2 temporary mobile Sims for local and international calls) for Superintendent and Captain, and 2 internet wifi routers for on-board internet use.	Job	1.00				
	1.08	Ballast/Fresh water supply for docking/undocking / Gas free cert. and fans						
8	a	Quote your unit price for supplying approximately 20,000 Tons of Ballast Water for docking / undocking. Unit rate should include all charges for connections and disconnections.	Ton	20,000.00				
9	b	Quote your unit price for supply of 400 metric tons of fresh water to vessel in your yard. Unit rate should include charges for lines connections / disconnections.	Ton	400.00				
10	c	It is customary to supply ventilation blowers for ventilation of Fuel and Ballast tanks on yard's account. If your policy is otherwise please quote your rate for installing, removing, and maintaining approximately 12 blowers per day. Please quote cost per blower for entire stay of vessel in yard.	Blower	12.00				
11	d	Quote your lump sum price for issuance of initial and subsequent gas free certificates by an approved chemist on daily basis during vessel's complete stay in your premises.	Job	1.00				
12	e	Earthing cable connection (if required)	Job	1.00				
	1.09	Tank cleaning:						
13	a	Fuel Oil tanks. Provide rate of cleaning with hard scale including staging, lighting, ventilation etc. for following tanks. FO TK 1 (P&S) UNDER HOLD No 3 TANK CAPACITY = 290.1 M3 EACH FO TK 2 (P&S) Under Hold No 4 TANK CAPACITY = 317.5 M3 EACH	M3	1,500.00				

		FO TK 3 (S) UNDER HOLD NO 5 ADJACENT TO EIR FWD BULKHEAD ABOUT 125 M3 DIRTY FUEL OIL TO BE DISPOSED TANK CAPACITY = 239.7 M3 FO TK 3(S) UNDER HOLD No 5 TANK CAPACITY = 239.7 M3			
14	b	Sludge removal.	Ton	180.00	-
15	c	Ballast water DB tanks Rate of Cleaning including staging, lighting, vent etc.	M3	4,000.00	-
16	d	Mud and water disposal.	Ton	500.00	-
17	e	Opening/Closing, DB tanks manhole covers (using New Joints (Y/S))	Tank	30.00	-
18	f	Renewal of Nuts & Studs of manhole covers (Stainless Steel) (Y/S)	Stud + Nut	200.00	-
19	g	Air Pressure Test For DB Tank including all associated costs	M3	2,000.00	-
20	h	Air Pressure Test for Pipeline including all associated costs	Meter	300.00	-
	i	Labour charges per man/day, including cost of any materials required for cleaning, welding etc. Assume 5 un-skilled and 3 skilled men for total days in the yard.			-
21		SKILLED LABOUR (Welder etc.)	Man/days	3.00	-
22		UN-SKILLED LABOUR (Cleaning, power tooling etc.)	Man/days	5.00	-
				SUB TOTAL	
2.00		DOCKING / UNDOCKING			
23	a	If it is required to dock the vessel on blocks of even keel and side blocks as necessary. Quote your lumpsum charges for first two days in the dry dock (including keel / side blocks).	Job	1.00	-
24	b	Quote your lumpsum charges for each subsequent day in the dry dock for the number of days estimated by you.	Per Day	(2.00)	-
25	c	Quote your rates for shifting vessel to outer anchorage area / berth / dry dock, inclusive of all associated charges like tug, pilot, dock master, riggers, line handlers, porters etc. Assume maximum 4 shiftings of vessel.	Shifting	4.00	-
26	d	Quote your daily charges for keeping the vessel at repair berth for the number of days estimated by you.	Day	-	-
				SUB TOTAL	
3.00		HULL TREATMENT			
3.01		Hull Cleaning And Painting (Paint Owner Supply)			
	a	Top side area 2430 M ²			
	b	Boot side area 2420 M ²			
	c	Vertical & Flat bottom area 6110 M ²			
		Total area 10960 M ²			
27		High Pressure water washing, 200 bar 10970 M ²	Per M2	10,960.00	-
28		Hard hand scraping	Per M2	1,000.00	-
	3.02	Hull Hydro Blasting (10960 M ²)			
29	a	Hydro Blast To SA 1 (30%) (Top Sides/Vertical Sides/Boot Top/Flat Bottom Areas)	Per M2	3,288.00	-
30	b	Hydro Blast To SA 2 (70%) (Top Sides/Vertical Sides/Boot Top/Flat Bottom Areas)	Per M2	7,672.00	-
	3.03	NOTE: Paint - Please note for Jobs in Section 3.03 till 3.11 All ancillary and associated charges should be included in your unit rates e.g. staging, cherry picker costs, crane, water wash hoist down, cleaning before & after, corrosion protection and lighting cost etc. However, in case of Cargo Holds only i.e. Section 3.04, charges for staging / cherry picker is to be quoted separately.			
		Top Side Area 2430 M ²			
	(A)	Touch Up (50-75 Dry Film Thickness Micron)			
31	i	2 Coats (2,430 X 2 = 4,860)	Per M2	4,860.00	-
		Full Coat (50-75 Dry Film Thickness Micron)			
32	ii	1 coat	Per M2	2,430.00	-
	(B)	Boot side area 2420 M ²			
33	i	Touch Up (50-75 Dry Film Thickness Micron)			
		2 Coats (2,420 X 2 = 4,840)	Per M2	4,840.00	-
	ii	Full Coat (Celling) (70-100 Dry Film Thickness Micron)			
34		1 coat	Per M2	2,420.00	-
	iii	Full Coat (SPC) (100-150 Dry Film Thickness Micron)			
35		2 Coats (2,420 X 2 = 4,840)	Per M2	4,840.00	-
	(C)	Vertical & Flat Bottom Area 6110 M ²			
36	i	Touch Up (50-75 Dry Film Thickness Micron)			
		2 Coats (6,110 X 2 = 12,220)	Per M2	12,220.00	-
	ii	Full Coat (Celling) (70-100 Dry Film Thickness Micron)			
37		1 coat	Per M2	6,110.00	-
	iii	Full Coat (SPC) (100-150 Dry Film Thickness Micron)			
38		2 Coats (6,110 X 2 = 12,220)	Per M2	12,220.00	-
	(D)	Hatch Cover paint Area: (1891.4) M2			
	i	Touch up coat primer/finish			
39	ii	Full Coat primer/ Finish Paint	Per M2	1,891.60	-
	3.04	Paint for Cargo Holds:			
40	i	High Pressure Water Washing Cargo Holds. (Total area: 8698m ²)	Per M2	8,698.00	-
41	ii	Hydro Blast To SA 1.8 for Cargo Holds. (30%)	Per M2	1,739.60	-
42	iii	Hydro Blast To SA 2.0 for Cargo Holds. (50%)	Per M2	4,349.00	-
	iv	Touch up			
43		Full Coat Primer (1 COAT)	Per M2	8,698.00	-
44		Full coat finish paint (1 COAT)	Per M2	8,698.00	-
45	vii	staging /cherry picker cost for painting in Cargo holds (\$ HOLDS)	Per hold	5.00	-
	3.05	Weather deck hatch covers and coamings. 1969.48 x 2= 3,938.96 (3,938.96+ 612.48 = 4551.44 M2)			
46	a.	High pressure washing (200 BAR)	Per M2	4,551.44	-
47		For Hydroblasting SA 1 (20%)	Per M2	910.29	-
48		For Hydroblasting SA 2 (50%)	Per M2	2,275.72	-
		Coating Specifications for hatch cover/coaming			
		1) Touch up coat 50-75 (D.F.T Microns)			
49		2) Full coat primer 75-100 (D.F.T Microns)	Per M2	4,551.44	-
50		3) Full coat finish 100-125 (DFT Microns)	Per M2	4,551.44	-
	b.	Hatch Cover wheel to be overhauled, bearing and bushes to be renewed with Yard supply material.	per wheel	20.00	-
52	c.	Quote your lumpsum charges per hatch cover for removal of hatch cover from vessel to shore, keep on shore for repairs / paint work, and then reft back on vessel. Include all associated charges e.g. shore crane, riggers etc.	per hatch cover	5.00	-
	3.06	Main Deck, Cross Deck,Accommodation(Superstructure) and Mast Decks (2100 M2)			
53		High pressure washing (200 BAR)	Per M2	2,100.00	-
54		For Hydroblasting SA 1 (30%)	Per M2	630.00	-
55		For Hydroblasting SA 2 (70%)	Per M2	1,470.00	-
		Coating Specifications			
		1) Touch up coat 50-75 (D.F.T Microns)			
56		2) Full coat primer 75-100 (D.F.T Microns)	Per M2	2,100.00	-
57		3) Full coat finish 100-125 (DFT Microns)	Per M2	2,100.00	-
	3.07	Ballast water DB tanks Coating			
58		High pressure washing (200 BAR)	Per M2	2,000.00	-
59		For Hydroblasting SA 1 (30%)	Per M2	600.00	-
60		For Hydroblasting SA 2 (70%)	Per M2	1,400.00	-
		Coating Specifications			
		1) Touch up coat 50-75 (D.F.T Microns)			
61		2) Full coat primer 75-100 (D.F.T Microns)	Per M2	2,000.00	-
62		3) Full coat finish 100-125 (DFT Microns)	Per M2	2,000.00	-
63		4) Dehumidify (if required)	Per M2	2,000.00	-
	3.08	Main deck port and Stbd cross deck b/w hatch no 1 & 2, cross deck b/w no 2 & 3, Cross deck b/w no 3 & 4 and cross deck b/w no 4 & 5 to be hydro blasted and painted.			
64	a)	Area b/w no 1 & 2 = 140m ²	Per M2	140.00	-
65	b)	Area b/w no 2 & 3 = 160m ²	Per M2	160.00	-
66	c)	Area b/w no 3 & 4 = 160m ²	Per M2	160.00	-
67	d)	Area b/w no 4 & 5 = 160m ²	Per M2	160.00	-

		Spot Chipping and painting of deck cranes.							
3.09		Total area of all cranes (1000 m2) Total crane job area = 100 m2 Total crane post (pedestal) area = 150 m2 MAKER: ISHIKAWAJIMA-HARIMA HEAVY INDST. CO. LTD. JAPAN TYPE: H300190-260							
		Crane job area need to be sand blast cleaned and painted.							
68		High pressure washing (250 BAR)	M2		1,000.00				
69		For hydroblasting SA 3 (35%)	M2		300.00				
70		For Hydroblasting SA 3 (75%)	M2		700.00				
71		2) Full coat primer 75-100 (D.F.T Microns)	M2		1,000.00				
72		3) Full coat finish 100-125 (DFT Microns)	M2		1,000.00				
3.10		Ship's Name, draft mark, pilsnel mark, Port of registry, ballus bowelbalem etc.painting.							
73		• Ship's name (on bow p&s and stern,bridge wings, on board) • Imo number(stern, port and stbd bridge wings) • Draft marks (fwd mid aft p&s) • Pilsnel mark (both sides mid ship) • Freeboard marking • Pilot flag marks • Tug marks • Plug marks • Port of registry (stern) • Bulbous bow sign (on bow p&s) • Tank marks	Job		1.00				
3.11		PNBC Monogram							
		PNBC Monogram to be made on the stern by embossing / engraved							
74		Quote, Lumpsum for the above	Job		1.00				
4.00		ROUTINE DRY DOCK REPAIRS (Note: PLEASE INCLUDE COST OF STAGING / CHERRY PICKER FOR ALL JOBS IN YOUR QUOTATION)							
75	4.01	Bottom plug removal/ fitting of DB Tanks including vacuum test.	Per plug		14.50				
76	4.02	Scupper's plugs to be fitted to be kept clear water from painting area.	Per Place		18.00				
4.03		ANCHORS AND CHAINS, PORT AND STBD CHAINS BITTER END TO BE SHIFTED, PORT AND STBD WINCHES MOTORS TO BE RECONDITIONED, PORT SIDE Anchor and cable weight; 7240 hg each. Cable length, 11 + 11 P&S. Cable size ; 73 mm							
		Both Anchors and Cables To Be Lowered & Ranged In The Drydock and restored in good order after completing following work to be put back in the original position.							
77		Quote: A) Thoroughly de-scale both chains, washing with high pressure jet and chipping. Calibrate chain link shackles. Remarked all shackles Change ends	Job		1.00				
78		B) Check, calibrate & record all patent links shackles and pins	Job		1.00				
79		C) First length (SHACKLE) of both anchor chains to disconnect at anchor SWIVEL and to reconnect at bitter end. Original second shackle to reconnect at anchor SWIVEL.	Job		1.00				
80		D) Each SHACKLE to be re-marked with white & red paint (ship supply) & stainless steel wire (yard supply)	Job		1.00				
81		E) One coat of fish oil (yard supply) to be applied on both anchors and cables	Job		1.00				
82		G) Load test of Anchor	Per Anchor		2.00				
83		H) Reweld per stud	Per stud		50.00				
4.04		ANCHOR SPURLING PIPE COVER							
84		ANCHOR SPURLING PIPE COVER BADLY CORRODED AND BROKEN NEEDED TO BE MADE NEW. NO OF COVERS : 02	Per Unit		2.00				
4.05		Chain Lockers							
		A) Allow for removal of Mud and Debris from both chain lockers, thoroughly clean, wash with fresh water/ pump out water.							
		B) Prove all drains clear. Allow for removal of one section of bilge pipe for each locker, blow up with compressed air in presence of ships staff and replace pipes in good order.							
		C) Allow for removal and refitting of P & S Chain Locker floor plates, for cleaning.							
		D) One coat of (Owner's supply) paint to be applied two meters high from bottom of chain lockers including bottom area.							
85		E) Bitter end to be checked for any wastage and if required to be repair. Allow for pin renewal and bracket welding repair.	Per Pc		2.00				
		F) After cleaning & painting of P/S chain lockers its ventury system to be checked / tested for Operation.							
86		Quote - 1) Specially for removal and disposal of mud, debris & muddy water per metric ton	Per Ton		35.00				
87		2) Lump sum charges for all other works as above (A to F).	Job		1.00				
4.08		Sea Valves							
		Following Conditions Must Be Fulfilled: NOTE: The term "OVERHAUL" applied to a Sea Valve means to remove Actuator Assembly, To open Up cover, Grinding In of Valve Lid & Seat, cleaning / removal of marine growth & barnacles, Renewal of studs & nuts as necessary Renewing gland packings & cover (all material yard supply). Allow For Overhaul In Situation Of All Sea Valves (Less Than 400 MM DIA) Allow For Applying Of One Coat Of APEXIOR-3 Or Rubber Coating (Yard's Supply) Inside All Valve Bodies.							
A		LIST OF SHIP SIDE VALVES							
88		Main Cool S.W. Suc Valve for High Sea Chest (Butterfly Valve) 400	Job		1.00				
89		M.G.P.D. Injection Valve for High sea chest (Angle Valve) 50	Job		1.00				
90		Cleaning Valve For High Sea Chest (Check Glove Valve) 15	Job		1.00				
91		Main cool S.W. Suc Valve for Low Sea Chest (Butterfly Valve) 400	Job		1.00				
92		M.G.P.D. Injection Valve for Low sea chest (Angle Valve) 50	Job		1.00				
93		Cleaning Valve for Low Sea Chest (check Glove Valve) 15	Job		1.00				
94		Main Cool S.W. Suc Valve for Ballast Sea Chest (Butterfly) 350	Job		1.00				
95		M.G.P.D. Injection Valve for Ballast Sea Chest (Angle Valve) 50	Job		1.00				
96		Cleaning Valve For Ballast Sea Chest (Check Glove Valve) 15	Job		1.00				
97		Overboard valve for main engine air Ctr. & Jacket C.F.W. Ctr. (Butterfly Valve) 200	Job		1.00				
98		Overboard valve for air cond. Unit & prov. Ref. Unit. (Butterfly) 80	Job		1.00				
99		Overboard valve for scupper from accommodation (S-Side), (Stern Valve) 100	Job		1.00				
100		Overboard valve for Sols from accommodation (Storm Valve) 125	Job		1.00				
101		Overboard valve for Aux Boiler Blow-off (Globe Valve) 25	Job		1.00				
102		Overboard valve for ballast eductor (Butterfly Valve) 125	Job		1.00				
103		Overboard Valve for ballast & St-By C.S.W.P. & Fire Bilge & Fire & G.S.P (Butterfly) 400	Job		1.00				
104		Overboard valve for oily water separator (check angle valve) 40	Job		1.00				
105		Overboard valve for F.W. Gen. Ejector Pump (Butterfly Valve) 80	Job		1.00				
106		Overboard Valve for F.W. Gen & C/R Unit Ctr. (Butterfly) 80	Job		1.00				
107		Overboard Valve for scupper Ref Chamber (P-Side) (Storm Valve) 50	Job		1.00				
108		Overboard Valve for scupper from accommodation (P-Side) (Storm Valve) 80	Job		1.00				
109		Overboard Valve for G/E Air Ctr. & Aux. C.F.W. Ctr. & Atoms Cond (Butterfly) 125	Job		1.00				
B		INTERMEDIATE VALVES							
		ACT PEAK FILLING VV ON F & GS DISCHARGE AFT PEAK FILLING VALVE ON FIRE AND GS PUMP DISCHARGE TO BE RENEWED (Yard supply). BUTTERFLY VALVE= 5 Inch (150 mm)	Job		1.00				
110		Ballast pump sea water suction valve to be overhauled/renewed. 350mm (Butterfly)	Per Piece		1.00				
111		Eductor SW inlet valve to be renewed 80mm (Butterfly)	Per Piece		1.00				
112		Fire & GS Pump SW Suction valve to be renewed. 150mm (Butterfly)	Per Piece		1.00				
113		Fuel Oil DB Tank No. 1,2,3 (P&S) Heating steam inlet valve to be renewed. (Globe Valve no. 16K40)	Per Piece		1.00				
114		Heavy fuel oil DB Tanks suction valves to be renewed/overhauled. (Butterfly valve no A100)	Per Piece		1.00				
115		Generator Engine Jacket water inter connection line valve to be renewed. (Globe Valve 5K15)	Per Piece		1.00				
116		HFO Purifier no.2 Heater steam inlet valve to be renewed (Globe Valve 16K25)	Per Piece		1.00				
117		HFO Service tank heating steam inlet AND OUTLET valve to be renewed. (Globe Valve no. 16K15)	Per Piece		1.00				
118		HFO Purifier no.1 Heater steam inlet AND OUTLET valve to be renewed (Globe Valve 16K25)	Per Piece		1.00				
119		BALLAST TANK NO 3P, VALVE TO BE RENEWED/ON (VV STUCK IN OPEN POSITION.)	Per Piece		1.00				
120									

121		ME F.O RETURN LINE VALVE (NEAR CYD LUB) TO BE RENEWED.	Per Piece	1.00	-	-
122		HFO TRANSFER PIP F.O SUCTION VALVE TO BE RENEWED	Per Piece	1.00	-	-
123		AUX. C.S.W PIP DISCHARGE VALVE TO BE OVERHAULED/RENEWED. GLOBE VALVE (SK150)	Per Piece	1.00	-	-
124		EMERGENCY FIRE P/P S.W SUCTION VALVE	Per Piece	1.00	-	-
125		AUX. C.S.W PIP DISCHARGE VALVE TO BE OVERHAULED/RENEWED. GLOBE VALVE (SK150)	Per Piece	1.00	-	-
126		AUX. C.S.W PIP SUCTION VALVE TO BE OVERHAULED/RENEWED. (BUTTERFLY VALVE	Per Piece	1.00	-	-
127		MAIN S.W PIP ISOLATING VALVE FROM HARBOUR PIP TO BE O/H (SK150) GLOBE V/V	Per Piece	1.00	-	-
128		CALORIFIER STEAM INLET V/V TO BE RENEWED	Per Piece	1.00	-	-
129		FRESH WATER PIP SUC. LINE FROM HOTWELL TO PIP. TO BE RENEWED.	Per Piece	1.00	-	-
130		F.O TRANSFER PIP DISCH. V/V TO F.O SETT. TANK TO BE O/H OR RENEWED.	Per Piece	1.00	-	-
131		F.O O/FLOW TANK SUC. VIL TO BE O/H.	Per Piece	1.00	-	-
132		Heavy fuel oil DB Tanks FILLING valves to be renewed/overhauled. (GLOBE VALVE)	Per Piece	1.00	-	-
133		FIRE AND GS PIP MANIFOLD DISCHARGE V/V TO BE O/H.	Per Piece	1.00	-	-
134		#1 & #5 Pump PIP DISCH. LINE ATTACHED TO TOP DISTRIBUTION MANIFOLD. PIPE DIA. 215MM, FLANGE DIA. 330MM, PCD 291 MM, FLANGE THICKNESS 25MM, NO. OF HOLES, 08	Per Piece	1.00	-	-
135		AUX. CSW PIP AND A/C PIP MANIFOLD TO BE RENEWED. PIPE DIA: 220MM, REDUCER LENGTH: 160MM, A/C PIP SUC LINE SECTION DIA. 140MM, FLANGE THICKNESS 26MM.	Per Piece	1.00	-	-
136		FRESH WATER PIP DISCH. LINE TO BE RENEWD. PIPE DIA. 56MM . PIPE LENGTH : 10M . BENDS: 2 IN NOS, 90 DEGREE EACH. 1 IN NO. SOCKET HOLE. SCH.5	Per Piece	1.00	-	-
137		AUX CSW PIP SUCTON LINE FROM MAIN MANIFOLD TO PIP STRAINER. PIPE DIA: 165MM. 90 DEGREE BENT. PIPE LENGTH: . BENT LENGTH.	Per Piece	1.00	-	-
138		STEEL SIDE BUNKER V/V DO TO BE RENEWED	Per Piece	1.00	-	-
139		BUNKER MANIFOLD PORT AND STEEL SIDE PRESSURE GUAGES AND THERMOMETER TO BE RENEWED	Per Piece	1.00	-	-
140		Port Side Bunker Valve To Be Overhauled	Per Piece	1.00	-	-
141		ACCOM. AC COOLING SW PUMP SUCTION AND DISCHARGE VALVES TO BE RENEWED SUCTION VALVE = 4 INCH (100mm) DISCHARGE VALVE=SK-80 (ANGLE VALVE)	Per Piece	1.00	-	-
142		Aux. Cooling sea water pump suction and discharge valves renew Suction valve: Sk-150a Butterfly valve with worm gear type actuator Discharge valve: Sk-150a Check angle valve	Per Piece	1.00	-	-
143		COTROL ROOM A/C MAIN LINE INLET VALVE ABOVE BALLAST PUMP TO BE RENEWED. VALVE No = DN-30 (STRAIGHT VALVE)	Per Piece	1.00	-	-
144		F.O Heater Steam Inlet And Outlet Valves To Be Renewed	Per Piece	1.00	-	-
145		AE J/W Cooler #1&2 S.W In And Out Valves To Be Renewed	Per Piece	1.00	-	-
146		AE J/W cooler #1&2 S.W In and out V/vs to be renewed Butterfly valve with mechanism Sk-100a Valve d=100mm Quantity= 04 in no	Per Piece	1.00	-	-
147		HFO seating tank heating steam inlet valve to be renewed (Globe valve no. 16K15) Sea Chests & Grills, 3 nos. A) Allow for openings 3 numbers gratings of sea chests. B) The sea chest & gratings to be fully cleared by high pressure fresh water jet & hard brushes to be hand-scraped C) Sea chests interiors & gratings to have the same treatment (preparation & painting as per flat bottom) D) In quotation allow for supply & fitting of new securing bolts, studs, nuts & washers of stainless steel	Per Piece	1.00	-	-
148	4.08	Propeller Dia = 6200 MM (4 Blades) A) All propeller blades & nut-cone to be polished by rotary sand disc & one coat of fish oil or equivalent non-pollution oil to be applied (yard supply). B) Crack detection to be carried out at blade roots & tips C) Repairs/Fair up and grinding of blades (if required) Tail Shaft: Length: 6.540 m. Weight: 11.2 tons. Dia 460 MM Intermediate Shaft Dia: 360 MM	Job	1.00	-	-
149		A) Remove & refit rope guard and check / record Tail-shaft drop before removal and after re-fitting of Tailshaft	Job	1.00	-	-
150		B) Remove propeller, withdraw tail shaft into engine room. Allow for disconnecting intermediate shaft to facilitate withdraw of tail shaft including removing of machinery and pipe works	Job	1.00	-	-
151		C) Carry out MAGNA FLUX test in presence of surveyor. After survey refit in good order	Job	1.00	-	-
152		D) Renew both the inner & outer seal rings (Owner's supply)	Per set	2.00	-	-
153		E) Propeller shaft bearing & journal to be cleaned, calibrate, scrape / dress-up hard contracted area as found necessary. FWD & AFT liners to be machined if required	Job	1.00	-	-
154		Note: All the above-mentioned items to be re-assembled with locking wire as original.			-	-
155		G) Re-fit propeller cone with TALLOX & check leakage by AIR PRESSURE test (RATE X 30KG)	Per KG	30.00	-	-
156		H) Final PUSH-UP of propeller	Job	1.00	-	-
157		J) Rope guard to be fitted back after necessary cleaning, blasting and painting as per flat bottom specification	Job	1.00	-	-
158		Note: On completion, ship's staff to fill stem tube with oil & check for leakages. All jobs to be witnessed by owner's representative & chart to be produced as per maker's recommendations.			-	-
159	4.10	Rudder and Rudder stock Rudder Stock DIA = 330 MM			-	-
160		A) Remove top & lower access doors by cutting plates & its replacement on completion & check record clearances in way of lower pintle bearing bush, rudder stock bearing, measure and record cross head bearing clearance & check & record rudder drop / jumpin	Job	1.00	-	-
161		B) Check pintle nuts for tightness including locking arrangements and drain plugs to be removed and refitted including vacuum test. Air test for rudder plates, repacking glands with yard supply grease test of rudder.	Job	1.00	-	-
162		C) Renewal of top pintle bearing with Class NK approved material. (Y/S)	KG	100.00	-	-
163		D) Renewal of bottom pintle bearing with Class NK approved material. (Y/S)	KG	100.00	-	-
164		E) Removal and refitting of rudder (if found necessary).	Job	1.00	-	-
165	4.11	Hull Anode (35Z,15Z,10Z Types) Hull anodes to be renewed as per drawing. Hull anodes to be renewed as per existing arrangements. Please quote: A) Per piece of anode (11 KG / piece) Yard supply and fitting (zinc/Aluminum) B) Per piece installation and fitting (owner supply) anodes for (zinc/Aluminum)			-	-
166	A	Option A	Per piece	50.00	-	-
167	B	Option B	Per piece	50.00	-	-
168					-	-
169					-	-
170					-	-
171					-	-
172					-	-
173					-	-

170	D	Material testing as required by surveyor.	Place	100.00					
	E	Thickness gauging of steel plates.							
		Ultrasonic thickness gauging of steel to be carried out as per class rules.							
171		By approved gauging company. Please quote for up to 25,000 points.	Point	25,000.00					
172	F	Cherry Picker for gauging only.	Hours	150.00					
	"BB"	Inner Bottom Plate (Tank Top) GRADE: KA 32, HIGH TENSILE STEEL 315N/mm2							
173	I	Steel plates renewal in Engine room.	Per KG	10,000.00					
174	II	Steel plates renewal in O.B tank, F.P tank, Deep tank and wing tank, etc.	Per KG	12,000.00					
175	III	Steel plates renewal in A.P tank.	Per KG	8,000.00					
176	IV	Steel plates renewal in Oil tank.	Per KG	8,000.00					
177	V	Steel plates renewal in Keel plate of forward or stern area.	Per KG	10,000.00					
178	VI	Steel plates renewal in Chain Locker.	Per KG	4,000.00					
179	VII	Steel plates renewal single curvature.	Per KG	8,000.00					
180	VIII	Steel plates renewal Double curvature.	Per KG	8,000.00					
181	IX	Steel plates renewal on Profile such as bulb bar, angle bar, channel bar etc.	Per KG	14,000.00					
182	I	Cargo Hold no.1	KG	30,000.00					
183	II	Cargo Hold no. 2	KG	30,000.00					
184	III	Cargo Hold no.3	KG	20,000.00					
185	IV	Cargo Hold no. 4	KG	20,000.00					
186		Cargo Hold no. 5	KG	20,000.00					
	"CC"	Upper Deck (Steel AH 32)							
187	I	Port Side Frame 163 - Frame 146	KG	10,000.00					
188	II	Port Side Frame 121 - Frame 123.5	KG	10,000.00					
	"DD"	Internal Top Side Tank Structure (Steel AH 32)							
189		TST Tanks (Port Side)	KG	30,000.00					
190		TST Tanks (SB Side)	KG	20,000.00					
191	"EE"	Hatch cover top plate (Steel AH 32)	KG	20,000.00					
192	FF	Various Accommodation Decks Steel Renewal	KG	50,000.00					
	5.01	Port Gangway And Turntable							
193	I	Port Side and stbd side Gangway And its Turntable Are Bent And Twisted Need To Be Aligned And Straighten as required. Type: Aluminium Area: 64 x 40 cm	Job	1.00					
194	II	P/S gangway and combination ladder securing cleats are bent corroded needs to be changed. (Y/S)	Per Cleats	10.00					
195	III	Port side combination ladder hinges, cleats and steps are damaged/broken need to be repaired.	Per step	12.00					
	IV	Both gangway motor covers badly corroded to be fabricated new and fixed.		2.00					
196	V	Transportation of Gangway outside yard for repairs and fit back (if required)	Job	1.00					
197	5.02 A	Remove old gangway (1 Nos.) and fitting new gangway (Owner supply)	Job	1.00					
198	5.02 B	Supply of new gangway (Yard supply)	Job	1.00					
	5.03	Gangway Steps And Roller Repair							
199	a	P/S accommodation ladder broken steps (allow for 10 steps) need to be repaired. Rubber roller need to be changed at lower platform.	Job	1.00					
200	b	Combination ladder on stbd side broken and deformed badly, need to be replaced (Y/S).	Job	1.00					
	5.04	Choked Scupper							
		Choked Scuppers at following location to be renewed							
201		1. main deck 07 nos.	per place	7.00					
202		2. Galley 03 nos.	Per Place	3.00					
203		3. Boat Deck 02 nos.	Per Place	2.00					
204		4. Wheel House 02 nos.	Per Place	2.00					
205		5. Hospital 01 nos.	Per Place	2.00					
		Accommodation scupper pipes badly wasted to be renewed at following decks							
206		total no of pipes 20 (dia 80mm, 60 mm)	Per Place	1.00					
	5.05	Quote: Lumpsum per scupper including costs of staging, access and material							
	a)	Air and Sounding Pipes							
		Inspection by surveyor. Recommendation to be attended							
		Air and sounding pipes to be renewed (Y/S).							
		Sounding pipe Size: 125mm, 65mm.							
		Air vent valves of Air Pipes to be overhauled, wire gauze to be renewed (Y/S). Total 15 nos.							
		Air pipe renewal per meter							
207		125mm	Per M	50.00					
208		65mm	Per M	50.00					
		Sounding pipe renewal per meter							
209		125mm	Per M	50.00					
210		65mm	Per M	50.00					
211		Air vent overhauling per head. Ballast water tanks, fresh water tanks, fuel oil tanks and diesel oil tanks natural vent heads to be hammer tested.	Per Vent head	50.00					
212		Ballast water tanks, fresh water tanks, fuel oil tanks and diesel oil tanks natural vent heads to be hammer tested and corroded vent heads to be renewed. Presently 3 ballast water tanks and fuel oil tank vent heads to be renewed.	Per Vent Head	3.00					
		Ballast Water Tank Head Model Number: 53NS-250							
		Fuel Oil Tank Vent Head Model Number: 53ON-80							
		Fresh Water Tank Head Model Number: 53ON-100							
		E/R BILGE TANK SUCTION LINE TO BILGE PUMP SUCTION NEED TO BE REPLACED. PIPE OUTER DIA 65MM. SCH 10. LENGTH 15M. BEND 3, 90DEGREE.							
		FOLLOWING SOUNDING PIPES ARE BADLY choked and exact sounding can not be taken to be renewed. total height on all sounding pipes are not exactly as per the sounding book							
213	b)	01. WBT # 3P 02. WBT # 3S 03. HOLD BILGE # 3S NUMBER OF HOLD BILGES SOUNDING PIPES = 10 NUMBER OF WBT SOUNDING PIPES = 12 Outer dia of pipe = 50 mm Total length of pipe required = 48 mtrs Staging is required approx height = 16 mtrs	Job	1.00					
214	c)	Sounding Pipe, Sounding Caps And Sounding Pipe Threads To Be Renewed. Inner dia=35mm & Outer dia 45mm 22mm thread (total 24 nos)	Job	24.00					
215	d)	FOT air pipes in stool space need to be repaired. Leaked due to rust and corrosion. Steel Space B/W Hold # 3 And Hold # 4	Job	1.00					
	e)	Fore peak Air Vent Pipe							
216		Fore peak tank air vent pipe at port side inside fore peak store corroded and ruptured, need to be repaired/fabricated. Outer Dia Of Pipe = 16.5 cm Length Of Pipe = 2 Mtrs Staging Is Required Approx Height = 08 Mtrs	Job	1.00					
	f)	Air Vent Rubber Packing (Y/S)							
217		All air vents on deck inside rubber packing needs to be renewed at various locations. All air vents on deck inside rubber packing needs to be renewed at various locations. Following are the model and quantity of air vent heads on deck. 1. 53BN-200 (16 NOS.) 2. 53NS-250 (6 NOS.) 3. 53BN-150 (2 NOS.) 4. 53ON-100 (2 NOS.) 5. 53ON-50 (2 NOS.) 6. 53ON-80 (2 NOS.) 7. 85AFC (2 NOS.) Rubber packing to be supplied as per model and sample.	Job	1.00					
	5.06	Lashing Baskets Repair							
218		Lashing Baskets Badly Damaged And Broken Need To Be Repaired	Job	1.00					
	5.07	Wheel House Doors Port & Stbd. Wings							
		Wheel house doors Port & STBD wings are corroded on top of frames, wheels out of track and badly leaking in case of rain.							
219		Wheel house door's port & STBD wings top frame to be repaired, door's wheels	Door	2.00					
	5.08	Quote Lumpsum for the above each door							
		Q.A Cleats of hatch covers.							
		Q.A Some cleats are unoperational due to rusting and U-plate wasted. All marked on deck. These defects to be rectified in order to make all Q.A cleats operational.							

Handwritten signature and official stamp of the Department of Marine Engineering, dated 10/11/2023.

220		Quote : 1) Lump sum per cleat renewal, yard supply	Cleat	200.00						
221		2) Lump sum per U-Plate, yard supply	U-Plate	200.00						
	5.09	Hatch drain valves								
		Hatch covers 1,2,3,4,5 (P&S) drain valves to be supplied and fitted.								
222		Quote : Supply of Drain valves	Valve	40.00						
223		Quote: Fitting of Owner supply valves	Valve	40.00						
	5.10	Repair Jobs In Cargo Holds (include cost of staging In your quotation)								
		HOLD NO.2								
224		1. Sounding and air vent pipe guard rail damaged at aft of the hold	Job	1.00						
225		2. Straight ladder railing to be repaired at 1st platform.	Job	1.00						
226		3. Straight ladder lower platform railing to be repaired, railing missing.	Job	1.00						
227		4. Conduit line of water ingress alarm to be repaired	Job	1.00						
228		5. Water ingress alarm protection plate to be repaired	Job	1.00						
		HOLD NO.3								
229		1. Conduit line of water ingress alarm to be repaired.	Job	1.00						
230		2. Water ingress alarm protection plate to be repaired.	Job	1.00						
231		3. Air vent pipe guard railing need to be repaired.	Job	1.00						
232		4. Straight ladder lower platform railing damaged, to be repaired.	Job	1.00						
233		5. Australian ladder steps and guard rail is damaged/broken badly.	Job	1.00						
		HOLD NO.4								
234		1. Sounding pipe guard rail is damaged.	Job	1.00						
235		2. Straight ladder platform railing damaged.	Job	1.00						
236		3. Straight ladder lower platform railing is damaged.	Job	1.00						
237		4. Conduit line of water ingress alarm to be repaired	Job	1.00						
238		5. Water ingress alarm protection plate to be repaired	Job	1.00						
		HOLD NO.5								
239		1. Straight ladder platform damaged	Job	1.00						
240		2. Australian ladder steps and guard rails are damaged.	Job	1.00						
241		3. For sounding pipe guard rail damaged	Job	1.00						
242		4. Conduit line of water ingress alarm to be repaired.	Job	1.00						
243		5. Water ingress alarm protection plate to be repaired.	Job	1.00						
	5.11	Cargo Hold Bilges								
244		10 nos. Hold bilges non return valves, ball mouth to be overhauled, strainer to be renewed as per sample and suction test to be carried out. Missing rose boxes to be fabricated and fixed.	Job	1.00						
	5.12	Hold # 3 Water Leakage From Aft Bulkhead To Steel Space Rectification								
245		After taking ballast water in cargo hold no. 3 aft bulkhead to steel space water leakage to be rectified.	Job	1.00						
	5.13	Cargo Holds Channel Drain Pipes								
246		Cargo holds channel drain pipes badly corroded, deformed and choked need to be repaired/ renewed where required. Outer dia : 35 MM. Total length of pipe : 10 mtrs Drain valves are already onboard	Per Meter	10.00						
247	5.14	Australian ladder in hold no 1,2,3,4 & 5 along with railings and platform badly deformed and broken to be renewed.	Ladder	5.00						
	5.15	Main Deck								
248	i	Collapsible stanchions / upright for securing the logs deformed and bent, Not coming in its required positions same to be fared up. Total 68 Nos.	Per Pc	68.00						
249	ii	Collapsible stanchions hinges pins to be removed and inspected, bent pins to be renewed. Total 68 nos. Pins to be renewed (Owner Supply). Base pin housing hole dia of all stanchions has been worn out / changed due to rust All 68 collapsible stanchions to be taken to yard , base pin housing hole dia to be adjusted as per manufacturer and base pins to be renewed.	Pin	68.00						
250	iii	Supply of Pins	Pin	68.00						
251	iv	AIR LINE ON MAIN DECK STARBOARD SIDE IS WASTED / CORRODED BADLY IS REQUIRED TO BE RENEWED ALONGWITH U-CLAMPS AND SUPPORTS OUTER DIA: 30mm LENGTH: 150 Meter	Meter	150.00						
	5.16	Cross Deck Lights Supporting Angle								
252		Cross deck lights supporting angles bar badly wasted , deamed and deformed need to be repaired. Dimension: 60 mm angle bar 10 mm thickness	Job	1.00						
	5.17	Sockets of Stanchions At Fwd Embarkation Ladder								
253		Sockets of stanchions at fwd embarkation ladder emergency point badly wasted, corroded needs to be renewed at port and starboard side. Outer dia of socket = 42 mm Inner dia of socket = 30 mm	Job	1.00						
	5.18	Cooler Duct Flaps								
254		Cooler duct flaps of all 4 cranes are badly corroded needs to be repaired.	Crane	4.00						
	5.19	Snatch Blocks								
255		Collapsible stanchions lifting snatch blocks badly jammed/ corroded need to be made freely movable/overhauled. Type of block = JISF 3422 / SW 240	Job	1.00						
	6.20	Collapsible Stanchions Hooks								
256	(a)	hooks at all collapsible stanchions fore and aft, corroded and badly damaged, missing is required to be repaired. (for lifting the chains and foot wires), dia meter of round bar = 20 mm	Per Hook	10.00						
257	(b)	Supply and renewal of Hooks	Per Hook	5.00						
	5.21	Collapsible Stanchions Leaning Outward/Seaward								
258		Collapsible Stanchions Are Leaning Outward/Seaward Need To Be Standing Straightly	Job	1.00						
	6.22	Fixed Stanchions Supporting Pipes								
259		Fixed stanchion supporting round pipes at centre, intermediate and top side also between cross deck supporting pipes badly damaged, bent, corroded and broken need to be repaired and fabricated. Also cause vibrations due to cracks b/w their joints. Staging is required at each stanchion approx 10 mtrs height & 3 mtrs length. Total fixed stanchion = 12 nos. Total cross deck supports = 08 nos. Total length of pipes of pipes to be renewed is approx : 80 mtrs circumference : 55 cm	Job	1.00						
	5.23	Collapsible Stanchions Bent								
260		Collapsible stanchions bent/ do not secure properly at each other need to be rectified. Total collapsible stanchions = 48 nos About 40 collapsible stanchions bent to be taken out to yard , straightened , and then fixed back	Per Pc	40.00						
261	5.24	Fixed stanchions top snatch blocks to be overhauled. (10 Nos). Type of block = JISF 3422 / SW 240	Per Pc	10.00						
262	5.25	Fixed stanchions top snatch blocks to be renewed (Yard Supply) (5 Nos). Type of block = JISF 3422 / SW 240	Per Pc	5.00						
	5.26	Straight ladder on the fixed stanchions damaged / bent to be renewed at following places. Size of the pipe = 22 mm Flat bar = 30 mm								
263		No. 1 (P/S)	Per Meter	15.00						
264		No. 2 (P/S)	Per Meter	20.00						
265		No. 3 (P/S)	Per Meter	20.00						
266		No. 4 (P/S)	Per Meter	15.00						
267		No. 5 (P/S)	Per Meter	15.00						

268	5.27	Collapseable Stanchions Stopper Plate Collapseable stanchions stopper plate cracked /damaged/ missing to be cropped off and renewed (Yard Supply).	Per piece	2.00				
269		HOLD # 1 P/S = 2 NO'S	Per piece	2.00				
270		HOLD # 2 P/S = 2 NO'S	Per piece	2.00				
271		HOLD # 3 P/S = 2 NO'S	Per piece	2.00				
272		HOLD # 4 P/S = 2 NO'S	Per piece	2.00				
273		HOLD # 5 P/S = 2 NO'S STOPPER OUTER DIA= 95 MM HEIGHT = 220 MM	Per piece	2.00				
274	5.28	Wire Mesh Of Ventilators (Y/S) Wire mesh of wbt, F.O, D.O. Tanks, air pipe ventilators to be renewed. Total wire mesh required approx. = 10 m2	Per Sq. Meter	10.00				
275	5.29	Ventilators Flaps And Rubber Packing All ventilator flaps, wire mesh, collars and hinges are badly corroded, damaged and missing need to be renewed (Material Yard Supply).	Per Piece	25.00				
276		Also required to Renew rubber packing (Yard supply) Ventilator Flaps Dia 17 cm 5 Nos.	Per Piece	5.00				
277		Also required to Renew rubber packing (Yard supply) Ventilator Flaps DIA 19 cm 20 Nos.	Per Piece	20.00				
287	5.30	Rader Mast (Y/S)	Job	1.00				
278	5.31	Butterfly Nuts (Y/S) Wasted/corroded butterfly nuts/wing bolts of hatch entrances & natural vents covers to be renewed as per sample. (Allow for 100 Nuts) Steel wing bolts type no.1, steel, nominal size and thread m20 length 14.25 cm. DIA 1.97 cm	Per Piece	100.00				
279	5.32	Walkway Platform And Railing Walkway platform steps and railing between cross decks of holds no. 1, 2, 3, 4 and 5 to be renewed (Y/S). Following are the measurements of steps for which checker plates need to be changed. Railing pipe dia. 35 mm x 50 meter	Job	1.00				
280		1. 28 cm x 57 cm (20 nos.)	Job	1.00				
281		2. 21 cm x 57 cm (40 nos.)	Job	1.00				
282		3. 54 cm x 53 cm (20 nos.)	Job	1.00				
283		4. 39 cm x 60 cm (20 nos.)	Job	1.00				
284		5. 68 cm x 60 cm (20 nos.)	Job	1.00				
285		6. 60 cm X 60 cm (02 nos.)	Job	1.00				
286		7. 25 cm X 57 cm (02 nos.)	Job	1.00				
287	5.33	Forward Mast Stays (Y/S) Fwd Mast Stays Badly Corroded And Deformed Need To Be Renewed. One stay is already parted. Vinyl Coated Wire Rope, GSWR, Wire DIA 18 MM, Thimble Eyes On One End Length 12 mtr	Meter	12.00				
288		Hydraulic pipe line on deck bracket along hatch coaming thinned, wasted, to be renewed Size Angle bar size: 40 x 40 x 350mm Pipe dia: 50 mm. Allow for 200 meter renewal (Y/S)	Meter	200.00				
289		Quota, per bracket and clamp renewal (Y/S)	bracket & clamp	150.00				
290	5.34	Steering Gear Tanks Oil Compensating Line (Y/S) Steering Gear Tanks Oil Compensating Line to be renewed. Pipe Dia 35mm Pipe length: 3 m Flange outer dia: 95mm hole Dia: 12mm	meter	3.00				
291	5.35	Universal Fairlead Rollers & Horizontal Rollers 8 nos. 8 nos. multi-angle Universal fairleads rollers for fore & aft back-springs to be overhauled/made free for operation.	Per Pc	8.00				
292		8 nos. horizontal rollers for fore & aft back spring ropes to be overhauled/made free for operation.	Per Pc	6.00				
293		All fair lead rollers to be overhauled.	Per Pc	8.00				
294		Fairlead rollers top plates badly corroded, broken and deformed need to be renewed (Y/S) all post deck and fox1 deck. Total no of fairlead rollers = 24. NO of corroded & deformed plates = 13.	Per Pc	4.00				
295	5.36	1. CONDUIT LINE OF WATER INGRESS ALARM SENSOR FROM HOLD # 1 PORT AFT TO LASHING LOCKER PORT BENT, CORRODED, CRACKED, NEEDED TO BE RENEWED (Y/S). OUTER DIA: 50mm LENGTH: 1.15 meters	Job	1.00				
296	5.37	2. CONDUIT LINE OF WATER INGRESS ALARM SENSOR FROM HOLD # 2 AFT ACCESS TO CRANE MAST HOUSE # 2 BENT NEEDED TO BE RENEWED (Y/S). OUTER DIA: 50mm LENGTH: 4.0 meters	Job	1.00				
297	5.38	VENTILATOR FLAP, MESH AND HINGES OF THE FOLLOWING DECK STORES ARE BADLY CORRODED NEEDS TO BE RENEWED. ALSO REQUIRED TO CHANGE RUBBER PACKING (Y/S).						
298		* LASHING LOCKER PORT AFT OF CH HOLD # 1	Job	1.00				
299		* LASHING LOCKER STBD AFT OF CH HOLD # 1	Job	1.00				
300		* WELDING STORE AFT OF CH HOLD # 3	Job	1.00				
301		* HYDRAULIC UNIT ROOM FWD OF CH HOLD # 3	Job	1.00				
302		* SOPEP LOCKER AFT OF CH HOLD # 4	Job	1.00				
302	5.39	COLLAPSEABLE SAFETY RAILING FOR CROSS DECKS AND FIXING SOCKET PIPE RENEWAL (Y/S) # NO 1 PORT AFT # NO 2 PORT & STBD FWD # NO 3 STBD FWD SIZE OF THE PIPE = 34 MM LENGTH = 1.55 M (02 PCS) HEIGHT = 0.90 M	Per M	150.00				
303	AA)	LENGTH = 1.15 M HEIGHT = 0.90 M (02 PCS)	Per M	150.00				
304	BB)	LENGTH = 0.40 M HEIGHT = 0.90 M (01 PCS)	Per M	150.00				
305	CC)	Securing clamps for the greasing hose on the jib head for the cranes sheaves to be renewed (Y/S).	Per Crane	4.00				
306	5.41 (a)	CRANE SECURING CRADLES NEEDS RENEWAL (Y/S) OF SECURING BOLT AND BUTTERFLY NUT FOR ALL (04) CRANES, RUBBER PAD REQUIRE FOR THE SAME. LENGTH OF THE BOLT = 120 MM DIMENSION FOR THE PAD AS FOLLOW LOWER PART - 1. 55 CM X W = 34 CM X T = 1 CM UPPER FLAP - L = 42 CM X W = 14.5 CM X T = 1 CM	PER PIECE	4.00				
307	b	FIRE LINE EXPANSION JOINT ABREAST OF HOLD NO 3 & 4 (STBD) SIDE LEAKING, TO BE RENEWED (Y/S).	Job	1.00				
308	5.42	Machine Parts Handling Rack Hinges Tons Machine Parts Handling Holat Rack Hinges Corroded, Wasted Badly Need To Be Renewed (Y/S) Location on board: MAIN DECK AFT OF HOLD # 5	Job	1.00				
309	5.43	FRESH WATER WASHING LINE ON MAIN DECK PORT SIDE IS WASTED / CORRODED BADLY IS REQUIRED TO BE RENEWED AT FOLLOWING PLACES. ABREAST OF NO. 5 PORT SIDE = 30 M ABREAST OF NO.4 PORT SIDE = 10 M AFT OF NO.3 PORT SIDE = 20 M AFT OF NO.2 PORT SIDE = 20 M AFT OF NO.1 PORT SIDE = 20 M DIA OF THE PIPE = 35 MM.	PER METER	100.00				
310	5.44	SECURING CLAMP OF QUICK ACTING CLEATS IS BADLY BENT; DEFORMED NEEDS TO BE RENEWED (Y/S) AT AFT PORT SIDE OF HATCH # 1	Job	1.00				
311	5.45	SUPPORTING STEPS AT FOLLOWING HATCHES FOR PERSON STANDING, OBSERVING IN HOLDS ARE BADLY BENT NEEDS TO BE RENEWED (Y/S).						
312		* HOLD # 2 AFT STBD	Job	1.00				
313		* HOLD #3 FWD STBD	Job	1.00				
314		* HOLD 1 AFT PORT	Job	1.00				
315		* HOLD # 4 FWD STBD	Job	1.00				



316		- HOLD # 5 FWD STBD	Job	1.00					
5.46		LADDER FOR ACCESS ON HATCH COVER TOP IS BADLY CORRODED BENT NEEDS TO BE RENEWED (Y/S) AT FOLLOWING LOCATIONS							
317		- HOLD #2AFT	Job	1.00					
318		- HOLD #3FWD	Job	1.00					
319		- HOLD # 4AFT	Job	1.00					
320		- HOLD #5FWD	Job	1.00					
		NOTE:- DIMENSIONS FLAT BAR 50MM WIDTH 10MM THICKNESS STEPS 20MM SQUAREBAR SUPPORTED BY 40MM X 10MM THICKNESS ANGLE BAR							
321	5.47	PORT SIDE PILOT POINT COMBINATION LADDER BENT AT LOWER AND UPPER PLATE FORM NEEDS TO BE REPAIRED.	Job	1.00					
	5.48	Pilot Point Sockets							
322		02 Nos. Sockets of pilot points to be repaired. Toggle pin jammed in sockets.	Job	1.00					
323	5.49	PEDESTAL PLATFORMS OF CRANE # 1,2,3 & 4 ARE BADLY DEFORMED,BROKEN,BENT NEEDS TO BE CHECKED WELDING AND RENEWAL OF CORRODED BARS	Per unit	4.00					
	5.50	HATCH ACCESS RUBBER PACKING CHANNEL WASTED BADLY, DEFORMED BENT TO BE REPAIR AND CHANGE OF RUBBER PACKING (Y/S). Approx size: 1m x 1m							
324		- HOLD # 1 FWD & AFT	Per Unit	2.00					
325		- HOLD # 2 FWD & AFT	Per Unit	2.00					
326		- HOLD # 3 FWD & AFT	Per Unit	2.00					
327		- HOLD # 4 FWD & AFT	Per Unit	2.00					
328		- HOLD # 5 FWD & AFT	Per Unit	2.00					
	5.51	Bunker Tray Repair							
329		01 No. F.O.T Bunker Manifold Tray Boundary Plate Corroded And Wasted Part To Be Renewed.	Job	1.00					
	5.52	Life Boats							
330		Annual inspection of life boat davits.	Life boat	2.00					
331		Life boats both port/sb side load test, water born test and Dynamic Test.	Life boat	2.00					
332		Five yearly inspection of life boat Davit / Winch.	Life boat	2.00					
	5.53	Gangway, Life boat, Bunker winches overhauling. Following winches to be removed to shop and overhauled. 1. Gangway P&S winches 2. Life boat P&S winches 3. Bunker davit P&S winches							
333		Quote for each winch overhauling including small repair if found.	Per Winch	6.00					
	5.54	Life Boats View Screen Glass (Y/S)							
334		Life boats view screen glass need to be renewed. Total = 4 x 4 = 08 no's	Per piece	8.00					
	5.55	Changing Of Wires							
		Wires to be renewed (Y/S) of following lifting appliances, Wires to be supplied by dry dock							
335		1. Life boat davit wire = 02 no's	Per piece	2.00					
336		2. Gangway wires = 02 no's	Per piece	2.00					
337		3. Provision crane wires = 02 no's	Per piece	2.00					
		4. Engine room crane wire = 01 no. ENGINE ROOM OVERHEAD CRANE WIRE TO BE CHANGED AND LOAD TEST TO BE CARRIED OUT LOAD AND SPEED = 3T X 3M/MIN TEST LOAD = 3750 KGF WIRE ROPE = 10MM X 4 FALL, 6 X 37 FC ELECTRIV SOURCE = AC 440V, 60HZ, 3 PHASE	Per Job	1.00					
339		5. Combination ladder wires = 02 no's	Per piece	2.00					
340		6. Deck cranes Runner and luffing wires = 03 no's Crane no. 1 luffing wire, crane no. 4 both luffing & hoisting wire	Per piece	3.00					
	5.56	Changing Of Wire Drum (Y/S)							
		Wire drums need to be changed of following: 01. PROVISION CRANES = 02 NO'S 02. COMBINATION LADDER = 02 NO'S	Per piece	2.00					
341		Note: Include all associated charges in your quote e.g. staging, access, cleaning etc.	Per piece	2.00					
342		Load test of following lifting appliances to be carried out.							
343		1. DECK CRANES = 04 NO'S	UNIT	4.00					
344		2. PROVISION CRANES = 02 NO'S	UNIT	2.00					
345		3. ENGINE CRANE = 01 NO'S	UNIT	1.00					
346		4. GANGWAY PORT AND STBD = 02 NO'S	UNIT	2.00					
347		5. LIFEBOAT DAVIT = 02 NO'S	UNIT	2.00					
348		6. COMBINATION LADDER = 02 NO'S	UNIT	2.00					
	5.58	Handling Hoist Crane							
349		Machine Parts Handling Hoist Crane End Cover To Be Fabricated New, Crane Servicing And Load Testing To Be Carried Out MAKER: TOYO HOIST MFG. CO., LTD TYPE: YE-30H RATED LOAD: 3 TON	Job	1.00					
	5.59	Bulwark Guard Rails Repair							
350		Guard rails of bulwarks from pilot point to accommodation wasted part need to be repaired/fabricated as required on port and sbd side. Allow for 100 m of A-40 pipe renewal. Quote per m	Meter	100.00					
	5.60	Hatch covers opening /hyd. Cylinder overhauling.							
351		Cargo holds hatch covers opening jacks total 14 nos. to be overhauled and seals (Vessel Supply) to be renewed.	Per Unit	14.00					
	5.61	Hatch Covers opening closing operation including Landing Pads.							
		Smooth operation, opening & closing of all hatch covers to be insured. Nos. 1 & 2 Landing Pads to be adjusted for proper compression & contact with all around rubber packing. No. 3 to be adjusted for proper contact of fore & aft compression bar.	Per Unit	5.00					
	5.62	Hatch Pontoon rubber stopper							
353	a	Hatch pontoon rubber stopper pads of all wasted and need to be renewed (If owner supply) 56 nos.	Per Unit	56.00					
354		Quote for Yard supply of Rubber stopper pads	Per Unit	56.00					
345		ALL HATCH COVER ROLLER WHEELS TO BE OVERHAULED, CHECK FOR THE CONDITION. BEARING TO BE RENEWED WHERE REQUIRED. 20 NOS	PER UNIT	20.00					
347	b	All Hatch pontoon rubber channel packing (If owner supply) to be renewed. Removal, Cleaning and Refilling include. Water tightness to be tested and ensured.	Per Meter	100.00					
355		Quote for Yard supply of Rubber channel packing	Per Meter	100.00					
356	5.63	Straight ladder collapsible platform with railings in Hatch no 1 fwd to no 5 aft missing two in each hold to be made and fitted. Missing atops at var pieces to be renewed.	Job	1.00					
	5.64								
	a)								
357	i	Hatch no 1,2,3,4 & 5 hatch cover opening/ closing controlled lever. Box corroded and wastes to be renewed 05 pcs. Size of the control box = 35x45x42 cm MS Plate: thickness - 6 mm	Per unit	5.00					
358	ii	HATCH COVER OPENING/CLOSING LEVERS NEED TO BE TESTED/CHANGED AS REQUIRED (Owner supply). Presently found oil leakage from No 4, No3 and No 2	Per unit	10.00					
359		Hatch no. 01 35 mtrs	Per Meters	35.00					
360		Hatch no. 02 40 mtrs	Per Meters	35.00					
361		Hatch no. 03 40 mtrs	Per Meters	35.00					
362		Hatch no. 04 35 mtrs	Per Meters	35.00					
363		Hatch no. 05 40 mtrs	Per Meters	35.00					
364	iv	ELECTRIC CABLE CONDUIT LINE FROM CRANE MAST # 1 TO LASHING LOCKER PORT BADLY DEFORMED; PRESSED; NEEDS TO BE RENEWED. QUOTE LUMP SUM COST INCLUDING ACCESS ETC. Outer Dia: 110mm Total Length 95 meters	Job	1.00					

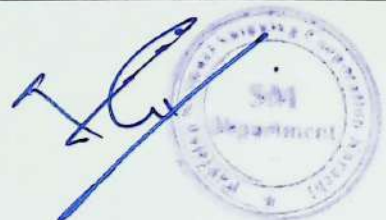
	6.14	Change Of Water Filter Water Cleaning Filters Need To Be Changed . Type Domestic Filter System In Crew And Officer Mess Room	Job	1.00					
423	6.15	Water Taps Of Galley Various Water taps are loose and leaked in galley need to be changed/ fixed.	Job	1.00				-	-
424	6.16	Urinalor Repair Upper deck Common lavatory corner washroom Urinator And Water Supply System Choked And Out Of Order	Job	1.00				-	-
425	6.17	Laundry Heater Crew laundry room heater at upper deck need to be renewed (Y/S).	Job	1.00				-	-
426	6.18	Muslin Shower Installation MUSLIN SHOWERERS NEED TO INSTALL AT FOLLOWING PLACES (Y/S) 1. 3rd aft. & ETO common washroom (01) 2. A-Deck Common Wc (02) 3. Upper deck crew lavatory (03) 4. Chief officer washroom (01) 5. 2nd eng washroom (01) 6. Pilot cabin washroom (01) 7. 4th & 3rd eng common washroom (01) 8. Master cabin (01) 9. Cheng cabin (01)	Job	1.00				-	-
427			Job	1.00				-	-
428			Job	1.00				-	-
429			Job	1.00				-	-
430			Job	1.00				-	-
431			Job	1.00				-	-
432			Job	1.00				-	-
433			Job	1.00				-	-
434			Job	1.00				-	-
435			Job	1.00				-	-
436			Job	1.00				-	-
	6.19	Port Holes Corroded Plate Repair Port holes plates corroded badly need to be repaired inside the cabins at upper and a-deck. Total no's = 05 Location: trieng room, 3rd eng rm on a-deck, Upper deck spare room, oiler room, sb room	Job	1.00				-	-
437	6.20	Cabin Lock And Key System Crew cabin lock and key system out of order. Need to be changed.						-	-
438		Total no's = 03 Location: at upper deck - sb and oiler room A-deck - cadet room on port side.	Per piece	3.00				-	-
	6.21	Magnetic Heading Device Magnetic heading device sensor on autopilot console of gyro out of order. Required service.	Job	1.00				-	-
439								-	-
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480		P/S Anchors Compression Bars Hinges Are Badly Wasted And Corroded Need To Be Repaired.	Job	1.00				
481		Ispring pipe covers to be replaced with new one.	Job	1.00				
7.18		DECK CRANE 2, BLEWING HYD MOTOR OIL SEAL TO BE REPLACED.	Job	1.00				
					SUBTOTAL			
8.00		MACHINERY REPAIRS						
		COMPOSITE BOILER MAKE:- TORTOISE ENGINEERING COMPANY LTD. JAPAN MODEL:- MK3C 22-1409/800, SHIP NO S-10352 HEATING SURFACE: OIL SIDE: 38.48 CUBIC METER GAS SIDE: 211.34 CUBIC METER EVAPORATING SURFACE: OIL SIDE: 1400 Kg/h GAS SIDE: 800 Kg/h MAX. WORKING PRESSURE: 9.69MPa HYDRAULIC TEST PRESSURE: 1.04MPa NUMBER: M-2694 MANUFACTURING DATE: 12-2002 TORTOISE ENGINEERING CO. LTD. (OLD NAME: HADA IRON WORKS CO. LTD.) 706, KITAGAWARA, MASAKI-CHO, IYO-GUN, EHIME-PREF, JAPAN A) All boiler mountings, V/Vs including Soot Blow V/Vs and covers / manhole door to be dismantled, overhauled & fitted back. Pressure Gauges To Be Calibrated. All Steam Gaskets to be renewed (Y/S). (RATE X 10 DOORS)	Job	1.00				
482		B) Boiler Fire Side, Exhaust Side Tubes And Water Side To Be Cleaned And Pressure Tested	Job	1.00				
484		C) Boiler to be Pressure test at 10 Bar in presence of NK surveyor.	Job	1.00				
485		Tube found leaking, to be plugged or renewed. (Y/S)	Tube	20.00				
486		D) Final Pressure test at 10 Bar	Job	1.00				
487		E) Boiler fire side & exhaust side tubes to be mechanically cleaned & boiler to be surveyed.	Job	1.00				
488		F) Repairs of Boiler furnace refractory. Material = PILIBCO COMPOUND HIGH DENSITY ALUMINIA COMPOUND)	M2	5.00				
489		G) Boiler refractory and fire side damage plate to be repaired Damage plate size = 2.5m x 2m	Job	1.00				
8.01		Main Engine Cylinder Heads Main Engine Type: Kawasaki MAN B&W 8S50MC-C						
490	a	Main Engine Units Cylinder Head Metal found eroded/wiped out considerably deep around the upper portion of atomizer on both sides of fuel valve pockets. All Cylinder Head to be repaired. All Unit Cylinder Head Jacket Water Guide O-Ring to be renewed (Q/S)	Per Pc	6.00				
491	b	Main Engine Manoeuvring System to be serviced.	Job	1.00				
		Lumpsum Quote						
8.02		PWD And AFT. Stern Tube Seal Leakages To Be Rectified.						
492		KOBELCO MARINE ENG CO. LTD. Serial No.: X-33290 Type: CX-500 FORWARD AND AFT. STERN TUBE LEAKAGE TO BE RECTIFIED BY MEANS OF SEAL. RENEWAL: (Seal Owner Supply)	Job	1.00				
8.03		Main Engine Turbocharger 310M478 KAWASAKI-MAN B & W EXHAUST GAS TURBOCHARGER. TYPE: NA 4L/SO1087 MACHINE NO: 0698 MAX. DESIGN SPEED: 17800 REV/MIN MAX. SERVICE SPEED: 16800 REV/MIN MAX. GAS TEMP: 620 DEG C NOZZLE AREA: 3360 CM SQUARE DIFFUSER AREA: 272.8 CM SQUARE X 18 DEG WEIGHT: 3.7TON COMPLETED: NOV. 2002 KAWASAKI HEAVY INDUSTRIES KOBE JAPAN.						
493		Main Engine Turbocharger To Be Overhauled & Surveyed.	Job	1.00				
8.04		Main Engine Scavenge Air Cooler Main Engine Type: Kawasaki MAN B&W 8S50MC-C KAWASAKI-GEA AIR COOLER COOLER TYPE: BKB577S-F1 x 18ET (AC4) 1650/2320/24-NSR-SC212K COOLER NO: 4KFSMS MASS: 1400KG, FABRICATED: JAN 2003						
494		Main Engine scavenging air cooler to be chemically cleaned & pressure tested. If required tubes to be plugged	Job	1.00				
8.05		Main Engine Lube Oil Pump No. 02 Motor						
495		Main Engine Lub Oil Pump No. 2 Motor to be overhauled. AC 440 volts, 60Hz, 3-Phase, 65KW, 105 Amps, 4-pole.	Job	1.00				
8.06		Main Engine Governor to be overhauled by maker's engineers. Type: NABCO MG-300 type Woodward Governor to be overhauled by makers' or their approved workshop.						
496		Quote: Lumpsum for the above Job	Job	1.00				
8.07		Auxiliary Engines Scavenging Air coolers						
		Auxiliary Engine 3 air coolers to be removed and transported to shop for chemical cleaning to be done. End covers to be removed, Coatings and anodes to be renewed (Y/S) After inspection, coolers to be pressure tested at maker's prescribed pressure, returned to vessel and reconnected in place Allow for opening up and removal of piping and floor plates for access and later to refit.						
497		Quote: Lumpsum for the above jobs	Job	1.00				
8.08		Main Engine Lub Oil Cooler						
498		Main engine lube oil cooler to be opened, chemically cleaned gasket to be renewed (Y/S) after assembly, cooler to be operational tested	Job	1.00				
499		Pressure test and hammer test of main deck fire line to be carried out, damaged pipe to be renewed.	Job	1.00				
8.09		Main Engine Jacket water Cooler Main engine jacket water cooler to be opened, chemically cleaned gasket to be renewed (Y/S) after assembly, cooler to be pressure tested.						
500		Quote: lump sum for the Job	Job	1.00				
8.10		M/E Alpha Lubricator System To Be Serviced						
501		M/E Alpha Lubricator System To Be Serviced By Service Engineer. Alpha Lubricator T6TX-40C TOC 3 ALCU 2004-04-13 MAN B&W Diesel A/S, Copenhagen, Denmark	Job	1.00				
8.11		Ballast Pipe Lines In DB Tanks All ballast pipe lines inside DB ballast tanks to be renewed / pressure tested for leakage. DIA 200, 250, 350 mm.						
502		DIA 200mm - SCH 40	Per M	100.00				
503		DIA 250mm - SCH 40	Per M	100.00				
504		DIA 300mm - SCH 40	Per M	100.00				
505		DIA 200mm - SCH 80	Per M	100.00				
506		DIA 250mm - SCH 80	Per M	100.00				
507		DIA 300mm - SCH 80	Per M	100.00				
8.12		BALLAST P/P SUCTION LINE Dallest pump suction line after sea suction v/v leaking badly, same line repaired by clamped and rectified the problem. NEED TO BE REPLACED. BALLAST P/P SUCTION LINE FROM SEA CHEST TO STRAINER TO BE FABRICATED NEW. NO OF FLANGE= 02 FLANGE DIA STRAINER SIDE= 475mm FLANGE PCD STRAINER SIDE= 435mm FLANGE DIA SEA CHEST SIDE= 485mm FLANGE PCD SEA CHEST SIDE= 445mm PIPE DIA= 350mm NO OF HOLES STRAINER SIDE= 12 NO OF HOLES SEA CHEST SIDE= 16 PIPE LENGTH = 1.63 m NO OF BEND= 01	Job	1.00				
8.13		AFT Side Scupper Drain Line To Be Renewed						



509		DETAIL SPECIFICATION: AFT SIDE SCUPPER DRAIN LINE TO BE RENEWED. PIPE OUTSIDE DIA = 35 mm, PIPE LENGTH = 4.2 METERS (APPROX.) NO. OF BEND = 01, BEND DIA = 35 mm, NO. OF FLANGES = 02, FLANGE OUTER DIA = 85 mm, NO. OF HOLES = 04, PCD = 70 mm, SCH = 40	Job	1.00				
	8.14	Main Fire Line						
510		Main Fire Line To Be Renewed, DIA 80 MM Each Length Approx. 50 M To Be Renewed Quote unit rate for Schedule 80 for per meter length	Per Meter	50.00				
511		Main Fire Line To Be Renewed, DIA 100 MM Each Length Approx. 50 M To Be Renewed Quote unit rate for Schedule 80 for per meter length	Per Meter	50.00				
512		All fire hydrant valves to be overhauled and leakage to be rectified. Total 10 pcs	Per Pc	20.00				
513		Fire line drain valves to be renewed (7/8)	Per Pc	20.00				
	8.15	Fire and GS Pump NANWA PUMP MFG.CO LTD. JAPAN. Type: FBCV - 200, TYPE : VERTICAL CENTRIFUGAL PUMP						
		Complete pump to be transferred to the shop. Completely overhauled all required machining to be carried out, bearing to be made and fitted pumps to be balanced						
514		Quote :: Lumpsum for the above including renewal of bearing and bushes. (7/8)	Pump	2.00				
	8.16	Main Sea Water Pump. Type: FEWV-2500, Nanwa pumps mfg. Co. Ltd. 380/250 m3/h,						
515		Complete pump to be transferred to the shop. Completely overhauled all required machining to be carried out, bearing to be made and fitted pumps to be balanced	Pump	2.00				
516	8.17	MAIN SEA WATER P/P OVERBOARD RECIRCULATION VALVE TO BE OVERHAULED	Job	1.00				
517	8.18	MAIN SEA WATER PUMP DISCHARGE BEND BETWEEN PUMP AND DISCHARGE VALVE TO BE FABRICATED NEW. TOTAL LINE LENGTH INCLUDING BEND= 80 CM PIPE OUTER DIA 265 mm FLANGE PCD = 345 mm No OF HOLES IN EACH FLANGE= 12 No OF FLANGES= 02	Job	1.00				
518	8.19	MAIN SEA WATER PUMP DISCHARGE LINE AFTER VALVE TO BE FABRICATED NEW. TOTAL LINE LENGTH INCLUDING BEND= 142 CM PIPE OUTER DIA= 265 mm FLANGE PCD = 435 mm No OF HOLES IN EACH FLANGE= 12	Job	1.00				
519	8.20	ACCOM. AC COOLING SW PUMP SUCTION AND DISCHARGE VALVES TO BE RENEWED SUCTION VALVE = 4 INCH (100mm) DISCHARGE VALVE= 5K-80 (ANGLE VALVE)	Job	1.00				
520	8.21	Aux. Cooling sea water pump suction and discharge valves renew Suction valve: 5K-150a Butterfly valve with worm gear type actuator	Job	1.00				
521	8.22	Discharge valve: 5K-150a Check angle valve						
521	8.22	COTROL ROOM A/C MAIN LINE INLET VALVE ABOVE BALLAST PUMP TO BE RENEWED. VALVE No = DN-20 (STRAIGHT VALVE)	Job	1.00				
	8.23	F.O Heater Steam Inlet And Outlet Valves To Be Renewed						
522		INLET VALVE GLOBE VALVE 16K-25A QUANTITY= 01 IN NO. OUTLET VALVE GLOBE VALVE 16K-15A QUANTITY= 01 IN NO.	Per Pc	2.00				
523	8.24	Port Side Bunker Valve To Be Overhauled.	Job	1.00				
524	8.25	Sludge Tank Suction Valve To Be Renewed ANGLE VALVE 5K-40A QUANTITY= 01 IN NO.	Per Pc	1.00				
	8.26	AE J/W Cooler #1& 2 S.W In And Out Valves To Be Renewed AE J/W cooler #1& 2 SW In and out VIVE to be renewed						
525		Butterfly valve with mechanism 5K-100a Valve dia=100mm Quantity= 04 in no	Per Pc	4.00				
	8.27	AE J.W COOLER #1 & 2 to be Overhauled MAKE ALPHA LAVAL K.K. M18-BFM AE J/W COOLER #1 TO BE OVERHAULED AND END PLATES TO BE MACHINED NO. OF PLATES=35 LENGTH =103MM AREA =7.9 M2	Job	1.00				
	8.28	Steam Condenser S.W Inlet And Outlet Valve To Be Renewed						
527		INLET VALVE BUTTERFLY VALVE 5K-80A QUANTITY 01 IN NO. OUTLET VALVE: BUTTERFLY VALVE 5K-80A QUANTITY 01 IN NO.	Per Pc	2.00				
	8.29	F.O Tank 1 (STBD) Suction Valve To Be Renewed						
528		BUTTERFLY VALVE 5K-100A WORM GEAR TYPE ACTUATOR WITH EXTENDED SPINDLE QUANTITY = 01 IN NO	Per Pc	1.00				
	8.30	M/E J/W Cooler S.W Inlet And Outlet Valve To Be Renewed						
529		INLET VALVE: BUTTERFLY VALVE 5K-125A QUANTITY 01 IN NO. OUTLET VALVE BUTTERFLY VALVE 5K-125A QUANTITY 01 IN NO.	Per Pc	2.00				
	8.31	W.O Tank 1 And 2 Steam Inlet And Outlet Valves To Be Renewed						
530		INLET VALVE GLOBE VALVE 16K-20A QUANTITY= 02 IN NO. OUTLET VALVE GLOBE VALVE 16K-15A QUANTITY= 02 IN NO.	Per valve	2.00				
531	8.32	CONTROL ROOM A/C INLET AND OUTLET LINES TO BE FABRICATED NEW. INLET LINE LENGTH= 20 FT OUTLET LINE TOTSL LENGTH= 47 FT OUTER DIA OF INLET/OUTLET LINE= 35 mm PCD OF INLET/OUTLET LINE FLANGE=75 mm No OF HOLES IN EACH FLANGE= 04 TOTAL No OF FLANGES IN INLET/OUTLET LINE= 18	Job	1.00				
532	8.33	HFO TRANSFER PUMP DISCHARGE LINE VALVE TO DB TANKS TO BE RENEWED. BUTTERFLY VALVE WITH MECHANISM AND EXTENDED SPINDLE. BUTTERFLY VALVE = 80 mm (3 inch)	Job	1.00				

533	8.34	FRESH WATER GENERATOR OIB LINE TO BE RENEWED, NOMINAL SIZE 80A 3", O.D 89.1MM, SCHEDULE 40, SEAMLESS PIPE, LENGTH 2200MM, BEND 90DEGREE, BEND LENGTH 300MM, PIPE SECTION LENGTH TO FLANGE LENGTH 800MM.	Job	1.00				
534	8.35	BALLAST PUMP SUCTION SW LINE TO BE RENEWED, NOMINAL SIZE 350A 14", OUTER DIA= 355 MM, SCHEDULE 80, SEAMLESS PIPE, FLANGE TO BEND LENGTH 340MM, BEND 90DEGREE 90, BEND LENGTH 610MM, BEND TO FLANGE LENGTH 900MM.	Job	1.00				
535	8.36	AIR LT COOLER OIB LINE TO BE RENEWED, NOMINAL SIZE 125A 6", OUTER DIA 130.8MM SCHEDULE 40, SEAMLESS PIPE, FLANGE TO 100DEGREE CURVE LENGTH 255MM, CURVE 10 DEGREE LENGTH 820MM, CURVE TO FLANGE LENGTH 165MM, FLANGE TO FLANGE 820MM, FLANGE TO 90 DEGREE ANGLE 1450MM, 90 DEGREE ANGLE LENGTH 680MM, ANGLE TO FLANGE 1200MM.	PER VALVE	3.00				
	8.37	F.O.D.B TANKS No 1(P&S),2(P&S),3S & O/F TK STEAM INLET AND OUTLET VALVE TO RENEWED						
536		Fuel oil db tank no. 1(p&s),2(p&s),3(s) and o/f tank heating steam inlet and outlet valve to be renewed. Globe valve no. 16k-40a j/s Total quantity of valves = 12	PER VALVE	12.00				
	8.38	AIR CONDITION PUMP SUCTION LINE						
537		A/C PUMP SUCTION LINE FROM SUCTION VALVE TO RETAINER TO BE RENEWED. PIPE LENGTH = 60 cm No OF FLANGES=02 PCD OF FLANGE=165mm No OF HOLES IN EACH FLANGE=08 PIPE OUTER DIA=115mm	Job	1.00				
	8.39	Engine Room Pipe Lines. (Include cost of staging / access in your unit rates) Billet tank suction/filling pipes, holds bilges section pipes in D.B.No. 4 Port & Stbd Yard's equipment and material bends to be included. To be checked by ship's staff. Following sizes of ballast suction/filling pipes and hold bilges suction pipes in D.B No. 4 P & Stbd.						
538		260mm.	Meter	100.00				
539		210mm.	Meter	100.00				
540		125mm.	Meter	100.00				
541		350mm.	Meter	100.00				
		All pipes are schedule 80						
		Quote - Please quote separately for above pipes / meter length.						
	8.40	S.W Outlet From Steam Condenser To Be Renewed PIPE OUTSIDE DIA = 90 mm, PIPE LENGTH = 2.6 METERS (APPROX.) NO. OF BEND = 03, BEND DIA = 90 mm, NO. OF FLANGES = 04, FLANGE OUTER DIA = 180 mm, NO. OF HOLES = 04, PCD = 145 mm, HOLE DIA = 16 mm FLANGE AT CONDENSER OUTER DIA = 200 mm NO. OF HOLES = 08 PCD = 165 mm SCH = 40	Job	1.00				
	8.41	Standby Fire Cooling And Ballast Pump Suction Line To Be Renewed (T-Shape) Line						
543		PIPE OUTSIDE DIA = 220 mm, PIPE LENGTH = 0.55 METERS (APPROX.) NO. OF FLANGES = 03, FLANGE NO.1 OUTER DIA = 310mm, NO. OF HOLES = 12, PCD = 300 mm, FLANGE NO. 2 OUTER DIA = 270 mm, NO. OF HOLES = 08, PCD = 255 mm SCH = 40	Job	1.00				
	8.42	STBD Side Scupper Drain Line To Be Renewed PIPE OUTSIDE DIA = 115 mm, PIPE LENGTH = 12.33 METERS (APPROX.) NO. OF BEND = 02, BEND DIA = 115 mm, NO. OF FLANGES = 08, FLANGE OUTER DIA = 200 mm, NO. OF HOLES = 08, PCD = 160 mm, HOLE DIA = 16 mm SCH = 40	Per Meter	13.00				
	8.43	S.W Inlet To Steam Condenser To Be Renewed PIPE OUTSIDE DIA = 90 mm, PIPE LENGTH = 2.5 METERS (APPROX.) NO. OF BEND = 03, BEND DIA = 90 mm, NO. OF FLANGES = 05, FLANGE OUTER DIA = 180mm, NO. OF HOLES = 04, PCD = 145 mm, HOLE DIA = 16 mm FLANGE AT CONDENSER OUTER DIA = 200 mm NO. OF HOLES = 08 PCD = 165 mm SCH = 40	Job	1.00				
	8.44	Port Side Scupper Drain Line To Be Renewed PIPE OUTSIDE DIA = 90 mm, PIPE LENGTH = 14.88 METERS (APPROX.) NO. OF BEND = 02, BEND DIA = 90 mm, NO. OF FLANGES = 12, FLANGE OUTER DIA = 180 mm, NO. OF HOLES = 04, PCD = 145 mm, HOLE DIA = 16 mm SCH = 40	Job	1.00				
547	8.45	M/E L.O Cooler S.W Outlet Elbow To Be Renewed PIPE OUTSIDE DIA = 220 mm, PIPE LENGTH = 1.1 METERS (APPROX.) NO. OF BEND = 01, BEND DIA = 220 mm, NO. OF FLANGES = 02, FLANGE NO.1 OUTER DIA = 330 mm, PCD = 28 mm NO. OF HOLES = 12, FLANGE NO. 2 OUTER DIA = 330 mm PCD = 28 mm NO. OF HOLES = 08 SCH = 40	Job	1.00				
	8.46	M/E Scavange Cooler S.W Inlet Line To Be Renewed						



548		PIPE OUTSIDE DIA = 165 mm, PIPE LENGTH = 1.15 meters (APPROX.) NO. OF BEND = 01, BEND DIA = 165 mm, NO. OF FLANGES = 02, FLANGE NO. 1 OUTER DIA = 320 mm, NO. OF HOLES = 08, PCD = 280 mm, FLANGE NO. 2 OUTER DIA = 265mm PCD = 230 mm NO. OF HOLES = 08 SCH = 40	Job	1.00				
	8.47	M/E Scavange Cooler S.W Outlet Line To Be Renewed.						
549		PIPE OUTSIDE DIA = 165 mm, PIPE LENGTH = 1.25 meters (APPROX.) NO. OF BEND = 01, BEND DIA = 165 mm, NO. OF FLANGES = 02, FLANGE NO. 1 OUTER DIA = 320 mm, NO. OF HOLES = 08, PCD = 280 mm, FLANGE NO. 2 OUTER DIA = 265mm PCD = 230 mm NO. OF HOLES = 08 SCH = 40	Job	1.00				
	8.48	M/E L.O Cooler S.W Inlet Elbow To Be Renewed						
550		PIPE OUTSIDE DIA = 220 mm, PIPE LENGTH = 1 METERS (APPROX.) NO. OF BEND = 01, BEND DIA = 220 mm, NO. OF FLANGES = 02, FLANGE OUTER DIA = 330 mm, NO. OF HOLES = 12, SCH = 40	Job	1.00				
	8.49	F.O.D.B TANKS NO1(P&S),2(P&S),3(S),OVERFLOW TANK (IN/OUT) STEAM LINES TO BE RENEWED. F.O.OVERFLOW TANK NEED TO BE CLEAN AND GAS FREE						
551		FOR EACH LINE FLANGE P.C.D = 70 mm FLANGE DIA = 95 mm PIPE DIA = 34 mm SCHD=160 LENGTH OF PIPE = 120 mm NO FLANGES = 1 NO OF HOLES IN FLANGE = 4 ADDITIONAL PROTECTIVE SLEEVE TO BE INSERTED	Job	1.00				
552	8.50	Fresh water generator condenser S.W outlet line to be renewed Dia 180 mm (SCH 80)	Per Meter	10.00				
	8.51	FO TANK 1(P&S) SOUNDING PIPE TO BE CLEANED AND TANKS TO BE CLEANED.						
553		fresh water pipe line is wasted corroded and thinned badly to be replaced completely. And 06 no of valves to be installed	Per Meter	160.00				
	8.52	outer dia of pipe= 35 mm (SCH 40) length of pipe = 160 mtrs Saveall And Accom Plugs						
554	8.53	Saveall (Drip Trays) And Drain Plugs Need To Be renewed (Y/S)	Per Set	10.00				
555		Hatch Cover Hydraulic Lines To Be Renewed						
556		Hydraulic main in line (32a sch 160)	Per Meter	150.00				
557		Hydraulic main return line (32a sch 80)	Per Meter	150.00				
	8.54	Hydraulic branch lines to rams (25a sch 80)	Per Meter	260.00				
		Fresh water generator ejector pump suction line to be renewed Dia 60mm						
558		PIPE OUTSIDE DIA = 90 mm, PIPE LENGTH = 0.9 METERS (APPROX.) NO. OF FLANGES = 02, FLANGE OUTER DIA = 175 mm, NO. OF HOLES = 04, PCD = 145 mm, SCH = 40	Job	1.00				
	8.55	FO Tank 1(P&S) Air Vent And Sounding Pipe Renewal. Staging : width = 4(2 x 2)mtr height = 4(10)mtr Air vent pipe = 04 In nos Sounding pipe=02 In nos						
559		AIR VENT PIPE = 125A SCH 80 =15MTR EACH TK	Per Meter	30.00				
560		SOUNDING PIPE = 100A SCH 80 =15 MTR EACH TK	Per Meter	30.00				
	8.56	Fresh Water Generator Ejector Pump Suction Line To Be Renewed						
561		PIPE OUTSIDE DIA = 60 mm PIPE LENGTH = 0.6 Meter (APPROX) NO. OF BENDS = 01 BEND DIA = 60 mm NO. OF FLANGES = 02 FLANGE OUTER DIA = 130 mm FLANGE PCD = 105 mm NO. OF HOLES = 04 SCH NO = 40	Job	1.00				
562	8.57	Main Engine cooling sea water pump suction pipe to be renewed Dia 245mm PIPE OUTSIDE DIA = 270 mm, PIPE LENGTH = 0.75 METERS (APPROX.) NO. OF FLANGES = 03, FLANGE OUTER DIA = 360 mm, NO. OF HOLES = 12, PCD = 340 mm, SCH = 40	Job	1.00				
563	8.58	Main Engine Cooler S.W outlet line to be renewed. Dia 220mm SCH 40	Per Meter	1.00				
564	8.59	Marine Growth preventing device sea water pipe to be renewed. Dia 60mm SCH 40	Per Meter	2.00				
565	8.60	Prox. rel CSW Pump Suction Pipe to be renewed. Dia 50mm SCH 40	Per Meter	10.00				
566	8.61	Stand by SW Pump Strainer Body and its cover to be renewed. (Y/S)	PER PIECE	1.00				
567	8.62	Fire & GS Pump Overboard Line to be renewed. DIA. 165MM SCH 80	Per Meter	3.00				
568	8.63	Main Engine cooling sea water pump discharge elbow to be renewed Dia 265mm SCH 40	Per Meter	1.00				
569	8.64	AUX. Cooling S.W Pump Discharge Elbow To Be Renewed Pipe out side dia = 185 mm, NO. of flanges = 02, Flange outer dia = 265mm, NO. of holes = 08, PCD = 210 mm, BEND = 90° SCH = 40	Job	1.00				
570	8.65	Generator Engine Cooling Sea water Pump Suction Pipe to be overhauled. Pipe Dia 165mm SCH 40	Per Meter	5.00				
571	8.66	Generator Engine cooling SW Pump strainer body & cover to be renewed. Dia 265mm	Job	1.00				
	8.67	Fire & GS Pump Running leakage from Mech.Seal when pressure increase more than 4 Kg Incident raised waiting for spares Need to be O/H.	Job	1.00				
572	8.68	Ballast Pump Discharge Pipe to be renewed Pipe Dia. 350mm Pipe Length: 1.5 Meters approx Material: M.S (Sch. 40)	Meter	1.50				
	8.69	Co2 Line Fabrication						

573		Co2 line at various places on deck need to be renewed Outer dia of pipe= 28 mm Length of pipe = 100 metre	Per M	100.00				
	8.70	A/C and Ref. Cooling S.W Pump Discharge Line To Be Renewed. A/C AND REF. Cooling S.W Pump Discharge Line To Be Renewed. PIPE OUTSIDE DIA = 120 mm, PIPE LENGTH = 6.5 METERS (APPROX.) NO. OF FLANGES = 02, FLANGE NO.1 OUTER DIA = 180mm, NO. OF HOLES = 04, PCD = 145 mm, FLANGE NO. 2 OUTER DIA = 195 mm, NO. OF HOLES = 03, PCD = 160 mm BEND = 90° NO. OF BENDS = 1 SCH = 40	Job	1.00				
	8.71	Ballast Pump Strainer Body						
575		Ballast Pump Strainer Body Leaky Bottom Plate to be renewed. Plate Dia: 630MM- Plate Thickness: 15MM Material: M.S Strainer body inside to be rubber coated after hot work	Job	1.00				
	8.72	Oil Water Separator: TAIKO KIKAI INDUSTRIES CO LTD MODEL: VUSC-20						
576		A) Both Chambers bottom plate is wasted. Same to be cropped and renewed. 1 mm dia and 10 mm thickness	Job	1.00				
577		B) Tar-epoxy coating (Y/S) to be applied to interior surface of newly welded plate.	Job	1.00				
578		C) Allow to disconnect and lift the shell to make access from bottom.	Job	1.00				
579		E) Oil water separator 15 PPM monitor calibration, and provide certificate. MODEL=FOCAS-1500C	Job	1.00				
		MAKER=FELLOW KOGYO CO. LTD. JAPAN						
580		F) Oil Water Separator Coalescer Filter To Be Renewed (Y/S)	Job	1.00				
581		G) Ows First Stage Cleaning To Be Carried Out	Job	1.00				
	8.73	M/E Pneumatic Control System						
582		M/E Pneumatic Control System To Be Serviced By Service Engineer.	Job	1.00				
		KAWASAKI MAN, B & W 6550MC-C						
	8.74	M/E F.O Heater To Be Cleaned Type:SUNROD OIL HEATER (B150/100 X 15-20) ALBORG INDUSTRIES K.K						
583		HEATING SURFACE = 5.68 M2 WEIGHT =203KG QUANTITY =5.6 M3/H	Job	1.00				
	8.75	Purifier F.O Heater SUNROD OIL HEATER(B100/60 X 20-9) ALBORG INDUSTRIES K.K						
584		Purifier F.O Heater To Be Cleaned HEATING SURFACE = 2.06 M2 WEIGHT =84KG QUANTITY =2.25 M3/H	Job	1.00				
	8.76	Purifier L.O Heater SUNROD OIL HEATER(B100/40 X 15-9) ALBORG INDUSTRIES K.K						
585		Purifier L.O Heater To Be Cleaned HEATING SURFACE = 1.02 M2 WEIGHT =69KG QUANTITY =1.3 M3/H	Job	1.00				
	8.77	E/Room blowers suction grids and mesh wasted to be renewed.(Y/S)						
586		Size: Normal, 2 m2. Please quote per m2.	Per M2	2.00				
	8.78	Main Engine Exhaust Gas Manifold						
587		Lagging of the bellow to be removed	Per Pc	10.00				
588		Joining of the bellow to be renewed (Y/S)	Per Pc	10.00				
589		Bellow to be re-fitted again	Per Pc	10.00				
	8.79	Aux. Engine YANMAR DIESEL CO. LTD. JAPAN. TYPE: 6N18L-EV Turbocharger for three Aux. Engines, Total 3 pcs. ISHIKAWAJIMA-HARIMA HEAVY INDUSTRIES CO LTD TOKYO JAPAN TYPE: RH 133 (VERSION Y)						
590		Turbocharger to be overhauled through maker's service engineer. All part as required during normal overhauling to be replaced by maker's new/reconditioned parts. Wasted studs and bolts in body to be renewed (Y/S). Aux. Engine no. 1,2&3 Turbocharger and exhaust outlet line lagging to be renewed (Y/S). Quote lumpsum per Turbo charger	PER UNIT	3.00				
	8.80	Aux. Engine YANMAR DIESEL CO. LTD. JAPAN. TYPE: 6N18L-EV YANMAR / TYPE NZ-61 BASE ASSY CODE 750510-61431 GOVERNOR CONTROLLING FORCE 3.9 (0.6) N.m(kgf-m) OUTPUT SHAFT TORQUE 11.8 (1.2) N.m(kgf-m) POWER PISTON DIAMETER(minor/major) 17.8/25 mm SETTING SPEED DROOP ADJUSTMENT RANGE 0-10%						
591		AUXILIARY ENGINE No1, 2, & 3 GOVERNORS TO BE OVERHAULED.	PER UNIT	3.00				
592	8.81	A/E NO. 2 Exhaust Bellow to be renewed (O/S)	Job	1.00				
593	8.82	A/E Spare Cylinder Head To Be Reconditioned MAKER: YANMAR, DIESEL CO. LTD. JAPAN MODEL: 6N18L-EV MFG NO.: 3735FSF - 3736FSF - 3737FSF	Job	1.00				
	8.83	Temperature controllers overhauling. Auto temp. controller for Oil and Water. Following Temperature Controllers to be serviced. 1. Main Lube Oil Cooler. 2. Main sea water cooler. 3. Main Jacket water cooler. 4. A/E low temp. cooler 5. A/E high temp. cooler						
594	8.84	Quote Lumpsum for overhauling of each unit	Unit	5.00				
		Over Motor Generator.						
		1. Motor Generator set to be disconnected and transported to workshop. Dis-assembled, cleaned, coated with varnish and bake dry. 2. Prior removal and on installation megger reading to be recorded. 3. To be re-installed after assembling and tested.						
595		Quote, Lumpsum for the above including all associated charges e.g. transportation etc.	Job	1.00				
596	8.85	ACCOMMODATION OVERBOARD SCUPPER LINE STBD SIDE TO BE FABRICATED NEW. TOTAL LENGTH OF PIPE= 12 m PIPE OUTER DIA = 115mm PCD OF FLANGE= 145 mm No OF FLANGES= 02 No OF HOLES IN EACH FLANGE = 04 No OF SLEEVES = 02	Job	1.00				



597	8.85	FRESH WATER GENERATOR EVAPORATOR TO BE CHEMICALLY CLEANED AND PRESSURE TESTED. SASAKURA FRESH WATER GENERATOR TYPE: KM 20 CAPACITY: 20 TONS/DAY MANUFACTURED NO. 914-0388 WEIGHT (EMPTY) : 850 KG DATE MANUFACTURED: OCTOBER 2002 SASAKURA ENGINEERING CO. LTD OSAKA, JAPAN.	Job	1.00				
	8.87	Atmos. Condenser to be chemically cleaned and pressure tested. Atmospheric condenser to be chemically cleaned and pressure tested.						
598		Horizontal surface type Manufacturer: yamashina jpn	Job	1.00				
599	8.88	EMERGENCY FIRE P.P. PRIMING UNIT NEED TO BE REPLACED/OH.	Job	1.00				
600	8.89	AFT PEAK TANK NEED TO BE CHECKED FOR ANY CRACK OR ANY ABNORMALITY IN WELDING/ PRESSURE TEST TO BE CARRIED OUT.	Job	1.00				
601	8.90	M/E UNIT. NO: 2 OH AND SURVEY: CYD COVER (JAN-27), CYD LINER (JAN 27), PISTON (JAN-27), CROSSHEAD PIN AND BEARINGS (APR 28), CRANKPIN BEARINGS (JULY 28), CRANK JOURNAL BEARINGS (APR 28)	Job	1.00				
602	8.91	M/E UNIT. NO: 3 OH AND SURVEY: CYD COVER (JUL-28) CYD LINER (JULY-28), PISTON (JULY-28), CROSSHEAD PIN AND BEARINGS (JULY-29), CRANKPIN BEARINGS (JULY-29), CRANK JOURNAL BEARINGS (JULY-29)	Job	1.00				
603	8.92	M/E UNIT. NO: 4 OH AND SURVEY: CYD COVER (JAN-27), CYD LINER (JAN-27), PISTON (11-JAN-27), CROSSHEAD BEARING (APR-28), CRANKPIN BEARINGS (JUL-28), CRANK JOURNAL BEARINGS (APR-28)	Per valve	2.00				
604	8.93	M/E UNIT. NO 5, OH AND SURVEY: CYD COVER (JUNE-28), CYD LINER (JUNE 28), PISTON (JUNE 28), CROSSHEADPIN BEARINGS (AUG-28), CRANKPIN BEARINGS (JULY-29), CRANK JOURNAL BEARINGS (JULY-29)	Job	1.00				
605	8.94	M/E UNIT. NO 6, OH AND SURVEY: CYD COVER (JUNE-27), CYD LINER (JUNE 27), PISTON (JAN 27), CROSSHEADPIN BEARINGS (APR-28), CRANKPIN BEARINGS (JULY-28), CRANK JOURNAL BEARINGS (JULY-28)	Job	1.00				
				SUB TOTAL				
	9.00	ELECTRICAL REPAIR						
	9.01	Electric Motors to be overhauled Following motors to be overhauled. Normal routine overhauling.						
606		1. Ballast pumps motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 50)	Per unit	1.00				
607		2. Fire & GS Pumps motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 30)	Per unit	1.00				
608		3. Main engine L.O Pump motors. (TYPE: NIK, Volts: 440, Hz: 60, Kw 65)	Per unit	1.00				
609		4. Main engine x-head pumps motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 30)	Per unit	1.00				
610		5. Main engine Aux. Blowers motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 30)	Per unit	2.00				
611		6. Main S.W.pumps motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 15)	Per unit	1.00				
612		7. Main J.C.W. pumps motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 15)	Per unit	1.00				
613		8. A/E. S.W.service pumps motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 15)	Per unit	1.00				
614		9. Main Air compressors motors (TYPE: NTKK, Volts: 440, Hz: 60, Kw 30)	Per unit	2.00				
615		10. A.C Compressor motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 7.5)	Per unit	1.00				
616		11. Windlass Pumps motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 15)	Per unit	1.00				
617		12. Windlass Pumps motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 15)	Per unit	1.00				
618		14. Moorings pumps motors. (TYPE: NTKK, Volts: 440, Hz: 60, Kw 45)	Per unit	1.00				
		16. Purifier speco exh. Fan motor to be oh.(axial flow fan)						
619		Type: 3am4-Q75-500 a Serial no. 85990 Out put: 0.75kw, 1.7 amperes. 440V/50Hz, 4-pole, 3-phase.Rpm: 1728. Maker: onishi electric industry co., ltd	Per unit	1.00				
620		16. A/C CENTRAL UNIT FAN MOTOR TO BE OVERHAULED & BEARINGS (Y/S) TO BE CHANGED AC 440 VOLTS, 60HZ, 3-PHASE, 11KW, 16.5 AMPERES MAKER: NISHISHIBA ELECTRIC CO. LTD JAPAN	Per unit	1.00				
621		17. Galley Exhaust Fan Motor To Be Overhauled	Per unit	1.00				
622		PILOT LADDER RIGGING DAVIT PNEUMATIC MOTOR OUT OF ORDER NEED SERVICE/OVERHAULING Quote: Separately for each motor normal overhauling charges.	Per unit	1.00				
	9.02	Main Switch Board & Distribution 1. Main switch board bus bar and cable to be cleaned. 2. Insulation resistance to be measured AND NEED TO CHECK MG OHM IN DISTRIBUTION BOARD EARTH FAULT FOUND FROM HOT PLATE 3. Loose nuts and bolts to be tightened Quote: Lump sum for the above work.	Per unit	3.00				
623	9.03	Emergency Transformer 30KVA, 60 Hz.Prm.Volt.R450, F 4454,F440 Sec. Volt./230 Volt. 1. Transformer to be disconnected and transported to workshop. 2. To be cleaned with solvent, coated with varnish and bake dry. 3. Prior removal and on installation megger reading to be recorded. 4. Transformer to be re-installed and tested. Quote: Lump sum for the above	Job	1.00				
624	9.04	Marine Transformer 90 KVA, 80 Hz.Prm.Volt.R450,F445,F440. Sec. Volt/230 Volt, 220 Amps. 1. Transformer to be disconnected and transported to workshop. 2. To be cleaned with solvent, coated with varnish and bake dry. 3. Prior removal and on installation megger reading to be recorded. 4. Transformer to be re-installed after completion and tested. Quote: Lumpsum for the above.	Per Unit	2.00				
625	9.05	Generators Air Circuit Breakers Servicing. Generators Circuit breakers to be serviced during drydocking period. Quote: Lumpsum for servicing each.	PER UNIT	3.00				
626		MAIN GENERATOR (Total 3 in No.) AIR CIRCUIT BREAKER FOLLOWING PARAMETERS TO BE CALIBRATED AND TESTED. 1. OVER CURRENT 2. UNDER VOLTAGE TRIP 3. REVERSE POWER TRIP	Generator	3.00				
627	9.06	TERASAKI AIR CIRCUIT BREAKER (ACB) ACB FOR MAIN GENERATOR AC 450, 3 PHASE, 60 HZ (625 KVA) OVER CURRENT RELEASE TYPE-AG R-215-PRU						
	9.07	EMERGENCY Generators Air Circuit Breakers Servicing. Emergency Generator Circuit breaker to be serviced. Quote: Lumpsum for servicing each.	Job	1.00				
628	9.08	Deck Crane No.2 Motor Deck Crane no.1 motor to be overhauled. AC440 volts, 60 Hz, 3-Phase, 125Kw, 210 Amperes, 4-poles	Per Unit	4.00				
629	9.09	Steering Gear Motor Steering Gear Motor no. 01 to be overhauled AC440 Volts, 60 Hz, 3-Phase, 18.5Kw, 37 Amperes	Per unit	2.00				
630	9.10	Electric cable duct on port side main deck wasted, holed, to be renewed. Dia: 270mm Pipes: Schedule 40 Pipe cable duct to be renewed 25m. Preferably cut pipe in two pieces and weld on the present pipe. Quote: Lumpsum for above job per meter including access and materials	Per M	25.00				
631	9.11	Engine room vent fan no. 1 & 2 motor Engine room vent fan no. 1 & 2 motor to be overhauled. AC 440 volts, 60 Hz, 3-Phase, 15 Kw, 28 Amperes, 3-Poles Maker: NISHISHIBA ELECTRIC CO.LTD, JAPAN	PER UNIT	2.00				
632								

633	9.12	A/E ALTERNATOR NO.1,2&3 TO BE OVERHAULED. AC 440 VOLTS, 60HZ, 3-PHASE, 625KVA -500KW-602AMPS TYPE: NITAKU MAKER: NISHISHIBA ELECTRIC CO. LTD JAPAN.	Per Unit	3.00				
634	9.13	Deck Crane No.3 & 4 Motor Deck Crane no.3&4 motor to be overhauled. AC440 volts, 60 Hz, 3-Phase, 1125Kw 210 Amperes, 4-poles	PER PIECE	2.00				
635	9.14	DECK CRANE NO.1&2 COOLER FAN MOTOR	PER PIECE	2.00				
636	9.15	FO PURIFIER NO 2 AUTOMATION NOT WORKING ALREADY CHANGE CARD AND CONTACTOR NEED TO CHECK AND REPAIR						
636	9.16	DECK CRANE NO.1 &2 COOLER FAN MOTOR TO BE OVERHAULED & BEARINGS (Y/S) TO BE CHANGED AC 440VOLT, 60HZ, 3-PHASE, 5.5KW, 8.8 AMPERES, 1740 rpm. MAKER: NISHISHIBA ELECTRIC CO. LTD JAPAN	Per Unit	4.00				
637	9.17	E/R STBD, PORT, AND AFT SIDE BILGE WELL HIGH LEVEL ALARM FLOATS NEED TO BE REPLACED.	Job	1.00				
638	9.18	DECK CRANE NO 1 PROJECT LIGHTS NEED TO BE CHANGE/REPAIR	Job	1.00				
639	9.19	AIR COMPRESSOR FOR BREATHING APPARATUS MALFUNCTIONING TO BE RECTIFIED	Job	1.00				
640	9.20	AUX BOILER DIFF PRESSURE TRANSMITTER NEED TO BE CHECK SOME TIME MALFUNCTION	Job	1.00				
641	9.21	M/E Electrical Governor Abnormal Alarm	Job	1.00				
642	9.22	DECK AIR COMPRESSOR AT PWD STORE OUT OF ORDER NEW TO BE FIXED (OWNER SUPPLY)	Job	1.00				
643	9.23	P/B Pneumatic Motors Of Provision Lifting Davits Need To Be Overhauled	Job	1.00				
644	9.24	Both life boats P/B davit breaks to be freed and lowering of life boats to be made smooth. Presently stbd side davit brake is very hard	Job	2.00				
645	9.25	Both life boats to be painted and stanchioning to be carried out	Per unit	2.00				
646	9.26	Both life boat front glasses to be renewed. FRONT 46X41CM, SIDE 58 DIAGONALLY, TOP BREADTH 44 BOTTOM 55CM HEIGHT 34CM	Per Job	2.00				
647	9.27	All ballast water tanks valve s to be operated by naumatic system which is unoperation presently, to be made operational.	Job	1.00				
648	9.28	Solnoid valve of DB NO 3P is free now to be attended to renew. All DB valves to be opened and overhauled for smooth operation.	per unit	12.00				
649	9.29	fwd mast stays in very bad condition, one stay already parted in heavy weather to be renewed.	Job	1.00				
650	9.30	fwd mast navigational light plate form wasted to be renewed with vertical allder.	Job	1.00				
651	9.31	main mast vertical ladder steps wasted to be renewed	Job	1.00				
652	9.32	two name board on monkey island to be made 2mm plate 2x0.5 m	Job	1.00				
653	9.33	emergency and illumination lights around accommodation base condute badly wasted to be renewed 2 inch pile 10m	No	10.00				
				SUB TOTAL				
		GRAND TOTAL US\$						