



**KOLKATA PORT TRUST  
KOLKATA DOCK SYSTEM  
DIRECTOR, MARINE DEPARTMENT  
15, Strand Road, Kolkata – 700 001  
Telephone no. 033-2230 3214, Extn- 375(033-22303451),  
FAX No. 033-22303214, Email: dmd@kopt.in  
Website : kolkataporttrust.gov.in**

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**TENDER DOCUMENT  
For  
Special Survey Repair of “Tug Kalikata”**

**Notice Inviting Tender No.:- MRN/ES/872/548 dt. 19.04.2016**

**e-Tender No.:- KoPT/Kolkata Dock System/DMD/3/16-17/ET/25**

**Estimated Value of Tender : Rs.100 Lac**

**Last date for submission of offer – on 08.06.2016 at 1400 hrs.**

**Director, Marine Department**

**Cost of Tender Document: ₹ 2000/-**

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## TENDER DOCUMENT

### KOLKATA PORT TRUST KOLKATA DOCK SYSTEM

#### e-TENDER for Special Survey Repair of “Tug Kalikata”

NOTICE INVITING TENDER No. MRN/ES/872/548 dt. 19.04.16

#### **TENDER NOTICE:**

The Director, Marine Department, Kolkata Dock System (KDS), Kolkata Port Trust (KoPT) invites E-Tender under single stage two part system (Part I: Techno-Commercial Bid and Part II: Price Bid) from the Ship Builders/Ship Repairers for Special survey repair work of Tug Kalikata.

Bid Document may be downloaded from MSTC website [www.mstcecommerce.com/](http://www.mstcecommerce.com/) eprochome/kopt and KOPT website [www.kolkataporttrust.gov.in](http://www.kolkataporttrust.gov.in) Corrigenda or clarifications, if any, shall be hoisted on the above mentioned websites only.

#### **SCHEDULE OF TENDER (SOT)**

<b>Tender No.</b>	MRN/ES/872/548 dt. 19.04.2016
<b>Tender Authority</b>	Director, Marine Department Representative-(Engineer Superintendent)
<b>Mode Of Tender</b>	e-Procurement System (Online Part I - Techno-Commercial Bid and Part II - Price Bid ) through <a href="http://www.mstcecommerce.com/eprochome/kopt">www.mstcecommerce.com/eprochome/kopt</a> of MSTC Ltd. The intending bidders are required to submit their offer electronically through e-tendering portal. No physical tender is acceptable by Kolkata Dock System
<b>E-Tender No.</b>	<b>KoPT/Kolkata Dock System/DMD/3/16-17/ET/25</b>
<b>Estimated value of Tender</b>	<b>Rs. 100 Lac.</b> Rs.67 Lac. for Section A Rs.33 Lac. for Section B
<b>Date of NIT available to parties to download</b>	<b>25.04.2016. at 1500 hrs.</b>
<b>Date and time of <u>Pre-Bid Meeting</u> and site inspection</b>	<b>12.05.2016 at 1100 hrs.</b> <b>At Engineer Superintendent Office,4 Garden Reach road,Kolkata-700023</b>
<b>i) Earnest Money Deposit &amp;  ii)Tender Cost</b>	The intending bidders should submit Earnest Money of <b>Rs.2 Lac- (Rupees Two Lac only)</b> to KoPT .  “ <b>Tender Cost</b> ” containing Banker’s cheque or Pay Order or Demand Draft from any of the Nationalized/Scheduled Banks in India having branch in Kolkata drawn in favour of “ <b>Kolkata Port Trust</b> ” of <b>Rs. 2000/-</b> (Rupees Two Thousand only) as the cost towards purchase of tender document (applicable for downloaded NIT only) or Treasury Receipt of the deposit issued by the Treasurer, Kolkata Port Trust, as the case may be. <b>All Banker’s cheques/Pay Orders/Demand Drafts should be drawn in favour of “Kolkata Port Trust” on any nationalized/Scheduled bank having branch in Kolkata.</b>
<b>iii) Transaction Fee</b>	<b>Rs. 5730/-</b> (Including Service Tax & other charges

	@14.5% on Service Charge) Payment of Transaction fee by NEFT/RTGS in favour of MSTC LIMITED (refer clause. No. 4 of Page No 6)
<b>Last date of submission of Tender Document Fee and Earnest Money.</b>	<b>08.06.2016.up to 1400 hrs.</b>
<b>Last date of submission of Transaction fee through RTGS/NEFT in favour of MSTC Limited, Kolkata.</b>	<u><i>Three working days before the last date of closing of online bidding for the e-tender.</i></u>
<b>Date of Starting of e-Tender for submission of on line (Techno-Commercial Bid and price Bid) at <a href="http://www.mstcecommerce.com/eprochome/kopt">www.mstcecommerce.com/eprochome/kopt</a></b>	<b>18.05.2016 at 1100 hrs.</b>
<b>Date of closing of online e-tender for submission of Techno-Commercial Bid &amp; Price Bid.</b>	<b>08.06.2016 at 1400 hrs.</b>
<b>Date and time of opening of Part-I (i.e. Techno-commercial Bid after confirmation of submission of Tender Document Fee and Earnest Money Deposit).</b>	<b>08.06.2016 at 1500 hrs.</b>
<b>Date and time of opening of Price Bid (Part-II). Bidders hall be informed separately.</b>	<b>To be informed separately.</b>

#### **INSTRUCTIONS TO TENDERERS**

**e -Tender No.- KoPT/Kolkata Dock System/DMD/3/16-17/ET/25**

**This is an e-procurement event of Kolkata Port Trust. The e-procurement service provider is MSTC Ltd., 225C, A.J.C. Bose Road, Kolkata-700 020.**

You are requested to read the terms & conditions of this tender before submitting your online tender. Tenderers who do not comply with the conditions with documentary proof (wherever required) will not qualify in the Tender for opening of price bid.

1.	<p>Process of E-tender :</p> <p><b>A) Registration:</b> The process involves vendor's registration with MSTC e-procurement portal which is free of cost. Only after registration, the vendor(s) can submit his/their bids electronically. Electronic Bidding for submission of Techno-Commercial Bid as well as Price Bid over the internet will be done. The Vendor should possess Class III signing type digital certificate. Vendors are to make their own arrangement for bidding from a P.C. connected with Internet. MSTC is not responsible for making such arrangement. (Bids will not be recorded without Digital Signature).</p> <p><b>SPECIAL NOTE:</b> THE PRICE BID AND THE COMMERCIAL BID HAS TO BE SUBMITTED ON-LINE AT <a href="http://www.mstcecommerce.com/eprochome/kopt">www.mstcecommerce.com/eprochome/kopt</a></p> <p>1). Vendors are required to register themselves online with <a href="http://www.mstcecommerce.com">www.mstcecommerce.com</a>→ e-Procurement →Psu/Govt depts→Register as Vendor under KOPT-- Filling up details and creating own user id and password→ Submit.</p> <p>2). Vendors will receive a system generated mail confirming their registration in their email which has been provided during filling the registration form.</p> <p><b>In case of any clarification, please contact KOPT/MSTC, (before the scheduled time of the e-tender).</b></p> <p><b>Contact person (KOPT):</b></p> <table border="0"> <tr> <td><b>1. Joy Biswas</b> Asstt. Engineer Superintendent Mobile No-9051604646 Email:biswas.j@Kopt.in.</td> <td><b>2. Ashis kumar Nath</b> Dy. Engineer Superintendent. Email:ak.nath@Kopt.in.</td> </tr> </table> <p><b>Contact person (MSTC Ltd):</b></p> <table border="0"> <tr> <td><b>1. Mr. Arindam Bhattacharjee</b> Deputy. Manager (E-commerce) MobileNo:09330102643 Email-arindam@mstcindia.co.in.</td> <td><b>2) Mr. Sabyasachi Mukherjee</b> Junior Manager (E-commerce) Mobile- 07278030407 Email: smukherjee@mstcindia.co.in. Landline:03322901004</td> </tr> </table> <p><b>3. Ms Sumona Maity</b> Management Trainee(E-Commerce) Mobile-09831155225 <a href="mailto:smaity@mstcindia.co.in">Email-smaity@mstcindia.co.in</a>.</p> <p><b>B) System Requirement:</b></p> <p>i) Windows 98 /XP-SP3 &amp; above/Windows 7 Operating System</p> <p>ii) IE-7 and above Internet browser.</p> <p>iii) Signing type digital signature</p> <p>iv) JRE 7 update 79 software to be downloaded and installed in the system. Security level should be medium</p> <p>To enable ALL active X controls and disable 'use pop up blocker' under Tools→Internet Options→ custom level (Please run IE settings from the page <a href="http://www.mstcecommerce.com">www.mstcecommerce.com</a> once)</p>	<b>1. Joy Biswas</b> Asstt. Engineer Superintendent Mobile No-9051604646 Email:biswas.j@Kopt.in.	<b>2. Ashis kumar Nath</b> Dy. Engineer Superintendent. Email:ak.nath@Kopt.in.	<b>1. Mr. Arindam Bhattacharjee</b> Deputy. Manager (E-commerce) MobileNo:09330102643 Email-arindam@mstcindia.co.in.	<b>2) Mr. Sabyasachi Mukherjee</b> Junior Manager (E-commerce) Mobile- 07278030407 Email: smukherjee@mstcindia.co.in. Landline:03322901004
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2.	The Techno-commercial Bid and the Price Bid shall have to be submitted online at				

	<p><a href="http://www.mstcecommerce.com/eprochome/kopt">www.mstcecommerce.com/eprochome/kopt</a></p> <p>(A). Part – I (Techno-Commercial bid) : Would be opened electronically on specified date and time as given in the NIT. Bidder(s) can witness the opening of Techno-commercial Bid electronically.</p> <p>(B) Part – II (Price bid) : Would be opened electronically of only those bidder(s) whose Part – I Techno-Commercial bid are acceptable by KoPT. Such bidder(s) will be intimated the date of opening of Part II (Price bid) through valid e-mail confirmed by them.</p> <p>The tenderers are advised to offer their best possible rates. There would generally be no negotiations. Bidders are requested to submit their most competitive prices while submitting the price bid.</p>
3.	All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.
4.	<p><b>Special Note towards Transaction fee:</b></p> <p>PAYMENT OF Transaction fee BY NEFT in favour of MSTC Limited .The Bank details, format etc for sending Transaction fee by NEFT to MSTC is detailed below</p> <p>Bank Details : Axis Bank, Shakespeare Sarani Branch</p> <p>AC Details : Axis Bank A/c.No.005010200057840</p> <p>IFSC Code No. : UTIB0000005.</p> <p>“The vendors shall enter the transaction fee details by using the “Transaction Fee Entry” Link under “My Menu” in the vendor login. The vendors have to select the particular tender in which they want to participate against the transaction fee by clicking on the tick box at the right and then Clicking on the “Submit” Button at the bottom of the page. Then the page appears where the vendors are required to fill up the transaction details, namely the UTR No, Date Of Transaction, and the Remitting Bank in the given fields and then click on the “Confirm” Button“.</p> <p>NOTE :- The bidders should submit the transaction fee well in advance before the last date of submission of tender as they will be activated for bid submission only after receipt of transaction fee by MSTC.</p> <p>Contact Details :</p> <p>Fax No. : 033- 22831002.</p> <p>Email ids: sanjibpoddar@mstcindia.co.in, arindam@mstcindia.co.in, rpradhan@mstcindia.co.in, smukherjee@mstcindia.co.in.</p> <p>Bidders may please note that the transaction fee should be deposited by debiting the A/C of the bidder only; transaction fee deposited from or by debiting any other party's a/c will not be accepted. Transaction fee is nonrefundable.</p> <p>In case of failure to submit the payment towards Transaction fee for any reason, the vendor, in term, will not have the access to online e-tender.</p>
5.	In case of failure to submit the payment towards cost of Tender Document and Earnest Money Deposit (EMD), the vender will not have the access to on line e-tender and no correspondence in this respect will be entertained and KoPT will not be responsible for any such lapses on this account. Bidder(s) are advised to make remittance of Tender Fee and EMD through separate Banker's Cheque or Pay Order or Demand Draft, well in advance and verify completion of transaction in respect of Tender Fee and EMD. Vendors are instructed to use <i>Upload Documents</i> link in “My menu” to upload documents in document library. Multiple documents can be uploaded. Maximum size of single document for upload is 5 MB. Once the documents are uploaded in the library, vendors can attach documents through “Attach Document” link against the particular tender. For further assistance please follow instructions of vendor guide.
6.	All notices. /corrigendum and correspondence to the bidder(s) shall be sent by email only during the process till finalization of tender by KOPT. Hence the bidders are required to ensure that their corporate email I.D. provided is valid and updated at the stage of registration of vendor with MSTC (i.e. Service Provider). Bidders are also requested to ensure validity of their DSC (Digital Signature Certificate).
7	E-tender cannot be accessed after the due date and time mentioned in NIT.

8.	<p>Bidding in e-tender:</p> <p>(a). Bidder(s) need to submit necessary Tender Document Fee, EMD and Transaction Fee for their eligibility to bid online in the e-tender. Tender Document Fee and Transaction fees are non refundable. No interest will be paid on EMD. EMD of the unsuccessful bidder(s) will be refunded by KOPT. In case of the successful tenderer, this amount may be adjusted against the Security Deposit.</p> <p>(b). An amount of Rs.2 Lac. (Rupees Two Lac. only) has to be deposited by Demand Draft/Pay Order/ Banker's Cheque from any Scheduled/Nationalized Bank in favour of "Kolkata Port Trust" payable at Kolkata, to be enclosed with the Techno-commercial part of the tender.</p> <p>(c). If any tenderer withdraws his tender before 180 days from the date of opening of the Techno-commercial Bid of the tender, the Earnest Money Deposit will be forfeited by the Trustees.</p> <p>(d). Tender without the Earnest Money or depositing the Earnest Money in a manner other than what has been stipulated here-in-before or for an amount less than the specified amount would be considered as invalid tender and would be summarily rejected.</p> <p>(e). NSIC registered firms under Single Point Registration scheme are exempted from depositing Tender Fee and Earnest Money. But all the NSIC registered firms are not exempted from depositing Tender Fee and Earnest Money. Only those firms, having documents of such exemption for the entire tendered work (as per the Bill of Quantity) would be exempted. Documentary evidence must be submitted in Cover-I of Tender for claim of such exemption, failing which their tender would be summarily be rejected.</p> <p>(f). The process involves Electronic Bidding for submission of Tender Document Fee and EMD, Techno-Commercial Bid as well as Price Bid.</p> <p>(g). The bidder(s) who have submitted the above fees can only submit their Techno Commercial Bids and Price Bid through internet in MSTC website <a href="http://www.mstcecommerce.com">www.mstcecommerce.com</a> → e-procurement → Psu/Govt depts → Login under KOPT → My menu → Auction Floor Manager → live event → Selection of the live event.</p> <p>(h). The bidder should allow to run an application viz. enApple by accepting the risk and clicking on run. This exercise has to be done twice immediately after opening of Bid floor. Then they have to fill up Common terms/Commercial specification and save the same. After that clicking on the Techno-Commercial bid. If this application is not run then the bidder will not be able to save/submit his Techno-commercial bid.</p> <p>(i). After filling the Techno-Commercial Bid, bidder should click 'save' for recording their Techno-Commercial bid. Once the same is done, the Price Bid link becomes active and the same has to filled up and then bidder should click on "save" to record their price bid. Then once both the Techno-Commercial bid &amp; price bid has been saved, the bidder can click on the "Submit" button to register their bid.</p> <p>(j). In all cases, bidder should use their own ID and Password along with Digital Signature at the time of submission of their bid.</p> <p>(k). During the entire e-tender process, the bidders will remain completely anonymous to one another and also to everybody else.</p> <p>(l). The e-tender floor shall remain open from the pre-announced date &amp; time and for as much duration as mentioned above.</p> <p>(m). All electronic bids submitted during the e-tender process shall be legally binding on the bidder. Any bid will be considered as valid bid if it fulfills all the terms and conditions of the Tender Document.</p> <p>(n). It is mandatory that all the bids are submitted with digital signature certificate otherwise the same will not be accepted by the system.</p> <p>(o). KoPT reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part as the case may be without assigning any reason thereof.</p> <p>(p). No deviation of the terms and conditions of the tender document is acceptable. Submission of bid in the e-tender floor by any bidder confirms his acceptance of terms and conditions for the tender.</p> <p>(q). Unit of Measure (UOM) is indicated in the e-tender Floor. Rate to be quoted in Indian Rupee Currency as per UOM indicated in the e-tender floor/tender document.</p>
9.	The e-tender shall be governed by the terms and conditions mentioned therein.
10.	No deviation to the technical and commercial terms & conditions are allowed.
11.	KOPT has the right to cancel this e-tender or extend the due date of receipt of bid(s) without assigning

	any reason thereof.
12	The online tender should be submitted strictly as per the terms and conditions and procedures laid down in the website <a href="http://www.mstcecommerce.com/eprochome/KoPT">www.mstcecommerce.com/eprochome/KoPT</a> of MSTC Ltd.
13.	The bidders <u>must upload</u> all the documents required as per Pre-qualification criteria and the documents enlisted under techno-commercial bid and Price-bid, failing which the tender shall lead to disqualification. Any other document uploaded which is not required as per the terms of the NIT shall not be considered.
14	The bid will be evaluated based on the filled-in technical and commercial formats which have been uploaded.
15.	The documents uploaded by bidder(s) will be scrutinized. In case any of the information furnished by the bidder is found to be false during scrutiny, EMD of defaulting bidder(s) will be forfeited. Punitive action including suspension and banning of business can also be taken against defaulting bidders.
16	Bidders are requested to read the vendor guide and see the video in the page <a href="http://www.mstcecommerce.com/eprochome">www.mstcecommerce.com/eprochome</a> to familiarize them with the system before bidding.

#### **Terms and Conditions of Tender**



**e -Tender No. KoPT/Kolkata Dock System/DMD/3/16-17/ET/25**

**1. Pre-qualification Criteria of the Bidders**

1.1	Estimated Value	₹ 100 Lac.
1.2	PRE-QUALIFICATION CRITERIA : Firms must not be blacklisted by any PSU on date of application.	
1.3	Technical Criteria	A. Must have successfully carried out similar works viz ship repair/ship building works having proven record of hull, deck and structural works, engine and machinery repairs in course of last 7 years and must have own workshop facility for carrying out such repairs/Survey work.  B. Successfully completed at least 3 ship repair/ship building works having components under (A) each costing not less than 40% of the estimated value put to tender or 2 works each costing not less than 50% of the estimated value for the work or 1 work costing not less than 80% of the estimated value put to tender during last 7 years ending on 31.12.15.
1.4	Financial Criteria	Average annual turn over for the last 3 Yrs ending on 31.03.15 should be at least 30% of the estimated value put to tender.
1.5	Tender Fee	₹ 2000/- (non-refundable)
1.6	Downloading of Tender Document	Bid Document may be downloaded from MSTC website <a href="http://www.mstcecommerce.com/eprochome/kopt">www.mstcecommerce.com/eprochome/kopt</a> and KOPT website <a href="http://www.kolkataporttrust.gov.in">www.kolkataporttrust.gov.in</a> Corrigenda or clarifications, if any, shall be hoisted on the above mentioned websites only.
1.8	Date and venue of Inspection of the vessel followed by Pre-Bid meeting	Inspection of the vessel will be held at KIDDERPORE DOCK BASIN or NETAJI SUBHAS DOCK BASIN. Pre-bid meeting shall be held thereafter in the office of the Director, Marine Deptt., 15, Strand Road, Kolkata- 700 001. For the purpose of inspection, willing tenderers shall have to assemble at the office of the Engineer Superintendent Section. 4, Garden Reach Road, Kolkata-700 023 within 1100 hours on 09.05.2016 Addition / alteration / deletion of the content of this tender document, if any, arising out of the aforesaid meeting shall be uploaded for intimation of the tenderers. No separate communication to any tenderer shall be made.
1.9	Earnest Money Deposit (E M D)	<u>2% of the estimated value i.e. Rs. 2 Lac.</u> Earnest Money is required to be submitted to participate in the tender either by a Demand draft/Pay order/Banker's Cheque from a Nationalized Bank drawn in favour of "Kolkata Port Trust" payable at Kolkata to be deposited in original along with the techno-commercial part of the offer or of cash deposit directly at treasury section of FA & CAO of Kolkata Port Trust for which, photo-copy of cash receipt issued by him has to be submitted in the techno-commercial offer. Empanelled firms would not be required to deposit EM for participation for any KoPT limited tender & they will be required to submit balance amount of EM for participation in open tender of KoPT. However, submission of empanelled letter issued by KoPT to them is mandatory.
1.10	Tender Validity	180 days (minimum) from the date of opening of Part I (Techno-Commercial aspects of bid ).

Work experience as a subcontractor or supply contractor shall not be considered as requisite qualification.

The Tenderer shall have to upload documents (certified copy), viz. order letter and proof of execution to establish his credentials.

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## **SCOPE OF WORK**

Entire work has been broadly divided in two Sections i.e. Section 'A' & Section 'B'.

### **Section 'A'.**

#### **Hull & Structure including Chipping & Painting.**

This comprises ultra sonic gauging renewal/repairs of underwater hull structure and plating, after thorough gauging, Kort nozzle, Anchor & Anchor Chains, Survey and pressure testing of water ballast tanks, Fresh water tanks, Fuel tanks, Chipping, Painting of vessel (excluding engine room) including blasting and painting of under water and ship side area. Sea chest Gratings, Renewal of Anodes repair of furniture and accommodation and water tight fitting, LSA & FFA, load line items etc, etc., chipping / cleaning of anchor, anchor cable, chain locker, superstructure, accommodation etc. etc.

### **Section 'B'.**

#### **Entire Machineries**

This comprises of dismantling of main engine, complete overhauling of generators, various accessories, electrical equipments, tail shafts, propellers, rudders, steering system (To the extent mentioned) sea suction and over board valves, various pumps, etc. pipelines, various electrical machineries and associated work, internal cleaning of engine room etc. etc. and various electrical/mechanical works to be presented for survey and assemble back after complying with the recommendation of surveyor and finally assembling and trial to be carried out to the satisfaction of Surveyor/ KoPT Representatives.

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**e -Tender No.:- KoPT/Kolkata Dock System/DMD/3/16-17/ET/25**

## **2. DETAILED INSTRUCTIONS TO TENDERER**

1.The Tenderer shall carefully examine all the terms & conditions of Tender and the Technical Specifications. All costs, charges and expenses that may be incurred by the Tenderer in connection with preparation for submission of the offer shall be borne by him and the Trustees accept no liability whatsoever thereof.

2.The Tenderers, before submitting their offers, must inspect the vessel thoroughly to assess the quantum of work in totality and should submit their offers in a comprehensive manner as per the vessel's condition. Should there be any doubt or ambiguity as to the meaning of any part of the Tender Document or if any part/specification is found to be inconsistent in its meaning for the purpose of bidding and for successful completion of work or if any further information/clarification is required, the Tenderer must address his inquiry in the pre bid techno commercial quarry.

3.The Indian Contract Act and all other relevant Acts for execution of the work shall govern the contract and all payments due to the Contractor under the Contract, shall be made in Indian Rupee Currency.

4.In the event of any dislocation on any of the scheduled dates or such date declared as Holiday or Bandh, the scheduled event will be held on the next working day at the same time . No separate intimation for such change will be issued.

5.Tender will not be extended under any situation,once the due date is over. Any change in the tender document or minutes of pre-bid meeting or rescheduling of dates other than the provision at 4 above, at any stage before the date of submission,would be uploaded to the KoPT website and all Tenderers should refer the same prior to submission of offer to make their offers complete in all respect. KoPT will not be bound to intimate any bidder individually.

6.It is to be noted that the Priced Bill of Quantities, shall not contain any condition whatsoever. Any condition imposed shall make the Tender liable for out-right rejection.

7.The Tenderer shall quote the offered price appropriately only in the "PRICE BID". Quoting the price anywhere else, in any other form or manner will make the offer liable for outright rejection.

8.The Tenderer shall submit complete tender and the same shall be without alterations, interlineations or erasure effect except those to accord that instructions issued by KoPT or as may be necessary to correct errors made by the Tenderers. Person or persons signing the tender shall put their initial against all such cancellations, alterations or amendments. If any discrepancies found in figures and words while reading the price in the Bill of Quantities, the price quoted in words shall supersede the figures. In the event of any difference between the unit price and the total price stated therein, the unit price should be reckoned as the correct one. If any bidder fails to quote against any item, the value of the same would be assumed to be zero, deemed to have been included and no additional payment for the same would be considered by KoPT.

9.All the tenderers must submit a covering letter conspicuously mentioning on their techno-commercial cover for which they are submitting their offer. Also NIT to be duly signed and sealed in each page along with declarations with a letter-stating acceptance of all terms and conditions without any deviation and declaration that the firm is not blacklisted/debarred/delisted by any Govt or Quasi Govt agencies or PSU on date of application.

10. Check list duly filled in.

#### 11. **MODE OF SUBMISSION OF BID**

11.1 The tenders are to be submitted in two parts i.e. part-I & Part-II. Part-I should constitute the Technical Bid with terms and conditions of offer and Part-II should constitute only the Price Bid without any condition and deviation.

##### **11.1.1 Part-I ( Techno Commercial) will contain the following documents-**

- a) Brief particulars of the firm.
- b) Current Trade License, PAN, sales tax/Vat Clearance Certificate/Vat Regn. Number, if applicable.
- c) Audited balance Sheet and Profit & Loss A/C for last 3 years (i.e. 2012-13 , 2013-14 & 2014-15)

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- d) Details of similar works previously carried out by the firm with value of the work.

- e) Authentic performance certificate of similar completed works carried out mentioning total value of work and period of completed works.
- f) Bid document and General Conditions of contract duly signed and stamped on each page.
- g) Photocopy of the Treasury Receipt or original Bank Draft/Pay Order/Banker's cheque of the Tender fee and EMD from a Nationalized Bank drawn in favour of "Kolkata Port Trust".
- h) Managerial & Supervising set up which will be used for carrying out the scheduled works and acting liaison with KoPT representatives.
- i) Certificate/declaration of complying with the Workmen Compensation Act.
- j) Copy of ESI Registration certificate. In case the firm is not covered under ESI Act or exempted, they should furnish necessary documents along with an Affidavit (as per **Annexure III**) in original affirmed before a 1<sup>st</sup> Class Judicial Magistrate in a Non Judicial Stamp Paper worth Rs 10/- to that effect as per enclosed KoPT approved format. In addition to that the tenderer must indemnify KoPT against all damages and accidents occurring to their staff in a Non Judicial Stamp paper worth Rs 50/- as per enclosed format (**Annexure IV**).
- k) Certificate/declaration of compliance with Minimum Wages Act.
- l) Copy of Provident Fund Registration Certificate and latest EPF challan.
- m) Authentic document related to registration under Service Tax Authority.
- n) The Tenderer shall give a declaration that they have not been debarred or de-listed by any govt. or Quasi-Govt. agencies or PSUs in India (**Annexure-V**).
- o) Overwriting and use of whit ink are not allowed.

**11.1.2 Part-II (Price Bid)** shall be submitted strictly as per the enclosed KoPT format ( i.e. BOQ) without any condition and deviation. Any change in price offer after the submission of tender will not be considered and deviation if any, the bids may be summarily rejected.

11.1.3 While evaluating tender, regard would be paid to National Defence and Security considerations.

CONDITIONS OF TENDER

**1. General information of the vessel:**

Year of built	-	1992
Length Overall	-	27.50 mtr
Breadth moulded	-	8.6 mtr
Draft	-	F- 2.56 Mtr A-3.10 Mtr
Depth-	-	3.85 mtr

Main Engine (2 Nos) -Make-Cummins India Ltd.,Type-KTA-1150M, Stroke-6.25 inch, Bore-6.25 inch, BHP-470x2, R.P.M-1800, Engine No.25180291, Engine No.-25180292

Running hours PME-9222, as on 27.01.16

Alternator Engine (2 Nos) – Make- Ruston Hornsby. Type- 6 YDKZ-87,Engine No.-31220611292, Engine No.-31220611291 ,BHP-77.2 at 1500 RPM,

Running Hrs- AE 1(Fwd.)-.6716, AE 2(Aft)-5310

2.The repairer will have to work on all days, including Sundays / Holidays round the clock to ensure completion of work within the stipulated repair time given hereinafter.

3.The rates quoted in the tender shall hold good and be binding on the tenderer for a period of 180 days (minimum) from the date of opening of Techno-Commercial Part of the Tender.

4.No price escalation is applicable for the work.

5.Evaluation will be made on the basis of summation of costs of all items under BOQ by adding lump sum costs as well as item wise unit rate multiplied by quantity specified for evaluation and will be awarded to the lowest bidder having techno commercially qualified. The quantity above may increase or decrease as per requirement, for which payment will be made as per actual. All taxes levied should be indicated in price bid. However, evaluation will be done after inclusion of all taxes and duties except Service Tax and Cess, which shall be paid extra as per prevailing rate from time to time.As KoPT is not a Registered body corporate, it is not liable to pay Service Tax under 'Reverse charge Mechanism' as per Service Tax Law.The service provider is liable to recover Service Tax as applicable.

**6. EARNEST MONEY DEPOSIT (EMD) :**

6.1 **Refund of EMD :** Earnest Money Deposit of all bidders will be kept in safe custody. Only earnest money of L1 bidder will be encashed and earnest money instruments of other bidders will be returned after opening of price bid.

6.2. **Exemption:** NSIC registered firms (under single point registration scheme) are exempted from depositing cost of Tender Document and depositing Earnest Money. Documentary evidence must be submitted in Cover-I of their offer for claim of such exemption otherwise their offer will be rejected.

6.3 **Forfeiture of EMD:** Earnest Money shall be forfeited, if any Tenderer withdraws his offer within the validity period of the offer and/or alters/amends any terms and/or condition and/ or quoted rate(s), within the validity period of the offer, making it unacceptable to the KoPT; and/or, in case successful Tenderer fails to enable KoPT to deduct equivalent amount of SD from their bills because of non-execution of work or otherwise. For the purpose of this provision, the validity period shall include any/all extension thereof agreed to by the Tenderer in writing. The Trustees of Kolkata Port Trust shall also be at liberty to deduct any of their dues from Earnest Money.

**7. The Tenderers shall distinctly understand: -**

1. That the contractor will be strictly required to confirm to the General Conditions of Contract attached as annexure and Specifications as contained in each of its clauses and the plea of "Custom Prevailing" will not in any case be admitted as an excuse on his part for infringing any of the conditions.

2. That he shall refrain from sending revised or amended quotations after the closing date and time of the tender.

3. All works should be carried out as per drawings available with KoPT, relevant code and standard engineering practices.

d) That acceptance or non-acceptance of any one of the terms and conditions, herein stated before, shall be clearly mentioned. 'Non-acceptance and/or non-compliance of any of the above terms and conditions may render the tender liable to rejection.

e) **Subcontracting of additional work.**

If any additional items of work crops up during repair which is specialized in nature & may require specialized services of outside agencies quotation from reputed firms competent for the subject work to be submitted in sealed covers. (However for such works OEM is always preferable). In such cases subcontracting of work shall be allowed with prior approval of KoPT on the basis of competitive rates as may be applicable, and payment shall be made on the basis of subcontractor's bill plus 10% as overhead charges as profit.

Rates are also requiring to be filled up for the items of work not to be considered for evaluation in the attached annexure. It shall be binding on the qualifying party to accept the lowest quoted rate by any of the party for each of the item under such head and shall be operated up on if required.

f) **Compliance of Labour Act:**

The Contractor should comply with the contract Labour (Regulation and abolition) Act 1970, including compliance of Employee's State Insurance Act (if applicable), workmen compensation, minimum wages Act 1948 and employer's (contractor being the employer) Insurance and any other laws enforce as on date. No conveyance or compensation to the tenderer's labour sustaining injuries or in case of death, in connection with the work or else shall be given by the Trustees.

g) **Interpretation of Contract, Document, Disputes therein and Arbitration ( This supersedes GCC Clause No 4.1 item 7 and GCC Clause No 10.0)**

This contract will be governed by Indian Law. In case of any dispute or differences arise in relation to the contract (before, during or after completion or abandonment of work or during the extended period thereafter) the same may be referred to the Arbitration as per provisions of Arbitration Conciliation Act, 1996.

**Evaluation of tender & Distribution of work:**

Tender will be evaluated in two sections separately and offer the work to the lowest technically acceptable tenderer on the basis of summation of rates under the section in order to ensure completion of work in the shortest possible time.

**Re-organization of work under two sections: -**

The tenderers are also requested to identify such items of work not covered under the bill of quantities but may crop up during working, in order to bring down the unforeseen items of work to the barest minimum. Such suggestions of addition/alteration shall have to be detailed clearly in the pre bid techno commercial discussion.

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#### **4. SPECIAL CONDITIONS OF CONTRACT (Commercial Specification)**

1. The Tenderers are requested to inspect the vessel at KDS thoroughly in order to assess the volume of work and to quote their prices against each item of work of defect list cum bill of quantities. Wherever lump sum value has been asked for any item of job in Bill of Quantities, the tenderers shall quote strictly lump sum rates for the entire job in that item. Payment for renewal of spares (except consumables) would be paid extra if not mentioned in the description of work in the bill of quantities. Wherever the unit rates have been asked for the tenderers shall quote the unit price. The quantities shown against such items are for evaluation purpose. Payment will be made as per actual quantity of work executed and duly certified. No dispute in this regard at a later stage will be entertained.

2. Electric power at berth/dry dock will be supplied to the contractor by KoPT to the extent possible as per requirement on chargeable basis from the nearest available source. Rate will be charged as per maximum slab of M/s CESC Ltd. for L.T. power supply prevailing at the time of execution. However, the contractor shall indicate in advance the required load and nearest source point at their own expense. The electrical work is to be carried out as per relevant rules under supervision of SCC Holder Supervisor.

Additional local illumination, over & above the existing illumination is to be arranged by the Contractor, if required, at their own cost and arrangement.

The tenderers are requested to indicate the No. of electrical points and power required in their technical cover i.e. Cover No.1 for the dry dock and afloat repairs separately. The contractor should comply with the provision of Indian Electricity Act, Central Electricity Regulation from time to time. Due care shall be taken in ensuring that their electrical contractors engaged only the competent persons holding national certificate/supervisor certificate of competency issued by Directorate of Electricity, Govt of West Bengal or equivalent. Temporary power supply shall be given only after receipt of self declaration/certification by the contractor's competent person regarding compliance to statutory safety norm as applicable for the equipment they proposed to use.

3. Entry permits for the workmen and officials of the contractor shall be provided by KoPT free of cost, formalities shall be the responsibility of the contractor. However, one time registration charge for each individual shall have to be paid by the contractor at the rate prevailing at the time of registration.

4. Unfiltered Fresh water at berth dry dock/slipway will be supplied free of cost by KoPT from nearby hydrants.

5. KoPT shall provide free of cost dry dock and berth to carry out afloat repairs for the period as stipulated.

6. In case of requirement of re-dry docking of the vessel within the Guarantee period due to fault on the part of the Contractor in carrying out the repairs of the vessel, all charges for rectification of the defects including docking/undocking & dry dock/slipway charges, crane facility, etc. shall be payable by the Contractor.

7. The contractor would be required to arrange for the security of their own equipments etc. during working period.

8. In case of any damage, during repairs of the vessel caused due to Contractor's fault/negligence to KoPT's property, due to fire, theft, bad workmanship or otherwise, the contractor would be required to rectify/repair/renew the same at their own expense to the entire satisfaction of KoPT.

9. All scrap materials arising out of the repairs other than perishable items like gaskets, rubber pipes etc would be required to be delivered to the Trustees' Sales Yard at Materials Management Division without any additional cost by the successful contractor for the respective areas of work progressively from time to time to keep the surrounding area clean. KoPT will provide Security Escort for transportation of the material from dry dock/slipway /berth to the Trustees' Sales Yard. Issuance of necessary gate pass, forwarding note & making other arrangements would be done by the E-I-C / Dock Master/Shipwright/ Mooring Master for the areas of work. While submitting bills for spares/ bought out items the same should be co-related with documents of receipt of the old items by the E-I-C / Dock Master/Shipwright/ Mooring Master. While submitting bills for items where rates are available for the items of work not to be considered for evaluation under Annexure of BOQ, similar document have to be enclosed.

9(a). Dry Dock area must be cleared of all scrap material & other materials prior to undocking of vessel including tunnels and ducts in consultation with dry dock Supdt so that docking of next vessel is not affected. KoPT reserves the right to charge the dry dock charges if docking of other vessel is affected as per scales of rates of KoPT for the period removal of such scrap material generated during repair, is delayed.

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9(b) The repairer is bound to submit the repair procedure for any of the BOQ job to be executed, if asked for by the KoPT representative and/or Statutory Body and the repair to be executed as per the procedure approved by the competent authority.

9(c) The repairer have to submit the bar chart for total dry-dock and afloat repair.

10. At all stages inspection facilities for the IRS/MMD/IWT Surveyors and KoPT representatives at site and at the contractor's Workshop or their supplier's godown / stores etc. shall be arranged by the contractor free of cost.

11. Booking of IRS/MMD/IWT surveyor would be done by KoPT according to the requirement to be placed by the contractors at least 3 working days in advance to E-I-C / Dock Master/Mooring Master on making the survey items ready for inspection. Surveyor's fees would be paid by KoPT directly. The successful tenderer shall be required to extend all facilities in this regard including transportation of surveyor.

12. Unless otherwise specified, in the entire specifications in all items of work whether unit rate or lump sum rate, all washers and studs, bolts & nuts (except in case of fenders), screw and other fasteners, joints, split pins, joining compounds will be also treated as consumables and cost of renewals of those, as necessary, shall be taken in account by the tenderers while quoting such rates / L.S. rates against respective items of work except for the OEM parts. Cost of goods not included in BOQ will be paid as in the case of bought out items at actual cost plus 10% handling & transportation charges. OEM gaskets and O rings for specific machineries shall be treated as spares and will be paid extra except where specifically mentioned and rates are available for the items of work not to be considered for evaluation.

13. Lump-sum rates for repair of wooden furniture, doors and windows etc. shall include the cost of replacement of all broken / worn out / missing joinery materials, e.g. screws, nails, hooks, hinges, socket bolts, hasp and staples, drawer locks & adhesives. Joinery materials to be used in above repair shall be near around same size and materials as existing. Timber shall be of good quality Sal wood as available in the market.

14. For getting reimbursement of VAT for bought out items, purchase of material are to be made from VAT registered firms, the amount of VAT charged & VAT Regd. No. to be indicated in the purchase document.

15. Unless otherwise specified, removal, cleaning, re- fitting, renewal of all M.S. & G.I. Pipes will be paid on pro rata basis from the rates under annexure. While quoting the costs, nut, bolts, washers, joints, gasket compound etc should be taken in consideration as same will not be paid extra. Old flanges will have to be used. Also, certain works which may require to be carried out other than BOQ items has been included in the Annexure under items not to be considered for the evaluation of tender.

16. Unless otherwise specified, renewal of all items of materials in L.S. rates or unit rates such as spares, pumps, valves, pipe line fittings, fender bolts, engine/machinery spares, pipes, under water fittings, casting/machining of parts/and such items not specifically mentioned in the Tender Document and which cannot be foreseen prior to undertaking the job except for OEM parts and or depend upon the surveyors' recommendation, would be paid extra as bought out items or repair. Handling and transportation charges @ 10 % on the basic price i. e excluding amount of VAT of such materials would be paid extra. In each of the above cases the Contractor will have to produce original purchase documents e.g. receipts / challan / invoices, duly certified. Such purchase should be made from OEM or their authorized dealers wherever applicable.

In rare event of non availability of OEM non critical spare parts same may be replaced by non OEM spares, with the prior consent of the Engineer/Representative of the contract as specified in item no.(f. & g) under heading Excess & Extra Work.

17. Personal Protective Equipment: Personnel to be deployed by the contractor should have head gear and other Personal Protective Equipment as would be necessary for the given working condition. It shall be the responsibility of the contractor to have the antecedents of their employees' verified prior allowing entry to the port area.

18. It would be the responsibility of the Contractor to undertake all additional & unforeseen work as may be required for successful commissioning of the vessel as would be advised by KoPT from time to time during the repair work. Even certain plant and machinery, equipment, furniture fixtures, paneling may be required to be removed and fitted back in order to attend to adjacent repairs such as steel renewal etc.

a. Any item under BOQ may be deleted if considered not necessary/required by the Engineer of the contract.

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b. The work has to continue round the clock



19. The General condition of Contract of KoPT shall be applicable wherever relevant.

a. In event of increase in work that can be done under afloat condition the firms would be allowed additional time at the discretion of Engineer of the contract, however it must not affect the operation of the vessel failing which LD would be applicable.

It is to be clearly understood that additional work upto a value of 10% of the evaluated amount (excluding the value of materials to be supplied) will have to be executed within the above stated time frame except for the works that are identified later and may not have enough time for execution within stipulated time for which additional time would be permitted as per discretion of the engineer of the contract or his authorized representative.

**Excess & Extra work would be dealt in the following manner:**

1. Work to be carried out immediately on receipt of order from the E-I-C / Dock Master/Mooring Master or their representative.

2. Consent to be taken from the E-I-C / Dock Master/Mooring Master or their representative regarding booking of Skilled & Unskilled Labour and to be reasonable for each additional item of work.

iii) Detailed break up of Material, Skilled & Unskilled Labour to be submitted to the E-I-C/Dock Master/Mooring Master or their representative for consideration of KoPT immediately on noticing the requirement/surveyor's recommendation for placement the matter to the committee to decide the extra cost and time.

(iv) Daily record of Material & Labour engaged for each additional item of work to be maintained by the E-I-C / Dock Master/Mooring Master or their representative. The Contractor shall have to furnish details to them for maintaining such record.

**20. Repair Time.**

**20.1** Total repair would have to be completed within 60 calendar days. Out of this, repair work in the dry dock will be required to be completed within 45 calendar days from the date of receipt of order by the successful tenderer or from the date the vessel is placed in dry dock and the dry dock made suitable for working, whichever is later. Afloat repair, trials & commissioning of the vessel will have to be completed within balance 15 calendar days after undocking on completion of work in dry dock and placement of the vessel in an alongside berth. Days lost, if any, for undocking & placement of the vessel alongside the berth would not be taken into account to determine the actual repair time.

**20.2** For any days or part thereof lost during work due to unforeseen reasons, the same would have to be noted by the Contractor jointly with E-I-C / Dock Master/Mooring Master or their representative, in the Log Book to be maintained on board the vessel. Granting of Additional time, if required for additional work, would be decided by KoPT within 3 to 4 days after placement of work order as the committee would be meeting twice a week or as required to decide upon the additional cost and time for each such work.

**20.3 Liquidated damage:** KoPT's standard LD Clause of ½ % per week or part thereof subject to a maximum of 10% of the total executed value shall be applicable.

**20.4 Force Majeure**

In the event of either party being rendered unable to perform any obligation under the contract, the relative obligation of the party affected by such force majeure shall upon notification to the other party be suspended for the period during which force majeure events last. The cost and loss sustained by either party shall be borne by respective parties. The term force majeure employed herein shall mean act of god, war declared or not, riots, civil, commotion, fire, accident, sabotage, natural calamities, plague, quarantine, import or export embargoes, restraints imposed by government or change in Govt. policies subsequent to hire or any happening affecting the performance by their party it's obligations under this charter which the party can not reasonably prevent or control against.

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20.5 The date of final survey by the Surveyor for issuance of plying certificate would be reckoned as the date of commissioning of the vessel.

## **21. Guarantee.**

All works including spares supplied by the contractors to be guaranteed for a period of 06 months from the date of successful commissioning of the vessel against bad material & faulty workmanship. Guarantee repairs will have to be carried out immediately for the operational exigency, (arising out due to breakdown/ defects developed for the work executed by the contractor) at KDS at the Contractors cost. All new machinery should be guaranteed for a period of one year from the date of commissioning of the vessel. The guarantee period will stand extended in case there is delay in attending to defects for the delayed period.

22. It will be Contractor's responsibility to obtain approval of IWT or MMD or IRS Surveyors' or KoPT representative prior to use of material / bought out items in the vessel, as applicable. It shall also be the responsibility of the Contractor to establish quality / grade and size of the material being used in the vessel and co-relate the same with purchase document produced. KoPT, however, reserve the right to reject any material found to be of inferior quality / not conforming to the required specification at any stage of repair.

23. Should there be any divergence of views or disputes, the decision of DMD, KoPT would be considered as final & binding on the Contractor.

## **Security Deposit:**

24. Security deposit will be deducted @ 10 % from each progressive bill as submitted by the Contractor which will be retained as Security Deposit till successful completion of the guarantee period. After completion of work and commissioning, if the successful tenderer submits equivalent amount, i.e., 10% value of the total executed work as Bank Guarantee towards SD, the said amount would be released.

25. All payments due to the contractor under the contract shall be made in Rupee currency through ECS. No foreign exchange is payable on this contract. All payments like refund of Earnest Money, Security Deposit and all bills of contractor will be paid through ECS. For this purpose, following details are to be furnished by the Contractor while raising the first bill:-

1. Name of the bank with Code No. :-
2. Name of the Branch with Code No. :-
3. Bank account no. :-
4. Type of account :- Saving/Current/Cash Credit  
(Strike out whichever is not applicable)
5. MICR & IFSC Code No. :-

The account shall have to be with a bank within the ECS zone prescribed by the RBI.

26. **Cenvat-** All bidders to note for execution of work following steps are required to be taken so that KoPT may avail the cenvat credit.

1. Spare parts form OEM/authorized dealers, the contractor will ensure invoices are drawn in the name of the contractor however it should be marked account Kolkata Port Trust with ship's name and address of the vessel as per Cenvat credit rules and regulations, KoPT would provide the Service tax Regn. No. for availing cenvat credit.

As per the act, service tax paid by the receiver to the supplier when the service given by the contractor, is regarded as Cenvatable input. The amount of service tax will be regarded as Cenvatable output and will be adjusted when actual payment is made on every such Cenvatable output on the basis of service given to the port.

Accordingly the contractor shall buy such items to the extent possible either from the manufacturers or from 1<sup>st</sup> stage dealer or 2<sup>nd</sup> stage dealer. If the procurement is made by the contractor from 1<sup>st</sup> stage or 2<sup>nd</sup> stage dealer, the invoice of such items shall indicate that those items/service will be consumed by Kolkata Port Trust.

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The contractor will submit proper documents indicating their registration number and other required information.

27. The conditions given hereinabove shall prevail over the provisions of the "General Conditions of Contract, Forms & Agreements" if not stated otherwise.

28. The KoPT reserves the right to reallocate any work under the Bill of Quantities for smooth working and also for timely completion of work. In the event of defaulting by the tenderer or slow progress of repair by any tenderer KoPT reserves the right to get such work done by any firm at extra cost and the extra expenditure incurred by KoPT on this account shall have to be borne by the defaulting tenderer.

**Special note w.r.t. excess and extra work-**

All participating firms to note that the modus operandi w.r.t. excess and extra work for timely completion of repair work

**Excess & Extra Work.**

a) The work of ship repairing is complex in nature and since the work has to be executed in a time bound manner, the Engineer of the contract or his representative, in all cases, shall issue the work order for all 'Excess & Extra work' as may be required or recommended by statutory authorities, so that the work continues without any hindrance.

b) As regards certification against 'excess work', there should not be any difficulty as the rates are already available in the BOQ except that the revised value of the work ( estimate) will have to be formalized through post facto administrative approval on completion of all repairs.

c) For undertaking any item of 'excess work' up to a limit of  $\pm 15\%$ , the contractor shall be paid at his quoted rate but the rate will be negotiable if the quantum of this particular work exceeds the above limit.

d) A committee comprising of suitable representatives from Marine and Finance and one representative out of CME/CMM, as the case may be, would be set up in advance for evaluation and certification of 'extra work', for each repair. The committee would meet on fixed days twice a week on board the vessel and give clear decision w.r.t. cost and time for extra work. The committee members from non-operational departments may undertake periodical inspection of the vessel to familiarize themselves with the nitty-gritty of the works involved.

e) Where payment is to be made against OEM spares, the payment will be certified by the committee on the basis of original bills produced by the contractor from the authorized OEM spares supplier.

f) As regards payment against Non-OEM spares/items of work up to a ceiling of Rs. 15000/- for each item, the committee may certify the 'reasonableness' of the cost on the basis of a single quotation produced by the contractor from any supplier or shop having a registration number.

g) For payment against Non-OEM spares/items of work above Rs. 15000/- for each item, the committee may certify the 'reasonableness' of the cost on the basis of at least three quotations produced by the contractor from the suppliers or shops having appropriate registration numbers.

**It shall be the responsibility of the contractor to clean the dry dock floor of all materials, as well as walkways on top. If not done prior undocking of the vessel, KoPT reserves the right to arrange for cleaning and deduct the charges from the contractor without any reference to the contractor.**

**It is to be noted, in event the repair work is not completed in time, for observing official formalities for application of LD for the delayed period would take considerable time for which final payments would be delayed accordingly.**

**Note: Special condition of contract will override the G.C.C.**

**5. TECHNICAL SPECIFICATION**

**1 Quality & Workmanship.**

1.1 The work is to be carried out with best quality materials and with highest degree of workmanship to the entire satisfaction of **IRS/MMD/IWT Surveyors & KoPT Representatives.**

1.2 All steel material to be of I.S. 2062 Grade 'A' / Grade 'B' with proper test certificates. Generally all hull plating, bulkhead plating up to main deck and main deck plating shall be IS 2062 Grade 'B' and all other plates and sections shall be no less than IS 2062 Grade 'A' quality. In the event there is no supporting test certificate, the Contractor would be required to send random sample pieces to MMD/IRS/IWT authorised Test Houses for testing at the Contractor's expense.

**2. Welding.**

2.1 All welding work is to be done in an approved manner and as per code of practice of relevant Indian standard specification (Latest Revision).

2.2 All welding work is to be carried out by Class certified Welders only. Certificates of welders to be produced to KoPT representatives or Surveyors as and when asked to do so by them.

2.3 All butt welds shall have full penetration and wherever possible shall be welded from both sides.

2.4 All weld joints in hull, deck, tanks top plating and wherever required at other places shall be watertight.

2.5 In case of any doubt, welding as may be recommended by the MMD/IWT/IRS Surveyors/KoPT representatives shall be subjected to non-destructive testing e.g. Radiography, D.P. Test etc. and the entire cost of such testing shall have to be borne by the Contractor. Rectification of defects as may be recommended by the MMD/IRS/IWT Surveyors subsequent to such testing shall have to be done by the Contractor, free of cost.

**3. Electrodes.**

Electrodes to be used for welding shall be of approved variety/ brand of Statutory Body.

**4. Shaping of plates & sections.**

While renewing plates and sections which require shaping / forming, shaping and forming of new plates / sections to the true profile / contour are to be done in the Contractor's fabrication yard prior to fitting those on board, to the extent possible.

**5. Thickness of plates & sections.**

The Contractor must ensure themselves of the thickness of the plates & Sections to be renewed from the relevant as fitted drawings available on board. Renewals are to be carried out with the original thickness of plates and Sections, in case of non availability or Surveyor's/KoPT official's recommendation, the matter to be brought to the notice of the Engineer of the contract and approved next higher section may be used. No dispute in this regard at a later date will be entertained.

**6. Length & Width of Plates.**

Unless otherwise approved / recommended, the length & width of the new plates shall be not less than the respective existing ones to the extent possible which require renewal.

**7. Size of the rolled Section.**

Unless otherwise approved / recommended, the existing rolled sections requiring renewal shall be replaced with respective same size of rolled sections.

8. Replacement of all timbers on strong back, chocks etc. and at other places, if not otherwise specified shall be done with good quality Sal Wood as available in the market.

9. All Electrical fittings and fixtures are to be of Marine Quality as approved by MMD/IRS or of renowned make.

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**10. Staging.**

Staging of adequate strength and area, together with reasonable access thereto as per safety regulations shall be provided by Contractors to facilitate the work of repair / renewal, painting and inspection.

**11. Hose Testing.**

All welded joints, butts are to be tested with water jet having adequate pressure for ascertaining water tightness and shown to Surveyor. Necessary hose, hose coupling, nozzle for undertaking hose testing is to be arranged by the Contractor, if required. Arrangements for testing are to be done by the contractor & all relevant costs are to be borne by them.

**12. Spare Parts.**

(a) All Engine/ machinery parts will be supplied by KoPT to the extent available. If not supplied by KoPT, the same shall be purchased by the Contractor from the manufacturers or their authorized dealers and supported with proper purchase documents. Only those spares, which are not available readily with the OEM or their authorized dealers due to obsolescence/out of stock, will be allowed to be procured locally manufactured from other source subject to approval by the KoPT representative. However, if the testing of material is necessary, will be payable extra.

(b) In case any spare is not available and is required to be manufactured, the same shall have to be manufactured as per the drawings and material of construction available with KoPT. In the event, even if the above information is not available, the items shall have to be manufactured as per sample. In such case, the composition of material for construction shall have to be confirmed by testing the parent material from IRS/statutory authority approved test laboratory. Necessary fees for such testing of material shall be reimbursed by KoPT at actual.

**13. Rectification of defects-** The tenderers will be bound to rectify the defects in materials and workmanship detected at any stage of inspection and even after final inspection, till completion of guarantee period. Such rectification will have to be done in a manner approved by IRS/MMD/IWT Surveyors / KoPT representative at no extra cost to the Trustees. No extension of completion time will be granted on account of such rectification work.

**14. Electrical items:**

14.1 Unless otherwise specified, overhauling of motor includes stator/rotor cleaning and revarnishing of winding with air drying varnish, replacement of bearings, and examination of rotor shaft and bearing housing for flaws/cracks, corrosion to be repaired if found defective. Repair of terminal box, if required, painting of motor, running test after assembly and after installation in ship.

14.2 Unless otherwise specified, the routine repair on switch board includes cleaning of dirt and dust, examination of all contact units. Replacement of contactor units, if required, to be done by OEM/L & T / Siemens / Legrand make (to the extent possible) which will be paid extra. To check the hold on coil / no volt coil and overload unit adjustment. Examination of internal connections.

14.3 Unless otherwise specified, overhauling of starter, panel of equipment / motors will include renewal of defective indication lamps, lamp covers, fuses, fuse bases, fuse carrier, defective wiring and locking system. Relay contactor units and overload trip to be checked and adjusted. Replacement if required to be made by OEM/L & T / Siemens / Legrand make which will be paid extra.

**15. Surface Preparation & Painting.**

All paints should conform to their latest respective Standard Specification, shall be supplied in sealed containers showing their batch Nos., date of manufacture and other details and shall be obtained from reputed manufacturers, e.g. Berger Paints, Shalimar Paints, Jenson & Nicholson & I.C.I or any other reputed make except for epoxy based paints, to be used for underwater / shipside to be of AKZONOBEL/SIGMA or JOTUN or makes which are used internationally for merchant shipping.

All external hull plates including inside and outside bulk work to be Copper Slag blasted, cleaned thoroughly and all other steel surfaces to be chipped / scrapped / wire brushed wherever necessary to make the surface

**e -Tender No:- KoPT/Kolkata Dock System/DMD/3/16-17/ET/25**

free from rust, dust, grease etc. and should be dry at the time of painting. Blasting to be carried out in two stages i.e. once after dry docking of the vessel to facilitate inspection by Surveyor & USG of the plates and once before painting. Blasting before painting should be done to achieve SA 2.5. Application of epoxy based paints to be done by airless spray painting.

Confirmatory Certificates to be furnished from the representative of the paint manufacturer at each stage of painting, i.e. before and on completion of each coat of paint in respect of surface preparation and quality of painting as per painting schedule including the DFT measured by a measuring instrument with valid calibration certificate. Random photographs of underwater area to be taken at all stages of surface preparation & painting. On completion of work all the documents including the photographs to be submitted in triplicate to KoPT for records.

PAINTING SCHEDULE			
(1)	Hull exterior under water portion including all appendages up to load water line & inside of sea chest area (all paints should be epoxy based):		
	Primer	100 mic. each coat	1 coat
	Anti-corrosive	75 mic. each coat	1 coat
	Tie Coat	75 mic. each coat	1 coat
	Anti fouling	75 mic. each coat	2 coats
(2)	Hull exterior from top edge of load water line to top of bull work inside and outside (all paints should be epoxy based):		
	Primer	100 mic. each coat	1 coat
	Finish paint	50 mic. each coat	2 coat
(3)	All exposed decks including top side:		
	Primer	100 mic. each coat	1 coat
	Finish paint	50 mic. each coat	2 coats
(4)	Super structures:		
	Primer	100 mic. each coat	1 coat
	Finish paint	50 mic. each coat	2 coats
(5)	Engine Room/steering compartment:		
(a)	Flat bottom to underside of Platform plates including all structural members, except tanks:		
	Primer (oil resisting paint)	2 coats	
(b)	Above platform plate up to inside of Engine Room casing, funnels etc. to be soap washed and painted on dry surface.		
	1 coat of finished paint of existing colour to apply.	1 coat	
(c)	Piping System: Entire piping systems in the vessels		
	Zinc chromate primer	1 coat	
	Synthetic Enamel paint (All pipelines to be identified by different colour codes as per shipbuilding practice).	1 coat	
(6)	All machinery's , pumps, motors etc.:		
	Synthetic Enamel paint	1 coat (existing colour)	

(a)	<b>Hull interior void space/cofferdam, forepeak tank, below deck store etc.:</b>	
	Primer	2 coats
(b)	<b>Rest of the exposed steel</b>	
	Zinc chromate primer	1 coat
	Synthetic enamel paint	1 coat (existing colour)
(c)	<b>Chain Lockers:</b>	
	Black Bitumastic Paint	2 coats
(7)	<b>Seats of Deck machinery's and auxiliary machinery's( E. Room) /steering compartment:</b>	
	Zinc chromate primer	1 coat
	Synthetic Enamel(light Grey)	2 coats
8.	<b>Anchors and anchor chains:</b>	
	Bituminous paint	2 coats
(9)	<b>Deck fitting – bollards, Samson posts etc.:</b>	
	Zinc chromate primer	1 coat
	Synthetic enamel (Black)	2 coats
(10)	<b>Ballast Tank :</b>	
	Epoxy primer	2 coats

## **6. TERMS OF PAYMENT**

Progressive payment would be made within 30 days of submission of clear bill, in triplicate, to be submitted with items of work and quantities of work completed supported with all necessary documents like work done certificate, challan, bills etc. In order to process payment smoothly, separate bills should be raised for bought out items & BOQ items of work. Respective BOQ items should be clearly indicated against the bought out items.

The contractor shall have to submit quantum of item-wise work done on completion of every seven days from the date of commencement of work for the purpose of issuance of work done certificate by KoPT.

**It is to be noted, in event the repair work is not completed in time, for official formalities for application of LD for the delayed period would take considerable time and final payments would be delayed accordingly.**

### **1. For Structural Work.**

- 1.1 50 % on removal of steel plates / structural members to be cropped renewed / faired after gauging & on fitting of steel plates / structural members in place and tack welding the same.
- 1.2 20 % on completion of all welding and inspection by Surveyor.
- 1.3 20 % on completion of work in all respect.
- 1.4 10 % on final survey by the Surveyor and commissioning of the vessel.

### **2. For all Tank Work.**

- 2.1 20 % on opening and cleaning of tanks and presentation to the surveyor for initial inspection.
- 2.2 70 % on completion of all work in the tank in all respect.
- 2.3 10 % on final survey and commissioning of the vessel.

### **3. For Surface Preparation & Painting.**

- 3.1 20 % after completion of Surface Preparation of the area as in Bill of Quantities.
- 3.2 Progressive payment against purchase of paints, 80 % value of the suppliers' invoices / receipts up to a ceiling of 40 % value of the total contract price of chipping, painting item of Bill of Quantities upon availability of above paints on board.
- 3.3 Balance minus 10 % on completion of final painting.
- 3.4 10 % after final survey and commissioning of the vessel.

### **4. Engine & Machinery/deck machinery:**

- 4.1 25 % on dismantling of any machine, pump, valve, motor, starter, shaft, rudder, propeller, blower etc. under any particular item of the Bill of Quantities of the Tender and open survey by the Surveyor/KoPT representative for item not for survey.
- 4.2 50 % on boxing up of the machinery.
- 4.3 15% on satisfactory trial of the machinery
- 4.4 10 % on commissioning of the vessel.

**5. For all bought out items to be purchased, reimbursement of cost will be made with corresponding stage payments on production of bills along with purchase documents at actual cost of the material including taxes and duties as applicable for Kolkata plus 10 % on the basic cost of material towards handling, transportation charges.**



**FORM OF TENDER**

Name of Work : Special Survey Repair of Tug Kalikata

To,  
The Director, Marine Department,  
Kolkata Dock System  
Kolkata Port Trust  
15, strand Road,  
Kolkata – 700 001  
West Bengal; INDIA

I/We

.....of.....  
..... having examined the site of  
works, inspected the drawings and read the Notice Inviting Tender, Instructions to the Tenderers, Scope of  
Work & Technical Specifications, General and Special Conditions of Contract hereby tender and undertake to  
execute and complete all the works required to be performed in accordance with the Scope of Work,  
Specifications, Bill of Quantities, General and Special Conditions of Contract and Drawings (if any) prepared by  
or on behalf of the Trustees and at the rates and prices set out in the annexed Bill of Quantities  
within.....months.....and from the date of Order to  
commence the work of Special Survey Repair of "Tug Kalikata", and in the event of our Tender being accepted  
in full or in part, I/we also undertake to enter into a Contract Agreement in the Form hereto annexed with such  
alterations or additions thereto which may be necessary to give effect to the acceptance of the Tender and  
incorporating such Specification, Bill of Quantities, Drawings and Special and General Condition of Contract  
and I/we hereby agree that until such Contract Agreement is executed, the said Specifications, Bill of  
Quantities, Conditions of Contract and the Tender, together with the acceptance thereof in writing by or on  
behalf of the Trustees shall be the Contract.

I/We have submitted a **Bank Draft/Banker's Cheque** vide No.: ..... from  
..... Branch of..... Bank, as Earnest Money.

I/We agree that the period for which the Tender shall remain open for acceptance, shall not be less than 180  
days (minimum) from the scheduled date of opening of Part I (Techno Commercial aspects of bid) .

**Signature of Tenderer**

**(Seal of the Tenderer)**

**WITNESS:**

Signature: \_\_\_\_\_ Name of the Tenderer: \_\_\_\_\_

Name: \_\_\_\_\_

(In Block Letters)

Date: \_\_\_\_\_

Address \_\_\_\_\_

Address: \_\_\_\_\_

Occupation: \_\_\_\_\_

\* **Strike out which are not applicable.** \_\_\_\_\_

**CHECK LIST IN CONNECTION WITH SUBMISSION OF TENDER**

Sl. No.	Particulars	Cover No.	Submitted/ Not submitted [Put <input checked="" type="checkbox"/> if submitted and put <b>X</b> if not submitted]
1.	<b>Earnest money deposit (EMD)</b>	Cover-I	<input type="checkbox"/>
2.	<b>TENDER FEE</b>	Cover-I	<input type="checkbox"/> Banker's Cheque/Bank Draft
3.	General information of the bidder (as per Annexe-I) duly filled in completely, signed & stamped.	Cover-I	<input type="checkbox"/>
4.	Technical Capability & Experience details (as per Annex-II) duly filled in completely signed and stamped in support of the prequalification criteria.	Cover-I	<input type="checkbox"/>
5.	Copies of audited Annual Accounts including the Balance Sheet and Profit & Loss Statement for the past 3 financial years ended on (duly signed and stamped by the tenderer).	Cover-I	<input type="checkbox"/>
6.	<b>Form of Tender</b> duly filled in completely, signed & stamped	Cover-I	<input type="checkbox"/>
7.	One copy of <b>Tender Document including its Addendum</b> (if any), duly signed and stamped on each and every page as token of acceptance of KoPT's Terms and Conditions	Cover-I	<input type="checkbox"/>
8.	Blank Format of <b>Bill of Quantities</b> , confirming that the price has been quoted in the PRICE BID (Cover-II) as per this format only	Cover-I	<input type="checkbox"/>
9.	Declaration of the Tenderer, as per Annexe-VI	Cover-I	<input type="checkbox"/>
10.	One Duplicate Copy (clearly marked) of the offer	Cover-I	<input type="checkbox"/>
11.	Detailed Schedule of execution of the work outlining the key activities and critical items on the schedule in the form of Bar Chart	Cover-I	<input type="checkbox"/>
12.	Bill of Quantities, duly filled up, signed & stamped	Cover-II	<input type="checkbox"/>
13.	All the covers have been superscribed by "Special survey repair of Tug Kalikata.	Cover-I	<input type="checkbox"/>
14.	All pages of the bid documents and additional papers are signed under seal	Cover-I	<input type="checkbox"/>

**Signature and Seal of the Tenderer**

**e -Tender No.:- KoPT/Kolkata Dock System/DMD/3/16-17/ET/25**

**GENERAL INFORMATION OF THE BIDDER**

**The Tenderer must submit the information in this format.**

1.	Full name of the firm (IN CAPITAL LETTERS)	
2. a )	Address of Registered Office/Head Office	
b )	Name of the contact person at Head Office	
c )	Telephone Number(s)	
d )	Facsimile Number(s)	
e )	E-mail Address (es)	
f )	Place of Incorporation/Registration.	
g )	Year of Incorporation/Registration.	
3. a)	Address of the Branch Office, if any	
b)	Name of the contact person at Branch Office	
c)	Telephone Number(s)	
d)	Facsimile Number(s)	
e)	E-mail Address (es)	
4.	Whether the Tenderer is a Proprietorship Firm or Partnership Firm or Limited Company .	
5.	Turn over of the Tenderer for the last 3-financial years (ending on 31.03.15).	
i )	2014-2015	
ii )	2013-2014	
iii )	2012 -2013	
6.	Details of the Banker(s) :	
a)	Name of the Banker(s) in Full.	
b)	Address(es) of the Banker(s)	
c)	Telephone Number(s)	
d)	Facsimile Number(s)	
e)	E-mail Address(es)	
f)	Name(s) of the contact person(s)	
7.	Income Tax, Service Tax & VAT Details (if applicable) :	
a)	Income Tax Permanent Account No. (PAN)	
b)	Service Tax Registration Number	
c)	VAT Registration Number	

8.	Mainlines of Business	
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**e -Tender No.:- KoPT/Kolkata Dock System/DMD/3/16-17/ET/25**

**TECHNICAL CAPABILITY AND EXPERIENCE DETAILS**

**The Tenderer must submit the information in this format.**

	<b>Experience:</b>	
a)	Number of Years of experience in the field	
a)	Number of orders for similar work executed during last 7 years.	
b)	Number of orders executed within the scheduled completion period, in the last 7 years.	
	<b>Years</b>	Number of Orders
		Number of Orders executed within the scheduled completion period.
	2009-10	
	2010-11	
	2011-12	
	2012-13	
	2013-14	
	2014-15	
	2015-16	
c)	Number of certificates submitted for past performance	
d)	<b>CURRENT COMMITMENT IN HAND :</b> [Name of the client, Reference No. & Date, Order Value and Scheduled Date of Completion to be mentioned for each order]	

FORMAT OF AFFIDAVIT FOR ESI EXEMPTION  
On the Rupees Ten Non judicial stamp paper

BEFORE THE 1ST. CLASS MAJISTRATE AT .....  
AFFIDAVIT

I..... son of .....aged about ..... year, by faith .....,by occupation  
..... Residing at ....., do hereby solemnly affirm and declare as follows:-

THAT I am the proprietor /Partner of ..... having office at .....  
..... and carrying on business on the said name and style.

( In case the above Deponent is an enlisted contractor at Kolkata Port Trust , the same should be mentioned in the affidavit.)

That my aforesaid firm is exempted from E.S.I. Act and the said firm has no valid E.S.I. registration.

3. That the present affidavit is to be files before the Kolkata Port Trust as per the clause No....  
of the tender No..... issued by Kolkata Port Trust in respect of the work ( the work is to be mentioned.)

THAT the statements made above are all true to the best of my knowledge and belief.

Identified by me.

DEPONENT

**ANNEXE -IV**

**INDEMNITY BOND**

BY THIS BOND I, Shri/Smt. ....,son of Sri/Smt.....residing at  
.....by occupation ..... the Partner/Proprietor/Director  
.....having office at ....., am a tenderer under marine  
Department, Kolkata Port Trust (A statutory Body under MPT Act,1963).

WHEREAS , the said Kolkata Port Trust had asked the every tenderer, who is not  
covered under E.S.I. Act or exempted to furnish an Indemnity bond in favour of  
Marine Department , Kolkata Port Trust against all damages and accidents to the  
labourer tenderer/contractor.

NOW THIS BOND OF INDEMNITY WITNESSETH THAT the tenderer /contractor  
named herein above shall indemnify the Kolkata Port Trust against all damages  
and accidents occurring to the labourers of the tenderer/ Contractor as  
demanded by the Kolkata Port Trust and which shall be legal and /or claimed by  
the Kolkata Port Trust during the execution of the work stated in the NIT  
No..... of .....

AND the contractor hereunder agrees to indemnify and at all times keep  
indemnified the Kolkata Port Trust and its administrator and representative and  
also all such possible claim or demand for damages and accidents.

IN WITNESSETH WHEREOF I, ....., the  
Partner/Proprietor/Director.....hereto set and seal this the .....day of  
..... in the year .....at .....

Sureties:

Signature of the Indemnifier

a) Name :

Signature :

Address :

b) Name :

Signature :

Address :

c) Witnesses

Name :

Signature:

Address :

**DECLARATIONS OF THE TENDERER**

We do hereby declare that: ---

We have not been banned or delisted by any Government or Quasi-Government Agencies or PSUs in India.

We confirm that the price quoted in the Price Bid is as per the "Bill of Quantities" without any extraneous condition. The Price Bid does not contain anything other than the price.

**Signature of the Tenderer**

**With Office Seal**

**Covering Letter**

Ref. No.

Dated :

**The Director, Marine Department,  
Kolkata Port Trust,  
15, Strand Road,  
Kolkata – 700 001.**

Dear Sir,

a. 1. We, .....(Name of Tenderer) having examined the Tender Document and understood its contents, hereby submit our Tender for Special survey repair of “Tug Kalikata” (Tender No. **MRN/ES/872 DT. 15**).

2. All information and proofs provided in the Tender including Addendum and in the Appendices are true and correct and all documents accompanying such tender are true copies of their respective originals.

3. We shall make available to Kolkata Port Trust (hereinafter referred to as KoPT) any additional information it may find necessary or require to supplement or authenticate the Tender.

4. We, .....(Name of Tenderer) hereby undertake that we will abide by the decisions of KoPT in the matter of examination, evaluation and selection of Successful Tenderer and shall refrain from challenging or questioning any decision taken by KoPT in this regard. We further acknowledge the right of KoPT to reject our tender without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.

5. We also certify the following

(a) We have not been debarred by the Central/State Govt. or any entity controlled by them or any other legal authority from participating in any Tender/Contract/Agreement of whatever kind

(b) We have also not been expelled from any project or contract nor have had any contract terminated for breach in the last 3 years ending on the date of opening of the techno commercial part of the tender.

6. We declare that:

(a) We have examined and have no reservations to the Tender Document, including the Addendum, if any, issued by KoPT thereon.

(b) We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any corrupt, fraudulent or coercive practices to influence the evaluation process of the tender.

7. We understand that KoPT reserves the right to accept or reject any tender and to annul the tendering process and reject all tenders at any time without any liability or any obligation for such acceptance, rejection or annulment without assigning any reason thereof.

Yours faithfully,

**Signature of Tenderer**.....

**Name:** .....

**Designation:** .....

**Date :** .....





<p style="text-align: center;"><b>GENERAL CONDITIONS OF CONTRACT</b> <b>FORMS AND AGREEMENTS</b></p>
--

**SANCTIONED BY TRUSTEES UNDER RESOLUTION NO. 92**  
**OF**  
**THE 6<sup>TH</sup> MEETING HELD ON 27<sup>TH</sup> MAY, 1993.**

**(Copy of Booklet Published on May, 1993)**

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### **3. DEFINITIONS**

- 1.0. In the contract, as hereinafter defined, the following words and expressions shall have the meaning hereinafter assigned to them, except where the context otherwise required.
- 3.1. **"Employer"** or "Board" or "Trustees" means the Board of Trustees for the Port of Kolkata, a body corporate under Section 3 of the Major Port Trust Act, 1963, including their successors, representatives and assigns.
- 3.2. **"Chairman"** means the Chairman of the Board and includes the person appointed to act in his place under Sections 14 and 14A of the Major Port Trusts Act, 1963.
- 3.3. **"Contractor"** means the person or persons; Firm or Company whose tender /offer has been accepted by the Trustees and includes the Contractor's representative's heirs, successor and assigns, if any permitted by the Board / Chairman.
- 3.4. **"Engineer"** means the Board's official who has invited the tender on its behalf and includes the Chief Engineer, the Chief Mechanical Engineer, the Senior Executive Engineer the Chief Hydraulic Engineer, the Deputy Chief Engineer, the Deputy Chief Mechanical Engineer, the Senior Resident Engineer, The Manager (Infrastructure & Civic Facilities), the Manager (Plant & Equipment) the Deputy Manager ( Infrastructure & Civic Facilities) and the Deputy Manager (Plant & Equipment), or other official as may be appointed from time to time by the employer, with written notification to the Contractor, to act as Engineer for the purpose of the contract, in place of the "Engineer" so designated.
- 3.5. **"Engineer's Representative"** means any subordinate Engineer or Assistant to the Engineer or any other official appointed from time to time by the Engineer to perform the duties set forth in Clauses 2.4 to 2.6 hereof.
- 3.6. **"Work"** means the Work to be executed in accordance with the Contract and includes authorized "Extra Works" and "Excess Works" and Temporary Works.
- 3.7. **"Temporary Works"** means all temporary works of every kind required in or about the execution, completion or maintenance of the works and includes (without thereby limiting the foregoing definitions) all temporary erections, scaffolding, ladders, timbering, soaking vats, site offices, cement and other godowns, platforms and bins for stacking building materials, gantries, temporary tracks and roads, temporary culverts and mixing platforms.
- 3.8. **"Extra Works"** means those works required by the Engineer for completion of the Contract which were not specifically and separately included in the schedule of items of works (i.e., Bills of Quantities) of the tender. "Excess Works" means the required quantities of work in excess of the provision made against any item of the Bill of Quantities.
- 3.9. **"Specifications"** means the relevant and appropriate Bureau of Indian Standard's Specifications (latest revisions) for materials and workmanship unless stated otherwise in the Tender.
- 3.10. **"Drawings"** means the drawings referred to in the Tender and specification and any modification of such drawings approved in writing by the Engineer and such other drawings as may from time to time be furnished or approved in writing by the Engineer.
- 3.11. **"Contract"** means and includes the General and Special Conditions of Contract, Specifications, Drawings, priced Bill of Quantities, the Tender/ Offer, the letter of acceptance of the Tender/Offer, the Contract Agreement if separately entered into and the Schedule of Rates and Price, if any, adopted by the Trustees at their discretion.
- 3.12. **"Constructional Plant"** means all appliances or things of whatsoever nature required in or about the execution, completion or maintenance of the works or temporary works and includes (without thereby limiting the foregoing definition) all machinery and tools but does not include materials or other things intended to form or forming part of the permanent work.

- 3.13. **"Site"** means the land and other places, on, under, in or through which the works are to be executed or carried out and any other lands or places provided by the Trustees for the purpose of the Contract.
- 3.14. **"Contract Price"** means the sum named in the letter of acceptance of the Tender/ Offer of the Contractor, subject to such additions thereto and deduction there from as may be made by the Engineer under the provisions here-in-after contained.
- 3.15. **"Month"** means English Calendar Month.
- 3.16. **"Excepted risks"** are riot in so far as it is uninsurable, war, invasion, act of foreign enemies, hostilities (whether war be declared or not) Civil War, rebellion, revolution, insurrection or military or usurped power or use or occupation by the Trustees of any portion of the works in respect of which a certificate of completion has been issued (all of which are herein collectively referred to as the excepted risks)
- 3.17. Word importing the **singular** only, also includes the **plural** and vice-versa where the context so required.
- 3.18. The **headings and marginal notes** in these General Conditions of Contract shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
- 3.19. Unless otherwise stipulated the word "Cost" shall be deemed to include overhead costs of the contractor, whether on or off the site.

#### 4. DUTIES & POWERS OF ENGINEER & ENGINEER'S REPRESENTATIVE

- 4.1. The Contractor shall execute, complete and maintain the works in terms of the contract to the entire satisfaction of the Engineer and shall comply with the Engineer's direction on any matter whatsoever.
- 4.2. The Contractor shall take instructions from the Engineer and subject to limitation of Clause 2.5 herein, from the Engineer's Representative
- 4.3. The Engineer shall have full power and authority
  - (a) to supply to the contractor from time to time during the progress of the works such further drawings and instructions as shall be necessary for the purpose of proper and adequate execution and maintenance of the works and the contractor shall carry out and be bound by the same.
  - (b) to alter or modify the specification of any material and workmanship and to inspect the work at any time.
  - (c) to order for any variation, alternation and modification of the work and for extra works.
  - (d) to issue certificates as per contract
  - (e) to settle the claims & disputes of the Contractor and Trustees, as the first referee.
  - (f) to grant extension of completion time.
- 4.4. The Engineer's representative shall:
  - (a) watch and supervise the works,
  - (b) test and examine any material to be used or workmanship employed in connection with the work.
  - (c) have power to disapprove and material and workmanship not in accordance with the contract and the contractor shall comply with his direction in this regard.
  - (d) take measurements of work done by the contractor for the purpose of payment or otherwise.
  - (e) order demolition of defectively done work for its reconstruction all by the Contractor at his own expense,
  - (f) have powers to issue alteration order not implying modification design and extension of completion time of the work and
  - (g) have such other powers and authorities vested in the Engineer, which have been delegated to him in writing by the Engineer under intimation to the Contractor.
- 4.5. Provided always that the Engineer's Representative shall have no power:
  - (a) to order any work involving delay or any extra payment by the Trustees,
  - (b) to make variation of or in the works and
  - (c) to relieve the Contractor of any of his duties or obligations under the Contract.
- 4.6. Provided also as follows:
  - (a) Failure of Engineer's Representative to disapprove any work or materials shall not prejudice the power of the Engineer thereafter to disapprove such work or materials and to order the pulling down, removal, braking-up thereof and re-construction at the tractor's cost and the contractor shall have no claim to compensation for the loss sustained by him.

- (b) If the contractor shall be dissatisfied by reason of any decision of the Engineer's Representative, he shall be entitled to refer the matter to the Engineer who shall thereupon confirm, reverse or vary such decision.
- (c) Any written instructions or written approval given by the Engineer's Representative the contractor, within the terms of delegation of power and authority vested in Engineer to his Representative in writing shall bind the contractor and the Trustees as though it had been given by the Engineer, who may from time to time make such delegation. Contractor and the Trustees as though it had been given by the Engineer, who may from time to time, make such delegation.

## 5. THE TENDER / OFFER AND ITS PRE-REQUISITES

5.1. The Contractor shall, before making out and submitting his tender / offer be deemed to have inspected and examined the site, fully consider all factors, risks and contingencies, which will have direct and in direct impact on his expenses and profit from the work and shall be specifically deemed to have taken the following aspects into consideration:

- (a) The form and nature of the site and its surroundings including their sub-surface, ydrological, tidal and climate conditions, the means of access to the site and all her local conditions including the likely charges and costs for temporary way- leave, if any, required for the work.
- (b) The drawings, specifications, the nature and extent of work to be executed and the quality, quantity and availability of the required materials and labour for the work and the need to execute the work to the entire satisfaction of the Engineer, ad also by complying with the General and Special Conditions of Contract.
- (c) The accommodation required for the workmen and site office, mobilization / demobilization and storage of all plant, equipment and Construction materials.
- (d) The sources and means of procurement of water for drinking, washing and execution of work, and source and availability of electrical power, all of Contractor's cost.
- (e) Payment of taxes and duties and compliance of all applicable statues, ordinances and law together with the rules made there under, the rules, regulations and bye-laws of public bodies or any local or other authority by the Contractor, keeping the Trustees indemnified against penalties and liabilities of every kind arising from the Contractor's failure in such compliance.
- (f) Payment of all kinds of stamp-duty for exacting the agreement or for any legal instrument including Bank Guarantees and Indemnity Bonds.

5.2. The Contractor's tender shall be in ink on the Tender Forms supplied by the Trustees, unless stipulated otherwise in the Notice-Inviting the Tender and shall be faultless in figures and free from erasing. Corrections, if any, shall only be made by scoring out and initialing of the revised figure.

5.3. If required by the Engineer or the Trustees, the Contractors in their tender or subsequently, shall disclose the names of their owners/partners/Share Holders at the required points of time. The failure in this regard shall be treated as a breach and a contract, if entered into, shall be liable to be cancelled.

5.4.

4. Unless other wise stipulated in the Notice Inviting the Tender/Offer, every tender must be submitted with Earnest Money of the amount calculated as per the following scale.

Estimated Value	Amount of Earnest Money	
	For works contract.	For contract of supplying materials of equipment only
Up to Rs.1,00,000/-	5% of the estimated value of work	1% of the estimated value of work.
Over Rs. 1,00,000/-	2% of the estimated value of work subject to a maximum of Rs.20,000/- and minimum of Rs. 5,000/-	1/2% of the estimated value of work subject to a maximum of Rs. 10,000/- and minimum of Rs. 1,000/-

5. Earnest Money shall be deposited with Trustees' treasurer in cash or by Banker's Cheque of any Kolkata Branch of a Nationalized Bank of India drawn in favour of Kolkata Port Trust or in the

form of an "Kolkata Port Trust" and payable at Kolkata / Haldia Holding as the case may be and the receipt granted there for be kept attached to the Tender / offer in the Sealed Cover.

6. Earnest Money of un-accepted tender shall be refunded without any interest through A/c. Payee Cheque drawn on a Nationalized Bank of Kolkata / Haldia.
7. The enlisted (registered) Contractors of the Trustees, who have deposited fixed Security with the Trustees FA & CAO / Manager (Finance) according to his Class of Registration, shall be exempt from depositing the Earnest Money, as per the following scale:

Class of Registration	Amount of Fixed Security	Financial limit of each tender
A	Rs. 10,000/-	Any tender priced up to Rs. 2,00,000/-
B	Rs. 5,000/-	Any tender priced up to Rs.1,00,000/-
C	Rs. 2,500/-	Any tender priced up to Rs.50,000/-

8.
  - (i) Tender submitted without requisite Earnest Money may be liable to rejection.
  - (ii) If before expiry of the validity period of his Tender / offer, the tender amends his quoted rates or tender/ offer making them unacceptable to the Trustees and / or withdraws his tender / offer, the Earnest Money deposited shall be liable to forfeiture of the option of the Trustees.
9. The Earnest Money of accepted Tender / offer shall be retained by the Trustees as part of the Security Deposit, for which a separate Treasury Receipt shall be issued to the Contractor after cancellation of the previous Receipt of Earnest Money.
10. Balance security for works contract shall be recovered by deduction from all progressive Bill (including final Bill, if necessary) @ 10% of the gross value of work in each such bill, so that the total recovery may not exceed the quantum computed as per the under noted percentages of the total value of work actually done up to the stage of completion.

Value of Work	% of Security Deposit for works contract	% of Security Deposit for Contract of supplying materials and equipments only
For works up to Rs. 10,00,000/-	10% (Ten percent )	1% ( One percent )
For works costing more than Rs.10,00,000/- and up to Rs.20,00,000/-	10% on first Rs. 10,00,000/- + 7 1/2% on the balance	1% on first Rs.10,00,000/-+1/2% on the balance
For works costing more than Rs.20,00,000/-	10% on first Rs. 10,00,000/- + 7 1/2% on next Rs.10,00,000/- + 5% on the balance	1% on first Rs.10,00,000/-+1/2% on next Rs.10,00,000/-+ 1/4% on the balance

11. Balance Security for Contract of supplying materials and equipment computed in terms of the percentages given above, shall have to be deposited with the trustees' Treasurer in advance and within 30 days from the date of placement of supply order, either in cash or by A/c. Payee Draft of a Nationalized Bank of India drawn in favour of Kolkata Port Trust and payable at Kolkata / Haldia, as the case may be.
12. No interest shall be paid by the trustees to the Tenderer / Contractor on the amount of Earnest Money / Security Deposit held by the Trustees, at any stage.

5.5 (i) The Security Deposit shall be refunded to the Contractor in terms of Clause 9.3 hereinafter and subject to deduction, if any, under the provision of Sub-Clause 3.5(ii) herein below. If, however, the contract provides for any maintenance period, 50% of the Security Deposit may be refunded against any of the Treasury Receipt for that amount on expiry of half of the maintenance period and the balance deposit on the said maintenance period and after the Engineer has certified the final completion of work in form G.C.2 and the Contractor has submitted his "No Claim" Certificate in form G.C.3.

(ii) The Security Deposit/Earnest Money may be liable to forfeiture at the option of the Trustees, if the Contractor fails to carry out the work or to perform/observe any of the conditions of the contract. The Trustees shall also be at liberty to deduct any of their dues from the Security Deposit, fixed Security, Earnest Money or from any sum due or to become due to the Contractor under any other contract.

5.6 If stipulated in the contract as a Special Condition, the Contractor shall have to submit to the Engineer a performance Bond in the form of an irrevocable guarantee from Kolkata/Haldia Branch, as the case may be, of any Nationalized Bank of India in the proforma annexed hereto and for the sum and period as mentioned in the letter of acceptance of the Tender/Offer, within 15 days from the date of such letter, failing which the contract shall be liable to be terminated and the Earnest Money are liable to forfeiture; all at discretion of the Engineer. The cost of obtaining this or any other Bank Guarantee and/or the revalidation thereof, wherever required, has to be borne by the Contractor and it shall be his sole responsibility to arrange for timely revalidation of such bank guarantee, failing which and for non-fulfillment of any contractual obligation by the Contractor, the Engineer and/or the Trustees shall be at liberty to raise claim against the Guarantee and/or enforce the same unilaterally.

## **6. THE CONTRACT & GENERAL OBLIGATIONS OF CONTRACTOR**

- 6.1 (a) The contract documents shall be drawn-up in English language.  
(b) The contract shall be governed by all relevant Indian Acts as applicable only within the jurisdiction of the High Court at Kolkata, India, including the following Act:
1. The Indian Contract Act, 1872.
  2. The Major Port Trust, Act, 1963.
  3. The Workmen's Compensation Act, 1923.
  4. The Minimum Wages Act, 1948.
  5. The Contract Labour (Regulation & Abolition) Act, 1970.
  6. The Dock Workers' Act, 1948.
  7. The Indian Arbitration Act (1940) (in the case of a definite arbitration Agreement only).
- 6.2. After acceptance of his Tender / Offer and when called upon to do so by the Engineer or his representative, the Contractor shall, at his own expense, enter into and execute a Contract Agreement to be prepared by him in the form annexed hereto. Until such Contract Agreement is executed the other documents referred to in the definition of the term "Contract" here-in-before shall collectively be the Contract.
- 6.3. Several documents forming the contract are to be taken as mutually explanatory of one another. Should there be any discrepancy, ambiguity, omission or error in the various contract documents, the Engineer shall have the power to correct the same and his decision shall be final and binding on the parties to the Contract.
- 6.4. Two copies of the Drawing referred to in the General and Special Conditions of Contract and in the Bill of Quantities, shall be furnished by the Engineer to the Contractors free of cost for his use on the work, but these shall remain the property of the Trustees and hence, the Contractor shall return them to the Engineer or his Representative on completion of the work. if not torn or mutilated on being regularly used at site.
- 6.5. The Contractor shall prove and make at his own expense any working or progress drawings required by him or necessary for the proper execution of the works and shall, when required, furnish copies of the same free of cost to the Engineer for his information and/ or approval, without meaning thereby the shifting of Contractor's responsibility on the engineer in any way whatsoever.
- 6.6. The Contractor shall not directly or indirectly transfer, assign or sublet the Contract or any part thereof without the written permission of the engineer. Even if such permission be granted, the Contractor shall remain responsible (a) for the acts, defaults and neglect of any sub-contractor, his agents servants or workmen as fully as if these were the acts, defaults or neglects of the Contractor himself or his agents, servants or workmen, and (b) for his full and entire responsibility of the contract and for active superintendence of the works by him despite being sublet, provided always that the provision of laborer on a "piece rate" basis shall not be deemed to be subletting under this clause.
- 6.7. Unless otherwise specified, the Contractor shall be deemed to have included in his Tender / Offer all his cost for supplying and providing all constructional plant, temporary work, materials both for temporary and permanent works, labour including supervision thereof transporting to and from the site and in and about the work, including loading, unloading, fencing, watching, lighting, payment of fees, taxes and duties to the appropriate authorities and other things of every kind required for the construction, erection, completion and maintenance of the work.
- 6.8. The Contractor shall be solely responsible for the adequacy, stability and safety of all site operations and methods of construction, even if any prior approval thereto has been taken from the Engineer or his Representative. The Contractor shall not be responsible for the correctness of the design or specification of the Temporary and Permanent works formulated by the Engineer; but the

- contractor shall be fully responsible for the correct implementation thereof as also for any design and specification prepared / proposed / used by the Contractor.
- 6.9. Whenever required by the Engineer or his Representative, the Contractor shall submit to him the details of his (a) programme for execution of the work, (b) proposed procedure and methods of work, (c) proposed deployment of plant, equipment labour, materials and temporary works. The submission to and/ or any approval by the Engineer or his Representative to any such programme or particulars, shall not relieve the Contractor of any of his obligations under the contract. If for any reason the contractor be unable to adhere to his earlier programme, he shall submit his revised programme for completion of work within the stipulated time whenever asked to do so.
- 6.10. Necessary and adequate supervision shall be provided by the Contractor during execution of the works and as long thereafter as the Engineer or his Representative shall consider necessary during the maintenance period. The Contractor or his competent and authorised agent or representative shall be constantly at site and instructions given to him by the Engineer or his Representative in writing shall be binding upon the Contractor subject to limitation in clause 2.5 hereof. The Contractor shall inform the Engineer or his Representative in writing about such representative/agent of him at site.
- 6.11. The Contractor shall employ in execution of the Contract only qualified, careful and experienced persons and the Engineer shall be at liberty to direct the Contractor to stop deployment of any of his staff, workmen or official at site and the Contractor shall within 48 hours comply with such instruction without any demur, whenever the Engineer shall feel that the deployment of the person concerned will not be conducive to the proper and timely completion of the work.
- 6.12. The Contractor shall be responsible for the true and proper setting-out of the works in relation to reference points/lines/levels given by the Engineer in writing. The checking of any setting-out or of any alignment or level by the Engineer or his Representative shall not in any way relieve the contractor of his responsibility for the correctness thereof and he shall fully provide, protect and preserve all stakes, templates, bench marks, sight rails, pegs, level marks, profile marks and other things used in setting-out the works.
- 6.13. From the commencement of the works till issue of the completion certificate in Form G.C.1, vide Clause 5.12 hereof, the contractor shall take full responsibility for the care thereof. Save for the excepted risks, any damage, loss or injury to the work or any part thereof shall be made good by the Contractor at his down cost as per instruction and to the satisfaction of the Engineer, failing which the Engineer or his Representative may cause the same to be made good by any other agency and the expenses incurred and certified by the Engineer, shall be recoverable from the Contractor in whatever manner the Engineer shall deem proper. This Clause will not apply to that part of the work, which might have been taken over by the Trustees on partial completion of the work and in such case the Contractor's obligation will be limited to repairs and replacement for manufacturing or construction defects during the Maintenance period (Guarantee Period) as per the directions of the Engineer as also for defects/ damages if any caused to the work by the Contractor during such repairs and replacement in the maintenance period.
- 6.14. The Contractor shall at his own cost protect, support and take all precautions in regard to the personnel or structure or services or properties belonging to the Trustees or not, which may be interfered with or affected or disturbed or endangered and shall indemnify and keep indemnified the Trustees against claim for injury, loss or damage caused by the Contractor in connection with the execution and maintenance of the work to the aforesaid properties, structures and services and/ or to any person including the Contractor's workmen. Cost of Insurance Cover, if any, taken by the Contractor shall not be reimbursed by the Trustees, unless otherwise stipulated in the Contract.
- 6.15. The Contractor shall immediately inform the Engineer's Representative if any fossil, coins, articles of value or antiquity and structures and other remains or things of geological or archaeological importance be discovered at site which shall remain the property of the Trustees and protect them from being damaged by his workmen and arrange for disposal of them at the Trustees expense as per the instruction of the Engineer's Representative.
- 6.16. The Contractor shall be deemed to have indemnified the Trustees against all claims, demands, actions and proceedings and all costs arising there from on account of:
- (a) Infringement of any patent right, design, trade-mark, or name or other protected right, in connection with the works or temporary work.
  - (b) Payment of all royalties, rent, toll charges, local taxes, other payments or compensation, if any, for getting all materials and equipment required for the work.
  - (c) Unauthorized obstruction or nuisance caused by the Contractor in respect of Public or Private road, railway tracks, footpaths, crane tracks, waterways, quays and other properties belonging to the Trustees or any other person.

- (d) Damage / injury caused to any highway and bridge on account of the movement of Contractor's plants and materials in connection with the work
  - (e) Pollution of waterway and damage caused to river, lock, sea-wall or other structure related to waterway, in transporting contractor's plants and materials.
  - (f) The Contractor's default in affording all reasonable facilities and accommodation as per the direction of the Engineer or his Representative to the workmen of the Trustees and other agencies employed by or with the permission and / or knowledge of the Trustees on or near the site of work.
  - (g) Debris and materials, if obtained by demolishing any properly, building or structure in terms of the Contract shall remain the property of the Trustees.
- 6.17. The Contractor's quoted rates shall be deemed to have been inclusive of the following:
- (a) Keeping the site free of unnecessary obstruction and removal from site of constructional plant wreckage, rubbish, surplus earth or temporary works no longer required.
  - (b) Cleaning and removal from site all the surplus materials of every kind to leave the site clean and tidy after completion of the work, without which payment against final bill may be liable to be withheld.
  - (c) Precautionary measures to secure efficient protection of Docks, the River Hooghly and other waterways against pollution of whatever nature during execution and maintenance of the works, and to prevent rubbish, refuse and other materials from being thrown into the water by the Contractor's men or those of his agency.
  - (d) Making arrangements for deployment of all labourers and workers, local or otherwise including payment for their wages, transport, accommodation, medical and all other statutory benefits and entry permits, wherever necessary.
  - (e) Making arrangements in or around the site, as per the requirements of Kolkata Municipal Corporation or other local authority or the Engineer or his Representative, for preventing (i) spread of any infectious disease like smallpox, cholera, plague or malaria by taking effective actions for destruction of rats, mice, vermin, mosquitoes etc. and by maintaining healthy and sanitary condition, (ii) illegal storage and distribution of Drugs, Narcotics, Alcoholic liquor, Arms and Ammunitions, (iii) unlawful, riotous or disorderly conduct of the Contractor's or his Sub-Contractor's workmen, (iv) deployment of workmen of age less than 16 years.
- 6.18. Every direction or notice to be given to the Contractor shall be deemed to have been duly served on or received by the Contractor, if the same is posted or sent by hand to the address given in the tender or to the Contractor's Site Office or in case of Trustee's enlisted Contractor to the address as appearing in the trustee's Register or to the Registered Office of the Contractor. The time mentioned in these conditions for doing any act after direction or notice shall be reckoned from the time of such posting or dispatch.
- 6.19. The Contractor and his sub-contractor or their agents and men and any firm supplying plant, materials, and equipment shall not publish or caused to be published any photographs or description of the works without the prior authority of the Engineer in writing.
- 6.20. The Contractor shall, at the Trustees' cost to be decided by the Engineer, render all reasonable facilities and Co-operation as per direction of the Engineer or his representative to any other Contractor engaged by the Trustees and their workmen, to the Trustees' own staff and to the men of other Public Body on or near the site of work and in default, the contractor shall be liable to the trustees for any delay or expense incurred by reason of such default.
- 6.21. The work has to be carried out by the Contractor causing the minimum of hindrance for any maritime traffic or surface traffic.
- 6.22. All constructional plants, temporary works and materials when brought to the site by the contractor, shall be deemed to be the property of the Trustees who will have a lien on the same until the satisfactory completion of the work and shall only be removed from the site in part or in full with the written permission of the Engineer or his Representative.

## **7. COMMENCEMENT, EXECUTION AND COMPLETION OF WORK**

- 7.1. The contractor shall commence the work within 7 days of the receipt of Engineer's letter informing acceptance of the Contractor's tender / offer by the Trustees or within such preliminary time as mentioned by the contractor in the Form of Tender or the time accepted by the Trustees. The contractor shall then proceed with the work with due expedition and without delay, except as may be expressly sanctioned or ordered by the Engineer or his Representatives, time being deemed the essence of the contract on the part of the Contractor.



- 7.2. The Contractor shall provide and maintain a suitable office at or near the site, to which the Engineer's Representative may send communications and instructions for use of the Contractor.
- 7.3. Unless specified otherwise in the contract or prior permission of the Engineer has been taken, the contractor shall not execute the work beyond the working hours observed by the Engineer's Representative and on Sundays and Holidays observed in the trustees system, except in so far as it becomes essential on account of tidal work or for safety of the work. If the progress of the work lags behind schedule or the work has been endangered by any act or neglect on the part of the contractor, then the Engineer or his Representative shall order and the contractor at his own expense shall work by day and by night and on Sundays and Public Holidays. Any failure of the Engineer or his Representative to pass such an order shall not relieve the contractor from any of his obligations. The Engineer's decision in this regard shall be final, binding and conclusive.
- 7.4. Unless stipulated otherwise in the contract, all materials required for the work shall be procured and supplied by the contractor with the approval of the Engineer or his Representative and subject to subsequent testing as may be required by the Engineer or his Representative. The engineer shall exercise his sole discretion to accept any such materials.
- 7.5. Unless stipulated otherwise, in the contract, all materials, workmanship method of measurement shall be in accordance with the relevant Codes (Latest Revision) of the Bureau of Indian Standards and the written instructions of the Engineer or his Representative. Where no specific reference is available in the contract, the materials and workmanship shall be of the best of their respective kinds to the satisfaction of the Engineer.
- 7.6. Samples shall be prepared and submitted for approval of the Engineer or his Representative, whenever required to do so, all at the contractor's cost.
- 7.7. Unless stipulated otherwise in the contract, the cost of any test required by the Engineer or his representative in respect of materials and workmanship deployed on the work shall be borne by the contractor.
- 7.8. Regarding the supply of any materials by the Trustees to the contractor in accordance with the contract, the following conditions shall apply:
- (a) The contractor shall, at his own expense, arrange for transporting the materials from the Trustees' Stores, watching, storing and keeping them in his safe custody, furnishing of statement of consumption thereof in the manner required by the Engineer or his representative, return of surplus and empty container to the Trustees' Stores as per the direction of the Engineer or his Representative.
  - (b) Being the custodian of the Trustees' materials, the contractor shall remain solely responsible for any such materials issued to him and for any loss or damage thereof for any reason other than "Excepted Risks", the contractor shall compensate the Trustees' in the manner decided by the Engineer and shall at no stage remove or cause to be removed any such material from the site without his permission.
  - (c) The Trustees' materials will generally be supplied in stages and in accordance with the rate of progress of work, but, except for grant of suitable extension of completion time of work as decided by the Engineer, the contractor shall not be entitled to any other compensation, monetary or otherwise, for any delay in the supply of Trustees' materials to him. The Contractor shall, however communicate his requirement of such materials to the Engineer from time to time.
  - (d) Unless stipulated otherwise in the contract, the value of the Trustees' materials issued to the contractor shall be recovered from the Contractor's bills and / any of his other dues. Progressively according to the consumption thereof on the work and / or in the manner decided by the Engineer or his Representative and at the rate / stipulated in the contract. These rates shall only be considered by the contractor in the preparation of his tender / offer and these will form the basis of escalation / variation, if in future the contractor is required to procure and provide any such material on the written order of the Engineer consequent on the Trustees' failure to effect timely supply thereof.
  - (e) If the Engineer decides that due to the contractor's negligence, and of the Trustees' materials issued to the contractor has been – (i) lost or damaged, (ii) consumed in excess of requirement, and (iii) wasted by the contractor in excess of normal wastage, then the value thereof shall be recovered from the contractor's bills or from any of his other dues, after adding 19 ¼% extra over the higher one of the followings—
    1. The issue rate of the materials at the Trustees' Stores, and
    2. The market price of the material on the date of issue as would be determined by the Engineer.
- 7.9. The Engineer or his Representative shall have the power to inspect any material and work at any time and to order at any time – (i) for removal from the site of any material which in his opinion is

not in accordance with the contract or the instruction of the Engineer or his Representative, (ii) for the substitution of the proper and suitable materials, or (iii) the removal and proper re-execution of any work, which in respect of material and workmanship is not in accordance with the contract or the instructions of the Engineer. The contractor shall comply with such order at his own expense and within the time specified in the order. If the contractor fails to comply, the Engineer shall be at liberty to dispose of such materials and re-do any work in the manner convenient to the Trustees by engaging any outside agency at the risk and expense of the contractor and after giving him a written prior notice of 7 days.

- 7.10. No work shall be covered up and put out of view by the contractor without approval of the Engineer or his Representative and whenever required by him the contractor shall uncover any part or parts of the work or make openings in or through the same as may be directed by the Engineer or his Representative from time to time and shall reinstate or make good those part of works thus affected to the satisfaction of the Engineer, all at the cost of the contractor. The Trustees shall reimburse such cost as determined by the Engineer, if the initial covering up was with prior written order of the Engineer or his Representative.
- 7.11. On a written order of the Engineer or his Representative the contractor shall delay or suspend the progress of the work till such time the written order to resume the execution is received by him. During such suspension the contractor shall protect and secure the work to the satisfaction of the Engineer or his Representative. All extra expenses in giving effect to such order shall be considered by the Trustees, unless such suspension is
1. Otherwise provide for in the contract, or
  2. Necessary by reason of some default on the part of the Contractor, or
  3. Necessary by reason of climatic conditions on the site, or
  4. Necessary for proper execution of the works or for the safety of the works or any part thereof. The Engineer shall settle and determine such extra payment and / or Extension of completion time to be allowed to the contractor, as shall, in the opinion of the Engineer, be fair and reasonable.

If at any time before or after commencement of the work the Trustees do not require the whole of the work tendered for, the Engineer shall notify the same to the contractor in writing and the contractor shall stop further works in compliance of the same. The Contractor shall not be entitled to any claim for compensation for underived profit or for such premature stoppage of work or on account of curtailment of the originally intended work by reason of alteration made by the Engineer in the original specifications, drawings, designs and instruction.

- 7.12. When the whole of the work has been completed to the satisfaction of the Engineer and has passed any final test prescribed in the contract, the contractor shall, within 21 days of submission of his application to the Engineer be entitled to receive from him a certificate for completion of work in Form G.C.1 annexed hereto. If any part of the total work having been completed to the satisfaction of the Engineer, be takeover and / or used by the Trustees the Contractor shall on application be entitled to partial completion certificate in the Form of G.C.1 indicating the portion of the work covered by it, so that the Contractor's liability during maintenance period of the contract, if any, shall commence from the date mentioned in such certificate so far as the completed portion of the work is concerned.

## **8. TERMS OF PAYMENT:**

- 8.1. No Sum shall be considered as earned by or due to the Contractor in respect of the work till final and satisfactory completion thereof and until a certificate of final completion in Form G.C.2 has been given by the Engineer. On account payments, if any, made prior to issue of the certificate in Form G.C.2, shall all be treated as mere advances, which shall stand recoverable in full or in part, if the Engineer so decides in the context of Contractor's unfulfilled contract condition, if any.
- 8.2. All payments shall be made to the Contractor on the basis of measurement of actual work done, as recorded in the Trustees' measurement books and at accepted tendered or at agreed rates, as the case may be except as otherwise provided in the contract and when the Engineer decided any other rate for change in the scope of work or omission, if any, on the part of the Contractor.
- 8.3. For work of sanctioned tender value more than Rs. 50,000/- or having an initially stipulated completion period of 4 months or more, on account payments may be made at the discretion of the Engineer or his Representative at intervals deemed suitable and justified by him. Provided always that, subject to execution of work of substantial value in the context of the contract price, the interval of such on account payments shall be decided by the Engineer or his Representative, which shall ordinarily not be less than 1 month in between two payments for on account bill and / or advance.

- 8.4. Measurement for works done shall be progressively taken by the Engineer's Representative and entered in the Trustees' Measurement Book, at intervals deemed suitable and proper by him and / or the Engineer. The Contractor or his duly accredited Representative or Agent shall remain present at the time of such measurement and assist the Engineer's Representative in every manner required by him. After the measurements taken have been entered in the Measurement Book, the Contractor or his Agent shall sign the Measurement Book at the end of such Measurements over the Contractor's Rubber Stamp as a taken of acceptance of all such measurements, recorded above and prior to such signature. If the Contractor or his Agent fails to participate even other 3 days written notice from the Engineer's Representative the measurement shall be taken ex-part by the Engineer's representative and those shall be accepted by the Contractor.
- 8.5. Based on the quantum of work and the value thereof computed in the Measurement Book, the Contractor shall type out his bill in the proforma approved by the Engineer and submit the same to the Engineer's Representative in quadruplicate, duly signed by him or his accredited Agent over his Rubber Stamp. The Engineer or his Representative may, in his absolute discretion, allow advance payment against such bill to the extent of an amount not exceeding 75% of the "net payable" sum of the said bill, subject to adjustment thereof against the bill at the time of checking and auditing the bill at the Trustees end., The measurement Book will not be handed over to the Contractor; but he will obtain the abstracts of quantities, amount and recoveries to type out the bill.
- 8.6. At the discretion of the Engineer or his Representative and only in respect of accepted offers/ where estimated amount put to tender would be Rs. 2,00,000/- or more, advance payment may be made to the extent of 75% of the value of any material purchased and brought to the site by the Contractor. Provided always that—
  - i. The materials shall, in the opinion of the Engineer or his Representative, be of imperishable nature.
  - ii. The value of such materials shall be assessed by the Engineer or his Representative, at their own discretions,
  - iii. A formal agreement has been drawn up with the contractor, under which the Trustees secure a lien on the contractor's materials.
  - iv. The materials are safe-guarded by the contractor against losses, shortage and misuse due to the contractor postponing the execution of the work or otherwise,
2. In the event of shortage of such materials within the Trustees' protected areas in the Docks, the contractor shall submit an indemnity Bond in the proforma and manner acceptable to Trustee' whereby the contractor shall indemnify the Trustees' against all financial loss/ damage, on account of loss/ damage to such materials for whatever reasons.
3. In the event of storage of such materials outside the Trustees' protected areas the Contractor shall submit to the Engineer an irrevocable Bank Guarantee favouring the Trustees and for the same sum as is being advance, in the proforma and manner acceptable to the Trustees. The Guarantee shall be of a Kolkata / Haldia Branch of any Nationalised Bank or a Scheduled Commercial bank, as the case may be, acceptable to the Trustees and shall remain valid till the anticipated period of consumption of such materials in the work. The Bank Guarantee must bear an undertaking by the issuing Bank guaranteeing automatic payment of the guaranteed sum to the Trustees by the Bank on the date of expiry of the validity of the Guarantee, unless with the prior written approval of the Engineer on behalf of the Trustees, the Bank has extended the validity of the Guarantee.
4. The amount of advance shall be recoverable from the contractor's bills or any other dues, progressively with the consumption of the materials on the basis of quantity consumed. Consequent on full recovery of the advance the Indemnity Bond / Bank Guarantee, vide sub-clause (v) & (vi) above, shall be returned to the Contractor duly discharged by the Engineer on behalf of the Trustees.
- 8.7. No Certificate of the Engineer or his Representative shall protect the Contractor against or prevent the Trustees from obtaining repayment from the Contractor, in case the Engineer or his Representative should over certify for payment or the Trustees should over-pay the Contractor on any account.
- 8.8. No claim for interest shall be admissible to the Contractor at any stage and in respect of any money or balance or Bank Guarantee, which may be due to the Contractor from the Trustees, owing to

dispute or otherwise or for any delay on the part of the Trustees in making interim or final payment or otherwise.

## **9. VARIATION AND ITS VALUATION:**

- 9.1. The Quantities set out in the Bill of Quantities of the tender shall be treated as estimated quantities of the work and shall never be deemed as actual or correct quantities of the works to be executed by the contractor in fulfillment of his obligation under the contract.
- 9.2. The Engineer shall have the power to order the Contractor in writing to make any variation of the Quantity, quantity or form of the works or any part thereof that may, in his opinion, be necessary and the Contractor upon receipt of such an order shall act as follows:
  - a) Increase or decrease the quantity of any work included in the contract.
  - b) Omit any work included in the contract.
  - c) Change the Character or quality or kind of any work included in the contract.
  - d) Change the levels, lines, position and dimensions of any part of the work, and
  - e) Execute extra and additional work of any kind necessary for completion of the works.
- 9.3. No such variation shall in any way vitiate or invalidate the contract or be treated as revocation of the contract, but the value (if any) of all such variations evaluated in accordance with the Engineer's sole decision shall be taken into account and the contract price shall be varied accordingly.
- 9.4. Provided always that written order of the Engineer shall not be required for increase or decrease in the quantity of any work up to 15% where such increase or decrease is not the result of any variation order given under this clause but is the result of the quantities exceeding or being less than those stated in the bill of quantities. Provided also that verbal order of variation from the Engineer shall be complied with by the Contractor and the Engineer's subsequent written confirmation of such verbal order shall be deemed to be an order in writing within the meaning of this clause.
- 9.5.
  - a) The Contractor shall not be entitled to any claim of extra or additional work unless they have been carried out under the written orders of the Engineer.
  - b) The Engineer shall solely determine the amount (if any) to be added to or deducted from the sum named in the tender in respect of any extra work done or work omitted by his order.
  - c) All extra, additional or substituted work done or work omitted by order of the Engineer shall be valued on the basis of the rates and prices set out in the contract, if in the opinion of the Engineer, the same shall be applicable. If the contract does not contain any rates or prices directly applicable to the extra additional or substituted work, then the Engineer may decide the suitable rates on the basis of Schedule of Rates (including surcharge in force at the time of acceptance of tender), if any, adopted by the Trustees with due regard to the accepted contractual percentage, if any thereon. In all other cases the Engineer shall solely determine suitable rates in the manner deemed by him as fair and reasonable, and his decision shall be final, binding and conclusive.
  - d) If the nature or amount of any omission or addition relative to the nature or amount of the whole of the contract work or to any part thereof shall be such that, in the opinion of the Engineer, the rate of prices contained in the contract for any item of the works or the rate as evaluated under sub-clauses (b) and (c) of this clause, is by reason of such omission or addition rendered unreasonable or in-applicable the Engineer shall fix such other rate or price as he deems proper and the Engineer's decision shall be final, binding and conclusive.

## **10. DELAY / EXTENSION OF COMPLETION TIME / LIQUIDATED DAMAGE / TERMINATION OF CONTRACT**

- 10.1. Should the quantum of extra or additional work of any kind or delayed availability of the Trustees' materials to be supplied as per contract or exceptionally adverse climatic conditions and natural phenomenon or strikes, lock-outs, civil commotions or other special circumstances of any kind beyond the control of the Contractor cause delay in completing the work, the contractor shall apply to the Engineer in writing for suitable extension of completion time within 7 days from the date of occurrence of the reason and the Engineer shall thereupon consider the stated reasons in the manner deemed necessary and shall either reject the application or determine and allow in writing the extension period as he would deem proper for completion of the work, with or without the

imposition of "Liquidated Damaged" Clause (No.8.3hereof) on the Contractor and his decision shall be binding on the contractor. If an extension of completion time is granted by the Engineer, the clause No.8.3 of the Liquidated damage shall apply from its date of expiry, if the work be not completed within the extended time, unless stated otherwise in the decision communication by the Engineer, as aforesaid.

- 10.2. a) If the Contractor fails to complete the work within the stipulated dates or such extension thereof as communicated by the Engineer in writing, the contractor shall pay as compensation (Liquidated Damage) to the Trustees and not as a penalty, ½ % (half percent) of the total value of work (contract price) as mentioned in the latter of acceptance of the tender/offer, for every week or part thereof the work remains unfinished. Provided always that the amount of such compensation shall not exceed 10% the said value of work.
- b) Without prejudice to any of their legal rights, the Trustees shall have the power to recover the said amount of compensation / damage in Sub-Clause (a) of this clause, from any money due or likely to become due to the contractor. The payment or deduction of such compensation /damage shall not relieve the Contractor from his obligation to complete the work or from any of his other obligations / liabilities under the contract and in case of the Contractor's failure and at the absolute discretion of the Engineer, the work may be ordered to be completed by some other agency at the risk and expense of the Contractor, after a minimum three days notice in writing has been given to the contractor by the Engineer or his Representative.
- 10.3. Without being liable for any compensation to the Contractor, the Trustees may, in their absolute discretion, terminate the contract due to occurrence of any of the following reasons and decision of the Trustees in this respect, as communicated by the Engineer shall be final and conclusive :
  - (i) The Contractor has abandoned the contract.
  - (ii) In the opinion of the Engineer, either the performance of the Contractor is not satisfactory or the work is not getting completed within the agreed period on account of Contractor's lapses.
  - (iii) The Contractor has failed to commence the work or has without any lawful excuse under these conditions, has kept the work suspended despite receiving the Engineer's or his Representative's written notice to proceed with the work.
  - (iv) The Contractor has failed to remove materials from site after receiving from the Engineer or his Representative the written notice stating that the said materials or work are rejected by him.
  - (v) The Contractor is not executing the work in accordance with the contract or is persistently or flagrantly neglecting to carry out his obligations under the contract.
  - (vi) Any bribe, commission, gift or advantage is given, promised or offered by or on behalf of the contractor to any officer, servant or representative of the Trustees or to any person on his or their behalf in relation to the obtaining or to the execution of the contract.
  - (vii) The Contractor is adjudged insolvent or enters in to composition with his creditors or being a company goes in to liquidation either compulsorily or voluntarily.
1. Upon receipt of the letter of termination of work, which may be issued by the Engineer on behalf of the Trustees, the Contractor shall hand over all the Trustees' tools, plant and materials issued to him at the place to be ascertained from the Engineer, within 7 days of receipt of such letter.
2. In all such cases of Termination of work, the Trustees shall have the power to complete the Work through any other agency of the Contractor's risk and expense and the Contractor shall be debited any sum or sums that may be expended in completing the work beyond the amount that would have been due to the contractor, had he duly completed the whole of the work in accordance with the contract.
3. Upon termination of contract, the contractor shall be entitled to receive payment of only 90 % of the value of the work actually done or materials actually supplied by him and subject to recoveries as per contracts, provided the work done and materials conform to specifications at the time of taking over by the Trustees. The payment for work shall be based on measurements of actual work done and priced at approved contract rates or other rates, as decided by the Engineer. The payment for materials supplied shall be at the rates as decided by the Engineer, which shall in no case be more than market rates prevailing at the

time of talking over by the Trustees. The Engineer's decision in all such case shall be final, binding and conclusive.

4. The Trustees shall have the power to retain all moneys due to the Contractor until the work is completed by other agency and the Contractor's Liabilities to the Trustees and known in all respect.

## **11. MAINTENANCE AND REFUND OF SECURITY DEPOSIT**

- 11.1. On completion of execution of the work the contractor shall maintain the same for a period, as may be specified in the form of a Special Condition of the Contract, from the date mentioned in the initial Completion Certificate in the Form G.C.1. Any defect / fault, which may appear in the work during aforesaid maintenance period, arising, in the sole opinion of the Engineer or his Representative, from materials or workmanship not in accordance with the contract or the instruction of the Engineer or his Representative, shall, upon the written notice of the Engineer or his Representative, be amended and made good by the Contractor at his own cost within seven days of the date of such notice, to the satisfaction of the Engineer or his Representative, failing which the Engineer or his Representative shall have the defects amended and made good through other agency at the Contractor's risk and cost and all expenses, consequent thereon or incidental thereto, shall be recoverable from the Contractor in manner deemed suitable by the Engineer.
- 11.2. The Contract shall not be considered completed and the work shall not be treated as finally accepted by the Trustees, until a final Completion Certificate in form G.C. 2 annexed hereto shall have been signed and issued by the Engineer to the contractor after all obligations under the Contract including that in the maintenance period, if any, have been fulfilled by the Contractor. Previous entry on the works or taking possession, working or using thereof by the trustees shall not relieve the Contractor of his obligations under the contract for full and final completion of the work.
- 11.3. On completion of the contract in the manner aforesaid, the Contractor may apply for the refund of his Security Deposit by submitting to the Engineer (i) The Treasury Receipts granted for the amount of Security held by the Trustees, and (ii) his "No further claim" Certificate in form G.C.3 annexed hereto (in original), where upon the Engineer shall issue Certificate in form G.C.2 and within two months of the Engineer's recommendation, the Trustees shall refund the balance due against the Security Deposit to the Contractor, after making deduction there from in respect of any sum due to the Trustees from the Contractor.

## **12. INTERPRETATION OF CONTRACT DOCUMENTS , DISPUTES & ARBITRATION**

- 12.1. In all disputes, matters , claims , demands or questions arising out of or connected with the interpretation of the Contract including the meaning of Specifications and Instructions or as to the quality of workmanship or as to the materials used in the work or the execution of the work whether during the progress of the work or after the completion and whether before or after the determination , abandonment or breach of the contract the decision of the Engineer shall be final and binding on all parties to the contract and shall forthwith be given effect to by the Contractor .
- 12.2. If, the Contractor be dissatisfied with any such decision of the Engineer, he shall within 15 days after receiving notice of such decision require that the matter shall be referred to Chairman, who shall thereupon consider and give a decision.
- 12.3. If , however , the contractor be still dissatisfied with the decision of the Chairman , he shall, within 15 days after receiving notice of such decision required that within 60 days from his written notice , the Chairman shall refer the matter to an Arbitrator of the panel of Arbitrators to be maintained by the Trustees for the purpose and any such reference shall be deemed to be a submission to arbitration within the meaning of Indian Arbitration Act , 1940 or any statutory modification thereof .
  1. If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another person from panel shall be appointed as Sole Arbitrator and he shall proceed from the stage at which it was left by his predecessor.
  2. The Arbitrator shall be deemed to have entered on reference on the date he issues notice to both the parties fixing the date of first hearing.
  3. The time limit within which the Arbitrator shall submit his award shall normally be 4 months as provided in Indian Arbitration Act, 1940 or any amendment thereof. The Arbitrator may, if found necessary, enlarge the time for making and publishing the award, with the consent of the parties.

4. The Venue of the arbitration shall be Kolkata or as may be fixed by the Arbitrator in his sole discretion. Upon every or any such reference to cost of any incidental to the reference and award respectively shall be in discretion of the Arbitrator who may determine, the amount thereof or by whom and to whom and in what manner the same shall be borne and paid .
  5. The Award of the Arbitrator shall be final and binding on all parties subject to the provisions of the Indian Arbitration Act, 1940 or any amendment thereof. The Arbitrator shall give a separate award in respect of each item of disputes and respective claim referred to him by each party and give reason for the award.
  6. The Arbitrator shall consider the claims of all the parties to the contract within only the parameters of scope and conditions of the contract in question.
  7. Save as otherwise provided in the contract the provisions of the Arbitration Act, 1940 and rules made there under, for the time being in force, shall apply to the arbitration proceedings under this Clause.
- 12.4. The Contractor shall not suspend or delay the work and proceed with the work with due diligence in accordance with Engineer's decisions. The Engineer also shall not withhold any payment, which, according to him, is due or payable to the Contractor, on the ground that certain disputes have cropped up and are likely to be referred to arbitration.
- 12.5. Provided always as follows:
- (a) Nothing of the provisions in paragraphs 8.3 to 8.3.7 hereinabove would apply in the case of contracts , where tendered amount appearing in the letter of acceptance of the tender / offer is less than Rs.40,00,000/-.
  - (b) The Contractor shall have to raise disputes or differences of any kind whatsoever in relation to the execution of the work to the Engineer within 30 days from the date of occurrence of the cause of dispute and before the preparation of the final bill, giving detailed justifications, in the context of contract conditions.
  - (c) Contractor's dispute, if any, arising only during the maintenance period stipulated in the contract, must be submitted to the Engineer, with detailed justifications in the context of contract Conditions, before the final completion of the work.
- No dispute or difference on any matter whatsoever, pertaining to the contract can be raised by the contractor after the completion of the work.
- (d) Contractor's claim / dispute raised beyond the time limits prescribed in sub- clauses 8.5(b) and 8.5(c) hereinabove, shall not be entertained by the Engineer and / or by any Arbitrator, subsequently.
  - (e) The Chairman / Trustees shall have the right to alter the panel of Arbitrators on their sole discretion, by adding the names of new Arbitrators and / or by deleting the names of existing Arbitrators, without any reference to the Contractor.

**THE BOARD OF TRUSTEES FOR THE PORT OF KOLKATA**

**FORM OF TENDER**

**CONTRACT NO.....**

To,

.....  
.....  
.....

I/We ..... of

.....

having examined the site of works, inspected the Drawings and read the Specifications, General and Special Conditions of Contract and Conditions of Tender, hereby tender and undertake to execute and complete all the works required to be performed in accordance with the Specification, Bill of Quantities, General & Special Conditions of Contract and Drawings prepared by or on behalf of the Trustees and at the rates and prices set out in the annexed Bill of Quantities with ..... month/week from the date of the order to commence the work and in the event of our Tender being accepted in full or in part, I/We also undertake to enter into a Contract Agreement in the Form hereto annexed with such alterations or additions thereto which may be necessary to give effect the acceptance of the Tender and incorporating such Specification, Bill of Quantities, Drawings and Special & General Conditions of Contract and I/We hereby agree that until such Contract Agreement is executed the said Specifications, Bill of Quantities, Conditions of Contract and the Tender, together with the acceptance thereof in writing by or on behalf of the Trustees shall be the Contract.

**THE TOTAL AMOUNT OF TENDER Rs .....**

(Repeat in words).....

.....

\*I/We require ..... days/months preliminary time to arrange and procure the materials required by the work from date of acceptance of the Tender before I/We could commence the Work.



(\* This should be scored out in the case of labour contracts)

I/We have deposited with the Trustees' Financial Advisor & Chief Accounts Officer / Manager (Finance), Haldia Dock Complex vide Receipt No ..... of ..... as Earnest Money.

I/We agree that period for which the Tender shall remain open for acceptance shall not be less than four months.

Signature of the Tenderer

Witness:

(Seal of the Tenderer)

Signature .....

Name of the Tenderer .....

Name .....

(In Block Letters)

(In Block Letters)

Address .....

Dated .....

.....

Address .....

Occupation .....

.....

**THE BOARD OF TRUSTEES FOR THE PORT OF KOLKATA**

**FORM OF AGREEMENT**

THIS AGREEMENT made this .....day of.....20.....between the Board of Trustees for the Port of Kolkata, a body corporate constituted by the Major Port Trusts Act, 1963 (hereinafter called "Trustees" which expression shall unless excluded by or repugnant to the context be deemed to include their successors in office) of the one part and .....(hereinafter called " the Contractor ", which expression shall unless excluded by or repugnant to the context be deemed to include its heirs, executors, administrators, representatives and assignees or successors in office) of the other part.

WHEREAS the Trustees are desirous that certain works should be executed / constructed , viz. ....and have accepted a Tender / Offer by the Contractor for the execution and maintenance of such work NOW THIS AGREEMENT WITNESSETH as follows :

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in General Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.
  - (a) The said Tender / Offer & the acceptance of the Tender / Offer
  - (b) The General Conditions of Contract
  - (c) The Special Conditions of Contract
  - (d) The Conditions of Tender
  - (e) The Technical Specifications
  - (f) The Schedule of Rates
  - (g) The Terms of Payment
  - (h) All correspondence by which, the contract is added, amended, varied or modified in any way by mutual consent.
3. In consideration of the payments to be made by the Trustees to the Contractor as hereinafter mentioned , the Contractor hereby covenant with the Trustees to execute and maintain the work in conformity in all respects with the provisions of the contract.

4. The Trustees hereby covenants to pay to the Contractor, in consideration of such execution and maintenance of the Work, the Contract Prices at the times and in the manner prescribed by the Contract.

IN WITNESS whereof of the parties hereto have caused their respective Common Seals to be hereunto affixed (or have hereunto set their respective hands and seals) the day and year first above written.

The Seal of.....  
.....

Was hereunto affixed in the presence of:

Name .....  
Address .....  
.....

Or

**SIGNED, SEALED AND DELIVERED**

by the said .....

*In the presence of:*

Name .....  
Address: .....  
.....

*The Common Seal of the Trustees was hereunto affixed in the presence of:*

Name.....  
Address: .....

**KOLKATA PORT TURST**

**FORM G.C.1**

Contract .....

Address .....

.....

Date of Completion .....

Dear Sir/s,

This is to certify that the following works viz.

Name of the Work.....

Estimate Number E.E.O .....dt .....

C.E.O .....dt .....

Work Order Number .....

Allocation .....

Contract Number .....

Which was carried out by you is in the opinion of the undersigned completing in every respect on the ..... Day of .....20..... in accordance with clause 62 of the General Conditions of Contract and under the provisions of the Contract for a period of ..... Days /weeks / months / years.

From the ..... day of ..... 20 .....

of the ..... day of ..... 20 .....

Signature (.....)  
(Engineer / Engineer's Representative)

Name.....

Designation.....

Office Seal

c.c. to The Deputy Chief Engineer ( )  
The Deputy Manager ( )  
Financial Adviser & Chief Accounts Officer/  
Manager (Finance), Haldia Dock Complex.

**KOLKATA PORT TURST**

**FORM G.C.2**

The Financial Adviser & Chief Accounts Officer.

The Manager (finance), Haldia Dock Complex.

**CERTIFICATE OF FINAL COMPLETION**  
This is to certify that the following works viz.

Name of Work .....

Estimate No. E.E.O. No. .... dt .....

C.E.O. No .....dt .....

Work Order No .....dt .....

Contract No .....

Resoln. No & Meeting No .....

Allocation .....

Which was carried out by Shri / Messrs.....is now complete in every respect in accordance with the terms of the Contract and that all the obligations under Contract have been fulfilled by the Contractor.

Signature (.....)  
(Engineer / Engineer's Representative)

Name.....

Designation.....

Office Seal

**KOLKATA PORT TRUST**

**FORM G.C.3**

(‘No Claim’ Certificate From Contractor)

The Engineer  
Kolkata Port Trust  
Kolkata / Haldia

(Attn .....)

(Address, the Trustees’ Official, mentioned in  
the work Order and under whom the Contract  
was executed)

Dear Sir,

I/We do hereby declare that I/We have received full and final payment from Kolkata Port Trust for the execution of the following work, viz.

Name of Work .....

Work Order No ..... dt .....

Contract No .....dt.....

Agreement No .....dt.....and I/We have no  
further claim against Kolkata Port Trust in respect of the above mentioned job.

Yours faithfully,

(Signature of Contractor)

Date .....

Name of Contractor .....

Address .....

.....

(Official Seal of the Contractor)

**Draft Proforma of Bank Guarantee (Performance Bond) in lieu of cash Security Deposit, to be issued by the Kolkata/Haldia Branch, as the case may be, of any nationalized Bank of India on Non-Judicial Stamp Paper worth Rs.50/- or as decided by the Engineer / Legal Adviser of the Trustees.**

To  
The Board of Trustees  
for the Port of Kolkata.

BANK GUARANTEE NO.....DATE.....  
Name of issuing Bank.....  
Name of Branch.....  
Address.....

In consideration of the Board of Trustees of the Port Kolkata, a body corporate - duly constituted under the Major port Trust Act, 1963 ( Act 38 of 1963), having agreed to exempt Shri / Messrs ..... a proprietary / Partnership / Limited / Registered Company, having its Registered Office at .....  
(hereinafter referred to as "The Contractor") from cash payment of Security Deposit / Payment of Security Deposit through deduction from the Contractors' bills under the terms and conditions of a contract made between the Trustees and the Contractor for ..... (write the name of the work as per Work Order) in terms of the Work order No ..... dated.....(hereinafter referred to as "the said contract"), for the due fulfillment by the contractor of all the terms and conditions contained in the said contract, on submission of a bank Guarantee for Rs ..... (Rupees ..... )  
we,.....Branch, Kolkata...../ Haldia, do on the advise of the contractor, hereby undertake to indemnify and keep indemnified the Trustees to the extent of the said sum of Rs ..... (Rupees ..... )  
We.....Branch,Kolkata ...../Haldia, further agree that if a written demand is made by the Trustees through any of its officials for honoring the Bank Guarantee constituted by these presents, We,..... Branch, Kolkata ..... /Haldia shall have no right to decline to cash the same for any reason whatsoever and shall cash the same and pay the sum so demanded to the Trustees within a week from the date of such demand by an A/c. Payee Banker's Cheque drawn in favour of "Kolkata Port Trust", without any demur. Even if there be any dispute between the contractor and the Trustees, this would be no ground for us,.....(Name of Bank), ..... Branch, Kolkata...../Haldia to decline to honour the Bank Guarantee in the manner aforesaid. The very fact that We, .....Branch,Kolkata ..... /Haldia, decline or fail or neglect to honour the Bank Guaranteed in the manner aforesaid shall constitute sufficient reason for the Trustees to enforce the Bank Guarantee unconditionally without any reference, whatsoever, to the contractor.

2. We,.....Branch,Kolkata ...../Haldia, further agree that a mere demand by the Trustees at any time and in the manner aforesaid, is sufficient for us, ..... Branch, Kolkata ..... / Haldia, to pay the amount covered by this Bank Guarantee in full and in the manner aforesaid and within the time aforesaid without reference to the contractor and no protest by the contractor, made either directly or indirectly or through Court , can be valid ground for us, .....Branch,Kolkata ...../Haldia, to decline or fail or neglect to make payment to the Trustees in, the manner and within the time aforesaid.
3. We, ..... Branch, Kolkata ..... /Haldia, further agree that the Bank Guaranteed herein contained shall remain in full force and effect, during the period that is taken for the due performance of the said contract by the contractor and that is shall continue to be enforceable till all the dues of the Trustees under and/or by virtue of the terms and conditions of the said contract have been fully paid and its claim satisfied and/or discharged in full and/or till the Trustees certify that the terms and conditions of the said contract have been fully and properly observed/fulfilled by the contractor and accordingly, the Trustees have discharged the Bank Guarantee, subject however, that this guarantee shall remain valid up to and inclusive of .....day of .....19.....and subject all so that the provision

that the Trustees shall have no right to demand payment against this guarantee after the expiry of 6(six) calendar months from the expiry of the aforesaid validity period up to ..... Or any extension thereof made by us, .....Branch, Kolkata ...../Haldia, in further extending the said validity period of this Bank Guarantee on Non-Judicial Stamp Paper of appropriate value, as required / determined by the Trustees, only on a written request by the Trustees to the contractor for such extension of validity of this Bank Guarantee.

4. We, ..... Branch,Kolkata ..... /Haldia, further agree that, without our consent and without affecting in any manner our obligations hereunder, the Trustees shall have the fullest liberty to vary from time to time any of the terms and conditions of the said contract or to extend the time for full performance of the said contract including fulfilling all obligations under the said contract by the contractor or to postpone for any time or from time to time any of the powers exercisable by the Trustees against the contractor and to forebear or enforce any of terms and conditions relating to the said contract and We, ..... Branch, Kolkata ...../Haldia, shall not be relieved from our liability by reason of any such variation or extension being granted to the contractor or for any forbearance, act or commission on the part of the Trustees or any indulgence by the Trustees to the contractor or by any such matter or thing of whatsoever nature, which under the law relating to sureties would, but for this provision, have effect of so relieving us,.....Branch, Kolkata...../Haldia.
5. We ..... Branch, Kolkata ...../Haldia, lastly undertake not to revoke this Bank Guarantee during its currency except with the previous consent of the Trustees in writing.

SIGNATURE.....  
NAME.....  
DESIGNATION.....

(Duly constituted attorney for and on behalf of)

BANK.....  
BRANCH.....  
Kolkata...../HALDIA.

(OFFICIAL SEAL OF THE BANK)



**Bill of Quantity (BOQ), Tug Kalikata, Section- A**  
**e-Tender No. KoPT/Kolkata Dock System/DMD/3/16-17/ET/25**

Item No.	Description	Qty.	Unit	Basic Rate (Rs.)	Excise Duty (in%)	VAT (in %)	Other Taxes and duties (in %)	Other charges (in Rs)	Unit rates (Rs) including of all taxes & duties except Service Tax	Total Value (In Rs).
				A	B	C	D	E	A+B+C+D+E) =F	Unit x F
1.1	Per point gauging by ultrasonic thickness gauging machine after proper surface preparation for thickness determination including erection of staging as required and making gauging report in a tabular form showing the percentage reduction of shell plate, deck plate, Kort nozzle and other structural members to assess the specific quantum of steel renewal that would be necessary on the basis of above report. 10% of the total gauging may be required to be drill tested and to be sealed off by welding from both sides.	Per Point	1200	No price to be quoted here						No price to be quoted here
1.1.1	Rate per M/Ton of Renewal of finished steel structure which would include hull plates and angles of all curvatures, bulkhead, deck plates, beams, brackets, bull work, bull work door, strong back, rudder, Kort nozzle, girders, skylight & hatch covers, scuppers, cabin accommodation, W.C., bathroom, stores, chain locker, alleyway, mast etc. steel door, water tight doors, in fuel oil tanks, fresh water tanks, other tanks, bilges, sundeck, rope guard, propeller guard etc. with M.S. plate & sections at all heights and location of the vessel including cost of steel materials and consumables, labours and all allied materials and cost of hose testing of hull plates as necessary after erection of staging as required for the work and as recommended by the surveyor/Ko.P.T representatives.	Per Ton	15	No price to be quoted here						No price to be quoted here
1.1.2	Rate per M/Ton of Cropping, removal, flaring and re-fitting of steel structure which would include hull plates and angles of all curvatures, bulkheads, deck plates, Kort nozzle, rope guard, propeller guard, beams, brackets, girders, strong back, in fuel tanks fresh water tanks, bilges etc. at all heights and locations of the vessel including cost of consumables, labours and all allied materials and cost of hose testing of hull plates as necessary, after the erection of staging as required for the work and as recommended by the surveyor/Ko.P.T representatives.	Per Ton	100 Kg	No price to be quoted here						No price to be quoted here
1.1.3.	Rate per M/Ton for cropping, removal and refitting of steel structure by welding comprising of shell plates and angles of all curvatures, frames, beams, beam knees, deck plates, Kort nozzle, rope guard, propeller guard, girders, stiffeners, bulkheads, etc. in an approved manner as per IRS/MMD regulation. The rates offered should include all labour and consumables including steel as necessary, after erection of staging as required in the areas recommended by the surveyor/ KoPT's representatives.	Per Ton	100 kg	No price to be quoted here						No price to be quoted here

1.1.4	<b>Both (P &amp; S) Kort nozzles</b> to be checked, repaired, pressure tested and to be shown to the surveyor. Repair work to be carried out as per recommendations of the surveyor. Lump sum Rate should be quoted for all necessary work like pressure testing, fitting, etc. Renewal of steel to be paid at steel renewal rate.	Per Ton	1	No price to be quoted here						No price to be quoted here
1.1.5	Rate per M/Ton of Fitting of doublers with M.S. plate in way of hull plates of all curvatures deck plates, strong back, casing plates in way of cabins, bathrooms, galley etc. at all heights and locations of the vessels in an approved manner with all labour, consumables and all allied materials including steel after preparation of all areas in way and erection of staging as required for the work and as recommended by Surveyor/KoPT's representatives.	Per Ton	2	No price to be quoted here						No price to be quoted here
1.1.6	Removal of old anodes & refitting of new sacrificial Aluminium-zinc Anodes. Anodes to be supplied as per CME's drawing No.18266 Dt. 12.10.76 (enclosed) with test certificate from IRS/MMD approved test laboratory. Rate to be quoted for all work per anode.	Per Pc.	35	No price to be quoted here						No price to be quoted here
<b><u>Tank Works:</u></b>										
1.2 <b><u>Fuel Oil Tanks:</u></b> All fuel oil tanks, as mentioned below to be opened, cleaned, freed from gas and shown to surveyor, sludge oil is to be stored in oil drums. After storing the sludge oil in drum the same to be sent to KoPT's sales yard by the contractor. Gas free & hot work certificates to be obtained as necessary and placed for survey. The tanks are to be pressure tested as necessary and shown to the surveyor. Finally, all the tanks are to be cleaned, wiped with a coat of oil and boxed up with new joints, stud& nut. Lumpsum rate to be quoted per tank.										
a	F.O. bunker tank ( P & S ) - (Cap- 13.9 KL each)	Per Tk.	2	No price to be quoted here						No price to be quoted here
b	FO service tank ( P&S ) - (Cap- 2870 ltr each)	Per Tk.	2	No price to be quoted here						No price to be quoted here
c	LO tank - (Cap- 100 ltr)	Per Tk.	1	No price to be quoted here						No price to be quoted here
d	Engine Room L.O. Reserve tank - (Cap- 500 ltrs)	Per Tk.	1	No price to be quoted here						No price to be quoted here
e	Dirty Oil tank - (Cap- 329 ltrs)	Per Tk.	1	No price to be quoted here						No price to be quoted here
f.	Stern tube header tank ( P&S ) - (Cap- 60 ltrs each)	Per Tk.	2	No price to be quoted here						No price to be quoted here
g.	Steering oil header tank - (Cap- 56 ltrs)	Per Tk.	2	No price to be quoted here						No price to be quoted here
<b><u>Other tanks</u></b>										
1.3	The following tanks to be opened, cleaned, scrapped, chipped and placed for survey as required. Tanks are to be pressure tested as necessary and shown to the surveyor as required. All FW Tanks are to be cement washed ( except for expansion tank ) as necessary and finally boxed up with new rubber joints studs & nut. Gauge glass & sight glass to be renewed. Lumpsum rate to be quoted per tank			No price to be quoted here						No price to be quoted here
a.	Domestic F.W. storage tank :. (cap.8 Tons )	Per Tk.	1	No price to be quoted here						No price to be quoted here
b.	S.W. header tank : (cap.500 Ltr.appro.)	Per Tk.	1	No price to be quoted here						No price to be quoted here
c.	F.W. header tank : (cap. 500 Ltr.appro.)	Per Tk.	1	No price to be quoted here						No price to be quoted here
d.	M.E F.W expansion tank : [Cap. 500 Ltr.appro.]	Per Tk.	1	No price to be quoted here						No price to be quoted here
1.4	<b><u>Anchor Cable &amp; Anchor:</u></b> 2 Nos. anchor and anchor cables to be	per	2	No price to be						No price to be

	removed from position, laid down on dry dock floor, chipped, cleaned, calibrated, Surveyed and painted with two coats of bitumastic paint and put back in position. Shackle marking to be done. Lumpsum rate to be quoted per Anchor cable and cable	anchor and cable		quoted here						quoted here
1.5	<b>Chain Locker Space :</b> Chain locker space to be chipped, cleaned, repaired as necessary and painted with two coats of bitumastic paint. Hawser pipe to be chipped cleaned and repaired as required and painted. Renewal of steel in chain locker & Hawser pipe to be paid at steel renewal rate. Any building up for Hawser pipe,Annexure rate at 'C' will be applicable.Lumpsum rate to be quoted for all other work.	LS	LS	No price to be quoted here						No price to be quoted here
1.6	<b>Sanitary /Fresh Water Lines:</b> Sanitary and fresh water lines leading from Engine Room to accommodation, bathroom, W.C., galley and other places to be checked thoroughly & hammer tested, if found defective same to be repaired /renewed as required. Lumpsum rate to be quoted. (Renewal, Removal, refitting & cleaning would be paid as per respective Annexure pipe rate at "C").	LS	LS	No price to be quoted here						No price to be quoted here
1.7	CP-Taps ( 10 Nos) shower sprouts, 02 nos clothes hooks 5 Nos to be fitted. Defective flushes ( 3 Nos), stopcocks ( 3 Nos) to be repaired/renewed as required. Basins ( 4 Nos) to be cleaned and made defect free. Concealed type fittings to be used where concealed plumbing is carried out.2 nos wall mirrors(12"x16 ") to be installed in crew toilet and 1 in Master's toilet.2 Nos towel racks in crew bathroom.3 Nos Plastic curtains for washrooms to be supplied.02 nos PVC doors to be repaired/renewed as required. 05 nos wooden doors defective or missing handles, locks, looking glasses, stoppers, hinges, fly nuts to be repaired, replaced/renewed as necessary.Lumpsum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
1.8	All waste line from toilets, galley, wash areas, scupper and gratings must be cleared of clogging. Damage line to be repaired/renewed as deemed necessary. Lump sum rate to be quoted.(Renewals of pipe lines would be paid as per respective Annexure pipe rate at "C")	LS	LS	No price to be quoted here						No price to be quoted here
1.9	<b>Towing Hook &amp; Checking Hook:</b>									
1.9.1	<b>Towing hook</b> (1 No.) and post to chip, scrap and cleaned, P.L. to check and its certificate to be given from appropriate authority. Repair/renewal of parts to be carried out as necessary. Locking device to check. Painting to carry out as per paint schedule. Travel at both ends to be checked. Locking split pin getting damaged frequently, suitable stopper to be provided. Entire area to be painted with approved colour as existing.(SWL = 20 M.Tonnes). (Renewal of parts other than mentioned above to be paid extra).6 Nos locking pins to be supplied as spare for each hook. Lumpsum rate to be quoted.	LS	1	No price to be quoted here						No price to be quoted here
1.9.2	<b>Checking hook</b> and its post to chip, scraped and cleaned. P.L. to check and certificate to be given from appropriate authority. Renewal of parts to be carried out as necessary. Locking device to check. Quick releasing wire to renew, travel at both ends to be checked. Entire area to be painted with approved colour as existing. (Renewal of parts to be extra cost + 10%) (S.W.L. – 8 M.T.), (Renewal of parts other than mentioned above to be paid extra).6 Nos locking pins to be supplied as spare for each hook. Lumpsum rate to be quoted.	LS	1	No price to be quoted here						No price to be quoted here

1.10	All floorings/ wall of W.C., Bathroom, galley, accommodation to be cleaned. Broken cementing/vinyl flooring/ceramic tiles to be renewed with nearest to the existing colour & size of vinyl flooring/ceramic tiles.Surface preparation,backing by cement ,sand, stone chips with use of steel netting for side walls and use of water proofing compound to prevent water seepage between tiles, to be installed thereafter.Tiles fittings on the walls to be of 4ft height from the floor. Rate to be quoted per sq. mt inclusive of supply of labour and material.	LS	LS	No price to be quoted here						No price to be quoted here
a.	Rate per Cu.m. laying of cement concrete for Floors/backing etc including chicken mesh where required.	Per Cu m	10	No price to be quoted here						No price to be quoted here
b.	Rates per Cu.m breaking of cement floor, deck /stub pieces for sounding pipe, backing in bathroom etc.	Per Cu m	10	No price to be quoted here						No price to be quoted here
c.	Rate per Sq. mt. Vinyl Flooring fitting including labour and materials	Per Sq. m	60	No price to be quoted here						No price to be quoted here
d.	Rate per sq.m. ceramic tiles fitting including labour and materials	Per Sq. m	30	No price to be quoted here						No price to be quoted here
1.11	<b>Fendering System</b> :Wasted hollow D type Rubber fenders in ford. and aft. Portion of the Vessel to be removed. New hollow D type Rubber fenders of similar lengths to be fitted back with M.S. bolts, nuts, etc. Rate to be quoted per Mtr. of such work.	per mtr.	45	No price to be quoted here						No price to be quoted here
1.12	10 Nos. Truck tyre fenders to be fitted with new steel chain of 16 mm dia, wire ropes & suitable shackle, 6 nos. Truck Tyre fenders to be fitted with wire ropes in an approved manner as per the Dock Master. 1 no heavy duty tyre on the bow and 2 nos. double truck tyre one on either side (rear) fenders to be fitted with wire rope & new steel chain of 16 mm dia and suitable shackle at bow on top of the D type fenders. All tyre fenders must be equipped with antifouling protecting guard wire at the bottom end. Rate to be quoted on lumpsum basis except for the steel chain. Tyre and wire ropes will be supplied by KoPT if available .	L.S	L.S	No price to be quoted here						No price to be quoted here
a	Rate per mtr. of 16 mm. dia steel chain.	per mtr.	80	No price to be quoted here						No price to be quoted here
b	Aft strong backs to be thoroughly repaired/renewed as required. Lump sum rate to be quoted. Renewal of steel to be paid as steel renewal rate.	L.S	L.S	No price to be quoted here						No price to be quoted here
1.13	<b>Following work to be carried out:</b>									
a.	Bridge deck and Monkey island water is not draining properly,necessary repair/arrangement to be made to ensure efficient water drainage from the bridge deck.Necessary scuppers to be provided in both side of the navigational deck.Renewal of pipe line will be as per Annexure rate.Lump sum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
b.	Railing surrounding monkey island dented portions to be repaired/renewed as required.Renewal of pipe line will be as per Annexure rate.Lump sum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
c.	Blower ducts and conduits for accommodation to be throughly cleaned and repaired,satisfactory trial to be given.Renewal spares will be payable extra.Lump sum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
d.	Bunks (14 nos) to be checked for damages,Necessary repairs to be carried out.Wooden lockers ( 18 nos) including shelves,locks, handles and hinges to be checked and repairs to be carried out as	L.S	L.S	No price to be quoted here						No price to be quoted here

	required.Lump sum rate to be quoted.									
1.14	Navigational system masts supporting arms to be repaired as required,hinges to be fitted for proper folding Light fitting platform to be repaired as required.Renewal of plate will be as per plate renewal rate. Lump sum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
1.15	Repair of Bollards, Samson post to be carried out with building up by welding & grinding as necessary. Renewal of steel & wooden chawks to be paid as per steel & timber rate. Rate to be quoted per unit.			No price to be quoted here						No price to be quoted here
a.	Bollard	per unit	3	No price to be quoted here						No price to be quoted here
b.	Samson Post	per unit	2	No price to be quoted here						No price to be quoted here
1.16	Complete pest control and Anti termite treatment for the vessel to be done. Lump sum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
1.17	7 Nos. Porthole frames with glass and deadlights to be thoroughly checked. Hinges and nuts to make free and replace as necessary. Rubber packing to be renewed and hose tested to show water tightness. Missing fly nuts to be provided. Rates to be quoted per port hole.	per port hole	7	No price to be quoted here						No price to be quoted here
1.18	8 Nos. Steel water tight doors on Main deck rubber linings to renew, door handles to make easy, open, shut position to mark properly by painting and watertightness to be shown to the surveyor . Rates to be quoted per door.	per door	8	No price to be quoted here						No price to be quoted here
1.19	4 Nos. hatch covers on main deck, Engine room sky light cover rubber linings to renew, toggle bolts and butterfly nuts of covers to check and hose test to show watertightness and to be shown to the surveyor.Renewal of glass & fly nuts to be paid extra. Lump sum rate to be quoted	L.S	L.S	No price to be quoted here						No price to be quoted here
1.20	3 Nos blower ventilators wire netting, flaps, to be checked, rubber linings to renew. Wire netting, chains, butterfly nuts to renew and to be shown to the surveyor. Rates to be quoted per ventilator.	per ventilator	3	No price to be quoted here						No price to be quoted here
1.21	Galley cooking table,cabinets,hot plate mountings table to be repaired as required.Renewal will be payable extra.Lump sum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
1.22	Galley exhaust system to be checked,cleaned and repaired as necessary for satisfactory performance and to be shown to the KoPT representative.Renewal of trunking will be paid as per annexure rate.Lumpsum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
1.23	All round canvas curtains for wheel house to be supplied.Canvas covers for windlass, telegraph consoles, steering wheel, compass and panel boards to be supplied.			No price to be quoted here						No price to be quoted here
1.24	Wooden gratings on top of the steering compartment to be renewed as required and painted properly to prevent rotting.			No price to be quoted here						No price to be quoted here
1.25	<b>The unit rates to be quoted as follows:</b>									
a.	Rate per running meter of removal & refitting of electrical wiring.	Per meter	50	No price to be quoted here						No price to be quoted here
b.	Rate per running Mtr. of removal & refitting of cable Trays along with wire/cables.	Per meter	15	No price to be quoted here						No price to be quoted here
c.	Rate per tube light including fittings for removal and refitting.	Per meter	20	No price to be quoted here						No price to be quoted here

d.	Rate per sq.mtr. of removal and refitting of panelling.	Per meter	190	No price to be quoted here						No price to be quoted here
<b>LSA &amp; FFA ITEMS:</b>										
1.26	Following fire extinguishers to be transported to the KoPT fire service station for servicing, after servicing same to be transported back to the vessel. Extinguishers to be painted as per rules. Lump sum rate to be quoted. Supplying of items will be payable extra. New extinguisher to supply (approved type) to replace the failed/damaged extinguisher. (Annexure rate will be operative).									
a	D.C.P. extinguisher -2 Nos. (4.5 Kg), - Mechanical Foam- 1no(50 Ltrs) Mechanical Foam -3 Nos. (9 Ltrs) CO2 water type-3 Nos.	L.S	L.S	No price to be quoted here						No price to be quoted here
b	All the L.S.A. & F.F.A. equipment to be painted, stenciled with vessels name, date of last servicing & pressure testing and port of registry. Lump sum rate to be quoted.	LS	LS	No price to be quoted here						No price to be quoted here
c	Life lines of approved type to be fitted to 6 life buoys of which 3 life buoys to be equipped with SI lights also. SI lights to be supplied if defective.	LS	LS	No price to be quoted here						No price to be quoted here
d	Batteries for 13 nos life jackets to be supplied and to be fitted with SI light. LS rate to be quoted.	LS	LS	No price to be quoted here						No price to be quoted here
e	4 fire hose boxes to be cleaned, repaired if necessary and painted with approved colour. Rate to be quoted per fire box.	per fire box	4	No price to be quoted here						No price to be quoted here
f.	All fire hydrants to be serviced, checked for defects and repaired as necessary. 2 Nos DG shipping approved fire hoses with male/female coupling to be supplied. Fire hose of approved type for engine room to be supplied. Fire monitor on monkey island to be repaired fully including operating wooden platform.	per hydrant	4	No price to be quoted here						No price to be quoted here
g	One no. Downton Pump to repair. To supply couplings, delivery pipe, suction pipe, nozzle and fitted in place. Same to be shown to the surveyor in working condition. Lump sum rate to be quoted.	L.S	LS	No price to be quoted here						No price to be quoted here
1.27	<b>Blasting, Chipping, Scraping, Cleaning &amp; Painting:</b>									
a.	Entire, outside hull including rudders and Kort Nozzles from keel to wind and waterline including Sea Chests to be thoroughly cleaned by copper slag Blasting to Swedish Standard SA 2.5 and painted as per Painting Schedule. Lump sum rate to be quoted.	L.S	LS	No price to be quoted here						No price to be quoted here
b.	Entire outside hull from wind & water line to bulwark including inside surface of bulwark plating along with bulwark stays to be thoroughly cleaned by copper slag Blasting to Swedish Standard SA 2.5 and painted as per Painting Schedule. Lumpsum rate to be quoted.		LS	No price to be quoted here						No price to be quoted here
c.	Entire exposed deck plating including deck fittings to be thoroughly chipped, scrapped, cleaned and painted as per Painting Schedule. Deck to be painted with anti skid paint. Lumpsum rate to be quoted.		LS	No price to be quoted here						No price to be quoted here
d	Bilges, shipside, deck heads, bulkheads of engine room, holds, cofferdams, accommodations, Forepeak Space, Aft Store Space, Steering Flat, etc. up to main deck level to be chipped scrapped, cleaned as necessary, internally surveyed and painted as follows: a) Engine room & other bilges : 2 coat of paints (Bilges have to be cleaned twice before survey & before painting) (b) Engine room inside hull, bulkhead, deck head (inside) 3 coats of paint.		LS	No price to be quoted here						No price to be quoted here

	(c) Rest areas in accommodations: 2 coats of paint after touching up with primer as necessary. (d) Rest areas in the holds: 2 coats of paint. Lumpsum rate to be quoted.									
e.	All painted surface of entire inside & outside super structure above main deck level including cabins, casing plate, fittings if any, w.c. & bathrooms, Navigation Bridge Deck head, Monkey Island, . Galleys, mast, flag stand, ventilators railings, skylights, hatch cover, comings, blower trunk ways etc. to be chipped, scrapped, cleaned thoroughly and painted as per Painting Schedule. Lumpsum rate to be quoted.		LS	No price to be quoted here						No price to be quoted here
f.	Draft marks on Port & Stbd. at Fwd. Aft. And midship to be written with paint. Name of the vessel in English/Hindi and Port of Registration to be painted. <b>KOLKATA PORT TRUST</b> to be written with paint on Port & Stbd. side at suitable location. Lumpsum rate to be quoted.		LS	No price to be quoted here						No price to be quoted here
	<b>Paints to be supplied by the Tenderer &amp; painting to be done by Airless spray painting</b>									
<b>Rupees (in Ward)</b>		<b>Grand Total</b>								

**Bill of Quantity (BOQ) , Tug Kalikata, Section- B**  
**e-Tender No. KoPT/Kolkata Dock System/DMD/3/16-17/ET/25**

Item No.	Description	Qty.	Unit	Basic Rate (Rs.)	Excise Duty (in%)	VAT (in %)	Other Taxes and duties (in %)	Other charges (in Rs)	Unit rates (Rs) including of all taxes & duties except Service Tax	Total Value (Rs.)
	<b>Any Spare parts required to be supplied by the contractor, ( if KoPT is unable to supply the same) would be payable extra i.e.on cost+10% handling charges.In case of Non OEM spares payment would be made subject to prior approval of Engineer of the contract/ his representative.01 no Main Engine &amp; 02 nos Aux. Engines complete overhauling would be done by OEM/OEM Authorized service Engineer and to be certified by them.</b>									
2.1	Main Engines Port to be fully opened up, overhauled and boxed back with all its mountings. Engine jacket space to be pressure tested and shown to the Surveyor and Surveyor's recommendations to be carried out.Repairs to be carried out including Cyl Heads, Pistons, Liners, Connecting rods, Main Brgs, Big end Brgs, Bottom end Brgs, Brg bolts, Thrust Brgs along with vibration dampers. Crank & cam shafts with bearings,Cam Nose and cam followers , Gear ends, PT fuel pumps, injectors, turbocharger, governor, attached LO pumps,Air starter & Air Lubricator, etc.All armored flexible hoses in Main Engine to be renewed. All necessary measurements to be calibrated and shown to the Surveyor as required . Any rectifications work as recommended by the surveyor to be carried out. After completion of all works the engine to be commissioned to the entire satisfaction of the Surveyor/ EIC of the vessel.Rate to be quoted lumpsum for one Engine (All seals & gaskets to be supplied by the repairer & rates should be inclusive of same)	One Engine	1	No price to be quoted here						No price to be quoted here
2.1.1	If recommended by the surveyor machining and polishing work of Crankshaft to be undertaken. Rate to be quoted lumpsum per crankshaft including handling and transportation charge.	Per shaft	1	No price to be quoted here						No price to be quoted here
2.1.2	Main Engine (port) float valves in fuel tanks to be renewed.Lumpsum rate to be quoted.	One Float.	1	No price to be quoted here						No price to be quoted here
2.1.3	Main Engine S.W and F.W pumps including coupling arrangement to be checked and repaired as per surveyors' recommendation.Renewal of spare parts will be payable extra.Rate per engine (S.W & F.W) pump to be quoted.	Per Engine	2	No price to be quoted here						No price to be quoted here
2.1.4	Both P & S Main Engine exhaust manifolds, exhaust pipes & silencers to be opened up, cleaned internally, checked, repaired if reqd. and boxed back as per instruction of E.I.C of the vessel.Exhaust manifolds to be pressure tested, if found defective, same to be renewed.Necessary insulation to be done as per E-I-C/surveyors recommendations.Lumpsum rate to be quoted per Engine.	Per Engine	2	No price to be quoted here						No price to be quoted here
2.1.5	Vulcan couplings to be checked for its proper tightness and shown to the surveyor. Renewal, if required, shall be paid extra.Lumpsum rate to be quoted per coupling.	Per Engine	2	No price to be quoted here						No price to be quoted here
2.1.6	All gauges of the Main Engine panel board to be calibrated for its proper operation;if required, defective ones to be renewed.Safety alarm panel , low Lub oil pressure cut out, high F.W. temperature cut out and over speed cut out of Port & Stbd. Main Engines to be checked for proper	Per Engine	2	No price to be quoted here						No price to be quoted here



	operation and to be repaired/renewed as required and shown to surveyor in operative condition. Renewal of defective parts to be paid extra. Lumpsum rate to be quoted per Engine.									
2.1.7	Telegraph systems both ( remote & manual) operation to be checked for proper operation and shown to the surveyor. Repair to be carried out as per surveyor's recommendation. Lumpsum rate to be quoted.	L.S	2	No price to be quoted here						No price to be quoted here
2.1.8	4 Nos. Quick closing valves to overhaul and its remote operation to be shown to the surveyor. Renewal of defective parts if any to be paid extra. Lumpsum rate to be quoted per valve.	per valve	4	No price to be quoted here						No price to be quoted here
2.1.9	The following Main Engine coolers to be pressure tested on board the vessel in presence of KoPT representative before taking out for repair. On completion of thorough cleaning and repairs, pressure testing to be shown to the surveyor. Coolers to be boxed back with new sealing rings with application of anti corrosive paint internally and fitted back in position. All the coolers satisfactory trial to be shown to Surveyor/E-I-C. Lump sum rate to be quoted per cooler.			No price to be quoted here						No price to be quoted here
a.	2 Nos LO coolers for port Main Engines, hydraulic test pressure 12 bar for shell & 12 bar for tube. Rate per cooler to be quoted.	Per cooler	2	No price to be quoted here						No price to be quoted here
b.	1 Nos air cooler for port main engine hydraulic test pressure 6kg/cm <sup>2</sup> . Pneumatic test pressure 2.5 kg/cm <sup>2</sup> . Rate per cooler to be quoted.	Per cooler	1	No price to be quoted here						No price to be quoted here
c	2 Nos. Lub oil coolers for Gear boxes - Hydraulic test pressure 17 bar for Shell & 10 bar for Tube. Rate per cooler to be quoted	Per cooler	2	No price to be quoted here						No price to be quoted here
d	1 Nos. Fresh water Heat exchanger for port Main engines - Hydraulic test pressure 4 Bar for Shell & 4 Bar for Tube. Rate per cooler to be quoted	Per cooler	1	No price to be quoted here						No price to be quoted here
2.1.10	<b>Port and Stbd. Main Engine Gear Boxes: - (Make- Twin Disc, Model- MG 516, , Ratio- 6:1)</b> Both Gear boxes inspection covers to be opened up, backlash of gears to be measured and to be shown to the surveyor. Oil to drain, sump to clean and refill with fresh charge, from KoPT supply. Both Gear Boxes LO filters and oil seals to be renewed, after completion of repair job. Safety cut outs of Gear Boxes and its satisfactory trial to be shown to the Surveyor/E-I-C .Rate per Gear Box to be quoted. Renewal of parts if any will be payable extra.	per gear box	2	No price to be quoted here						No price to be quoted here
2.2	<b>Port and Stbd. Aux. Engines</b> are to be fully opened up, overhauled and boxed back with all its mountings. Repairs to be carried out including Cylinder Heads, Pistons, Liners, Connecting Rods, Main Bearings, Big End Bearings, Bottom End Bearings, Thrust Bearings, Crank & Cam Shafts, Gear ends, Governors, attached Lub Oil Pump, FO pump, Injectors etc. All necessary measurements to be calibrated & shown to the Surveyor as required. Any rectification work, as recommended by Surveyor, to be carried out. After	Per Engine	2	No price to be quoted here						No price to be quoted here

	completion of all work, the engines should be commissioned to the entire satisfaction of the Surveyor/EIC of the vessel. (All seals & gaskets to be supplied by the repairer & rates should be inclusive of same). Lumpsum rate to be quoted per Engine.									
2.2.1	If recommended by the surveyor machining and polishing work of Crankshaft to be undertaken. Rate to be quoted lumpsum per crankshaft including handling and transportation charge.	per c/shaft	1	No price to be quoted here						No price to be quoted here
2.2.2	Aux Engine S.W and F.W pumps including coupling arrangement to be checked and repaired as per surveyors' recommendation. Renewal of spare parts will be payable extra. Rate per engine (S.W & F.W pump) to be quoted.	Per Engine	2	No price to be quoted here						No price to be quoted here
2.2.3	Aux Engine Couplings to be checked for its tightness & to be repaired as recommended by the surveyor. Renewal of defective parts to be paid extra. Rate per couplings to be quoted.	Per coupling.	2	No price to be quoted here						No price to be quoted here
2.2.4	Both Engines silencer and exhaust trunking to be cleaned thoroughly, to be hosed down, exhaust manifold to be pressure tested and repaired if necessary and boxed back. Laggings to be renewed as required. Lumpsum rate to be quoted per engine.	Per Engine	2	No price to be quoted here						No price to be quoted here
2.2.5	Control panel boards of A/E to be checked and repaired if required. All Safety cut outs and alarms to be checked for proper operation and to be repaired /renewed as required. and shown to surveyor in operative condition. Renewal of defective parts to be paid extra. Lump sum rate to be quoted per Engine.	Per Engine	2	No price to be quoted here						No price to be quoted here
2.2.6	The following Coolers to be pressure tested on board the vessel in presence of the EIC of the vessel before taking out to Contractor's workshop for repairs. On completion of thorough cleaning & repairs, pressure testing to be shown to the Surveyor, coolers to be boxed back with new sealing rings with application of anti corrosive paint internally, vent cock where necessary are to be renewed and all to be fitted back in position.									
a.	2 Nos. Lub oil coolers for Aux. engines 8 bar for shell & 8 bar for tube .Rate per cooler to be quoted per cooler	Per cooler	2	No price to be quoted here						No price to be quoted here
b	2 Nos. Fresh water Heat exchanger 6 Bar for Shell & 4 Bar for Tube. Rate per heat exchanger to be quoted	Per cooler	2	No price to be quoted here						No price to be quoted here
2.3	<b>Pumps: The following pumps to be opened up, measurements to be recorded, shown to the surveyor and overhauled as necessary. Defective pressure gauges/bearings to be renewed as required. Any parts required repairing to be carried out as per surveyor's recommendations. Pumps are to be tried out and commissioned to the full satisfaction of the surveyor/E-I-C after repairing. Renewal of defective parts will be payable extra. Rates to be quoted per pump.</b>									
a.	General Service Pump – 1 no. Make- M/s. B.E. Pumps Pvt. Ltd. Cap.-24 M³/Hr. RPM=1450	Per pump	1	No price to be quoted here						No price to be quoted here
b.	Bilge Pump – 1 no. Make- M/s. B.E. Pumps Pvt. Ltd. . Cap.-24 M³/Hr. RPM=1450	Per pump	1	No price to be quoted here						No price to be quoted here
c.	Domestic F.W. Pump – 1 no. Make- M/s. B.E. Pumps Pvt. Ltd.. Cap.-325 LPM. RPM-1425	Per pump	1	No price to be quoted here						No price to be quoted here
d.	Domestic S.W. Pump – 1 no.	Per	1	No price to be						No price to be

	Make- M/s. B.E. Pumps. Cap.-325 LPM	pump		quoted here						quoted here
e.	Salvage Pump Make- Crompton Greaves , rpm-1475, BHP-40	Per pump	1	No price to be quoted here						No price to be quoted here
f.	F.O. Transfer Pump_ 1 No. Make- Air Auto Engg. Co, Cap- 180 LPM, RPM-1440.	Per pump	1	No price to be quoted here						No price to be quoted here
g.	Main Engine Gear Box St. By lub oil pump-1 no. Make -air Auto Engg. Co. Capacity-64 LPM, RPM -1440	Per pump	1	No price to be quoted here						No price to be quoted here
h.	Hand pumps in Engine room to be overhauled, made operational and to be shown to the surveyor.	Per pump	8	No price to be quoted here						No price to be quoted here
i.	Domestic S.W. & F.W. pump foundations have been corroded , the same to be fabricated new.Dimension of foundation of both pumps are the same i.e. 2.5 ft x 1.0 ft , so total renewal of steel is 5 sq. ft.. Renewal of steel would be paid on the basis of accepted steel rate.	LS	LS	No price to be quoted here						No price to be quoted here
2.4	<b>FIRE PUMP:</b> (Main engine driven) : Cap.- 273 CuM/H, RPM-1800. Fire Monitor, Fire pump and clutch arrangement to be checked and shown to the surveyor. Repair work if any to be carried out as per surveyors' recommendation. Renewal of defective parts to be paid extra.Lumpsum rate to be quoted.	L.S	1	No price to be quoted here						No price to be quoted here
2.5	<b>Air Bottle- 2 Nos</b> , Capacity –400 Litres each, working pressure 30Kg/Cm2, Test pressure 45 kg/cm2- All 2 Nos Air Bottle to be cleaned internally, pressure tested, shown to the surveyor and copal varnished. Associated mountings i.e. Main stop vlaves, filling valves, pressure gauge valves, drain valves etc. to be overhauled and surveyed. Safety valves to be overhauled and reset. Renewal of other defective parts to be paid extra. Lumpsum rate to be quoted per air bottle.	L.S	2	No price to be quoted here						No price to be quoted here
2.6	<b>Aux. Air Compressor:</b> (2No.). Make- ELGI, Model- THPC 300, Capacity FAD- 238 Ltr/min..Air compressor to be opened completely,overhauled and surveyed. Safety devices to be checked for proper functioning and defective items are to be renewed. Spares to be supplied by the repairer. Trial run to be given upto the full satisfaction of surveyor and EIC of the vessel. Lump Sum rate to be quoted per Air Compressor.	LS	2	No price to be quoted here						No price to be quoted here
2.7	Air whistle to be checked, overhauled and to be made operational.Lumpsum rate to be quoted.	L.S	1	No price to be quoted here						No price to be quoted here
2.8	Following valves to be opened up, shown to surveyor, overhauled, pressure tested, boxed back & put into commission.Satisfactory trial to be given. Rate to be quoted per valve. Renewal of joints, nuts & bolts etc to be taken into consideration.									
A.	<b><u>Storm v/v</u></b>									
i	80 mm	per v/v	1	No price to be quoted here						No price to be quoted here
ii	100 mm valves	per v/v	2	No price to be quoted here						No price to be quoted here
iii	125 mm valves	per v/v	1	No price to be quoted here						No price to be quoted here
B.	<b><u>25mm valve-</u></b>									

i	SDNR forged steel	per v/v	2	No price to be quoted here						No price to be quoted here
ii	SDSL forged steel	per v/v	4	No price to be quoted here						No price to be quoted here
iii	SDSL CI Globe valve	per v/v	4	No price to be quoted here						No price to be quoted here
iv	SDNR CI Globe valve	per v/v	4	No price to be quoted here						No price to be quoted here
C.	<b>32 mm valve-</b>									
i	SDNR GM Globe valve	per v/v	1	No price to be quoted here						No price to be quoted here
ii	SDSL CI Globe valve	per v/v	6	No price to be quoted here						No price to be quoted here
iii	GM shipside valve	per v/v	2	No price to be quoted here						No price to be quoted here
D.	<b>40 mm valves</b>									
i	SDSL GM Globe valve	per v/v	1	No price to be quoted here						No price to be quoted here
ii	SDNR CI Globe valve	per v/v	5	No price to be quoted here						No price to be quoted here
E.	<b>50 mm valves</b>									
i	<u>Overboard discharge valve</u>	per v/v	6	No price to be quoted here						No price to be quoted here
ii	SDNR CI Globe valve	per v/v	12	No price to be quoted here						No price to be quoted here
F.	<b>65 mm valves-</b>									
i	GM overboard discharge valve-	per v/v	2	No price to be quoted here						No price to be quoted here
ii	CI SDNR valve	per v/v	2	No price to be quoted here						No price to be quoted here
iii	CI Globe valve	per v/v	4	No price to be quoted here						No price to be quoted here
G.	<b>80 mm valves-</b>									
i	CI SDNR valve	per v/v	12	No price to be quoted here						No price to be quoted here
H.	<b>250 mm valves</b>									
i	Main sea suction valves	per v/v	5	No price to be quoted here						No price to be quoted here
2.9	3 Nos. Main sea chests, 4 Nos. main sea suction filters with housing, 2 Nos. injection box gratings and 6 Nos. bilge filter to be opened up and surveyed. Repair/renewal to be carried out as per surveyors recommendations. 2 Nos. mud box to be cleaned, repaired and surveyed. Lump sum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
2.10	<b>Propeller and Shaft:</b>									
2.10.1	Port and Stbd. side propellers, tail end shafts with their couplings, key and key ways, propeller nuts and coupling bolts to be opened up, checked and shown to the surveyor. Repair to be carried out as per instruction of the surveyor. Port and Stbd. side propeller shafts and its couplings to be	L.S	2	No price to be quoted here						No price to be quoted here

	tested for cracks and trueness and assembled back maintaining proper alignment. Renewal of defective parts, surveyor's recommendation will be paid extra. Lumpsum Rate per shaft/propeller to be quoted.									
2.10.2	Port and Stbd. side intermediate shafts and their 2 Nos. couplings to be opened up and shown to the surveyor. Shaft locking nuts, key and key ways, and coupling bolts to be checked and shown to the surveyor including magna flux test. Repair to be carried out as per instruction of the surveyor. The entire assembly of shafts and couplings to be checked and bedded and shown to the surveyor. Renewal of defective parts to be paid extra. Lumpsum rates per shaft along with 2 couplings to be quoted.	Per Shaft	2	No price to be quoted here						No price to be quoted here
2.10.3	Port and Stbd. Nu yark oil seals/ glands to be opened up as stern tube oil are leaking from both the shafts. Both glands to be overhauled completely to stop oil leakages from the glands and shown to the surveyor. Both rubber seals of Shore hardness 70-75 and gland packing (25 mm thick Asbestos Graphite based packing) to be renewed. Renewal of other defective parts to be paid extra. Lumpsum Rate per seal/gland to be quoted.	Per Shaft	2	No price to be quoted here						No price to be quoted here
2.10.4	Port and Stbd. side stern and neck bushes clearances of both stern tubes to be measured and shown to the surveyor. Any recommendations by the surveyor to be carried out as required. Pipe lines from header tanks to stern tubes (P&S) to be cleaned internally. Lumpsum rate to be quoted per shaft.	Per Shaft	2	No price to be quoted here						No price to be quoted here
a.	Rate to be quoted for removal and refitting of Neck bush and Aft bush of the tail shafts. Rate to be quoted per bush.	Per bush.	4	No price to be quoted here						No price to be quoted here
b	Rate to be quoted per Kg. for neck bush, Aft bush for tail shaft and retainer/carrier rings for the seals of Gun metal with/without white metal lining as applicable	Gun Metal/ Kg.	20	No price to be quoted here						No price to be quoted here
		White metal/kg	20	No price to be quoted here						No price to be quoted here
2.10.5	Port and Stbd. Plummer blocks of both the shafts to be surveyed and shown to the surveyor. Any recommendations by the surveyor to be carried out as required. Rate per plumber block to be quoted.	Per block	2	No price to be quoted here						No price to be quoted here
2.10.6	<b>Rudders.</b> Port and Stbd. side Rudders to be opened up, Rudder drop to be checked & recorded and to be shown to the surveyor. Rudders to be pressure tested & shown to the surveyor. Application of an oil coat internally is to be provided. Condition of all the bushes to be checked, as per surveyor's recommendations, worn out bushes to be renewed (metal rate will be applicable as per annexure rate.). Swing test of Rudders to be shown to the surveyor. (Renewal of steel would be paid on the basis of accepted steel rate) Rates to be quoted per rudder.	Per rudder	2	No price to be quoted here						No price to be quoted here
2.10.7	Rudder stock if found twisted /dented same to be straightened up, thermal stress releasing to be done and	Per rudder	2	No price to be quoted here						No price to be quoted here

	trueness to be ensured to the satisfaction of surveyor. Lump sum rate to be quoted per rudder stock, inclusive of to and fro transportation, lifting and lowering of the unit from the dry dock. The total job will only be executed subjected to surveyor's recommendation for the same and approval of the total procedure.									
<b>On completion of item nos. 2.10.1 to 2.10.7, all to be fitted back &amp; tried out to the satisfaction of the surveyor.</b>										
2.10.8	Rope guard to be checked & repaired as required. (Renewal of steel if any would be payable at accepted steel renewal rate) and to be fitted back in place. Lump sum rate to be quoted per rope guard.	L.S	2	No price to be quoted here						No price to be quoted here
2.11	<b>Forward windlass :</b> To be completely overhauled, foundation to check. GYPSE, Drum Brake and Shoe and rollers to check, slipping clutch to try out. Motor cover and manoeuvring post to check and repaired/renewed as necessary. Bare post of the machine to be chipped, cleaned and painted as per paint schedule. Anchor stopping gear pin to check & repair as necessary. Windlass to be fitted back in position after completion of steel deck and windlass seat work if required. (Renewal of steel would be paid as steel renewal rate. Renewal of defective parts to be paid extra. Lumpsum rate to be quoted.	L.S	1	No price to be quoted here						No price to be quoted here
2.12	<b>Steering System: - (Tenf Jord, Norway)</b>									
2.12.1	Telemotor including air purging cocks and safety valves to be opened up for overhauling, cover oil seals, piston oil seals to be renewed and internal parts to be checked for any damage,, and to be repaired/renewed as per surveyor's recommendations. Air purging cocks, safety valves on the telemotor to be overhauled. Lumpsum rate to be quoted.	LS	1	No price to be quoted here						No price to be quoted here
2.12.2	Hydraulic steering gear pump unit (Make- Varuna Type-H330) to be Overhauled and shown to the surveyor. 02 nos Defective pressure gauges to be renewed. Manoeuvring valves, Relief valves to be overhauled and repaired / renewed as per recommendations of Surveyor. Synchronizing arms and Synchronizing linkage to be checked and to be repaired if required. (Renewal would be paid extra). Lumpsum rate to be quoted.	LS	1	No price to be quoted here						No price to be quoted here
2.12.3	Hand steering/Emergency operation to be checked /repaired if required and satisfactory trial to be shown to the Surveyor/E-I-C . Blocking valves to be overhauled and shown to the surveyor/E-I-C. Repair/ renewal to be undertaken as per recommendations of surveyor. (Renewal would be paid extra). Lumpsum rate to be quoted.	LS	1	No price to be quoted here						No price to be quoted here
2.12.4	Potentiometer of the Steering system to be checked for proper functioning. Limit switches to be checked and to repair as required for proper operation. To check the synchronization of mechanical indicators with all electrical indicators i.e Rudder Angle Indicator, control box starter, steering tank low level alarm and other switches as required. Lumpsum rate to be quoted.	L.S	1	No price to be quoted here						No price to be quoted here
2.12.5	After completion of all repairing work , Steering System to be			No price to be						No price to be

	tried out on both directions and to be shown to the surveyor/E-I-C in working condition to their satisfaction. System oil will be supplied by KoPT.			quoted here						quoted here
2.13	<b>Electrical:</b>									
2.13.1	02 Nos. of main alternators (Make- M/S. Kirloskar Electric Co. Ltd. Type- 4 AB 225/6, KVA - 67, Amp.- 93.2, PF – 0.80, Phase - 3, Frequency - 50 Hz.) to be thoroughly overhauled, cleaned, heat varnished and checked for all necessary measurements. Calibration & insulation report to be submitted to surveyor. Defect if any to be rectified as per surveyor's recommendation. Lump sum rate to be quoted per alternator.	per alternator	2	No price to be quoted here						No price to be quoted here
2.13.2	1 No. battery charger 12V DC ( 230V/12V) in engine room for both A/Es, is to be thoroughly serviced including transformer ( 230V/12V) and defective parts to be repaired/renewed as required for proper operation.	LS	1	No price to be quoted here						No price to be quoted here
2.13.3	1 No. battery charger 24V DC (230V/24V) for emergency lights and alarm panels is to be thoroughly serviced including transformer ( 230V/12V) and defective parts to be repaired/renewed as required for proper operation.	LS	1	No price to be quoted here						No price to be quoted here
2.13.4	Light switch in navigational panel board to check for proper functioning, defective parts to renew as reqd. Nav. Light indicator panel board to be made fully functional. Side light screens to be repaired, renewed as required. 11 nos navigational lights to be checked /repaired and lights to be renewed as necessary. Lump sum rate to be quoted	LS	L.S	No price to be quoted here						No price to be quoted here
2.13.5	2 nos flood lights both in forward & aft to be checked and repaired if reqd.. 02 nos of Search lights on monkey deck to be checked and made fully operational including 360 deg. moving arrangement . Lumpsum rate to be quoted.	L.S	4	No price to be quoted here						No price to be quoted here
2.13.6	2 Nos. self starters for Alternator Engine to be thoroughly overhauled. Defective parts to be repaired/renewed as required. Renewal of parts to be paid extra. Lumpsum rate to be quoted per self starter.	per self starter	2	No price to be quoted here						No price to be quoted here
2.13.7	2 Nos. Alternator driven charging Dynamo for Alternator Engine to be thoroughly overhauled. Defective spares/parts to be repaired/renewed as required. Lumpsum rate to be quoted per dynamo.	per dynamo.	2	No price to be quoted here						No price to be quoted here
2.14	<b>The following equipments are to be thoroughly checked, cleaned and serviced. Defective parts to be repaired/renewed as required.</b>									
2.14.1	Main Switch Board (415V, 3P, 50HZ) all Circuit breakers to examine and clean thoroughly, defective parts to renew, insulation to be checked & recorded. The safety device such as under voltage trip, over current trip etc. to be shown to surveyor, low insulation if any to be rectified. All Megger readings before/after to be submitted. Renewal of spares will be payable extra. Lump Sum rate to be quoted.	L.S	1	No price to be quoted here						No price to be quoted here

2.14.2	Shore Connection Box on the main deck port & stbd. side– (415 V, 3 Phase, 50 Hz.) to be checked , defect if any to be repaired , spare parts to be renewed as necessary. Lumpsum Rate to be quoted per shore box.	per shore box	2	No price to be quoted here						No price to be quoted here
2.14.3	3 nos of Distribution Box – LB (230 V, 50 Hz.) for lighting circuit ,in engine room, bridge and accommodation are to be checked and defect if any to be repaired , spare parts to be renewed as necessary. Rate per box to be quoted.	Per box	3	No price to be quoted here						No price to be quoted here
2.14.4	2 nos distribution Box-LB ( 24V, 50Hz ) one in bridge and another in Steering room is to be checked, defect if any to be repaired. Rate per box to be quoted.	L.S	2	No price to be quoted here						No price to be quoted here
2.14.5	2 Nos. digital RPM meters in engine room, 2 nos in bridge for both Main Engines to be checked/repared and renewed if required. Lumpsum rate to be quoted per RPM meter.	Per RPM meter	4	No price to be quoted here						No price to be quoted here
2.14.6	Electrical Steering operating handle in wheel house and its unit to check and repair as required.Renewal of parts to be paid extra.Lumpsum rate to be quoted	L.S	1	No price to be quoted here						No price to be quoted here
2.14.7	Steering system & stern tube system alarm panel ( 24V DC )in the engine room to be checked , defect if any to be repaired as required.			No price to be quoted here						No price to be quoted here
2.14.8	Windlass motor operating panel including overload trip to be checked and repaired as required. Renewal of parts to be paid extra.Lumpsum rate to be quoted.	L.S	1	No price to be quoted here						No price to be quoted here
2.14.9	Tacho Generators (02 nos) of Propeller Shaft are to be checked and to be repaired if required for proper functioning and satisfaction of the EIC of the vessel. Lumpsum rates per Tachogenerator to be quoted.	per tachogenerator	2	No price to be quoted here						No price to be quoted here
2.14.10	Remote Stop Switch from Wheel House for both main engines , Engine room Supply & Exhaust blowers,accommodation blowers and fuel oil transfer pump to be checked for proper functioning and shown to the Surveyor/EIC of the vessel. Any defect found to be attended as required.Lump sum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
2.14.11	4 Nos. Transformers (440Volts to 220 Volts) to be serviced and shown to be EIC of the vessel for proper functioning. Spare parts required to be renewed as necessary.Lumpsum rate to be quoted per transformer.	Per transformer	4	No price to be quoted here						No price to be quoted here
2.14.12	Defective electrical switches, plugs, plug points, fuse base with carriers are to be checked and to be renewed as required.Lumpsum rate to be quoted.	L.S	25	No price to be quoted here						No price to be quoted here
2.14.13	Engine room blower trunking to clean, defective flaps to overhaul and wire mesh to renew, marking of open/shut to be painted & surveyed.Renewal of trunking will be paid as	L.S	L.S	No price to be quoted here						No price to be quoted here



	per annexure rate. Lump Sum rate to be quoted.									
2.14.14	Tube light fittings 2 feet (2x20w) total 22 nos, 12 nos in Engine Room & 10 nos in Crew accommodation to be checked/repared as required with necessary spares. Renewal of spares will be payable as per Annexure rate. Lumpsum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
2.14.15	Defective Bulb fittings with bulb (100 W) of the vessel are to be repaired as reqd. Renewal of spares will be paid extra. Lumpsum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
2.15	<b>Following motors to dismantle, bearings to examine ( in case of blower, key/impellers also to be examined) heat varnished and insulation to improve, defective bearings, if any, to change. Cost of bearings will be payable extra. Lump sum rate to be quoted per motor. All to be fitted back in position &amp; satisfactory trial to be shown to KoPT representative. Megger readings of all motors before/after dismantling to submit.</b>									
i	Crompton greaves motor for air comp. 5 HP, rpm 950.	Per Motor	2	No price to be quoted here						No price to be quoted here
ii	Salvage pump motor, Crompton greaves 40 HP, rpm-1475.	Per Motor	1	No price to be quoted here						No price to be quoted here
iii	Steering Motor, Make-Bharat Bijlee HP-3, RPM-1440.	Per Motor	1	No price to be quoted here						No price to be quoted here
iv	Domestic FW & SW motor Crompton Greaves 5 HP, rpm-1425	Per Motor	2	No price to be quoted here						No price to be quoted here
v	FO transfer pump motor Power Master 5 HP, rpm-1425 .	Per Motor	1	No price to be quoted here						No price to be quoted here
vi	Bilge and GS pump motor GEC, 7.5 HP, rpm-1450 .	Per Motor	2	No price to be quoted here						No price to be quoted here
vii	Windlass motor, Crompton greaves 7.5 HP	Per Motor	1	No price to be quoted here						No price to be quoted here
viii	E/R blower Crompton Greaves 5 HP	Per Motor	2	No price to be quoted here						No price to be quoted here
ix	Galley Exhaust Blower 1 HP	Per Motor	1	No price to be quoted here						No price to be quoted here
x	Main Engine Gear Box St. By lub oil pump-1 no. Make -air Auto Engg. Co. Capacity-64 LPM, RPM -1440, HP-7.5	Per Motor	1	No price to be quoted here						No price to be quoted here
2.16	Electrically powered horn & air horn to be repaired/renewed , if required meeting recommended SOLAS/DGS specifications for sound appliances. Lumpsum rate to be quoted.	L.S	1	No price to be quoted here						No price to be quoted here
2.17	Wallmounted Cabin fans to be serviced and to be made operational , rate to be quoted per fan.	Per Fan	20	No price to be quoted here						No price to be quoted here
2.18	3 nos Galley hot plates (Watts-7000, Volts-415 , 3-phase ) to be checked/ repaired, spare parts to be renewed as required. All hot plates to be made operational. Lumpsum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
2.19	All machinery, Pumps, Motors, Pipelines etc to be painted as per painting schedule. Lumpsum rate to be quoted	L.S	L.S	No price to be quoted here						No price to be quoted here

2.20	Engine room various floor plates are loose and scattered, to be placed in position and screwed properly inclusive of supply of screw, tapping of holes in the brackets, welding of angles/stops (Steel renewal will be payable on accepted steel rate) Lump sum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
2.21	Engine room all pipelines to be hammer tested. The damaged pipelines to be renewed. Cleaning & Renewal of any pipeline to be done as per EIC's instruction which will be paid as per Annexure rate.Lump sum rate to be quoted.	L.S	L.S	No price to be quoted here						No price to be quoted here
2.22	Emergency lighting circuit including lights( 14 nos of light fittings ) from 24 volts battery circuit to be checked and repaired as necessary.Satisfactory trial to be shown to the surveyor/KoPT representative.Lump sum rate to be quoted.	L.S	1	No price to be quoted here						No price to be quoted here
	GRAND TOTAL									
Rupees (in Ward)		GRAND TOTAL								

## BILL OF QUANTITIES

Tug Kalikata  
ANNEXURE

**ITEMS NOT TO BE CONSIDERED FOR THE EVALUATION OF TENDER  
ANNEXURE COMMON TO ALL**

- ❖ Rate to be given for the following items per unit and these will be evaluated separately depending upon the actual work that may develop. Rates to be operated on the basis of lowest quotation received against the tender. The successful tenderer will have to accept the lowest rate offered by any of the participating firms for each of the item. Payment for additional work if any, will be made according to the rates thus fixed.

Item No.	Description	Rs./Unit	Excise Duty (in%)	VAT (in %)	Other Taxes and duties (in %)	Other charges (in Rs)	Unit rates including of all taxes & duties except Service Tax, Total Value (Rs.)
		A	B	C	D	E	(A+B+C+D+E)=F
	<b>Following rate to be quoted:</b>						
1.1	Rate of skilled labour per day	No price to be quoted here					No price to be quoted here
1.2	Rate of semi skilled labour per day	No price to be quoted here					No price to be quoted here
1.3	Breaking of cement/cement concrete. Rate of such work on per Cu.Mtr. basis	No price to be quoted here					No price to be quoted here
1.4	Laying of cement/cement concrete. Rate of such work on per Cu.Mtr. basis	No price to be quoted here					No price to be quoted here
1.5	Rate per running meter of building up of welding per run with 8 SWG M.S electrodes.	No price to be quoted here					No price to be quoted here
1.6	Rate per running meter of building up of welding per run with 10 SWG M.S electrodes.	No price to be quoted here					No price to be quoted here
1.7	Rate per Sq. meter of chipping, scraping & cleaning.(Tender would be evaluated on the basis of 5.09 mtr)	No price to be quoted here					No price to be quoted here
1.8	Rate per Sq. meter of painting per coat excluding cost of paint which would be paid extra at actual plus 10% handling & transportation charges.	No price to be quoted here					No price to be quoted here
1.9	Rate per Sq Mtr of renewal of blower trunk-way with GI sheets of existing gauge.	No price to be quoted here					No price to be quoted here
1.10	<b>Rate to be quoted per co2 cartridge.</b>						
a.	120gm	No price to be quoted here					No price to be quoted here
b	300 gm	No price to be quoted here					No price to be quoted here
c.	60 gm	No price to be quoted here					No price to be quoted here
1.11	Rate per kg for building up thickness with plastic steel outer steel structure after proper surface preparation and grinding the same smooth for achieving the squareness in one phase as necessary.	No price to be quoted here					No price to be quoted here

1.12	Rate per Sq. Mtr. of Magnesium compound insulation of 50 mm thickness after removal of old one.	No price to be quoted here					No price to be quoted here
2	<b>Rates to be quoted per Kg. of finished work by the following materials :-</b>						
2.1	Cast Iron	No price to be quoted here					No price to be quoted here
2.2	Brass	No price to be quoted here					No price to be quoted here
2.3	White metal	No price to be quoted here					No price to be quoted here
2.4	Stainless steel	No price to be quoted here					No price to be quoted here
2.5	Phosphor bronze	No price to be quoted here					No price to be quoted here
2.6	Admiralty gun metal	No price to be quoted here					No price to be quoted here
2.7	Cast steel	No price to be quoted here					No price to be quoted here
2.8	E.N. Steel	No price to be quoted here					No price to be quoted here
2.9	Mild steel	No price to be quoted here					No price to be quoted here
3	<b>Rate to be quoted for supplying of following items</b>						
a	Supply of empty drums.	No price to be quoted here					No price to be quoted here
b	Assembled fire hose 18.3 mtr length, 63 mm dia with dual type nozzle	No price to be quoted here					No price to be quoted here
c	Assembled fire hose 30 mtr length, 63 mm dia	No price to be quoted here					No price to be quoted here
d	DCP extinguisher ( 4.5 Kg)	No price to be quoted here					No price to be quoted here
e	Mechanical foam extinguisher ( 9 Ltrs)	No price to be quoted here					No price to be quoted here
f	Co2 type extinguisher	No price to be quoted here					No price to be quoted here
g	Tacho generator of propeller shaft/main engine	No price to be quoted here					No price to be quoted here
h	Dial type calibrated F/W temperature gauge (0 to 100 degree celcius).	No price to be quoted here					No price to be quoted here
i	Dial type calibrated Lub Oil temperature gauge (40-130 degree celcius)	No price to be quoted here					No price to be quoted here
j	Tachometer ( 0 - 2000 RPM).	No price to be quoted here					No price to be quoted here
k	Pressure gauges (0 to 10 Kg CM <sup>2</sup> ).	No price to be quoted here					No price to be quoted here
l	Temp. gauges (0 to 100 degree Cent.)	No price to be quoted here					No price to be quoted here
4	<b>PIPE WORK ( during the execution of work, in case if specific size of rates are not available the rate will be calculated by interpolating from the nearest size of pipe),Removal &amp; refitting of pipe lines (MS &amp; GI pipe) : Rates should be quoted per meter</b>						
	<b><u>Size of pipes</u></b>						

a.	12 mm bore	No price to be quoted here					No price to be quoted here
b.	15 mm bore	No price to be quoted here					No price to be quoted here
c	20 mm bore						
d	25 mm bore	No price to be quoted here					No price to be quoted here
e	33 mm bore	No price to be quoted here					No price to be quoted here
f	38 mm bore	No price to be quoted here					No price to be quoted here
g	43 mm bore	No price to be quoted here					No price to be quoted here
h	48 mm bore						
i	60 mm bore	No price to be quoted here					No price to be quoted here
j	75 mm bore	No price to be quoted here					No price to be quoted here
k	88 mm bore	No price to be quoted here					No price to be quoted here
l	115 mm bore						
m	127 mm bore	No price to be quoted here					No price to be quoted here
n	140 mm bore	No price to be quoted here					No price to be quoted here
o	165 mm bore						
p	270 mm bore	No price to be quoted here					No price to be quoted here
4.1	<b>Removal, renewal &amp; refitting of pipe lines : Rates should be quoted per meter</b>						
	<b>MS Pipe</b>						
	<b>Size of pipes</b>						
a.	12 mm bore	No price to be quoted here					No price to be quoted here
b.	15 mm bore	No price to be quoted here					No price to be quoted here
c	20 mm bore						
d	25 mm bore	No price to be quoted here					No price to be quoted here
e	33 mm bore						
f	38 mm bore	No price to be quoted here					No price to be quoted here
g	43 mm bore	No price to be quoted here					No price to be quoted here
h	48 mm bore						
i	60 mm bore	No price to be quoted here					No price to be quoted here
j	75 mm bore	No price to be quoted here					No price to be quoted here

k	88 mm bore	No price to be quoted here					No price to be quoted here
l	115 mm bore	No price to be quoted here					No price to be quoted here
m	127 mm bore	No price to be quoted here					No price to be quoted here
n	140 mm bore	No price to be quoted here					No price to be quoted here
		No price to be quoted here					No price to be quoted here
o	165 mm bore	No price to be quoted here					No price to be quoted here
p	270 mm bore	No price to be quoted here					No price to be quoted here
4.2	<b>GI Pipes</b>						
	<b><u>Size of pipes</u></b>						
a.	12 mm bore	No price to be quoted here					No price to be quoted here
b.	15 mm bore	No price to be quoted here					No price to be quoted here
c	20 mm bore						
d	25 mm bore	No price to be quoted here					No price to be quoted here
e	33 mm bore	No price to be quoted here					No price to be quoted here
f	38 mm bore	No price to be quoted here					No price to be quoted here
g	43 mm bore	No price to be quoted here					No price to be quoted here
h	48 mm bore	No price to be quoted here					No price to be quoted here
i	60 mm bore						
j	75 mm bore	No price to be quoted here					No price to be quoted here
k	88 mm bore	No price to be quoted here					No price to be quoted here
l	115 mm bore	No price to be quoted here					No price to be quoted here
m	127 mm bore	No price to be quoted here					No price to be quoted here
n	140 mm bore	No price to be quoted here					No price to be quoted here
o	165 mm bore	No price to be quoted here					No price to be quoted here
p	270 mm bore	No price to be quoted here					No price to be quoted here
4.3	<b>Removal , Cleaning&amp; refitting of pipe lines- Rates should be quoted per meter</b>						
	<b><u>Size of pipes</u></b>						
a.	12 mm bore	No price to be quoted here					No price to be quoted here

b.	15 mm bore	No price to be quoted here					No price to be quoted here
c	20 mm bore	No price to be quoted here					No price to be quoted here
d	25 mm bore	No price to be quoted here					No price to be quoted here
e	33 mm bore	No price to be quoted here					No price to be quoted here
f	38 mm bore	No price to be quoted here					No price to be quoted here
g	43 mm bore	No price to be quoted here					No price to be quoted here
h	48 mm bore	No price to be quoted here					No price to be quoted here
i	60 mm bore	No price to be quoted here					No price to be quoted here
j	75 mm bore	No price to be quoted here					No price to be quoted here
k	88 mm bore	No price to be quoted here					No price to be quoted here
l	115 mm bore	No price to be quoted here					No price to be quoted here
m	127 mm bore	No price to be quoted here					No price to be quoted here
n	140 mm bore	No price to be quoted here					No price to be quoted here
o	165 mm bore						
p	270 mm bore	No price to be quoted here					No price to be quoted here
4.4	<b>Following valves to be removed, overhauled, and fitted back. Rate to be quoted per valve.Renewal of defective parts to be paid extra.</b>						
	<b>Globe valve</b>						
a.	Up to 25 mm NB	No price to be quoted here					No price to be quoted here
b.	Above 25 mm NB & upto 50 mm NB	No price to be quoted here					No price to be quoted here
c	Above 50 mm NB & upto 75 mm NB	No price to be quoted here					No price to be quoted here
d	Above 75 mm NB & upto 100 mm NB	No price to be quoted here					No price to be quoted here
e	Above 100 mm NB & upto 125 mm NB	No price to be quoted here					No price to be quoted here
f	Above 125 mm NB & upto 150 mm NB	No price to be quoted here					No price to be quoted here
5	<b>Rate per running mtr. of renewal of Electrical Cable. Rates should be quoted per meter</b>						
5.1	1.5 Sq. mm, Single Core	No price to be quoted here					No price to be quoted here
5.2	1.5 Sq. mm, 2 Core	No price to be quoted here					No price to be quoted here
5.3	4 Sq. mm, 2 Core	No price to be quoted here					No price to be quoted here

5.4	4 Sq. mm, 3 Core	No price to be quoted here					No price to be quoted here
5.5	16 Sq. mm, 3 Core	No price to be quoted here					No price to be quoted here
6	<b>Rate per running mtr. of removal &amp; refitting of Electrical Cable. Rates should be quoted per meter</b>						
6.1	1.5 Sq. mm, Single Core	No price to be quoted here					No price to be quoted here
6.2	1.5 Sq. mm, 2 Core	No price to be quoted here					No price to be quoted here
6.3	4 Sq. mm, 2 Core	No price to be quoted here					No price to be quoted here
6.4	4 Sq. mm, 3 Core	No price to be quoted here					No price to be quoted here
6.5	16 Sq. mm, 3 Core	No price to be quoted here					No price to be quoted here
7	<b>Rate per running mtr. of removal and refitting of Electrical Cable trays with wire/cable. Rates should be quoted per meter</b>						
7.1	1.5 Sq. mm, Single Core	No price to be quoted here					No price to be quoted here
7.2	1.5 Sq. mm, 2 Core	No price to be quoted here					No price to be quoted here
7.3	4 Sq. mm, 2 Core	No price to be quoted here					No price to be quoted here
7.4	4 Sq. mm, 3 Core	No price to be quoted here					No price to be quoted here
7.5	16 Sq. mm, 3 Core	No price to be quoted here					No price to be quoted here
8	Rate per removal and refitting of fans	No price to be quoted here					No price to be quoted here
8.1	Rate per renewal of light fittings.	No price to be quoted here					No price to be quoted here
8.2	Rate per choke ( specification-20W,220 V ) of tube fittings	No price to be quoted here					No price to be quoted here
8.3	Rate per removal and refitting of lights with fittings.	No price to be quoted here					No price to be quoted here
8.4	Rate per Sq. meter of removal and refitting of insulation of engine exhaust pipe.	No price to be quoted here					No price to be quoted here
8.5	Rate per Sq. meter for renewal of Insulation of engine exhaust pipe.	No price to be quoted here					No price to be quoted here
8.6	Rate per cubic ft removal of wooden plank	No price to be quoted here					No price to be quoted here
8.7	Rate per cubic ft.of refitting of good existing wooden plank	No price to be quoted here					No price to be quoted here
8.8	Rate per cubic ft. of renewal of wooden plank of good quality Sal wood	No price to be quoted here					No price to be quoted here
8.9	Rate for supply of 220 V AC Cabin fan with one year guarantee.	No price to be quoted here					No price to be quoted here
9	Rate to be quoted per Mtr. of renewal of packing upto size 1" X 1" .	No price to be quoted here					No price to be quoted here
9.1	Rate to be quoted per Mtr. of renewal of packing above size 1" X 1" & upto 1 1/2" X 1"	No price to be quoted here					No price to be quoted here



9.2	Rate to be quoted per Mtr. of renewal of packing size above 1" X 1" & upto 1" X 1 1/2"	No price to be quoted here					No price to be quoted here
9.3	Rate to be quoted per motor for rewinding.	No price to be quoted here					No price to be quoted here
a.	0.5 HP Motor	No price to be quoted here					No price to be quoted here
b	1 HP Motor	No price to be quoted here					No price to be quoted here
c.	2 HP Motor	No price to be quoted here					No price to be quoted here
d.	5 HP Motor	No price to be quoted here					No price to be quoted here
e.	7.5 HP Motor	No price to be quoted here					No price to be quoted here
9.4	Rate to be quoted per new navigational light fittings as per sample.	No price to be quoted here					No price to be quoted here
9.5	Truck tyre fenders as per sample rate per piece.	No price to be quoted here					No price to be quoted here
9.6	Heavy duty tyre on the bow as per sample rate per piece.	No price to be quoted here					No price to be quoted here
9.7	Double truck tyre as per sample one on either side rate per piece.	No price to be quoted here					No price to be quoted here
9.8	If recommended and duly approved by the surveyor new rudder stock to be made as per sample/drawing,.Lump sum rate to be quoted for one rudder stock.	No price to be quoted here					No price to be quoted here

## ANNEXURE