



V.O.CHIDAMBARANAR PORT TRUST

Mechanical and Electrical Engineering Department

[E-TENDERING](#)

TENDER DOCUMENT FOR

Dry docking and Survey repair works on Pilot launch ML. Musal

Tender No. MEE/SE2P1/MEC/Musal/2019

TENDERS WILL BE DOWNLOADED ONLINE FROM 17-07-2019 TO 06-08-2019 (up to 15:00 Hrs.). COMPLETED TENDERS ARE TO BE SUBMITTED ONLINE ON OR BEFORE 15:00 HRS on 06.08.2019 AND TECHNICAL BIDS WILL BE OPENED AT 15:30 HRS on 06.08.2019

The Chief Mechanical Engineer
Mechanical & Electrical Engineering Department
V.O.Chidambaranar Port Trust
TUTICORIN - 628004
Phone: 0461-2352270
Fax: 0461 - 2354274

Dry docking and Survey repair works on Pilot launch ML. Musal

<u>SUB:</u> “Dry docking and Survey repair works on Pilot launch ML. Musal-Reg”
Ref : MEE/SE2P1/MEC/Musal/2019

Respected Sir,

1	The tenderers are strongly advised to read the whole document carefully and submit their tender/bid strictly meeting with the requirements spelt out in the tender document.
2	The tenderers must submit independent documentary evidence to establish that "MINIMUM QUALIFYING CRITERIA" as spelt out in the tender notice and tender document is fully met with irrespective of the fact that the tenderer might have submitted similar evidence to VOCPT in respect of some other works.
3	If your submission is found deficient with reference to the requirements spelt out in the tender document, it may be rejected.

Thanking you.

Yours faithfully,

Chief Mechanical Engineer

V.O.CHIDAMBARANAR PORT TRUST
MECHANICAL AND ELECTRICAL ENGINEERING DEPARTMENT
TUTICORIN - 628 004

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V.O.CHIDAMBARANAR PORT TRUST
Mechanical and Electrical Engineering Department
E- TENDER- NOTICE INVITING TENDER (NIT)
Only through E-Tendering Mode
VOCPT E-Tendering Website: www.tenderwizard.com/VOCPT

Tender No. MEE/SE2P1/MEC/Musal/2019

On line Tenders (in Two Bid system) are invited by V.O.Chidambaranar Port Trust Tuticorin from reputed contractors for fulfilling Minimum Qualifying Criteria as stipulated in this notice for the work of “Dry docking and Survey repair works on Pilot launch ML. Musal - Reg”.

1	Estimate value of work	Rs.64,46,750/- plus GST
2	Bid Security (EMD)	Rs.1,28,935/- (Rupees One Lakh Twenty Eight Thousand Nine Hundred and Thirty Five only) in the form of NEFT/RTGS to the bank account of V.O.Chidambaranar Port Trust.
3	Downloading of tender document from VOCPT online e-tendering website.	17.07.2019 to 06.08.2019
4	Last date & Time for submission of tenders online.	upto 15:00Hrs on 06.08.2019
5	Online technical bid opening date and time	At 15:30 Hrs on 06.08.2019.
6	Period of completion of work	90 days
7	Validity of tender	180 days from the bid due date.
8	Name of the officer processing the tenders	Chief Mechanical Engineer, Mechanical & Electrical Engineering Department, V.O.Chidambaranar Port Trust, Tuticorin-628004.

For further details please visit port web-site www.vocport.gov.in

CHIEF MECHANICAL ENGINEER

Dry docking and Survey repair works on Pilot launch ML. Musal

SECTION - I NOTICE INVITING TENDER

1.1 TENDER NOTICE:

Electronic Tenders (Online) are invited in '**TWO BID SYSTEM**' on behalf of **V.O.CHIDAMBARANAR PORT TRUST (VOCPT)** from reputed and experienced firms for the work of "Dry docking and Survey repair works on Pilot launch **ML. Musal - Reg**". (Tender No. **MEE/SE2P1/MEC/Musal/2019**).

The tenderer must fulfill the Minimum Qualifying Requirements and other requirements stipulated in the tender.

The tender shall remain valid for acceptance for a period of 180 days from the bid due date. The period of completion of work is **90 days from the date of signing of agreement**.

Tender Document having all details is available at the URL of the e-Tender Portal <https://www.tenderwizard.com/VOCPT>. The interested tenderers are needed to register in the website name www.tenderwizard.com/VOCPT by clicking "Register Me" option in order to obtain USER ID & Password first then to activate USER ID pay **Rs.5,700/-** through E-payment in favour of '**KEONICS**', **Bangalore**. The tender documents are required to be submitted only through e-mode offered in the website www.tenderwizard.com/VOCPT. Tenders in any other manner will be rejected and no correspondence on such matter will be entertained. The intending bidders after obtaining User ID and passwords are required to upload the scanned copies of particulars items mentioned in the "Check List - I" of the tender document in order to receive the bidding document.

VOCPT Tender Document/Tender Form: The tender documents can be downloaded from VOCPT Website www.vocport.gov.in through "E-tendering link: <https://www.tenderwizard.com/VOCPT>".

EARNEST MONEY DEPOSIT: Earnest Money Deposit of Rs.1,28,935/- may be paid to the bank account of V.O.Chidambaranar Port Trust through NEFT/RTGS from any Nationalized/Scheduled bank. EMD in any other form will not be accepted and the bid without EMD will be rejected.

VOCPT DETAILS OF BANK ACCOUNT FOR MAKING PAYMENT RTGS/NEFT:

A	Name and Address of the Bank	Indian Overseas bank, Harbour, Tuticorin-628004.
B	Name of the branch	Harbour branch
C	IFSC code	IOBA0000143
D	Account no	0143010000000001
E	Type of account	Savings account
F	Beneficiary's Name	V.O.Chidambaranar Port Trust

IMPORTANT INSTRUCTIONS AND GUIDELINES TO TENDERERS FOR E-TENDRING

Tenders Only Through E-Tendering Mode. (www.tenderwizard.com/tenders)

Note: Instructions for Tenderer:-

- 1) VOCPT Tenders through online/e-tendering only.
- 2) "Interested tenderers who are not registered with KEONICS must register to obtain the USER ID and PASSWORD by E-payment of Rs. 5,700/- in Favour of "KEONICS".
- 3) If original DD for cost of EMD / TENDER FORM FEES which was uploaded while submitting tenders is not received with Hard copies of Technical Bid then such tenderer are not considered for evaluations, tenderers may ensure for the same.
- 4) VOCPT and KEONICS will not entertain and will not accept any reasons of Tenderer due to Net Connection Failure/Current Connection Failure and any issues during the filling of tender online. Tenderer will be responsible for all

those facts and failure of Net Connectivity, Current Connectivity and they should be at their own risk. VOCPT and KEONICS will not take any liabilities and claims for failure of Network and problem arise during the submission of the tender forms online.

- 5) VOCPT E-TENDER WEBSITE ARE: www.tenderwizard.com/VOCPT or go to VOCPT website and click on “E-TENDERING” LINK for accessing the site.
- 6) Employer may verify the original documents as submitted in the e-tendering process.
- 7) The tender document will not be issued to the tenderers who had litigation against the VOCPT. If such tenderers submit the tender document downloaded from the web site, the same will not be considered and the amount paid towards the cost of document will not be refunded.
- 8) The tenders shall be accompanied by the proof for the payment of EMD for the amount specified at Section- I (1.1). in the form of NEFT/RTGS paid on any Nationalized or Scheduled bank having its branch at Tuticorin, in favour of the Financial Adviser & Chief Accounts Officer, V.O.Chidambaranar Port Trust, without which the Tender will not be considered. EMD in any other form will not be accepted.
- 9) Tenders which are in any way incomplete will not be considered. The Ports reserves the rights to waive any formality thereof or to reject any or all the tenders without assigning any reason and not bound itself to accept the lowest tender.
- 10) This tender document shall form part of the contract agreement.
- 11) The tenderer should adhere to Labour Act as per Labour commission.
- 12) The winning bidder has to pay 0.9% of tender award value, subject to a maximum cap of Rs. 20,000/- plus GST, whichever is less.

SECTION - II INSTRUCTION TO TENDERERS

1. GENERAL:

On behalf of the Board of Trustees of the V.O.Chidambaranar Port Trust, the Chief Mechanical Engineer, V.O.Chidambaranar Port Trust invites E-tenders in from reputed firms with proven ability for ***“Dry docking and survey repair works on Pilot launch ML Musal -Reg”***.

2. DEFINITIONS AND INTERPRETATIONS:

In the contract, as hereinafter defined the following words and expressions shall have the meaning hereby assigned to them except where the context otherwise requires.

1. “Board” :- The Board means the Board of Trustees of the V.O.Chidambaranar Port, a body Corporate under the Major Port Trusts Act 38 of 1963 represented by the Chairman, and as amended from time to time also Employer herein after called “Board”
2. “Engineer means the Chief Mechanical Engineer of the V.O.Chidambaranar Port Trust and his successors.
3. “Engineer”, in-charge/Engineer representative means the Executive Engineer or a officer appointed by him in writing who shall direct and supervise and be in charge of the works.
4. “Contract” means the documents forming the tender and acceptance thereof and the format agreement executed between the Port Trust and contractor together with the documents referred to therein including the General conditions, special conditions of contract, specifications designs Drawings. Priced Bill of quantities and instruction issued from time to time by the Engineer - in-charge and all the these documents taken together shall be deemed to form one contract and shall be complementary to one another.
5. “Contractor” means the person or persons or firm or company whose tender has been accepted by the Board and the legal personnel representatives or the

successors of such firm or company and the permitted assigns of such persons or firm or company.

6. "Contract Price" means the sum named in the tender subject to such additions thereto or deductions there from as may be made under the provisions here in after contained.
7. "Drawings" means the drawing referred to in the contract agreement and any modifications of such drawings approved in writing by the Chef Mechanical Engineer and such other drawings as may from time to time be furnished or approved in writing by the Chief Mechanical Engineer.
8. "Site" means lands and other places on / under / into / in / or through which the "work" are to be executed or carried out and any other lands or places provided by the Board for the purposes of the contract. "Works" or "Works" means the work by virtue of the contract to be executed in accordance with the contract under the relevant schedule whether temporary or permanent and whether original, altered' substituted or additional.
9. "Schedules" referred to in these conditions shall means the relevant schedule (s) annexed to the tender papers issued by Employer.
10. "Approved" means approved in writing including subsequent written confirmation of previous verbal approval and "Approval" means approval in witting including as aforesaid.
11. "A day" means a day 24 hours from midnight to the next midnight irrespective of the numbers of hours worked in that day.
12. "A week" means seven days without regard to the number of hours worked in any day in that week.
13. "A month" means month according to Gregorian Calendar.
14. "Urgent works" Shall mean any urgent measures which in the opinion of the Engineer-in-charge become necessary during the progress of the works to obviate any risk of accident or failure or which become necessary for security.
15. "Constructional Plant" means all appliances or things of whatsoever nature required in or about the executions, completion or maintenance of the 'work'

or 'temporary works' (as hereinafter defined) but does not include materials or other things intended to form or forming part of the permanent work.

16. "Temporary works" means temporary works of every kind required in the execution completion or maintenance of the works and which do not form an item of the work or works.
17. "Trust's Stores" means the storage yards for materials of the Trust any where in the harbour premises.
18. "Market Price" means the rate as decided by the Engineer on the basis of the cost of materials and labour to the contractor at the site where the works are to be executed plus the percentage mentioned in schedule to cover all over heads and profit.

3. Downloading of Tender from VOCPT on line e-tendering web site:

The complete set of tender documents including forms, conditions of contract, work specifications, etc. will be issued on contractors registered through e-tendering website www.tenderwizard.com/VOCPT from 17.07.2019 to 06.08.2019 (up to 15:00 Hrs).`

The instructions for submitting e-tender is given in the e-tendering website www.tenderwizard.com/VOCPT.

The following scanned copy documents to be uploaded while submitting tender:

a) Cover-I

- 1) The scanned copy of the counterfoil for NEFT/RTGS, towards the payment of Earnest Money Deposit, to be uploaded.
- 2) Scanned copy of Notary attested Particulars with regard to experience (work order with detailed BOQ and satisfactory completion/ performance certificate with value of work done) as detailed under Section- II [5] Minimum Eligibility Criteria for Pre-Qualification.
- 3) Copy of Income Tax Permanent Account Number card .
- 4) Certificate of statutory auditor for average annual turnover as required under Section-II, Clause 5(1) as per Annexure-3 to be uploaded.

- 5) The scanned copy of GSTIN No. & Certificate of Registration shall be enclosed along with tender to be uploaded.

b) Cover-II

The Schedule of Prices to be indicated in the respective columns shown in the e-tendering Website.

The following hard copy documents to be sent after submitting tender online:

a) Cover-I

- 1) The tenderer shall enclose Notary attested Particulars with regard to experience (work order with detailed BOQ and satisfactory completion/ performance certificate with value of work done) as detailed under Section- II [5] Minimum Eligibility Criteria for Pre-Qualification.
- 2) The tenderer shall enclose Income tax Permanent Account Number card.
- 3) Certificate of statutory auditor for average annual turnover as required under Section-II, Clause 5(1) as per Annexure-3.
- 4) The original tender document duly signed in all pages (excluding schedule or price / rates for execution of work) issued by the Port duly filled in all the blank space to be signed on each page with their official stamp.
- 5) GSTIN No & Certificate of Registration shall be enclosed along with tender.
- 6) Copies of original documents defining the constitution or legal status, place of registration and principal place of business, written power of attorney of the signatory of the bid to commit the bidder in Non-Judicial Stamp paper.
- 7) Declaration that the tenderer has not been banned/delisted/ black listed by any Govt./semi-Govt. organization or PSU in original to be submitted.
- 8) An undertaking to the effect that no change has been made in Tender document issued.
- 9) Specimen letter of authority from bank along with Bank Guarantee as per (Annexure-6).
- 10) Exception and Deviation as per Annexure-5.

The above document shall be enclosed in the first cover which shall be sealed and superscribed, **Dry docking and survey repair works on Pilot launch ML Musal -**

Cover No-1”, and bear on the bottom left corner, the name and full address of the tenderer with his official stamp. The tenderer should ensure that the Schedule of price is not enclosed in Cover No.1. **The completed tender should be submitted only through online in e-tender website Tender Wizard on or before 06.08.2019 up to 15.00 Hrs. The online submitted tenders will be opened in the e tender website Tender Wizard on 06.08.2019 at 15.30 hours, in the presence of tenderers who wish to be present at the time of opening.**

b) Cover-II

The Schedule of Prices to be indicated in the respective columns shown in the e-tendering Website.

4. EVALUATION:

Cover-II shall contain only the Price Bid as per the format given in Section-VI. No other documents shall be enclosed in cover-II.

- i. Cover-I containing the technical documents to shortlist the eligible tenderers will be opened through e-tender procedure on the scheduled date and time i.e on **06.08.2019** at 15.30 hrs. in the presence of such tenderers who wish to be present at the time of opening.
- ii. After opening the first cover and getting the required technical/commercial clarifications based on the information given, Port Trust will prequalify the eligible tenderers.
- iii. The tenderers will be prequalified based on the documents contained in Cover No.1. The cover No.2 submitted online by the pre-qualified tenderers alone will be opened through e-tender procedure on a subsequent date which will be intimated to the pre qualified tenderers through e-mail and post. The decision of the Port Trust in pre qualifying the eligible tenders will be final.
- iv. The terms of tender schedule, conditions of contract, etc. shall not be defaced or detached from the documents.
- v. The V.O.Chidambaranar Port Trust shall have no liability to the tenderer in respect of any expenses incurred by him, direct or indirect, in preparing and/or submitting the tender.

5. MINIMUM ELIGIBILITY CRITERIA:

- 1) **Financial:** Average annual turnover 30% of the estimated value of Rs. 64,46,750/- during the last 3 years (2015-16, 2016-17, 2017-18) should be at least Rs. 19,34,025/-.
- 2) **Experience:** Experience of having successfully completed similar works during the last seven years up to date of publication of the NIT.
 - * Three similar completed works each costing not less than Rs. 25,78,700/-
(OR)
 - * Two similar completed works each costing not less than Rs. 32,23,375/-
(OR)
 - * One similar completed work each costing not less than Rs. 51,57,400/-

Note: The tenderer shall clearly indicate the value of similar works completed during last seven years up to the date of publication of the NIT for satisfying the eligibility criteria.

- 3) **Similar work means:** Similar work means must have successfully carried out repairs to Hull, Steel Renewal, Dry Docking Repairs, Overhauling/Repairs of Deck Machineries, pipelines and all auxiliary machineries on ships/tugs/ motor launches towards fulfilling requirements of IRS/D.G Shipping/beaching & unbeaching works/new construction of self-propelled steel vessels etc.

Note: The tender which does not satisfy the pre-qualification criteria as mentioned above shall summarily be rejected and shall not be considered for further evaluation.

- 4) **The tenderer should furnish the details of experience during last seven years.**

6. EARNEST MONEY DEPOSIT:

Earnest Money: Rs. 1,28,935/- (Rupees One Lakh Twenty Eight Thousand Nine Hundred and Thirty Five only) The EMD of Rs. 1,28,935/- may be paid to the bank account of V.O.Chidambaranar Port Trust through NEFT/RTGS from any Nationalized/Scheduled bank.

The Earnest Money transferred by the unsuccessful tenderers will be refunded within fifteen days of deciding the L1 without interest. The Earnest Money transferred by the successful tenderer will be adjusted towards Security Deposit and will be refunded after the completion of contract period or after furnishing bank guarantee towards Security Deposit including EMD. Whenever there is a delay in commencement of work, the EMD shall be forfeited. The EMD will not bear any interest.

In case of any bidder found indulged in corrupt, fraudulent, coercive, undesirable and restrictive practices during the bidding process, VOCPT is entitled to forfeit the EMD and debar the bidder for a period not exceeding three years.

7. PERFORMANCE SECURITY:

The contractor shall deposit an amount equal to 5% of the accepted tender value as Performance Security through NEFT/RTGS from the Nationalised / Scheduled commercial bank having net worth of above Rs.100 crores having its branch at Tuticorin and payable at Tuticorin in the form as per specimen in the Schedule. A letter from the Bank shall also be sent along with the Bank guarantee directly to the Employer within 15 days of placement of work order or before the commencement of work whichever is earlier. However, the Chief Mechanical Engineer may relax the time limit of 15 days and extend it by further period of 10 days in extraordinary circumstances for the reasons recorded by him. If the performance Security is not deposited in time as prescribed above, the work order shall stand cancelled automatically and the Earnest Money Deposit will be forfeited. The performance security will remain in force throughout the period of contract including the defects liability period of 12 months after the date of completion of works, and will be refunded thereafter. The contractor shall furnish the BG towards performance security by the issuing bank directly to the port. This amount will not bear any interest.

8. SECURITY DEPOSIT:

Security Deposit at 10% will be deducted from each running bill after adjusting the amount already deposited by the contractor as EMD subject to a maximum accumulation of 5% of the contract price. The amount being held in deposit as

Dry docking and Survey repair works on Pilot launch ML. Musal

security for satisfactorily maintaining the works free from defects for a period of 12 months after the date of completion of works. If during this period of 12 months any defects are notified which in the opinion of the Chief Mechanical Engineer are due to bad materials used and / or defective workmanship, the contractor shall be required to carry out at the contractor's cost, such repairs as the Chief Mechanical Engineer considers necessary or in the event of contractor failing to do this within a notified time, the Chief Mechanical Engineer may arrange for such repairs to be carried out and deducted the cost of such rectification of the defects from the amount retained without prejudice to the recovery of any amount that may have been spent in excess of this deposit. For the purpose of this clause, the period of 12 months shall count from the date of handing over of the works by the contractor to the Chief Mechanical Engineer. The amount as stated will not bear any interest.

9. PERIOD OF WORK:

The entire work will be required to be completed within 90 days on handing over of the Pilot launch ML Musal by the Port. The extension of time, if any, will be granted for completion of work, subject to the discretion and options of the Chief Mechanical Engineer for the following justified reasons.

- (i) To carry out the excess quantity of existing work, if any, in addition to the existing quantity.
- (ii) To carryout additional work as recommended by IRS/MMD after beaching, under water survey and stage Inspection.
- (iii) Any other excess/ additional work in order to comply with Statuary requirements of classification society.

10. EXTENSION OF TIME FOR COMPLETION:

The Contractor shall commence the works on site within the period named in the Tender after the receipt by him of an order in writing to this effect from the Engineer and shall proceed with the same with due expedition and without delay except as may, be expressly sanctioned or ordered by the Engineer or be wholly beyond the Contractor's control. The Contractor shall maintain the rate of progress required as per schedule. If the progress of work is held up owing to circumstances

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which, in the opinion of Engineer are beyond the control of the Contractor such as war, stormy weather and for other reasonable causes as per clause 9 of Section-II above, the Engineer may, at his discretion, grant to the Contractor such extension of time as he considers reasonable for the completion of the work. In such circumstances, the Contractor shall apply for extension of time within 15 days of the hindrance on account of which he desires such extension as aforesaid.

The execution of the work during the extended period also shall be only under the conditions and at the rate specified in the contract.

No claim shall be made by the Contractor on the grounds of executing the work beyond the completion period stipulated in the contract.

11. RATES TO BE FIGURES AND WORDS:

The tenderer shall quote the rate in Indian Rupees and in English, in figures as well as in words inclusive of, Customs duty import duty, VAT etc., the rates tendered by him in the concerned proforma of the tender and in such a way that interpolation is not possible. The tendered amount for the work shall be entered in the tender form and duly signed by the tenderer and enclosed and sealed in cover No.2” In case of any discrepancy between figures and written words, the rates in words shall be taken as the quoted price.

In order to comply the statutory requirements of IRS/MMD during their stage inspection after beaching, if the tenderer is requested to carry out any additional work other than the scope of work mentioned in the tender, the same work shall be completed by the tenderer for which the tenderer will be requested to quote their reasonable rate and the same will be paid after getting approval of competent authority.

12. CORRECTION/VARIATION:

- i) All corrections and alterations in the entries of the tender documents shall be attested with full signature of the tenderer with date. No erasures or over-writings are permissible.

- ii) The tenderers should not send any revised or amended offers after the opening of the tender. No such document will be entertained. The Board also do not accept offers with the price variation clause.
- iii) The prices and amounts entered in the schedule of price shall represent the tenderers offer for the work generally in accordance with work specifications and purpose given in this tender.
- iv) Deviation: Tender should be completed in all respects for taking a decision immediately on opening of the tender. In the absence of tenderers disagreement to any particulars clause, it will be construed that they are agreeable to such ports conditions where they have not expressly deviated.

13. SIGNING OF TENDER:

The tender shall be signed only by the parties who are themselves in a position to undertake the work and possessing all other resources required for the purpose. The tender shall contain the name, residence and place of business of the person or persons submitting the tender and shall be signed by the tenderer with his usual authorized representatives followed by the name and designation of the person signing the document along with a copy of the partnership deed. Tender by a corporation shall be signed in the name of the corporation by a duly authorized representative, and a power of attorney in that behalf shall accompany the tender. A copy of the constitution of the firm with the names and addresses of all the partners shall be furnished. In the case of company, a copy of the Memorandum and Articles of Association shall be furnished.

Tenders may be submitted by agents on behalf of their principals, but in such cases the Board reserves the right to enter into contract with the principals director with the principals and agents jointly as deemed appropriate.

14. WITNESS:

Witness shall be persons of status and property and their names, occupations and addresses shall be furnished below their signatures.

15. ALL PAGES TO BE SIGNED:

All signatures in the tender documents shall be dated. All pages of all section of the original tender documents shall be signed with date and seal at the lower right hand corner and also signed wherever required in the tender document by the tenderers or by a person holding power of attorney to sign on behalf of the tenderer before submission of the tender.

16. RIGHT OF THE BOARD TO ACCEPT OR REJECT THE TENDER:

The Board does not bind itself to accept the lowest tender and reserves the right to reject any or all tenders received without assigning any reason, whatsoever. Tenders in which any of the particulars and prescribed information are inadequate or incomplete in any respect and / or the prescribed conditions are not fulfilled are liable to be rejected. Canvassing in any form by the tenderers will result in their tender being rejected.

17. TRANSFER OF TENDER DOCUMENTS:

Transfer of tender documents purchased by one intending tenderer to another is not permissible.

18. Taxes & Duties including GST.

GST

GST If any chargeable extra, may be clearly indicated in the price schedule available in the e-tendering website.

Goods and Services Tax:

1. As per GST Act, invoice in the prescribed format has to be issued by a registered dealer on or before the time when goods are removed for supply(where supply involves movement) on or before the time when delivery is received by the recipient(where movement of goods is not involved)
2. The law has laid down conditions to avail GST input tax credit on supply of Goods or services. All of the following conditions need to be satisfied to avail GST input credit:

- The dealer should be in possession of Tax Invoice/Debit or credit Note/Supplementary Invoice issued by a supplier registered under GST Act.
 - The said goods/services have been received.
 - Returns (GSTR-3) have been filed
 - The tax charged has been paid to the Govt. by the supplier
3. As a service provider, contractors /professionals etc shall issue the invoice within 60 days to the Port from the date of providing service. If the invoice is not issued within the time limit, then penalty and/or interest shall be applicable. If any of the contractors/ professionals do not issue invoices as aforesaid and do not file tax return by due date, Port cannot avail the ITC. Further, Port has to pay the said ITC availed with interest and penalty as applicable under GST rule. Therefore, in the event of default of the contractor on the above grounds, the said amount paid/payable to the Government by Port shall be recovered from any money due to the contractor or adjusted against the performance security/security deposit.
4. For any correction in invoice claimed, it shall be throughout Debit note/credit note/supplementary invoice only, as all the invoices are to be uploaded in the GSTIN portal All suppliers and contractors including professionals are to be requested to comply with the above provisions without any omission in respect of ongoing contracts. If the existing suppliers/contractors / professionals do not comply with the above provisions payment will not be released and Port will not be liable on any account to be aforesaid.

a) Income Tax

Income Tax and surcharge as applicable will be deducted at source by V.O.Chidambaranar Port in accordance with Income Tax Act at the rate applicable from time to time and in accordance with instruction issued by INCOME TAX Authorities on this behalf from time to time. The consultant

shall furnish his PAN details or a copy of Income Tax exemption certificate if any.

b) GST

The firm shall furnish GSTIN Number and copy of certificate of registration duly attested by Notary.

19. OPENING AND ACCEPTANCE OF TENDER:

Cover-I containing the technical documents to shortlist the eligible tenderers will be opened through e-tender procedure on the scheduled date and time i.e on **06.08.2019** at 15.30 hrs. in the presence of such tenderers who wish to be present at the time of opening.

After the verification of first cover and getting the required technical/commercial clarifications based on the information given, Port Trust will prequalify the eligible tenderers.

The cover 2 containing the price bid document will be opened through e-tender only for those tenderers who are shortlisted and technically pre- qualified in cover-I. The date and time of opening of the No.2 cover will be informed to the qualified tenderers.

Tenders submitted by tenderers shall remain valid for acceptance for a period of 180 days from the date of opening of the tenders. The tenderer will not be allowed during the declared period of validity to revoke or cancel his tender or to vary any term thereof, without the consent in writing of the Chief Mechanical Engineer.

20. ADDENDA / CORRIGENDA:

Addenda/Corrigenda to the tender documents will be issued by the Chief Mechanical Engineer prior to the date of opening of the tenders, to clarify or reflect modifications in the contract terms and conditions.

Such addendum/corrigendum will be distributed to each firm or person who had purchased the tender documents. Tenderers who are unable or unwilling to bring their tenders to conform to the requirements of the Board are liable to be rejected.

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21. COLLECTION OF DATA - TENDERER'S RESPONSIBILITY:

The tenderer shall visit the Port and Pilot Launch ML Musal and acquaint himself fully with the site and local conditions and no claims whatsoever will be entertained on the plea of ignorance or difficulties in the execution of the work. Before submitting the tender, the tenderer shall be deemed to have clearly understood and satisfy himself regarding the work and services, all conditions liable to be encountered during the execution thereof and that prices, rates and/or compensation quoted in the offer are adequate and all inclusive with respect to all factors, circumstances and conditions likely to be incidental, both direct and indirect, to the work and services.

The prices and amount quoted by the tenderer shall allow for all costs, including escalation of labour, transport, insurance fees, increase in cost due to government and other charges, direct and indirect, till the work is completed in accordance with the scope of the contract and contract period.

22. AMBIGUITY:

Should there be any ambiguity or doubt as to the meaning of any of the tender clauses/conditions or, if any further information is required, the matter should immediately be referred to the Chief Mechanical Engineer, V.O.Chidambaranar Port Trust in writing, whose interpretation shall be final and binding.

23. TENDERER'S COMMENTS:

Any comments which the tenderer desires to make shall not be placed in the annexed documents but shall take the form of a separate statement in the English language and giving reference to page, clause or item numbers and shall be submitted along with the tender in the cover No.1.

24. SIGNING THE CONTRACT:

The successful tenderer shall be required to execute an agreement in the proforma prescribed by the V.O.Chidambaranar Port trust (draft enclosed in the document) on Tamil Nadu Government State stamp paper of the required value within 15 days from the date of issue of the notice of acceptance of the tender. In the event of failure on the part of the successful tenderer to execute the agreement within the

Dry docking and Survey repair works on Pilot launch ML. Musal

above stipulated period, or the period agreed by the Port, the Earnest Money or security deposit deposited by him will be forfeited and apart from that the Board being in such circumstances entitled to treat the successful tenderer as in breach of contract and proceed accordingly

25. JURISDICTION:

The award of contract for the work “Dry docking & survey repair works on pilot Launch ML Musal” is subject to the legal jurisdiction of the Tuticorin (Tamil Nadu) regarding any matters concerning the contract.

26. DETERMINATION OF RESPONSIVENESS:

The tender which does not satisfy the terms and conditions as mentioned in the tender, shall summarily be rejected and shall not be considered for further evaluation. The owner will scrutinize tenders to determine whether the tender is substantially responsive to the requirements of the tender document. For the purpose of this clause a substantially responsive tender is one which inter-alia confirms to all the terms and conditions, general conditions of the entire tender documents without any deviation (or) reservation. A tender which in relation to the estimated rates, is unrelating will be rejected as non- responsive. The decision of the Port shall be final in this regard.

27. INSTRUCTIONS TO TENDERERS TO FORM PART OF THE CONTRACT:

All these instructions conditions, special conditions, if any, work specifications contained in the tender document and any correspondence related to this Contract shall form part of the agreement.

28. INSPECTION OF SITE:

The tenderer is advised to visit the Port and the Pilot Launch ML Musal before submitting their sealed offers in order to ascertain the nature of work involved, prior to pre-bid meeting to access the quantities of various BOQ. The tenderer will be allowed to see the various drawings in support of all the machineries and fittings before submitting their tender.

29. PRECAUTION AGAINST AIR AND WATER POLLUTION:

Every precaution shall be taken by the contractor to prevent air and water pollution resulting from his operations as per requirement of the appropriate authorities. The hazardous waste shall be disposed off only to the genuine processors having requisite approval in accordance with implementation of hazardous waste rules 1989, notified tender environment Act, 1989 and rules regulations made there under from time to time.

30. LABOUR:

1. The contract labourers / employees shall display their identity card while inside the Port area.
2. The contractor shall furnish the personal particulars of their labourers / employees. Also the contractors shall give an undertaking for the good conduct of their labourers / employees inside port area.
3. The contractor shall allow his labourers the government notified national and local festival holiday and also such closed holidays for the Port declared by the employer and also have due regard to local religious and social customs in respect of labourers employed by him.

31. COMPENSATION FOR DELAY (LIQUIDATED DAMAGES):

If the contractor fails to complete the work in all respects within the time specified or within the extended time that may be allowed by the Port as per clause 9, the contractor shall pay or allow the board to deduct a sum equivalent to 1% per week or part thereof on the total value of the contract subject to a maximum of 10% of the total value of contract as Liquidated or Ascertained damages and not by way of penalty, for every week or part thereof beyond the said period or extended period as the case may be during which the work shall remain unfinished. Such damages will be deducted from any money due or become due to the contractor. The payment of such damages shall not relieve the contractor of his obligations to complete the work or from any other of his obligations or liabilities under this contract.

32. Deviation:

The contractor shall furnish the deviation if any on Technical and commercial terms & condition in the enclosed form as per Annexure-5.

33. Any further information may be obtained on application in writing to:

The Chief Mechanical Engineer,

V.O.Chidambaranar Port Trust,

Tuticorin - 628 004, India.

Telephone : 91-0461-2352252

Fax : 91-0461-2354274, E-MAIL - cmevocpt@gmail.com

website : www.vocport.gov.in

34. Any Tender not conforming with the foregoing instructions will not be considered.

The Employer does not bind himself to accept the lowest or any Tender and has the right to reject any Tender without assigning any reason and without any liability. No representation whatsoever will be entertained on this account.

35. No responsibility will be attached to any officer of the Port for premature opening of or the failure to open a Tender which is not properly addressed and identified.**36. All the conditions applicable to the Central Public Works Department including safety code, rules for the protection of health and sanitary arrangements for workers employed and labour regulations shall apply to this Contract also.****37. No foreign exchange is available for this work. All payments will be made only in Indian Rupees only.****38. The Tenderer should abide by this Tender for a period of 180 (one hundred and eighty) days from the date fixed for receiving the same or for such other periods as may be mutually agreed upon and it shall remain binding upon the Tenderer so that the Tender may be accepted at any time before the expiry of that period.****39. Canvassing in connection with the Tender is strictly prohibited and the Tender submitted by the Tenderer who resort to canvassing will be liable for rejection.**

40. The Technical Bids of the Tenderers will be evaluated based on the whole work. The entire work may be entrusted to a single Tenderer.

41. FIRE SERVICE CLEARANCE:

Fire Service clearance shall be given free of cost (if carried out the work inside Port limit) during the working period for welding/Gas welding subject to adhering safety measures prescribed.

42. Statutory requirement as per Labour Department and Dock Safety Inspectorate as per regulation should be adhered by the Contractor.

43. All safety precautions shall be strictly adhered to.

44. The contractor should comply with all requirements of Port in respect of ISO 9001-2008, EMS 14001:2004 and ISPS.

45. TERMINATION OF CONTRACT:

In the event of continued unsatisfactory performance or non-compliance with any of the provision of the above said contract, this Port reserves the right to cancel the contract and forfeit the EMD and security deposit without giving any notice.

46. PAYMENT TERMS:

Hundred percent (100% payment) as per the contract shall be released after satisfactory completion of works in all respects and handing over of the Launch to VOCPT and submission of invoice in triplicate. Payment shall be made by the Employer within 30 days from the date of receipt of Contractor's invoice and all other related documents clear in all respects. The contractor shall note that no interest is payable by the Employer for any delayed payments.

47. DAMAGE TO PORT PROPERTY:

In case of any damage is caused to the Port Properties including the vessel ML. Musal, a committee constituted by the Chief Mechanical Engineer shall investigate the cause of damages. If the cause of damage ascertained is identified as due to the negligence or ignorance of any personnel engaged by the contractor, the total repair cost including the spares used or the amount as decided by the Chairman shall be

payable to the Port as penalty. The decision of the Chairman/V.O.Chidambaranar Port Trust is final and binding in this regard.

48. Work to be done to the Satisfaction of the Engineer

The Contractor shall execute, complete and maintain the works strict in accordance with the Contract to the satisfaction of the Engineer and shall comply with and adhere strictly to the Engineer's instructions and directions on any matter (whether mentioned in the Contract or not) touching or concerning the works. The Contractor shall take instructions and directions only from the Engineer or from the Engineer's Representative.

The Contractor shall also take instructions and directions from the Engineer or from the Engineer's Representative while removing both the main and auxiliary engines from the existing bed frames safely, to transport the engines to the OEM's workshop [Tirunelveli and Tuticorin] and while re-locating the main and auxiliary engines in the original bed frames with proper alignment in line with the Gearbox and Propeller shaft for the main engines and the Auxiliary engines with the Alternator.

49. Materials to be supplied by the Contractor

The procurement of all the necessary materials for the completion of the works shall be sole responsibility of the Contractor which shall conform to I.S. Specifications and Indian Register of Shipping (IRS) Class requirement. For any delay in procurement / non-availability etc., the Contractor is solely responsible.

The spares for the equipments for which the specific make is being mentioned, the spares for those machineries have to be purchased only from the OEM/ their authorized dealers. The Invoice and materials purchased from OEM/ their authorized dealers has to be approved by IRS for ensuring the genuineness.

50. Variations

The Engineer may make any variation of the form, quality or quantity of the works or any part hereof that may in his opinion be necessary and for that purpose or

if for any other reasons it shall in his opinion be desirable he shall have power to order the Contractor to do and the Contractor shall do any of the following:-

- a) Increase or decrease of the work upto 15% of Contract Price
- b) Omit any part of the work (partially or fully)
- c) Change the character or quality or kind of any such work
- d) Change the level lines, position and dimensions of any part of the works, and
- e) Execute additional work of any kind necessary for the completion of the works, and no such variation shall in any way vitiate or invalidate the Contract but the value (if any) of all such variations shall be taken into account in ascertaining the amount of the Contract price.

51. Removal of Plant Etc.

The contractor shall be permitted to use the Port land for the purpose of storing the materials at his own risk .Upon completion of the works, the Contractor shall remove from the Site all the said Construction Plant and Temporary Works remaining thereon and any unused materials provided by the Contractor.

If the Contractor fails to remove any such Constructional Plant, Temporary works, or unused materials within such reasonable time, after the completion of works, as may be allowed by the Engineer, then the Employer may sell the same and shall after deducting from the proceeds costs, charges and expenses in connection with such sale, pay the balance, if any, to the Contractor.

During the course of execution /completion of work, gate passes for the materials will be issued by the Engineer's Representatives on the written requisition by the Contractor. In case of any movement of unauthorised materials hidden/non hidden and brought along the authorised materials the Contractor is alone fully responsible for all consequence and in no way Engineer's Representatives are responsible for the same.

52. FIRE FIGHTING ARRANGEMENTS:

The Contractor shall provide suitable arrangements for the Fire Fighting equipments in the site at the time of execution of work. For this purpose, he shall provide requisite no. of fire extinguishers, fire buckets and all other fire-fighting arrangements. The contractor may be subjected to periodic fire prevention inspections by the Port Fire Service if the work carried out at inside Port area. Deficiency or unsafe condition shall be corrected at the cost of contractor with the approval of PFS/ Port.

53. REGARDING ENTRY OF LABOUR & VEHICLES IN HARBOUR PREMISES

Admission into the Port for Labour, Vehicles and Equipment is regulated by passes. The passes for entry into Green Gate & Red Gate for Labour, Vehicles and Equipment of the Contractor in connection with the execution of this contract work shall be obtained at his cost as per tariff in force from time to time in this Port.

SECTION- III

SCOPE OF WORK:

Pilot Launch M.L.Musal is registered under Merchant Shipping Act, 1958, and classed under Indian Register of Shipping. The vessel is being utilized for shipping operations within the Port Limits. The Scope of work includes docking/ beaching of Pilot Launch M.L.Musal inside the Port area as permitted by the competent authority / in the private beaching yard available near zone-B at their risk. **Carrying out dry-docking & special survey works hull and machinery as detailed in schedule I to VIII at section VI** of the tender document under supervision of IRS Surveyor and Port Officials. Undocking/un-beaching after completion of all works to the entire satisfaction of IRS Surveyor and Port Officials. The Spares and consumables required for entire work are contractors scope.

Removal of both the main and auxiliary engines from the existing bed frames safely, transport the engines to the OEM's workshop [Tirunelveli and Tuticorin] and to re-locate the main and auxiliary engines in the original bed frames with proper alignment in line with the Gearbox and Propeller shaft for the main engines and the Auxiliary engines to be aligned with the Alternator are contractors scope.

I. General Description of Vessel ML.MUSAL

Main Particulars (approx)

Length Over all	17.15 m
Breadth (mld)	5.20 m
Depth	2.50 m
Draft	1.20 m
Length of Engine Room	6.00 m
Speed	16 knots
GT	48
NT	14
Call sign	AVAP
Main Engine	Cummins KTA 19M3 - 2 Nos x 450 kw, 1800 RPM,
Dry docking and Survey repair works on Pilot launch ML. Musal	

Auxiliary Engine	2 Nos x 12 KVA
Complement	9 Persons
Year of build	2009 at SECON Yard, Visakapatnam

II. COMMERCIAL SPECIFICATION

1. Electric power, Fresh water and Crane facility at slipway/dry dock shall be provided by the tenderers.
2. In case of any damage to the vessel due to fire, theft, and bad workmanship or otherwise, the tenderer would be required to rectify/repair the same at their own expense to the entire satisfaction of VOCPT. Hence, Fire Patrol and Security arrangements have to be arranged by the tenderer.
3. Unless otherwise specified, in the entire specifications in all items of work whether unit rate or lump sum rate, all Washers, Studs, Bolts & Nuts, Screw and other fasteners, rubber rings, gaskets, joints, split pins, jointing & compounds will also be treated as consumables and cost of renewals of those as necessary/required shall be taken into account by the tenderers while quoting such rates/L S rates against respective items of work. No dispute in this regard at a later stage will be entertained.
4. It may be so required that certain plant and machineries, equipments, furniture, fixtures, paneling, electrical wirings, removal of wooden / tyre fenders etc. may be required to be removed & fitted back in order to attend to adjacent repairs, like steel renewal etc. required to be carried out under the BOQ of the tender. These jobs have to be carried out by the successful contractor without incurring any extra cost to VOCPT.
5. Repair Time: The entire work will be required to be completed within 90 days on handing over of the Boat by the Port. The extension of time if any will be granted subject to the discretion and options of the Chief Mechanical Engineer for justified reasons, indicated in Clause 9, Section II.

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6. For any days or part thereof loss in working due to unforeseen reasons, leading to delay in completion of the repairs, the same would be required to be noted jointly with VOC PT's representatives in the Log Book to be maintained on board the vessel.
7. The period of completion stipulated is the essence of contract. However, effort may be taken to complete the work as expeditiously as possible before the period of date of completion.
8. No increase in rates will be permitted on account of escalation of price, additional duty, Tax etc. Towards the procurement of bought out items that have to be used in the work.
9. Guarantee Period: The contractor shall give guarantee for the materials supplied and works carried out by him a period of 12 months against any defects due to faulty design, materials or workmanship from the date of which the work is certified by the Engineer to have been brought to beneficial use. Any defects noticed during a guarantee period of 12 months shall be attended and rectified by the contractor at free of cost. The security deposit relating to the scope of works will be refunded after the expiry of this guarantee period.
10. The materials should be transported to the work spot by the contractor at his own cost and risk.

III. SPECIAL CONDITIONS

1. **Quality & Workmanship:** The work is to be carried out with ISI/BIS marked materials and with highest degree of workmanship to the entire satisfaction of Indian Register of Shipping (IRS) / VOC PT's representative. If the work is not upto the performance the work order is liable for cancellation. The Tenderers will be bound to rectify the defects in material and workmanship detected at any stage of

inspection and even after final inspection. Such rectification will have to be done in a manner approved by MMD/IRS Surveyor/ VOC PT Representative.

2. All steel to be used shall be IRS Class approved and tested quality as per the requirement of ship building practice with proper IR Class test certificates. Test certificate and the stamping shall be shown to the IRS Surveyor during survey.
 3. Welding: All welding to be carried out in an approved manner and as per code of practice of relevant Indian standard specification (Latest Revision). All welding are to be carried out by IR Class approved welders to comply with IRS Classification requirement. Copy of welder certificate shall be shown to surveyor. All butt welds shall have full penetration and wherever possible shall be welded from both sides. All weld joints in hull, deck, tank top plating and wherever required at other places shall be watertight. Welding, as may be recommended by the MMD/IRS Surveyors, VOC PT's Representatives may be subject 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 tenderers.
 4. Electrodes: Electrodes to be used for welding shall be of approved quality/brand of Statutory Authority i.e. IRS.
 5. Thickness of the Plates & Sections : Tenderers shall arrange IR Class approved thickness measurement firms to check gauging of steel plates and 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 as per Classification requirement. No dispute in this regard at a later date will be entertained.
 6. Staging: Staging of adequate strength and area, arrangement for ladder, scaffolding, tools, labour, transport of materials required for the work during the execution of work shall be provided by tenderers to facilitate the work without incurring any extra cost to VOCPT.
 7. Hose Testing: All welded joints, butts to be tested with water hose having adequate pressure for ascertaining water tightness and shown to IRS Surveyor / VOC PT Representative, if required. Necessary Hose, fresh water, Hose coupling, Nozzle for undertaking hoses testing to be provided and necessary arrangements
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for testing have to be done by the Tenderers & all other costs to be borne by the tenderer.

8. Power Cleaning, Copper Slag /sand Blasting, Chipping, Cleaning & Painting: Chipping, Scraping, Cleaning & painting works of all other areas of entire vessel has to be carried out by the tender. Copper slag/sand, all Paints, suitable thinner, brushes etc including compressor, sprayer to be supplied by the Tenderers. Epoxy Marine Grade Paints of any of the Four firms i.e. AKZONOBEL or SIGMA or JOTUN or HEMPEL make to be used. Prior application of paint, surface preparation to be shown to the VOCPT officials.
9. The party at their own cost shall arrange all consumable like Grease, Cotton Waste, Cleaning Cloth, and Cleaning Agent, fresh water etc.
10. Tenderer shall arrange for all the workshop facility, tools & tackles, labour, transport facility etc, at their own expenses, VOC PORT TRUST shall not provide any workshop facility, skilled or unskilled labour.
11. Tenderer is required to give the satisfactory sea trials after the completion of entire works.
12. The quantity given in the schedule is only approximate and payment will be made as per actual. The tenderer has to carry out any additional quantity/work, if any, as per the requirement of classification society and payment for the additional work will be paid after getting the approval of competent authority.
13. The sample of the materials to be used for the work shall be got approved by the Engineer in charge before ordering the quantity in bulk. The spares for the vital machineries have to be procured only from the Original Equipment Manufacturer (OEM) and the same has to be shown to classification society and Engineer in charge.
14. The work should be carried out to the entire satisfaction of the Engineer in charge and IRS Surveyor. During the execution of work, the vessel should be kept ready for stage inspection of classification society as per the directions of Engineer in charge. If the work is not up to the performance the work order is liable for cancellation.

15. Removal of both the main and auxiliary engines from the existing bed frames safely, transport the engines to the OEM's workshop [Tirunelveli and Tuticorin] and to re-locate the main and auxiliary engines in the original bed frames with proper alignment in line with the Gearbox and Propeller shaft for the main engines and the Auxiliary engines to be aligned with the Alternator are the scope of the contractor.
16. The period of completion stipulated is the essence of contract. However, effort may be taken to complete the work as expeditiously as possible before the period of completion.
17. The extra civil works like preparation of beaching site, road work etc. wherever necessary will have to be done by the contractor.
18. The materials should be transported to the work spot by the contractor at his own cost and risk.
19. The port is not responsible for any loss of life or damage or theft of materials. All the materials should be kept in the safe custody of the contractor.
20. The supply of materials on Sunday and holidays generally shall not be allowed.
21. Every day the work shall be carried out in the presence of authorised technical representative of the firm.
22. The contractor shall furnish the full personal particulars of their labourers/employees. Also the contractors shall give an undertaking for the good conduct of their labourers/employees inside port area.
23. The contract labourers/employees shall display their identity card or possess on them while inside the port area.
24. The Contractor shall strictly comply with third party insurance against accident to workmen as stipulated in the tender. The name of the labourers engaged shall be furnished to Engineer in charge along with the copy of insurance policy for all the labourers employed.
25. The subject vessel will be handed over to the tenderer by the Port at Zone - B or a suitable location within the Port limit. VOCPT for repair works. On completion of entire works, Tenderer shall be returned back the vessel to VOCPT officials at Zone- B or a suitable location within the Port limit.

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SURFACE PREPARATION AND PAINTING SYSTEM

1. Recommended painting scheme for under water Hull and bottom plates :

1st coat: antisaline metallic primer 38 microns

2nd coat: antisaline metallic primer 38"

3rd coat: antisaline metallic primer 38"

4th coat: antifouling paint 50"

High built anticorrosive paints may be used to have film thickness of about 200 microns for severe working environment Rudder and stem area Rudder.

1 st coat: High build bituminous paint 38 microns	} =114 microns
2 nd coat: High build bituminous paint 38 microns	
3 rd coat: High build bituminous paint 38 microns	

2. Recommended painting scheme for above water Hull plates :

1st coat of anticorrosive paint with chlorinated rubber base or epoxy base 50 microns.

2nd coat of anticorrosive paint with chlorinated rubber base or epoxy base 100 microns.

3rd coat of anticorrosive paint with chlorinated rubber base or epoxy base 100 microns.

4th coat of anticorrosive paint with chlorinated rubber base or epoxy base 50 microns.

3. Recommended painting scheme for Deck plates, Deck machineries and fittings:

1st coat of anticorrosive paint with chlorinated rubber base or epoxy base 50 microns.

2nd coat of anticorrosive paint with chlorinated rubber base or epoxy base 100 microns.

3rd coat of anticorrosive paint with chlorinated rubber base or epoxy base 100 microns.

4th coat of anticorrosive paint with chlorinated rubber base or epoxy base 50 microns.

❖ Mostly deck fitting accessories made up of mild steel fabrication and occasionally of cast iron such of these structures exposed rain and shine as well as continued salt spray tend to this disintegrate due to Marine atmosphere corrosion gradually they tend to loose.

❖ Their mechanical properties such below the safety limits. They have to be kept fully protected and free from the deteriorating elements. Periodical cleaning and painting with suitable protective coats are very essential. The following procedures can be follow.

1. Surface cleaning by chipping or blasting.
2. Application of primers- Red lead or Zinc Chromate or any tough anticorrosive coatings. **One or two coats to dry**

Section- IV

TERMS & CONDITIONS

- Rate: The rates are firm and final. No increase in rates will be permitted on account of escalation of price, additional duty, Tax, etc.
- Tax: Income Tax, Works contract Tax / or any other statutory levies applicable from time to time will be deducted at source as per rules. Service Tax will be paid extra under production of documentary evidence.
- Payment Terms: Hundred percent Payment as per the contract shall be released after satisfactory completion of entire works assigned and handing over of the Pilot Launch to VOCPT, satisfactory completion of work and submission of invoice in triplicate.
- Inspection: Since, the vessel is registered under Merchant Shipping Act 1958 and maintained under IRS Classification, the work will be inspected by the Surveyor from Indian Register of Shipping. Surveyor will be arranged by the Port at the cost of Port, as per their convenience.
- Right: The Port reserves the right not to award the work to the lowest bidder. The Port reserves the right to cancel any/all the tender(s) without assigning any reason. The Port also reserves to split and award the work to two or more contractors. The Port's decision in any of the matter(s) is final and binding on each other. If the works are not carried out in satisfactory manner, the work order will be cancelled by the Port.
- Damage: Any damage is caused to Port equipments (i.e. ML.Musal, Main & Auxiliary Engines) while carrying out the works, it should be attended to by the tenderer at his own cost.
- Accidents: Any accidents including death caused to the contractor or workers during course of execution of work or elsewhere will be taken care by the contractor(s) themselves and Port is in no way responsible for the same. The port is not responsible for any loss of life or damage or theft of materials. All

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the materials should be kept in the safe custody of the contractor.

- Insurance:-
 - (a) Before commissioning of execution of works the contractor shall insure against any damage, loss or injury which may occur to any property including that of the V.O.Chidambaranar Port Trust or to any person including any employee of the V.O.Chidambaranar Port Trust by or arising out of the execution of the works in carrying out of the contract.
 - (b) Minimum Amount of Insurance: Such Insurance shall be effected with an insurer and in terms approved by the employer and for atleast the amount stated in the tender and the contractor shall whenever required produce to the Engineers representative the policy or policies of insurance and receipts for payment of the current premiums
- Safety measures: Necessary safety measures are to be taken for the work by the contractor.
- Contract Labour Act: The contractor shall comply with all necessary rules and regulations of the contract labour (Regulation abolition) Act 1970 and 1971.
- Disputes: If any disputes or difference of any kind whatsoever arises, the decision of the Chief Mechanical Engineer shall be the final.

CHIEF MECHANICAL ENGINEER

Section- V (Annexures)**ANNEXURE-1****LETTER OF APPLICATION**

Registered Business name :
Registered Business Address :
Telephone No. :
Telex :
Cable :
Fax :

To

The Chief Mechanical Engineer,
V.O.Chidambaranar Port Trust,
Tuticorin - 628 004.
INDIA.

Sir,

1. We hereby apply to be bidder for the "Dry docking & survey repair works on pilot Launch M.L.Musal".

2. We authorize V.O.Chidambaranar Port Trust or its authorized representatives to conduct any investigations to verify the statements, documents and information submitted and to clarify the financial and technical aspects of this application. For this purpose, we hereby authorised any public official, engineer, bank depositor, manufacturer, distributors, etc. or any other persons or firm to furnish pertinent information deemed necessary and requested by V.O.Chidambaranar Port Trust to verify statements and information provided in this application or regarding out competence and standing.

3. The names and positions of persons, who may be contacted for further information, if required, are as follows:

- (a) Technical
- (b) Financial

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(c) Personnel

4. We declare that the statements made and the information provided in the completed tender are complete. True and correct in every detail.

5. We understand that V.O.Chidambaranar Port Trust reserves the right to reject any tender without assigning any reasons.

Yours faithfully,

(Authorised representative of applicant)

Date:

Encl: 1.

2.

3.

ANNEXURE 2**GENERAL INFORMATION**

Company Name :

1. Head Office address :

Telex No. :

Telephone No. :

Cable address :

2. Regional office address (if any) :

Telex No. :

Telephone No. :

Cable address :

3. Local office address (if any) :

Telex No. :

Telephone No. :

Cable address :

Country and year incorporated :

Main lines of business :

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- | | |
|----|---------|
| 1. | Since : |
| 2. | Since : |
| 3. | Since : |
| 4. | Since : |
| 5. | Since : |

* Attach copy of certificate of registration and Partnership.

Signature

Seal

ANNEXURE-3**FINANCIAL STATUS****Summary of yearly turnover on the basis of the audited balance sheet for the last three financial years (2015-16 to 2017-18)**

<i>Sl. No.</i>	<i>Financial year</i>	<i>Total turnover</i>
1	2015-2016	
2	2016-2017	
3	2017-2018	

Note: Attach certified copies of the audited financial statements attested by Notary Public.

Signature of Contractor

Seal

Dry docking and Survey repair works on Pilot launch ML. Musal

ANNEXURE - 4**EXPERIENCE**

Experience in similar works (i.e) Details of Similar works successfully carried out by way of repairs to Hull, Steel Renewal, Dry Docking Repairs, Overhauling/Repairs of Marine Engines & Deck Machineries, pipelines and all auxiliary machineries on ships/tugs/ motor launches towards fulfilling requirements of IRS/D.G Shipping/beaching & unbeaching works/new construction of self-propelled steel vessels etc completed during the last seven years ending the date of publication of NIT.

<i>Sl. No.</i>	<i>Name of work</i>	<i>Value of work executed</i>	<i>Contract Period</i>		<i>Scheduled period of completion</i>	<i>Name and address of organisation</i>
			<i>Commencement</i>	<i>Completion</i>		

Note:

Copies of work order and completion certificate / performance certificate attested by notary public should be attached as documentary proof for each and every work listed.

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ANNEXURE-5**SCHEDULE OF DEVIATIONS FROM GENERAL AND SPECIAL CONDITIONS AND GENERAL RULES
AND DIRECTIONS OF THE TENDER ENQUIRY**

ALL DEVIATIONS FROM GENERAL AND SPECIAL CONDITIONS AND GENERAL RULES AND DIRECTIONS OF THE TENDER ENQUIRY SHALL BE FILLED IN BY THE TENDERER, CLAUSE BY CLAUSE IN THIS SCHEDULE

SECTION NO	SPECIFICATION CLAUSE NO.	DEVIATION
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The Tenderer hereby certified that the above - mentioned are the only deviations from General and special conditions and General rules and directions of this tender inquiry and tender conforms to the specification in all respects.

Company Seal :

Signature :

Designation :

Company :

Date :

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ANNEXURE-6

**SPECIMEN FORM OF BANK GUARANTEE BOND
(FOR PERFORMANCE SECURITY)**

In consideration of the Chairman representing the Board of Trustees of V.O.Chidambaranar Port (hereinafter called "The Port") having agreed to exempt _____ (hereinafter called "said contractors") from the demand, under the terms and conditions of contract awarded in No _____ dated _____ made between _____ and _____ for _____ (hereinafter called "said Agreement") of Performance security for the due fulfilment by the said contractor(s) of the terms and conditions contained in the said Agreement, on production of Bank Guarantee for Rs. _____ (Rupees only).

We* _____ (hereinafter referred to as the Bank) at the request of _____ contractor(s) do hereby undertake to pay to the Port an amount not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the Port by reason of any breach by the said contractor(s) of any of the terms and conditions contained in the said Agreement.

We* _____ do hereby undertake _____ to pay the amounts due payable under this Guarantee without any demur, merely on a demand from the Port stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Port by reason of any breach by the said contractor(s) of any of the terms and conditions contained in the said Agreement or by reason of the contractor(s) failure by perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However our liability under this Guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Port any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceedings before any Court of Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.

We* _____ further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Port under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till the Engineering Department, V.O.Chidambaranar Port Trust certified that the terms and condition of the said Agreement have been fully and properly carried out by the

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said contractor's and accordingly discharges this Guarantee. Unless a demand or claim under this Guarantee is made on us in writing within three months from the date of expiry of the validity of the Guarantee period we shall be discharged from all liability under this Guarantee thereafter provided further that the Bank shall at the request of the Port but at the cost of Contractor(s) renew or extend this Guarantee for such further period or periods as the Port may require.

We * _____ further agree the Port, that the Port shall have the fullest liberty without consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Port against the said Contractor(s) or for any forbearance, act or omission on the part of the Port or any indulgence by the Port to the said Contractor(s) or by any such matter or thing whatsoever which under the Law relating to sureties would but for this provision, have effect of so relieving us.

This Guarantee will not be discharged due to the charge in the constitution of the Bank or the Contractor(s)

We * _____ lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the Port in writing. (Validity/Period should be noted)

This guarantee is valid up to _____ (period)

Dated the day of 2018 for**

Indicate here the name of the Bank

Indicate here the period or date.

ANNEXURE-7**V.O.CHIDAMBARANAR PORT TRUST****FORM OF AGREEMENT**

This AGREEMENT made this..... day
2019 (Two thousand and nineteen) between the
 Board of Trustees of the V.O. Chidambaranar port Trust , a body corporate under Major port
 Trust Act 1963 (herein after) called the Board which expression shall, unless excluded by or
 repugnant to the context, be deemed to include the successors in office) on the one part AND

.....
 (hereinafter called the “CONTRACTOR” which expressions shall, unless excluded by, or
 repugnant to the context be deemed to include his heirs, executors, administrators,
 representatives and assigns or successors in office)on the other part.

WHEREAS the Board of Trustees of the V.O. Chidambaranar Port Trust is desirous of
 Dry docking and Survey repair works on Pilot launch ML. Musal **WHEREAS** the contractor
 has offered to execute, complete and maintain such works and whereas the Board has
 accepted the tender of the contractor and **WHEREAS** the contractor as furnished a sum
 of Rs..... (Rupeesonly) as Earnest Money
 Deposit at the time of tendering which will be adjusted against security deposit as per
 memorandum will be collected by deductions from the running bills, at the rates mentioned
 there in for the due fulfillment of all the conditions of the contract.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this agreement words and the expressions shall have the same meanings as are
 respectively assigned to them in the conditions of the contract hereinafter referred
 to.
2. The following documents shall be deemed to form and be read and construed as
 part of this agreement viz.
 1. Notice Inviting Tenders
 2. Instruction to Tenderers
 3. Scope of Work including Commercial and Special conditions.
 4. Annexures
 5. Price Bid
 6. Work order
- 3.The contractor hereby covenants with Board of trustees of
 V.O. Chidambaranar port Trust to maintain the “works” in conformity in all respects
 with the provision of the agreement.

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4. The Board of the Trustees of V.O. Chidambaranar Port Trust here by covenant to pay the contractor in consideration of such maintenance work total value of Rs.....(Rupees,.....only)which includes all Taxes, Duties etc, as levable on date in consideration of Dry docking and Survey repair works on Pilot launch ML. Musal in the manner prescribed by the contract. The Board shall pay to the contractor the contract price as stated in section-VI.(Price schedule)
5. If I/We fail to commence the work specified in the NIT, I/ We agree that the said Chairman, VOCPT or his successors in office shall, without prejudice to any other right or remedy, be at the liberty to forfeit the said Performance security(absolutely)

IN WITNESS WHEREOF the parties here into have set their hands and seals the day and year first written.

The common seal of the Trustees of
V.O. Chidambaranar port Trust was here
In to affixed and

The Chairman thereof, has set his
Hand in the presence of

Signed and sealed by

The Contractor in the presence of

CHAIRMAN of the Board
of Trustees V.O.Chidambaranar
Port Trust.

ANNEXURE-8**E-PAYMENT FORM**

To
 The Financial Advisor & Chief Accounts Officer,
 V.O.CHIDAMBARANAR PORT TRUST,
 Tuticorin.
 Sir,

We hereby give particulars for payment of the Works Bill/Advance etc.

<i>S.No</i>	<i>Particulars</i>	
1	Name of the Contractors/Suppliers	
2	Address of the Contractors/Suppliers	
3	Name of the Work for which payment is made	
4	Estimate No./Agreement No./ Work Order No.	
5	Name of the Bank in which Contractors/Suppliers is operating Account. Either with IOB or SBI or any other Bank (If it is other than IOB or SBI Bank commission plus postage will be deducted)	
6	Address of the Bank	
7	Branch Code No.	
8	Type of Account (Whether SB Account or Current Account)	
9	Account No.	
10	PAN No.	
11	GST Registration No.	
12	IFSC Code	
13	VAT No.	
14	TIN No.	

Yours sincerely,

(Signature of Contractor)

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**V.O.CHIDAMBARANAR PORT TRUST
MECHANICAL AND ELECTRICAL ENGINEERING
DEPARTMENT
TUTICORIN – 628 004**



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COVER II

(To be submitted in a separate Cover)

PRICE BID

Dry docking and Survey repair works on Pilot launch ML. Musal

Section- VI**PRICE BID****Description Of Dry Docking and Special Survey Work of M.L.Musal****SCHEDULE-I****GENERAL SERVICES**

SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1	a. Beaching the Pilot Launch M.L.Musal in a safe manner - 1 time (Beaching Includes Providing chocks, arrangements of chocks, positioning the vessel, engaging labours & Providing necessary tools & tackles, ropes and all other materials required for Beaching.)	1	Per time		
	b. Un-beaching the Pilot Launch M.L.Musal in a safe manner - 1 time (Un-beaching Includes positioning the vessel for un-beaching, engaging labours, Providing necessary tools and tackles, ropes and all other material required for un-beaching.)	1	Per time		
Total Amount Rs					
<p><u>NOTE: Materials, Machineries and Man power required for the beaching and securing the vessel in position and also after unbeaching, shifting the vessel from unbeaching area to zone -B VOCPT or a suitable location within the Port limit are contractors scope</u></p>					

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SCHEDULE-II		SURFACE PREPARATION AND PAINTING			
A) Hull Plate under water work (Including aft transom plate)					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Sea growth scrapping and cleaning work	120	sq.mtrs		
2.	Slag blasting work - SA 2.5	120	sq.mtrs		
3.	High pressure water washing 1 time	120	sq.mtrs		
4.	Painting 3 coats				
	Primer 2 coat	240	sq.mtrs		
	Anticorrosion 1 coat	120	sq.mtrs		
	Antifouling 1 coat	120	sq.mtrs		
Sub Total Amount (A)					
Rs.					
B) Hull Plate above water (Including aft transom plate)					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Slag blasting work - SA 2.5	80	sq.mtrs		
2.	High pressure water washing 1 time	80	sq.mtrs		
3.	Painting 4 coats (As per schedule)				
	Primer 2 coats	160	sq.mtrs		
	Anticorrosion 1 coat	80	sq.mtrs		
	Blue paint 1 coat	80	sq.mtrs		
Sub Total Amount (B)					
Rs.					

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C) Main Deck Plate and accessories					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Slag blasting work- SA 2.5	100	sq.mtrs		
2.	High pressure water washing 1 time	100	sq.mtrs		
3.	Painting 4 coats (As per schedule)				
	Primer 2 coats	200	sq.mtrs		
	Anticorrosion 1 coat	100	sq.mtrs		
	Bootapping green paint 1 coat	100	sq.mtrs		
Rs. Sub Total Amount (C)					
D) Wheelhouse(Complete Super Structure) and Engine Room Casing					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Washing and cleaning work.	60	sq.mtrs		
2.	Painting 1 coat				
	Top White paint 1 coat	60	sq.mtrs		
Rs. Sub Total Amount (D)					

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E) Forepeak Compartment					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Entrance Coaming badly damaged area to be cropped, renewed. Height - 560mm Breadth - 600mm Thickness - 6mm	1	No		
2.	Entrance Coaming and door inside and outside to be chipped and painted with three coats paint (as per deck schedule).	3	sq.mtrs		
3.	Entrance Coaming Door retainer channel to be checked and renewed if necessary. Water tight rubber packing along retainer channel to be renewed.	1.5	mtrs		
4.	Entrance Coaming door hinges (2 Nos) and Door locking arrangements(4 Nos) (wing nut lock) to be repaired. Hinges-2nos Door lock -2 nos	6	Nos		
5.	Top bulkhead supporting longitudinal frame partly damaged. Requires cropping and renewing partly. Length - 1 mtr Breadth - 105mm Height - 165mmThickness - 5mm	1	No		
6.	Bilges in bilge compartment to be completely bailed out, cleaned, scrapped and painted.	10	sq.mtrs		
7.	Painting 2 coats(Including bilges)				
	Epoxy 1 coat	10	sq.mtrs		
	Top coat grey paint 1coat.	10	sq.mtrs		
Sub Total Amount (E)					
Rs.					

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F) Forward crew compartment					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Entrance Coaming door to be cropped, renewed and to be painted (inside and outside). (As per deck schedule)	1	No		
2.	Entrance Coaming inside and outside to be chipped and painted. (As per deck schedule)	1	No		
3.	Retainer channel in the above coaming water tight door to be checked and renewed if necessary. Door rubber packing in retainer channel to be renewed.	1.5	mtr		
4.	Door locking arrangements (4 Nos) (wing nut locks) to be repaired. Door lock - 4 nos	4	Nos		
5.	Painting 2 coats(Including bilges)				
	Epoxy 1 coat	30	sq.mtr		
	Top coat grey paint 1coat.	30	sq.mtr		
6.	Exit ladder badly damaged to be renewed.	1	No		
Rs. Sub Total Amount (F)					

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G) Aft Rudder Compartment					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Entrance Coaming, and Door to be chipped and painted. (As per schedule)	1	No		
2.	Water tight door retainer channel to be checked and replenished if necessary. Retainer channel water tight rubber packing to be renewed.	1.5	mtr		
3.	Door locking arrangements (4 Nos) (wing nut locks) to be repaired.	4	Nos		
4.	Bulkheads, and bilges to be cleaned and scrapped completely.	30	sq.mtr		
5.	Painting 2 coats (Including bilges)				
	Primer 1 coat	30	sq.mtr		
	anticorrosion 1 coat	30	sq.mtr		
Rs. Sub Total Amount (G)					

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H.)ENGINE ROOM COMPARTMENT					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Entrance Coaming, and Door to be chipped and painted. (As per schedule)	1	No		
2.	Water tight door retainer channel to be checked and replenished if necessary. Retainer channel water tight rubber packing to be renewed.	1.5	mtr		
3.	Door locking arrangements (4 Nos) (wing nut locks) to be repaired. Door lock - 4 nos	4	Nos		
4.	E/R bulkheads, and bilges to be cleaned and scrapped completely.	100	sq.mtrs		
5.	Painting (Including outside of the fuel oil service tank (capacity 2000 ltrs) and E/R bilges				
	1. Primer 1 coat	100	sq.mtrs		
	2. Top coat white paint 1 coat.	100	sq.mtrs		
Sub Total Amount (H)					
Rs.					
Total Charges for surface preparation and painting work (A+B+C+D+E+F+G+H)					Rs.
NOTE: Fresh Water, Sand, Scrapping tools, Compressors & assessories required for blasting, Marine Paints, paniting sprayers, brushes etc and necessary equipment and machineries are contractors scope.					
SCHEDULE-III STEEL PLATE FABRICATION RENEWAL WORK					
A. Hull & Deck Plate Renewal work					
Crop and Renewal of Steel Plate as per IRS Surveyor recommendation. Renewal of finished steel structure includes hull plates, mooring eyes, corroded base of pumps and other machineries in Engine room and Goosenecks, Railings, angle of curvature, deck plating, Fender structure, fender securing flat bars, beams, brackets, girders, hatch covers, water tight doors in fuel tanks and fresh water tanks, other tanks, bilges etc. and where ever it is necessary with MS plates and sections at all heights and locations of the vessel (required surface preparation). Plate thickness - 6mm.After welding a hose down test should be conducted in presence of Port Authority.Steel to be supplied by contractor: Ship Build quality steel IS 2062 - Grade 'B' or LLOYDS Grade 'A' and acceptable by IRS Class..					
The necessary Test Certificate issued by IRS for steel plates to be produced to Port Authority.					
Note: Steel materials, consumable, labours and all allied materials and staging if any are contractors scope					

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SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Plate thickness UT Gauging work (5 points /sq.mtr)	500	Points		
2.	Port side hull plate renewal work	30	sq.mtrs (Approx)		
3.	Stbd side hull plate renewal work.	30	sq.mtrs (Approx)		
4.	Aft Transverse deck plate renewal work	10	sq.mtrs		
5.	Main deck plate renewal work	30	sq.mtrs		
6.	Bulkhead plate renewal work	10	sq.mtrs		
7.	Blower drum plate renewal work	3	sq.mtrs		
Sub Total Amount (A)					
Rs.					
B. OTHER DECK WORK					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Damaged goose neck vents to be repaired and painted. (Partly insert to be placed) 30 x 15 x 30 mm	2	Nos		
2.	Goose neck Vents closing arrangement to be renewed. All vents to be chipped and painted.	6	Nos		
3.	Blower casing to be renewed, And painted -1 No	3	Sq.mtrs		
4.	Mast to be renewed and painted. Dia - 2.5 inches Length - 4 mtrs With frames	30	kgs (Approx)		
5.	Bulkhead light fitting frame renewal work. -8 Nos	8	kgs (Approx)		
6.	Tyre fender holding ring to be fabricated and fitted around the vessel to tie up the tyre fenders. - 40 Nos	40	kgs (Approx)		
7.	Air conditioner outdoor unit fitting frame renewal fabrication work. 1No. To be painted after fabrication.	10	kgs (Approx)		

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SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
8.	Aluminum anode renewal work. (To be renewed as per the requirement after inspection)	30	Nos (Approx)		
9.	Round Aluminum anode renewal work. (To be renewed as per the requirement after inspection)	4	Nos (Approx)		
10.	Life raft bed (holding frame) to be renewed. 1No	20	kgs (Approx)		
11.	Life buoy stand renewal work 6 Nos	10	kgs (Approx)		
12.	Standard skylight window material (Aluminium) to be renewed. Glass size Dia- 200mm Thickness - 8mm Frame size Flange Outer Dia - 250mm Flange Inner Dia - 220mm Flange Thickness - 10mm. With glass lock ring	4	Nos		
13.	Damaged and rusted part of hand rail on Fwd (both port and stbd side) to be renewed SS pipes. Hand rails (Dia-2.5 inch,length-8 mtr)- Hand rails(Dia-1.5 inches, length-4 mtrs)	2	Nos		
14.	Fwd stbd side ballast tank vent pipe partly to be renewed. (length-0.5 mtr, Dia-2.5 inches)	2	Nos		
15.	Sounding pipeline (length-0.5 mtr, Dia-2.5 inches) to be renewed and caps to be newly fitted. (mild steel caps with thread)	5	Nos		
16.	Search light frame to be repaired and painted with primer.	8	kgs (Approx)		

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SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
17.	Fuel oil storage tank to be cleaned.	1	No		
18.	Fuel oil service tank to be cleaned.	2	Nos		
<div>Sub</div> Total Amount (B) Rs.					
<div>renewal work</div> <div>Total Charges for steel plate fabrication Rs. (A+B)</div>					
<p>The engine room mushroom blower to be removed from the fibre made engine room canister.</p> <p>The mushroom head to be made free to rotate in order to close and open and the function of rotation have to shown to IRS surveyor / Port official..</p> <p>The blower trunk thickness and supporting & holding plates thickness of blower motor to be checked and renewed if thickness is reduced less than 2 mm.</p> <p>The blower mesh to be renewed along with mesh holding ring.</p> <p>After the repair work of mushroom blower, the same to be fitted back in position and bolted with engine room fibre canister and the bolted portion have to be seethed with fibre coating.</p> <p>Steel work, machining work if any and allied Fibre work and fibre are contractor scope</p> <p>Note: material and fasteners are contractor's scope.</p>					

SCHEDULE-IV WOODEN REPAIRWORKS					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Wooden fenders,holding Bolts and Nuts renewal works (kongu wood) Fwd Portside - 4.5 mtrs, Fwd Stbd side - 2.5 mtrs.	30	mtrs		
2.	Wooden paneling, ceilings renewal works (side and top ceilings in pilot cabin at aft portside).	30	sq.mtrs		
3.	Wheel house partition to be removed above air conditioner (Including door and cupboard).	2	Nos		
4.	Wheel house forward glass to be renewed with new rubber packing.	1	No		
5.	Cabin windows (on both port and stbd side) rubber packings to be renewed.	4	Nos		
6.	Wheel house cabin floor vinyl mat/polyurethane mat to be renewed.	25	sq.mtrs		
7.	Monkey deck ceiling leak to be arrested with FRB material.	25	sq.mtrs		
8.	Seating arrangement to be modified.(presently seatings are facing towards portside to be altered to face towards forward and 4 nos new executive chairs to be fitted . At present only two metal chairs are available.) And cupboard arrangement to be provided for securing the life jackets.	4	Nos		
Total charges for wooden repair works Rs.					

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<div> <div>SCHEDULE-V</div> <div>A. MECHANICAL WORK</div> </div>					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Propeller system: Propeller system complete overhauling work (Propeller to be removed, propeller shaft to be withdrawn, All cutlass bushes (Inside engine room, intermediate and A-bracket) are to be removed and renewed with new cutlass bushes in both side propeller. Both Propeller to be checked for its pitch and balanced. Propeller to be polished. Dye Penetrant test of both propeller shaft and propeller to be done and assembled back.	2	Nos		
2.	Rudder system ; Rudder system is to be completely overhauled. Rudder and rudder shaft to be lowered. Trueness rudder shaft to be checked. DP test to be done. Rudder shaft holding collars to be checked for wearing. Thrust bearing to be checked and renewed if necessary. Hydraulic Ram complete overhauling to be done. (if required spares to be renewed) rubber hoses - 6 Nos to be renewed & rudder shaft bush - 2 Nos and glands along with gland bolts and nuts to be renewed and assembled back).	2	Nos		
3.	Gearbox -2 Nos: Main engine coupled Gearbox overhauling, repairing, reconditioning, assembling ,trial taken and commissioning work for operation .	2	Nos		
4.	Alternator-2 Nos: Auxiliary engine coupled Alternator servicing, , repairing, reconditioning, trial taken and commissioning work for operation .(Insulation reading to be submitted to IRS Surveyor.	2	Nos		
5.	Fuel service tank gauging glass to be renewed (gauging tube).	2	Nos		
6.	Remote Accelerator cable (3 mm flexible cable) to be renewed.	6	mtrs		
7.	Gear box cable (3 mm flexible cable) to be renewed.	4	mtrs		

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SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
8.	Engine room blower unit overhauling and both forward and reverse directions of rotation to be provide.	1	No		
9.	Wire for easing gear arrangement of Quick closing valve to be renewed. (Dia -3mm, length-8 mtrs)	8	mtrs		
10.	Main sea connection strainer scrapped, cleaned and to be painted. primer 1 coat anticorrosion 1 coat, top coat green paint 1 coat(strainer body) (If required strainer plate to be renewed after inspection).	2	Nos		
11.	New Semi rotary pump to be renewed.(For bilges).	1	No		
12.	New fuel transfer pump with motor (0.5 HP) to be procure and fit at suitable place at engine room.	1	No		
13.	New Blidge pump with motor (1 HP) to be procured and fit at suitable place at engine room.	1	No		
14.	Engine room Blidges piplines to be changed as required after inspection	15	mtrs. (Approx)		
15.	The existing sea water pipeline to M/E and A/E on both port and stbd side are fitted as one continuous pipe line. The same to be bifurcated and fitted with intermediate flanges.(No of flanges -4 Nos)	4	Nos		
16.	Hatch coaming plate, door plate renewal work-4 lock ,-2 hinge,-1 handle for 4 door	5	sq.mtrs		
17.	Hatch Coaming, and Coaming door to be chipped and painted.(As per Deck painting schedule.	5	sq.mtrs		
18.	Hatch coaming door locking screw, wing nut renewal work.	20	Nos		
19.	Water tight door retainer channel to be checked and replenished if necessary. Retainer channel water tight rubber packing to be renewed. (1 No-3 mtrs).	4	Nos		
20.	4 Nos door lock to be repaired.	4	Nos		
21.	E/R bulkheads, scrabbing ,cleaning and painting works. (Including fuel oil service tank.) 1. Primer 1 coat 2. Top coat white paint 1 coat.	60	sq.mtrs		

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SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
22.	E/R Bilges to be cleaned, scrapped and then painting work to be carried out completely. 1. Primer 1 coat 2. Top coat black or grey paint 1 coat.	40	sq,mtrs		
Rs. Sub Total Amount (A)					
B.FOLLOWING ENGINE ROOM VALVES TO BE OVERHAULED					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Both M/E attached sea water pump suction line valves.	2	Nos		
2.	Quick closing valves 2nos on each d.o. service tanks.	4	Nos		
3.	Both Aux Engine attached sea water pump suction line valves.	2	Nos		
4.	Sea waterline intermediate valves.	6	Nos		
5.	Overboard valves.	6	Nos		
6.	Main sea line connection valves.	2	Nos		
7.	Bilge suction line valves.	6	Nos		
8.	Bilge delivery line valves.	2	Nos		
9.	Diesel oil service tank inter connection valves.	2	Nos		
10.	Diesel oil storage tank inter connection valves.	2	Nos		
Rs. Sub Total Amount (B)					
Total Charges for Mechanical work (A+B) Rs.					

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<u>SCHEDULE-VI</u>		<u>ELECTRICAL WORKS</u>			
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Emergency light to be renewed	2	Nos		
2.	Engine room tube light with fitting to be renewed	6	Nos		
3.	Wheel house tube light (LED light) with fitting to be renewed	3	Nos		
4.	Wheel house wall mounting fan to be renewed	4	Nos		
5.	All electrical wiring inside and outside wheel house to be renewed with suitable water proof cable.	200	mtrs		
6.	A/C with stabilizer to be renewed (with new one).	1	No		
7.	Wiper to be renewed (with new one)	2	Nos		
8.	Electrical switches to be renewed.(As per requirement).	20	Nos		
9.	Electrical sockets to be renewed.(As per requirement).	10	Nos		
10.	All navigation lights casing broken same to be renewed with new fittings. (Partly exposed lights 4 nos and fully exposed lights 3 nos).	7	Nos		
11.	Mast lights wiring to be renewed with waterproof wires.	25	mtrs		
12.	New electric horn to be procured and to fit at suitable place.	1	No		
	Total Charges for				
	Electrical work	Rs.			

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<u>SCHEDULE-VII</u> Engine details: Make - Cummins India Ltd., Pune, Model KTA 19 M9 & NTA 495 MG					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Attached sea water pump to be overhauled. (Both port and stbd engines).	2	Nos		
2.	Main engine gear box cooler to be cleaned.	2	Nos		
3.	Removal of both the main and auxiliary engines from the existing bed frames safely, transport the engines to the OEM's workshop [Tirunelveli and Tuticorin] and to re-locate the main and auxiliary engines in the original bed frames with proper alignment in line with the Gearbox and Propeller shaft for the main engines and the Auxiliary engines to be aligned with the Alternator				
a	Main Engine	2	Nos		
b	Auxiliary Engine	2	Nos		
	Total charges for servicing & supply of spares for Cummins make main engine. <div>Rs.</div>				
<u>SCHEDULE-VIII</u> Auxiliary Engine details: Make - Kirloskar Engine- 18 KVA ,Model-2R1040, Power-20/27 KW/HP @ 1500 RPM					
SL. NO	Work Description	Quantity	Unit	Rate/Unit Rs.	Total cost Rs.
1.	Attached sea water pump to be overhauled. (Both port and stbd engines).	2	Nos		
2.	Attached fresh water pump to be overhauled. (Both port and stbd engines).	2	Nos		
3.	Fresh water cooler to be cleaned.	2	Nos		
4.	Following safety alarms and trips to be brought to working condition. (Both port and stbd engines). 1) Low lub oil pressure alarm and trip.	2	Nos (engines)		

Dry docking and Survey repair works on Pilot launch ML. Musal

	2) High fresh water temperature alarm and trip. 3) Engine Over speed alarm and trip. 4) Fresh water low pressure alarm. 5) Main Engine Emergency stop in both local and remote.				
	Total charges for servicing & supply of spares for Kirloskar make Auxiliary engine Rs.				
	Total cost for Schedules from I to VIII-(I+II+III+IV+V+VI+VII+VIII) Rs.				
	GST Rs.				
	Grand Total Amount (Total Cost +GST) Rs.				