

**KERALA STATE COASTAL AREA DEVELOPMENT CORPORATION LIMITED**  
Makayiram, T.C 16/1709, Ulloor Lane, Near DPL, Jagathy, Thiruvananthapuram, Kerala

**Tender Notice (No. 543/F/11/KSCADC dt 19.07.2012)**

The Managing Director KSCADC invites sealed quotations from proven manufacturers/authorized suppliers/companies for the supply of the following items. Tender forms will be available at Office of the KSCADC. For more details visit [www.keralacoast.org](http://www.keralacoast.org)

Sl No.	Name of Item	Qty	Cost of Tender	EMD
1	Echo sounder and marine communication equipments for mechanized boats	100 Nos	25000 + VAT	100000/
2	Echo sounder and marine communication equipments for motorized traditional crafts	50 Nos	25000 + VAT	-

Date of Closure of Sale of Tender : 03/08/12 5 PM

Last date of receipt of Tender : 04/08/12 11 AM

Date of opening a Tender : 04/08/12 11.30 AM

Ph.0471-2321520, Fax:2323363, E-Mail: [kscadc@gmail.com](mailto:kscadc@gmail.com)

sd/-  
Managing Director

**TENDER  
FOR  
SUPPLY OF  
Echo sounder And Marine Communication Equipments**



**Kerala State Coastal Area Development Corporation Ltd  
Makayiram', Near DPI , Jagathy, Thiruvananthapuram  
Web site: - [www.keralacoast.org](http://www.keralacoast.org)  
Email:-[kscadc@gmail.com](mailto:kscadc@gmail.com)**

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**Note:-Bidders are advised to get the demand draft for EMD non refundable tender cost in favour of “Kerala State Coastal Area Development Corporation Limited” payable at Thiruvananthapuram . Failing which, their bids are liable to be rejected without giving any further reference**

## Section I

### Introduction

#### 1) Scope of work:

Kerala State Coastal Area Development Corporation Ltd. (KSCADC), a State Govt. undertaking invites sealed bids from the companies for the supply of the following,

- A. Echo Sounder & Marine Communication Equipment for mechanized fishing boats-  
Quantity: 100 nos.
- B. Echo Sounder & Marine Communication Equipment for traditional motorized fishing crafts -Quantity: 50 nos.

MD KSCADC reserves the right to increase or decrease the quantity.

#### 2) Eligibility Criteria for Bidders:

##### 2.1 Bidders General Qualifications

- i) This tender document is open to all firms/companies both from within and outside India, who are eligible to do business in India under relevant Indian laws as in force at the time of bidding.
- ii) Firm/company declared by Kerala Govt and KSCADC to be ineligible to participate for corrupt, fraudulent or any other unethical business practices shall not be eligible during the period for which such ineligibility is declared.
- iii) Breach of general or specific instructions for bidding, general and special conditions of contract may attract a proceeding to declare a firm/company ineligible for a certain period or certain number of consecutive tender calls

##### 2.2. Minimum Eligibility Criteria

- i. The bidding firm must have previous experience of having supplied any type of electronic equipments or fishing equipments to Government institutions in India worth a minimum of Rupees Two Crore.
- ii. The bidding company must be a profit making company.
- iii. The bidding company must have supplied similar type of equipment as mentioned above to at least any one reputed organisations/Government Institutions in India. The satisfactory reports from the customer are required to be enclosed with the prequalification cum technical bid.
- iv. The bidding company should have support centers/after sales service centers in Kerala . In case company does not have support center/after sales service center in Kerala , it should enclose an undertaking with the bid to set up the support centers within a month in case the contract is awarded to it and the same should be functional till the period of warranty or AMC which ever is later.
- v. The bidding company must certify that the Technology/equipment quoted is State of the art and latest and the original vendor shall provide the technology support for at least three years.
- vi. Bidding Company must produce OEM Authorization/Authorization from the sole distributor of the product in India.

#### 3) Schedule of Tender:

**a. Sale of Bid Document**

- i) A complete set of Tender documents can be purchased by the bidders on submission of written application to the MD, KSCADC and upon payment of a non-refundable fee of Rs. 25,000/- + VAT for item No1 (Echo Sounder & Marine Communication Equipments) in cash or through Demand Draft from a Nationalised/Scheduled bank, drawn in favour of "Kerala State Coastal Area Development Corporation Ltd", payable at Thiruvananthapuram.
- ii) The document can also be downloaded from the Web site i.e. [www.keralacoast.org](http://www.keralacoast.org). Such bidders are required to submit the tender fee as clause 3a(1) above along with the EMD as clause 4 below.
- iii) Tender document will be sold on all working time upto 5.00pm on 03/08/12.
- iv) This Tender document is non-transferable.

**b. Submission of Bids**

Sealed offers prepared in accordance with the procedures enumerated as clause 8 under Section I should be submitted to the office of Managing Director, KSCADC on or before the last date i.e. 11.00 AM on 04/08/12.

**c. Opening of Pre-qualification cum Technical Bids**

The pre-qualification cum technical bid received in time at the office will be opened at 11.30 AM on 04/08/12 at Kerala State Coastal Area Development Corporation Ltd. The bidders or their authorized representatives may be present if they so desire.

**d. Advice to the Bidders**

Bidders are advised to study this tender document carefully before participating. It shall be deemed that submission of Bid by the bidder have been done after their careful study and examination of the tender Document with full understanding to its implications.

**4) Earnest Money Deposit (EMD)**

All bidders are required to deposit EARNEST MONEY as given below. The offer received without required Earnest Money shall be rejected without further reference. All bids must be accompanied by an earnest money of Rs. 1,00,000/- in the form of Demand draft from a nationalized or scheduled bank, in favour of "Kerala State Coastal Area Development Corporation Ltd", payable at Thiruvananthapuram. No interest shall be payable by KSCADC on the Earnest Money deposited by Bidder.

**5) Period of Validity of Offer**

Offer should remain valid for 180 days after the date of opening of the Pre qualification cum technical bid as prescribed by the Corporation. If the validity of the offer is extended, the validity of EMD will also have to be extended. An offer valid for a shorter period may be rejected by KSCADC as non-responsive.

**6) Language of the Bid Proposal**

The Language of the bid proposal as prepared by the Bidders shall be English and all further correspondence and documents related to the bid proposal exchange with the corporation shall be English.

## 7) Amendment of Tender Document

The amendments in any of the Terms and Conditions of this Tender Document will be notified in writing or by fax or by email to all prospective Bidders who have purchased the Tender Documents and will be binding on them.

## 8) Procedure for Submission of Bid

The Bids should be submitted in two parts i.e. Prequalification cum Technical and commercial bid.

**Pre-Qualification cum Technical bid:** - The pre qualification cum technical bid should be put in a single sealed cover super scribing the wordings "Pre-Qualification cum Technical Bid" for Echo Sounder & Marine Communication Equipments. Please note that prices should not be indicated in the Pre-Qualification cum Technical Bid and if price found quoted, the bid will be summarily rejected.

**Commercial Bid:-** Commercial Bid should be put in a single sealed cover super scribing the wordings "Commercial Bid" for Echo Sounder & Marine Communication Equipments.

Commercial Bid should only indicate prices filled as per Annexure 1 F and 1 G provided in the Tender Document.

The Pre qualification cum Technical Bid Cover and Commercial Bid Cover prepared as above are to be kept in a single sealed cover super-scribed with the wordings "Echo Sounder & Marine Communication Equipments, Quantity 100 nos". Tender Number, Due Date and the wordings "DO NOT OPEN BEFORE 11.00 AM on 04/08/12. Only authorized person should sign the tender/quotation. His name, designation and address should be given in capital letters.

In the event of bid being submitted by a firm, it must be signed separately by each member thereof, or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, or in the case of a Company, the quotations should be executed in the manner laid down in the said Company's Articles of Association. The signatures on the quotations shall be deemed to be authorized signatures.

All the columns of the quotation form enclosed at Annexure 1F & 1G of tender document shall be duly, properly and exhaustively filled in. The rates and units shall not be overwritten. Quotations shall always be both in the figures and words. The words "No quotations" should be written across any or all of the items in the schedule for which a tenderer does not wish to tender.

Any omission in filling the columns of "units" and "rate" shall altogether debar a quotation for being considered.

No tender will be considered unless and until all the documents are properly signed and all corrections must also be signed by the tenderers.

The quotations will be regarded as constituting an offer or offers open to acceptance in whole or in part or parts at the discretion of Managing Director, KSCADC.

### **Late Bid**

The cover should also indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "Late".

### **Bid Prices**

- a) The Bidder on the Price Schedule shall indicate the unit prices of each item and total bid prices of the items to be supplied under the Contract.
- b) Prices indicated on the Price Schedule shall be entered separately in the following manner:
  1. The price of the goods, quoted, including all duties, insurance on freight, and sales and other taxes already paid or payable.
- c) Fixed Price quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account. A bid submitted with a variable price quotation will be treated as non-responsive and rejected.

### **9) Withdrawal of Bid proposal**

No bid proposal or any part of it will be permitted to be withdrawn subsequent to the deadline for the submission of the bids.

### **10) Contents of the Bid**

The bids prepared by the bidder shall comprise the following components -

**Pre-Qualification cum Technical bid:** Pre-Qualification cum Technical bid comprising the following are to be filled as per the format provided in tender: -

- I) Duly signed original tender document on each page
- II) Draft for Earnest money
- III) Bidder must be in the business for the last two years for electronic goods and accessories or fishing equipments.
- IV) Manufacturer warranty Annexure-1A
- V) Bidder's particulars Annexure-1B, Annexure-1C.
- VI) Technical detail Annexure-1D
- VII) After sales service certificate Annexure 1E
- VIII) Copies of the atleast one supply orders of similar equipments executed by the bidder.
- IX) Customer satisfaction report from atleast one customer for supplying them with similar products.
- X) An undertaking to comply with the warranty as specified at clause 18 under section I. Bidder shall specify the brand name, make and technical specification of all the equipment and accessories quoted under this tender.
- XI) The complete readable technical brochures of the equipments offered along with the technical compliance of each of the specifications laid in the tender document as per the Performa attached with the tender document at Annexure H
- XII) All the annexure enclosed with this document should be duly filled up and signed.
- XIII) Annexure 1I (Checklist)
- XIV) OEM Certificates.

**Commercial Bid:** - Commercial bid comprising of bid letter and Performa is to be filled in accordance to the proforma given at Annexure-1F and Annexure 1G.

## 11) Evaluation of Bids:

An evaluation committee consisting of officials as decided by the Managing Director, KSCADC will evaluate the bids of all the bidders both technically and commercially as per the following schedule/pattern.

- i) Only Pre-qualification cum Technical bid shall be opened on the day of opening of the bids at 11.30 AM on 04/08/12 (see 3c) in the presence of bidders representatives who intend to attend at their cost. The bidders' representatives who are present shall sign a register evidencing their attendance.
- ii) Conditional bids shall be summarily rejected.
- iii) The pre qualification cum Technical bid document shall be evaluated as per the following:-
  - a) The documentation furnished by the bidder will be examined to see whether the qualifications and specific requirements mentioned in this document are fulfilled.
  - b) The bidders if required shall be asked to make a presentation/ demonstration of the equipment to the evaluation committee.
  - c) That the samples of the equipments, if required can be asked for evaluation & testing to check the specification and if required field trials shall also be carried out.
- iv) The Commercial Bid of those bidders whose pre qualification cum technical bids are found as per the requirement laid in the tender document will only be opened. The Place, date and time of the opening of the commercial bid shall be notified separately and informed to the successful prequalification cum technical bidders.

## 12) Criteria for Disqualification

KSCADC may adopt such criteria for disqualification of a Bidder as KSCADC may consider appropriate. Such criteria may include, without limitation, the following: -

- a) Failure by any Bidder(s) to provide all of the information required in the Bid Proposal or any additional information as requested by the corporation including any supporting document;
- b) Non Receipt of Bid Proposal on or before the last date and time specified in this document;
- c) Material inconsistencies in the information submitted;
- d) Misrepresentations in the Bid Proposal or any supporting documentation;
- e) Non – payment of Earnest Money deposit.
- f) Incomplete or conditional bids that do not fulfill all or any of the conditions specified in this tender document and bids not quoted as per the tender document.
- g) Use of unfair means
- h) Bids found in unsealed cover, Unsigned bids; Bids signed by unauthorized person and unsigned corrections in the bids.
- i) Offer with price variation clause.
- j) The bid shall contain no erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be authenticated by the person or persons signing the bid.

**13) Right to negotiate**

- i) The KSCADC or the evaluation committee reserves the right for negotiation with the bidders as per the prevailing purchase procedures/policy of the State.
- ii) The negotiation shall only be carried out with the technically qualified as well as lowest bidder by KSCADC/any other competent authority / purchase committee. as per the procedures/policy of the Kerala Govt. prevailing at that point of time.

**14) Acceptance of the Bid**

KSCADC do not bind themselves to accept the lowest or any bid and reserves the right to:

- i) Reject any or all bids with/without any reason.
- ii) Accept/prefer any bid or Bidder without assigning any reason and also reduce or extend the period of contract without assigning any reason.

**15) Cross Checking**

KSCADC reserves the right to contact and verify Bidder's information, references and data submitted in the Bid proposal without further reference to the Bidder.

**16) Absence of Specifications**

The absence of specifications details regarding any equipment to be supplied under this project implies that best general practices will prevail and that first quality material and workmanship will be applied as per the discretion of KSCADC. Certification standards, when available, for the to-be-installed equipments and materials, will prevail.

**17) Cost involved in Tendering**

The Bidder shall bear all costs associated with the preparation and submission of its Bid, including the cost of presentation for the purposes of clarification of the bid, if so desired by the KSCADC, KSCADC will in no case be responsible or liable for those costs.

**18) Earnest Money Refund**

- i) The draft of Earnest Money to the bidder(s), who fail(s) to qualify for the Commercial Bid, will be returned back by KSCADC to the authorized representative of the Bidder against a proper receipt or will be sent by the registered post at the mailing address of the Bidder as specified in the bid within eight weeks after completion of Technical Bid evaluation.
- ii) The draft of Earnest Money to the bidder(s), who qualify(s) for the Commercial Bid, but do not get the order for the project will be returned back by KSCADC to the authorized representative of the Bidder against a proper receipt or will be sent by the registered post at the mailing address of the Bidder as specified in the bid within one month after the release of purchase order by KSCADC on the successful Bidder.

**19) Warranty**

- i. The Vendor will also be responsible for providing comprehensive on site warranty for a minimum period of three years for all the equipments from the date of successful installation.

- ii. The said warranty shall be deemed to commence from the date of issue of the letter for successful completion of the supplies by KSCADC.
- iii. The warranty shall cover repair/replacement of all defective parts, if any, with the same or equivalent make for any part removed. Maintenance will be provided at site. Limited/carry in warranty will not be accepted. The supplier will provide after sale service during the warranty period from nearest places to installation site. The supplier will attend the complaint within 24 hours and not beyond 72 hours.

Sl. No	Duration	Penalty
1	Upto 72 hours from the logging of the complaint with the vendor	Nil
2	Beyond 72 hours upto 15 days	0.1% per day of the total cost of that equipment
3	Beyond 15 days of the logging of the complaint till rectification of the fault	0.3% per day of the total cost of that equipment

The penalty, if any shall be deducted from the bank guarantee/EMD/From the invoices pending with the Corporation. In case the vendor does not attend to the complaints during the warranty period, the bank guarantees submitted by the bidders will be en-cashed

- iv. After the warranty period is over successfully, the indenting department has the option either to award the AMC with spares to the vendor at the rates negotiated at the time of award of the contract or may give it to any third party.
- v. Vendor should have satisfactory arrangement to receive complaints during the period of warranty as well as AMC as the case may be.
- vi. The bidder is further required to keep minimum 2% of the quantity of the equipments that may be supplied as stand by at a mutually agreed local center during the warranty period and AMC as the case may be.
- vii. The above clauses shall also be applicable during the AMC period as well.

**20) Release of Order**

After Acceptance of a Bid Proposal, KSCADC will release the formal order in favour of the successful bidder.

**21) Right to vary Quantities at the time of Award**

The KSCADC reserves the right to vary the quantities and fix a delivery schedule. KSCADC also reserves the right to order additional quantities at a price not more than the price accepted after this tender for a period of six months from the date of order placement.

**22) Right to accept any Bid and to reject any or all bids**

The KSCADC reserve the right to accept any bid, and to annul the Tender process and reject all or any bids at any time without assigning reason without thereby

incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the KSCADC such action.

**23) Changes in Technical Specifications**

KSCADC reserves the right to effect changes in the Technical Specifications. Any such change will be notified in writing to all those who have purchased this Document. In case, any of the bidder have submitted the bids before receiving the notification of changes, will be allowed to submit a revised Pre-Qualification cum Technical and Commercial bid.

**24) Additional Information/Clarification**

KSCADC reserves the right to ask for any additional information and samples, as it may deem necessary to evaluate the Bid Proposal. Bidders that fail to submit additional information or clarification as sought by KSCADC within one (1) week of the receipt of KSCADC's letter requesting for such additional information and/or clarification, their bids will be evaluated based on the information furnished along with the Bid Proposal.

The bidder is expected to examine all the instructions, forms, terms & conditions and specifications in the indenting document. Further to furnish all the information required by the indenting document or submission of a bid in every respect will be at bidders risk and may result in rejection of the bid. In the event of tender being accepted the bid will be converted into contract which will be governed by the conditions specified under section II mentioned at pages 11 to 15.

Read and accepted

Signature on behalf of  
M/s-----

## Section II

### Terms and Conditions of ORDER

#### 2.1 Prices

1. The total F.O.R destination prices mentioned in purchase order are inclusive of current excise duty, freight, insurance, Sales Tax / VAT etc. Further if there is any change in the excise duty by Govt. of India then the same shall be applicable on presentation of the proof. No change in any other duties, including Sales Tax/VAT, Custom Duties, affect due to devaluation of Rupees shall be entertained.
2. The prices quoted for the equipments and related accessories/Services shall be firm throughout the period of contract and shall not be subject to any upward modification whatsoever

#### 2.2 Transit Insurance

The supplier has the responsibility to get the transit insurance.

#### 2.3 Changes in the Minimum Specified Work

- i) In the event of withdrawal or discontinuance of any item or items and consequent ceasing of or reduction in demand the vendor shall not be entitled to any compensation. KSCADC will however, make all reasonable endeavors to give warning of any impending complete withdrawal or of any reduction seriously affecting quantities likely to be required under the order placed as specified in section 1(20).
- ii) If during the currency of execution of order, the specifications of any item or items to be supplied become obsolete, the vendor shall continue to comply with demands for the supply of the said item or items in accordance with the new specifications at rate not higher than already agreed rates at the time of contract, and the vendor will not be entitled for any compensation also.

#### 2.4 Changes in order

Other than the changes, which subject to Section 2.3 above, no modification of the terms and conditions of the order shall be made except by written amendments signed by the both vendor and the KSCADC.

#### 2.5 Delivery Period

- i) Delivery of the equipments along with accessories as per the supply order shall be completed within one month from the date of placement of the order or from the date of the release of frequencies whichever is later.
- ii) The supply shall actually be deemed to have been complete on or before the date of completion of the supply of the stock.
- iii) If the vendor fails to deliver any consignment within the delivery period prescribed at part (i) of Section 2.5, the delayed consignment will be subject to 0.1% penalty per consignment per day recoverable on the value of stores supplied. In case of non payment by the vendor, recovery will be made from his bills or amount of Earnest Money with the KSCADC provided that: No recovery of penalty will be made if KSCADC accepts the delayed supplies by extending the delivery period upto 1 week by recording in writing that the exceptional circumstances were beyond the control of the vendor and there was no loss to KSCADC.. In case the delivery period is extended, no

penalty for supplies made during the extended period is recovered from the vendor.

On the failure of the supplier to make supply within the extended period, KSCADC can affect the Risk purchase. The said purchase at the cost of vendor will be made and delivered by the MD, KSCADC within 6 months by inviting short-term quotations from the registered and other empanelled vendors. The excess cost thus incurred will be recovered from the vendor from his pending bills or Earnest Money or through court of law. This procedure will be adopted after serving a registered notice to the vendor to seek his explanations within 15 days and if the vendor fails to reply or is unable to explain up to the satisfaction of KSCADC.

- iv) The unexcused delay in the performance of delivery or non supply of items by the vendor in the prescribed period may render him liable to any or all of the following penalties:-
  - a) The penalty as mentioned at part (iii) of clause 2.5 in section II above.
  - b) Forfeiture of earnest money.
  - c) Imposition of liquidated damage and termination of the contract as default.
  - d) The vendor may be Black listed or debarred for the period of 3 years for participating in any tender released by Kerala Govt.
  - e) KSCADC can make Risk Purchase as mentioned above.

## **2.6 Warranty Period and Maintenance Services**

- i) The vendor will be responsible for the comprehensive maintenance of all supplied equipments and related accessories free of charge during the warranty period as specified at Clause No. 18 of Section 1.
- ii) It shall be the responsibility of the vendor to keep the equipment in good working condition the necessary repairs/maintenance of equipment on monthly basis during the warranty period, otherwise it shall be treated as a non performance on the part of the vendor and the penalty as mentioned in clause no 18 may be may be forfeited and firm shall be imposed besides black listing the vendor for future business. The vendor shall provide free replacement of equivalent part as and when required during the warranty period or AMC as the case may be.

## **2.7 Price Fall**

- i) The prices charged for the Items/Services supplied under the contract by the vendor shall in no event exceed the lowest price at which the vendor sells the Goods or offers to sell Items of identical description to any persons/organizations including the KSCADC, Department of the Central or State Government or any Statutory undertaking of the central or State Government, as the case may be, till the signing of the contract.
- ii) If, at any time during the said period the vendor reduces the sale price, sells, or offers to sell such goods to any person/ organization including KSCADC or any Department/ Organization of State or Central Government or any statutory Undertaking of the Central or State Government as the case may be, at a price lower than the price chargeable under the contract, the Vendor shall forthwith notify such reduction, or sale or offer to sell to the purchaser and the price payable under the contract for the supply of material after the date of coming into force of such reduction or sale or offer to sell shall stand correspondingly reduced.

## 2.8 Inspection/Tests of the Items/Equipments

- i) The inspection of the equipments shall be carried out by KSCADC and shall have the power to inspect/verify the items supplied as per the order before, during or after installation and to reject the same or any part or portion, if he or they be not satisfied that the same is not at par or according to the specifications submitted by the vendor. The equipments and the related accessories shall be put to the operational test to see the functionality of the equipment.
- ii) The inspection of the stores to be supplied under this order shall be carried out at Destination or any other place to be specified in the purchase order.
- iii) The vendor shall not be paid for supplies rejected by KSCADC.
- iv) Vendor shall neither claim nor be entitled to payment for any damage that rejected supplies may suffer from any harm whatsoever incidental to a full and proper examination and test of such supplies.
- v) KSCADC shall be under no liability whatsoever for rejected items and the same will be at the vendor's risk.
- vi) Rejected supplies shall be removed by the vendor at his own expense within 10 days after notice has been issued to him of such rejection, and failing such removal of rejected goods will be at vendor's risk and KSCADC may charge the vendor the market rent for the space occupied by such rejected goods.

## 2.9 Invoicing

- i. With every dispatch of goods or materials in the order, the vendor will prepare invoices in triplicate in the name of Managing Director, KSCADC which will be mentioned in the order.
- ii. Invoice along with Delivery Challan in duplicate are to be sent by the vendor to the consignee.
- iii. Second copy to KSCADC along with the duly signed Delivery Challan received by the vendor from the respective intending officers for further necessary action regarding payments, etc. The payment shall be released by KSCADC after the inspection/ verification of the materials in accordance to the clause 2.8 above.

## 2.10 Bank Guarantee

The successful bidder shall submit a performance bank guarantee in favour of KSCADC equivalent to the 5% of the total purchase order value, which will be kept valid for the entire period of three years which ever is later. The said bank guarantee shall be submitted with in ten days from the date of the issue of the purchase order.

If the successful bidder fails to attend the complaints with in the scheduled time frame mentioned in clause no (iii) of 18 of section I, the penalties so accrued shall be deducted from the bank guarantee and in this the case the bank guarantee shall been-cashed and the balance shall be released after the deduction of the accrued penalty on non performance.

## 2.11 Condition of Items Supplied

- i) This is subject to the condition that the materials are securely packed by the vendor in sound containers and the consignment is accepted by the carriers without any adverse remarks as to the packing or the condition of the containers. In case of any adverse remarks, the responsibility for the losses in transit will rest with the vendor.

- ii) The vendor will not be entitled to charge or be paid for supplies broken, lost or damaged in transit. Such supplies shall be removed by the vendor at his own expense. The decision in this regard taken by KSCADC shall be binding and final.

#### **2.12 Payment Schedule**

No payment shall be made in advance for any supplies made under this order. 90% of payment will be released after inspection and delivery of the stores.

The balance 10% payment along with the EMD will be released after two months from the date of acceptance of the stores by KSCADC and submission of Bank Guarantee. The bank guarantee should be valid till the completion of the warranty period (Refer clause no. 18 of Section 1).

#### **2.13 Sub-Contracting of the order**

The contractor shall not assign or sublet contract without written approval of the officer sanctioning the contract.

#### **2.14 Change in Company Structure**

The Membership/Board structure of the Bidder, if changed after the Bidder is selected; the bidder shall accordingly inform KSCADC of such changes.

#### **2.15 Compliance with Laws, Permits**

The successful Vendor shall comply with all local, state, and Federal rules, regulations, ordinances, codes, and laws relating to the work or the conduct thereof and shall secure and pay for any permits and licenses necessary for the execution of the work and vendor shall be responsible for the same.

#### **2.16 Forfeiture of Earnest Money**

- i) If the Bidder withdraws his bid before the expiry of validity or after the acceptance of the bid, the Earnest Money Deposited by the bidder will be forfeited.
- ii) If the vendor fails to comply with any of the terms, conditions or requirement of order and the technical specifications as indicated at Section 3 of the tender document. The Earnest Money deposited by the Bidder will be forfeited.
- iii) In case vendor fails to comply with the delivery period as specified in the clause 2.5 in section II, the earnest money deposit will be forfeited.

#### **2.17 Cancellation of Order**

- i) In the event of the vendor failing duly and properly to fulfill the order or committing breach of any of the terms and conditions of this order or repeatedly supplying goods liable to rejection hereunder or failing, declining, neglecting or delay to comply with any demand or requisition or otherwise not executing the same in accordance with terms of this contract or if the bidder or his agent or servants being guilty of fraud in respect of this contract or any of his partners or representatives found directing, giving, promising or offering any bribes, gratuity, gift loan, perquisite, reward or advantage pecuniary or otherwise to any person in the employment of Government in any way relating to such officers or person or

persons, officer or employment or if the bidder or any of his partners become insolvent or apply for relief as insolvent debtor or commence any insolvency proceedings or make any composition with his/their creditors or attempts to do so, then without prejudice to KSCADC's, KSCADC shall be entitled to cancellation of order forth with and to blacklist the bidder and may claim back all or part of the money already paid to the bidder.

- ii) If during the currency of execution of order, the Vendor becomes bankrupt or otherwise insolvent or is likely to become insolvent or bankrupt, KSCADC, at any time, cancel the order by giving written notice to the Vendor. Notwithstanding the above, such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to KSCADC.

## **2.18 Consequences of Cancellation of Order**

- i) Upon cancellation of order, the Vendor shall deliver or cause to be delivered all works carried out for and on account of the indenting department and all data and records to KSCADC.
- ii) Cancellation of order shall not affect any continuing obligations of the Vendor under the Contract Agreement, which, either expressly or by necessary implication, are to survive its expiry or termination such as confidentiality obligations of the Vendor.
- iii) KSCADC may procure services similar to those undelivered, upon such terms and in such manner, as it deems appropriate, at the risk and responsibility of the Vendor and the vendor shall be liable for any additional costs for such services.
- v) The Vendor shall continue the performance of the order to the extent not terminated.
- vi) Upon cancellation of order for whatsoever, KSCADC shall have the right to perform the following penalties: -
  - a) Forfeiture of earnest money
  - b) Imposition of liquidated damage.
  - c) Black listing of the Vendor

## **2.19 Un-avoidable Circumstances**

If the Vendor is prevented from performing any of its services under the Contract Agreement due to causes such as fire, Acts of God, or elements, embargoes, governmental orders, the Vendor shall be excused from the non-performance of its obligations during the period that such cause continues to exist, but if such cause continues to exist and prevents performance by the Vendor of its obligations for more than 60 days, KSCADC may terminate the Contract Agreement in whole or part thereof effective upon delivery to the Vendor of written notice of such termination.

## **2.20 Arbitration**

If any question, difference or objection whatsoever shall arise, in any way connected with or arising out of this contract or the meaning or operation of any part thereof or the rights, duties or liabilities of either party than save in so far as the decision of any such matter is here in before provided for and has been so decided every such matter including whether its decision has been otherwise provided for and/or whether it has been finally decided accordingly in whether the contract should be terminated or has been rightly terminated in whole or part and as regards the rights and obligations of the parties as the result of such termination, shall be referred for arbitration to the Secretary to Government, Fisheries Department or any other officer/official appointed by him and his decision shall be final and binding. And where the matter involves a claim of the amount if

any awarded in such arbitration shall be recoverable in respect of the matters so referred. All disputes will be settled with in the jurisdiction of the state of Kerala.

**2.21 Acquaintance with All Conditions**

The bidder acknowledges that he has made himself fully acquainted with all the conditions and circumstances under which the supplies required under the contract will have to be made or furnished and with all the terms, clauses, conditions, specifications and other details of the contract and the bidder shall not plead ignorance of any of those as excuse in case of complaint against or on rejection of supplies tendered by him or with a view either to asking for encashment of any rates agreed to in the contract or to evading any of his obligations under the contract.

Read and accepted

Signature on behalf of  
M/s-----

### Section III

#### 3. Technical Specifications

The vendor will supply of the below mentioned equipment that will best accommodate and meet the requirements. Bids not meeting these minimum Technical Specifications are liable to be rejected.

#### **A. ECHO SOUNDER & MARINE COMMUNICATION EQUIPMENT FOR - MECHANISED FISHING BOATS. - 100 Nos**

##### **(i). ECHOSOUNDER - 100 Nos**

The equipment should also function as a chart plotter of GPS and transponders under the National Automatic Identification System (NAIS)

Sl. No	Features	Specifications
1	Display	5 inch, 256 Colour, Day light viewing
2	Resolution	480V X 480 H (High Contrast)
3	Back lighting	Adjustable for Screen & key pad
4	Depth Range	Minimum 1500 meters with sub range division of 10 meters.
5	Transducer	50/200 KHz
6	Power requirement	12V DC
7	Antenna	Internal, 16 channel
8	Way points	5000
9	Routes	200
10	Water proof	IPX7 (Marine Weather Proof sealed.)

Note: The cost shall include installation charges, protective box, PVC pipe of sufficient dimension for transducer, electric cabling etc.

##### **(ii) . MARINE COMMUNICATION EQUIPMENTS - 100 Nos**

#### **General**

Should enable two way voice communications via VHF upto a distance of minimum 80 nautical mile and for data transmission through VHF up to a distance of 30 nautical mile in the sea from base.

- IPX 7 Water proof and Marine weather proof light weight and compact
- Operating Voltage - 12 V DC

**Voice communication features required for equipment:**

Sl. No	Features	Specifications
1	Tx Frequency	156.025 - 157.425 Mhz
2	Rx Frequency	156.050 - 163.275 Mhz
3	Transmitter Out put power	25 W
4	Transmitter Max Frequency	+/- 5KHz
5	Receiver Intermediate Frequency	21.7 MHz (1 <sup>st</sup> ), 450 KHz (2 <sup>nd</sup> )
6	Receiver Audio out put	4.5W
7	Antenna	6- 7.5 db gain, Fiber glass colenier Marine grade base,9ft Antenna length, Max Input power - 50watts, swr : nominally 1.2 at spot frequency, Band width : 3mhz , Ferrule: Stainless steel with fiber sleeve, Connector: uhf male, Polarity : vertical, Impedance : 50 ohms, No dc ground, RG213cable - 10 meters)
8	Equipment	Black/Grey colour with hand microphone, DC power cable, mounting bracket.

**Data communication features required for equipment:****General:**

Shall act as VHF transreceiver and be compatible with National Automatic Identification System (NAIS) of Government of India and compatible & interfaces with Item No. (i) above.

Sl. No	Features	Specifications
1	Power supply	12 V -24 V DC
2	Transceiver Transmission power	2-5 Watts
3	Transceiver Transmission frequency	156.025 to 162.025 MHz in 25 KHz band width
4	Transceiver Modulation	GMSK /FM
5	Transceiver Bit rate	9600 b/s
6	GPS receiver	Minimum 12 Channels receiving
7	GPS receiver	IEC 61108-1 complaint
	Antenna	VSWR - <1.5: 1, Gain (dBd/marine db) - 0/3, Polarisation - vertical, Maximum Power (Watts) - 100, Impedance - 50 ohms, No DC ground
8	Antenna Frequency range (MHz)	156-162.5
9	Equipment Status indication	LED

**B. ECHO SOUNDER & MARINE COMMUNICATION EQUIPMENT FOR .  
MOTORISED TRADITIONAL FISHING CRAFTS. - 50 Nos**

**(i). ECHOSOUNDER - 50 Nos**

SI. No	Features	Specifications
1	Display	4 inch, Day light viewing
2	Resolution	Detailed 4 level - gray scale , 240 x 160H
3	Back lighting	Incandescent screen
4	Power out put	188/1500 ( Watts RMS/Peak to Peak)
5	Operating frequency	83/200 kHz
6	Depth Range	300-500 meters
7	Transducer	Transom mount skimmer
8	Power requirement	12V DC
9	Operating frequency	83/200 kHz
10	Water proof	IPX7(Marine Weather Proof sealed.)

Note: The cost shall include installation charges, protective box, PVC pipe of sufficient dimension for transducer, electric cabling etc.

**(ii) . MARINE COMMUNICATION EQUIPMENT - 50 Nos**

**General**

Should enable two way voice communications via VHF upto a distance of minimum 80 nautical mile and for data transmission through VHF up to a distance of 30 nautical mile in the sea from base.

- IPX 7 Water proof and Marine weather proof light weight and compact
- Operating Voltage - 12 V DC

**Voice communication features required for equipment:**

SI. No	Features	Specifications
1	Tx Frequency	156.025 - 157.425 Mhz
2	Rx Frequency	156.050 - 163.275 Mhz
3	Transmitter Out put power	25 W
4	Transmitter Max Frequency	+/- 5KHz
5	Receiver Intermediate Frequency	21.7 MHz (1 <sup>st</sup> ), 450 Khz (2 <sup>nd</sup> )
6	Receiver Audio out put	4.5W
7	Antenna	6- 7.5 db gain, Fiber glass colenier Marine grade base,9ft Antenna length, Max Input power - 50watts, swr : nominally 1.2 at spot frequency, Band width : 3mhz , Ferrule: Stainless steel with fiber sleeve, Connector: uhf male, Polarity : vertical, Impedance : 50 ohms, No dc ground, RG213cable - 10 meters)
8	Equipment	Black/Grey colour with hand microphone, DC power cable, mounting bracket.

**Data communication features required for equipment:****General:**

Shall act as VHF transmitter and be compatible with National Automatic Identification System (NAIS) of Government of India.

SI. No	Features	Specifications
1	Battery pack	Internal rechargeable, Lithium - ion
2	Transmission power	2 Watts
3	Transmit frequency	Configurable.
4	Activation	Unique bracket locking and auto
5	Tamper proof	Automatic tamper message transmission
6	Transmission frequency	156.025 to 162.025 MHz in 25 KHz
7	Transmission Bit rate	9600 b/s (GMSK) & 1200 b/s (FSK)
8	Data storage	8000 own ship position with date and time storage and retrieval capability.
9	GPS receiver	Minimum 48 channels receiving
10	GPS receiver	IEC 61108-1 complaint, WAAS/EGNOS enabled
11	Antenna	Fully integrated GPS & VHF
12	Alert button	Configurable
13	Equipment Status indication	Front LED

Read and accepted

Signature on behalf of  
M/s-----

**ANNEXURE – 1-A**

**(To be enclosed with Pre qualification cum Technical bid)**

**MANUFACTURE WARRANTY**

We, M/S\_\_\_\_\_ hereby declare that the items  
..... supplied by us hereunder shall be brand new,  
free from all encumbrances, defects and faults in material, workmanship and  
manufacture shall be of the highest grade and quality and consistent with the  
established and generally accepted standards for materials of the type ordered shall be  
in full conformity with the specifications, drawings or samples, if any, and shall operate  
properly and further undertake to confirm to all the warranty conditions as specified  
under clause no 18 of section I and clause no. 2.6 of section II of this tender document.

We, M/S\_ \_\_\_\_\_ also undertake that in case the equipment/equipments  
supplied by us found to be defected, faulty, or used at any stage, it shall be replaced by  
us at our cost.

Signature of the Witness

Signature of the Bidder  
on & behalf of M/s

Full Name

Full address

Full Name

Full address

Dated:

**Annexure – 1-B**

**(To be enclosed with Pre qualification cum Technical bid)**

**BIDDERS PARTICULARS**

BIDDERS SHOULD FURNISH ANSWERS TO ALL THE QUESTIONS BELOW.

BIDDERS MAY PLEASE NOTE THAT IF THE ANSWER SO FURNISHED ARE NOT CLEAR AND/OR ARE EVASIVE, THE ENTRY WILL BE LIABLE TO BE IGNORED.

1. Name of the Bidder
2. Permanent Income Tax A/C No.
3. PAN:
4. TIN:
5. Sales Tax Registration No.
6. Please indicate: - Name & full address of your Banker
7. Business name and Constitution of the firm.

Is the firm registered under: -

(a) The Indian Companies Act, 1956 (b) The India Partnership Act, 1932 (Please also give name of partners) (c) Any act, if not who are the owners. (Please give full names and address).

6. State whether required equipment and related accessories held in stock sufficient for the execution of the job.

7. We M/s .....,have enclosed EMD for Rs.1,00,000/- (Rs. One Lacs only) drawn in favour Kerala State Coastal Area Development Corporation Ltd. vide Draft No. dated: drawn on State Bank of Travancore payable at Thiruvananthapuram.

8. For Partnership firms state whether they are registered or not registered under Indian Partnership Act, 1932. Should the answer to this question by a Partnership firm be in the affirmative, please state further: -

(a) Whether by the Partnership agreement, authority to refer disputes concerning the business of the partnership to arbitration has been conferred on the partner who has signed the offer.

(b) If the answer to (a) is in the negative, whether there is any general power of attorney executed by all the partners of the firm authorizing the partners who signed the bid/offer to refer dispute concerning business of the partnership to arbitration.

- (c) If the answer to either (a) or (b) is in the affirmative furnish a copy of either the partnership agreement or the general power of attorney as the case may be.

N.B.:

- (1) Please attach to the offer a copy of either document on which reliance is placed for authority of partners or the partners signing the offer to refer disputes to arbitration. The copy should be attested by a Notary Public or its execution should be admitted by Affidavit on a property stamped paper by all the partners.
- (2) Where authority to refer disputes to arbitration has not been given to the partners signing the offer the offers must be signed by every partner of the firm.
- 9. Here state specifically that whether the price offered by you is to the best of your knowledge and belief, not more than the price usually charged by you for the job of the same nature. If not state the reasons thereof, if any, also indicate the margins of difference.
- 10. Please confirm that you have read all the terms & conditions carefully and have complied with accordingly.

Signature of Witness:  
Full name & address of  
Witness in Block letters

Signature of Bidder

(1) Full name and address of the persons  
Signing (In BLOCK letters)

(2) Whether signing as Proprietor/Partner Constituted  
Attorney/duly authorized by the Company.

Date:  
Place:

(seal)

**BUSINESS DETAILS**

**(To be enclosed with Pre qualification cum Technical bid)**

1. Date of Incorporation/Agreement/Partnership :
2. Particulars of Business:
  - Name of Office :
  - Name of Premises/Building/Village :
  - Area/Locality/Sub-Division :
  - Town/City/District :
  - State/Union Territory :
  - Telephone No. :
  - No. of Branches :
  - Nature of Business :
3. Names, Addresses etc. of Partners/Members/Directors (For Information about more persons, please add separate sheet(s) in the format given below)\*
  - Details of Partners/Members/Directors :
  - No. of Partners/Members/Directors :
  - Full Name :
  - Name of Premises/Building/Village :
  - Area/Locality/Taluka/sub-Division :
  - Town/City/District :
  - State/Union Territory :
  - Telephone No. :
  - Income Tax PAN No.# :

4. Detail of turnover

<b>Financial year</b>	<b>Turnover in Rs</b>	<b>Profit</b>	<b>Page no of the balance sheets enclosed with the bid</b>
2009-10			
2010-11			

Date:

Signature of Bidder

Name :  
Status/ Designation:  
(Seal)

Note : Furnish separate profiles, if desired.

Annexure- 1-D

**(Enclose with Prequalification cum Technical Bid)**

Managing Director  
 Kerala State Coastal Area Development Corporation Ltd  
 'Makayiram', Jagathy, Thiruvananthapuram - 695014

Sl.no	Name of the item (specifications as per the section III)	Qty	Make/model
1			
2			
3			
4			
5			
6			

We undertake, if our bid is accepted, to commence the work immediately and to complete the supply, installation and commissioning as the case may be within the stipulated time frame as specified under clause no. 2.5 in section II unless otherwise specified in the formal purchase order.

We agree to abide by this bid for a period of 180 days from the date fixed for bid opening and it shall remain binding upon us and may be accepted at any time before expiration of that period. Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We have enclosed demand draft no----- Dated ----- drawn in favor of Kerala State Coastal Area Development Corporation Ltd. payable at Trivandrum for Rs ----- as EMD.

We understand that you are not bound to accept the lowest or any bid you may receive. We also understand that you have the right to vary the quantities. Dated Day of \_\_\_\_\_ 2012.

Signature & Seal

(in the Capacity of) Only Authorized to sign bid for and on behalf of\_

Full Name :

Full address :



ANNEXURE – 1-F

**BID LETTER  
(Enclose with Commercial Bid)**

To

Managing Director  
Kerala State Coastal Area Development Corporation Ltd  
'Makayiram', Jagathy, Thiruvananthapuram - 695014

We declare:

We M/s.....offer to supply of ..... to the office of KSCADC in conformity with the said offer as per the following

Sl. No	Name of the item	Qty	Unit Rate	Total

1. Period of Delivery: We do hereby undertake that in the event of acceptance of our bid, the job will be completed within the stipulated time frame as specified under clause no.2.5 unless otherwise specified in the formal purchase order.
2. Terms of Delivery: The landed prices quoted are inclusive of current Excise Duty, Freight, Insurance, Sales Tax, etc.
3. We agree to abide by our offer for a period of 180 days from the date fixed for opening of the Technical bids and that we shall remain bound by a communication of acceptance within that time.
4. We hereby certify that we have read and understood the terms and conditions applicable to the bidder and we do hereby undertake to supply as per these terms and conditions.
5. Certified that the Bidder is:  
A sole proprietorship firm and the person signing the bid/offer is the sole proprietor/constituted attorney of the sole proprietor.

Or

A partnership firm, and the person signing the bid/offer is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney.

Or

7. A company and the person signing the bid/offer is the constituted attorney.



**ANNEXURE 1 G**

**(To be enclosed with the commercial bid)**

**UNDERTAKING OF RATES**

To

Managing Director  
Kerala State Coastal Area Development Corporation Ltd  
'Makayiram', Jagathy, Thiruvananthapuram - 695014

We M/s \_\_\_\_\_ do hereby confirm that:

The rates quoted against this offer are lowest possible and as on date we have not quoted less rates to any other customer than the rates quoted herein. In case, we quote less rates than this offer to any other customer within 1 month of the due date of this offer, then double of the difference in amount will be refunded. We also confirm that in case our Company/principal officially reduce the price before the delivery or within 15 days from the date of delivery, then the benefit for the same will be passed.

We M/s \_\_\_\_\_ further undertake that any price benefit on account of providing higher capacity accessories than the required/specified in this offer shall not be claimed by us.

Dated: this \_\_\_\_\_ day of \_\_\_\_\_ 2012.

Name : \_\_\_\_\_ Designation : (Head or Senior Executive of Firm)

Address :

Phone No : \_\_\_\_\_ Fax No : \_\_\_\_\_

Mobile No :

(Signature)

**ANNEXURE 1 H****(To be enclosed with the pre qualification cum technical bid)****UNDERTAKING OF CONFIRMING TO THE SPECIFICATIONS**

To

Managing Director  
Kerala State Coastal Area Development Corporation Ltd  
'Makayiram', Jagathy, Thiruvananthapuram - 695014

We M/s \_\_\_\_\_ having do hereby confirm that the  
..... model no..... and made in  
..... offered by us against this tender meet all the specifications as laid in  
this tender document:-

**A. ECHO SOUNDER & MARINE COMMUNICATION EQUIPMENT FOR -  
MECHANISED FISHING BOATS. - 100 Nos****(i). ECHOSOUNDER - 100 Nos**

The equipment should also function as a chart plotter of GPS and for transponders under the National Automatic Identification System (NAIS)

<b>Sl. No</b>	<b>Features</b>	<b>Specifications</b>
1	Display	5 inch, 256 Colour, Day light viewing
2	Resolution	480V X 480 H (High Contrast)
3	Back lighting	Adjustable for Screen & key pad
4	Depth Range	Minimum 1500 meters with sub range division of 10 meters.
5	Transducer	50/200 KHz
6	Power requirement	12V DC
7	Antenna	Internal, 16 channel
8	Way points	5000
9	Routes	200
10	Water proof	IPX7 (Marine Weather Proof sealed.)

Note: The cost includes installation charges, protective box, PVC pipe of sufficient dimension for transducer, electric cabling etc.

**(ii) . MARINE COMMUNICATION EQUIPMENT - 100 Nos****General**

Should enable two way voice communications via VHF upto a distance of minimum 80 nautical mile and for data transmission through VHF up to a distance of 30 nautical mile in the sea from base.

- IPX 7 Water proof and Marine weather proof light weight and compact
- Operating Voltage - 12 V DC

**Voice communication features required for equipment:**

Sl. No	Features	Specifications
1	Tx Frequency	156.025 - 157.425 Mhz
2	Rx Frequency	156.050 - 163.275 Mhz
3	Transmitter Out put power	25 W
4	Transmitter Max Frequency	+/- 5KHz
5	Receiver Intermediate Frequency	21.7 MHz (1 <sup>st</sup> ), 450 KHz (2 <sup>nd</sup> )
6	Receiver Audio out put	4.5W
7	Antenna	6- 7.5 db gain, Fiber glass colenier Marine grade base,9ft Antenna length, Max Input power - 50watts, swr : nominally 1.2 at spot frequency, Band width : 3mhz , Ferrule: Stainless steel with fiber sleeve, Connector: uhf male, Polarity : vertical, Impedance : 50 ohms, No dc ground, RG213cable - 10 meters)
8	Equipment	Black/Grey colour with hand microphone, DC power cable, mounting bracket.

**Data communication features required for equipment:****General:**

**Shall act as VHF transceiver and be compatible with National Automatic Identification System (NAIS) of Government of India and compatible & interfaces with Item No. (i) above.**

Sl. No	Features	Specifications
1	Power supply	12 V -24 V DC
2	Transceiver Transmission power	2-5 Watts
3	Transceiver Transmission frequency	156.025 to 162.025 MHz in 25 KHz band width
4	Transceiver Modulation	GMSK /FM
5	Transceiver Bit rate	9600 b/s
6	GPS receiver	Minimum 12 Channels receiving
7	GPS receiver	IEC 61108-1 complaint
	Antenna	VSWR - <1.5: 1, Gain (dBd/marine db) - 0/3, Polarisation - vertical, Maximum Power (Watts) - 100, Impedance - 50 ohms, No DC ground
8	Antenna Frequency range (MHz)	156-162.5
9	Equipment Status indication	LED

**B. ECHO SOUNDER & MARINE COMMUNICATION EQUIPMENTS FOR  
MOTORISED TRADITIONAL FISHING CRAFTS. - 50 Nos**

**(i). ECHOSOUNDER - 50 Nos**

Sl. No	Features	Specifications
1	Display	4 inch, Day light viewing
2	Resolution	Detailed 4 level - gray scale , 240 x 160H
3	Back lighting	Incandescent screen
4	Power out put	188/1500 ( Watts RMS/Peak to Peak)
5	Operating frequency	83/200 kHz
6	Depth Range	300-500 meters
7	Transducer	Transom mount skimmer
8	Power requirement	12V DC
9	Operating frequency	83/200 kHz
10	Water proof	IPX7(Marine Weather Proof sealed.)

Note: The cost shall include installation charges, protective box, PVC pipe of sufficient dimension for transducer, electric cabling etc.

**(ii) . MARINE COMMUNICATION EQUIPMENTS - 50 Nos**

**General**

Should enable two way voice communications via VHF upto a distance of minimum 80 nautical mile and for data transmission through VHF up to a distance of 30 nautical mile in the sea from base.

- IPX 7 Water proof and Marine weather proof light weight and compact
- Operating Voltage - 12 V DC

**Voice communication features required for equipment:**

Sl. No	Features	Specifications
1	Tx Frequency	156.025 - 157.425 Mhz
2	Rx Frequency	156.050 - 163.275 Mhz
3	Transmitter Out put power	25 W
4	Transmitter Max Frequency	+/- 5KHz
5	Receiver Intermediate Frequency	21.7 MHz (1 <sup>st</sup> ), 450 KHz (2 <sup>nd</sup> )
6	Receiver Audio out put	4.5W
7	Antenna	6- 7.5 db gain, Fiber glass colenier Marine grade base,9ft Antenna length, Max Input power - 50watts, swr : nominally 1.2 at spot frequency, Band width : 3mhz , Ferrule: Stainless steel with fiber sleeve, Connector: uhf male, Polarity : vertical, Impedance : 50 ohms, No dc ground, RG213cable - 10 meters)
8	Equipment	Black/Grey colour with hand microphone, DC power cable, mounting bracket.



## ANNEXURE 1 I

(To be enclosed with the pre qualification cum technical bid)

## CHECKLIST

Name of Bidding Company:

Sl. No	Description	Yes	No	Remarks/ Details
<b>Pre Qualification bid</b>				
1	Duly signed original tender document on each page			
2	Draft for Earnest money of Rs.1,00,000/-			Name of the bank DD no/Dated
3	Bidder must be in the business for the last two years for Marine electronic equipments. Audited balance sheets for the last two years i.e. 2010-11 and 2011-12			
4	Manufacturer warranty Annexure-1A			
5	Bidder's particulars Annexure-1B, Annexure-1C			
6	Technical detail Annexure-1D			
7	After sales service certificate Annexure 1E			
8	Copies of the at least three supply orders of Marine electronic equipments executed by the bidder			
9	Customer satisfaction report from at least three customers for supplying them with similar products			
10	Copy of valid DGS&D Rate Contract of Govt. of India (if applicable)			
11	An undertaking to comply with the warranty as specified at clause 20 under section I. Bidder shall specify the brand name, make and technical specification of all the equipment and accessories quoted under this tender			
12	The complete readable technical brochures of the sets offered along with the technical compliance of each of the specifications laid in the tender document as per the Performa attached with the tender document at Annexure H			
13	The bidding company must be a profit making company for the last two consecutive years i.e 2009-10 and 2010-11			
14	The bidding company should have support centers/after sales service centers in state of Kerala. In case company does not have support center/after sales service center kerala it should enclose an undertaking with the bid to set up the support centers within a month in case the contract is awarded to it and the same should be functional till the period of warranty or AMC which ever is later			
15	The bidding company must certify that the Technology/equipment quoted is State of the art and latest and the original vendor shall provide the technology support for at least five years			
16	Makes and models offered			
17	OEM Certificate			