

TENDER DOCUMENT

FOR

SETTING UP OF RIVER INFORMATION SERVICES (RIS) SYSTEM IN SAGAR – FARAKKA STRETCH OF NW – I



AUGUST – 2012

TENDER No. : IWAI/HY/1(1)/RIS/2012



भारतीय अन्तर्देशीय जलमार्ग प्राधिकरण
(पोत परिवहन मंत्रालय, भारत सरकार)

INLAND WATERWAYS AUTHORITY OF INDIA

(Ministry of Shipping, Govt. of India)

Head Office: A-13, Sector – 1, NOIDA - 201 301 (U.P.)

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(Ministry of Shipping, Govt. of India)

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IWAI/HY/1(1)/RIS/2012

Dated:- 2012

To

Sub: Tender document for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I – reg.

Ref: Your letter No. _____ dt. _____

Sir,

The Inland Waterways Authority of India, Noida, invites sealed tenders from the Original Equipment Manufacturers (OEM) or their authorized agents for the above mentioned supply. The interested parties are therefore requested to submit the bid duly filled up in the office of the Hydrographic Chief, Inland Waterways Authority of India, A-13, Sector-1, NOIDA – 201301, U.P., India, not later than 1500 hrs (IST) on or before 31.08.2012.

Tender document for above work is enclosed herewith.

Yours faithfully,

Hydrographic Chief
IWAI

Encl: as in above

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(Tender for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I)

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NOTICE INVITING GLOBAL TENDER (NIGT)

Tender No. IWAI/HY/1(1)/RIS/2012

Sealed tender in two cover system (cover-I “Technical bid” and cover –II “Financial Bid”) are invited from Original Equipment Manufacturer (OEM) or their authorized suppliers, distributors, agents for Supply, Installation, Training, Commissioning, O&M for 4 years after commissioning and CAMC for 3 years after warranty period of the following system of reputed brand:-

Schedule	ITEMS	QTY (No)	EMD (₹)
A	Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I	1	21,00,000

Term and conditions:

1. Interested bidders may obtain non-transferable tender document by submitting non-refundable Demand Draft for Rs. 5000/- drawn from any Nationalized /schedule bank in favour of “IWAI FUND” payable at Noida /New Delhi.
2. Tender document will be available for sale w.e.f. 8.8.2012 to 30.8.2012 during working hours from the office of Hydrographic Chief, IWAI, A-13, Sector-1, NOIDA, Uttar Pradesh-201 301.
3. Pre-bid meeting shall be held at 1500 hrs on 16.8.2012 at IWAI, H.O, NOIDA
4. The tender document can also be downloaded from the website www.iwai.nic.in Those who are using downloaded tender document from the website may submit the cost of tender documents (Rs. 5000/-) in the form of separate DD along with technical bid, while submitting the bid.
5. A signed declaration stating that no alteration has been made in any form in the downloaded tender document is to be enclosed with the tender by the bidder who use downloaded tender document.
6. The completed bids as per terms and conditions mentioned in the tender document should be submitted in the above address latest by 1500 hrs on 31.8.2012 and Technical Bids shall be opened on the same day at 1530 hours.
7. IWAI reserves the right to accept or reject any or all bids without assigning any reason and no correspondence shall be entertained in this regard.
8. Other terms and conditions are as per tender document.

Hydrographic Chief

NIT for publication in News Paper



INLAND WATERWAYS
AUTHORITY OF INDIA, NOIDA

NOTICE INVITING GLOBAL TENDER

Tender No. IWAI/HY/1(1)/RIS/2012

Sealed tenders are invited from the reputed Firm for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – 1 Date of Sale of Tenders shall be from 8.8.12 to 30.8.12, and Pre-bid meeting will be held on 16.8.12. Last date of submission is up to 1500 hrs on 31.8.12. Date of opening:- 31.8.12 at 1530 hrs. For further details, including EMD and other terms & conditions, please refer to IWAI website www.iwai.nic.in.

Hy. Chief

2. INSTRUCTION TO THE TENDERER

(Tender for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I)

1. Inland waterways Authority of India herein after referred to “THE AUTHORITY” wishes to invites sealed tenders for “Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I”, which includes Supply, Installation, Training, Commissioning, Operation & Management (O&M) for 4 years after commissioning and CAMC for 3 years after warranty period of reputed brand of River Information Services (RIS) herein after referred as “equipment”.
2. **“TENDER DOCUMENT”**:- The required equipment and field delivery, tender procedure and contract terms are prescribed in the tender document. In addition to the invitation for tender, the tender document includes the following.
 - (i) Notice Inviting Tender
 - (ii) Instruction to the Tenderer
 - (iii) Details to Accompany Technical Bid
 - (iv) General Condition of Contract
 - (v) Special Terms and Condition of Contract
 - (vi) Warranty Form
 - (vii) Technical Specifications
 - (viii) Tender Form
 - (ix) Cost Schedule
 - (x) Agreement Form
 - (xi) Performance Guarantee Form
3. The tenderer is expected to examine the tender document carefully including all instructions, conditions, forms, terms, special conditions, technical specifications etc. Failure to furnish all information required by the tender document or submission of a tender not substantially responsive to the tender documents in every respect will result in “**REJECTION OF TENDER BID**” submitted by the individual Tenderer.
 - 3.1 Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the tenderer who resort to any form of canvassing shall be summarily rejected.
 - 3.2 Those tenderer(s) whose near relatives are posted/employed/working in any capacity in the Inland Waterways Authority of India (IWAI) shall not be permitted to bid. The prospective Tenderer shall also intimate the names of persons who are working with him in any capacity or subsequently employed by him & who are near relative to any officer in the IWAI or in the Ministry of Shipping. Any breach of this condition by the Tenderer shall render him ineligible. By the term ‘near relative’ is meant wife, husband, parents and grand parents, children & grand children, brothers and sisters, uncles, aunts & corresponding in laws.
 - 3.3 No engineer of gazetted rank or other gazetted officer employed in engineering or administrative duties in an engineering Deptt. Of Govt. of India is allowed to work as a contractor for a period of two years after his retirement from Govt. service, without the prior permission of the government of India in writing. The contract is liable to be cancelled if either the contractor or any of his employees is found anytime to be

such a person who had not obtained the permission of Govt. of India as aforesaid, before submission of the bid or engagement in the contractor's service.

4. The **Chairman, IWAI** reserves the right to reject any or all of the tenders received without assigning any reasons what so ever. The Chairman, IWAI also reserves right of accepting the whole or any part of the tender and Tenderer shall be bound to perform the same at the rates quoted. The tender in which, any of the prescribed conditions are not fulfilled or incomplete in any respect are liable to be rejected.
5. At any time prior to the dead line for submission of tender, the Authority may for any reason, whether by its own initiation or in response to clarification requested by a prospective Tenderer, modify the tender document by amendments.

In order to afford prospective Tenderer reasonable time in which to make amendment on this account in their tender document, the Authority may at its discretion fix fresh dead line for submission of bid.

6. The tender document filled by the Tenderer and all correspondence and documents relating Tender and the bid exchanged by the Tenderer and the Authority shall be written in ENGLISH. Any document enclosed with the tender that is not in English shall be accompanied by the certified English translation.
7. **EARNEST MONEY DEPOSIT (EMD)**

The bidder shall furnish as part of its tender, EMD of ₹ 21,00,000/- (Rupees Twenty One Lakhs only). The EMD shall be drawn in the form of Crossed Demand Draft (DD) from any Nationalized/ Schedule bank (Schedule I & II as per RBI guidelines) in favour of "INLAND WATERWAYS AUTHORITY OF INDIA FUND" payable at NOIDA / NEW DELHI. No other form of payment, e.g. Fixed Deposit, BG etc., shall be accepted for EMD. No bidder shall be exempted from submission of EMD under any circumstances. The cost of tender documents Rs. 5000/-.

- 7.1 The successful Tenderer's EMD will be converted into Security Deposit (SD) and the successful Tenderer has to remit balance amount of SD in the form of Demand Draft (DD) / Performance Guarantee as per clause 8 of "General Condition of the Contract. However, the validity of BG shall be till expiry of the warranty/Guarantee period as prescribed hereinafter.
- 7.2 The EMD may be forfeited if,
 - (a) Tender withdraws his bid in part or in full or modifies his tender, during the period of bid validity specified on the bid form, or
 - (b) Make any modification in terms & conditions of tender, which is not acceptable to the Authority, then the Authority shall, without prejudice to any right or remedy, be at liberty to forfeit the EMD absolutely.

- (c) The successful Tenderer fails to furnish in full all the information as required by the tender, withdraws his tender or refuses to sign the contract in accordance with “ 2. Instruction to the Tenderer” on issue of letter of intent, or refuses to provide the Security Deposit in accordance with Clause 8 of “ General Conditions of the Contract”

7.3 The EMD will be returned to the unsuccessful Tenderer after finalization of the tender and no interest will be paid on EMD.

8. Submission of Bid

The submission of bid by any Tenderer shall itself imply that the Tenderer has read and understood the tender documents, contract, terms and condition, wherein, further that he has inspected the site and has made all such inquires as may be necessary so as to satisfy himself as regards the entire scope of work specified in the tender document. And upon such satisfaction the Tenderer has found himself capable to perform all obligations mentioned under the tender document if adjudged successful bidder.

Duly sealed covers containing the technical and financial bids will be put in a separate single cover which should be sealed and super scribed as “**Tender for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I**” and “**Don’t Open before 31.8.2012 at 1530 hrs**”.

The offer, complete in all respects, should be submitted by 1500 hours IST on 31.8.2012 in the office of the **Hydrographic Chief, Inland Waterways Authority of India, A-13, Sector-1, Noida-201301 (UP), India.**

Authority shall not be responsible for delay caused due to postal / courier or any other modes of delivery. Local Tenderer may, if so desire, deposit tenders in the tender box provided in the office for this purpose.

The Authority may at its discretion extend the dead line for the submission of bids in accordance with Clause-5 above, in which case all rights and obligation of the Authority and Tenderer previously subjected to the dead line will thereafter be subjected to the dead line as extended.

Late bids will be rejected and returned unopened to the Tenderer.

Telex, FAX, E-mail and cable offer will not be considered under any circumstances.

The Tenderer shall submit the Tender in two sealed covers marked “Cover 1st” and “Cover 2nd”. The Cover 1st shall contain the Earnest Money Deposit as mentioned in clause 7 above and technical bids. The Cover 2nd shall contain the Commercial bids.

In case the first cover is not submitted with Earnest Money in a proper form, the second cover shall not be opened and rejected summarily. Both the Cover-1 & Cover-2 are to be placed in a single cover super-scribing “**Tender for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I**” and shall be received in this Office on or before **1500 hours IST on 31.8.2012** and shall be opened by the Chairman of Inland Waterways Authority of India or his authorized officer at **1530 hrs on the same day**. Tenderer or his authorized representative may remain present at the time of opening, if they so desire.

9. Period of Validity of Bid

- 9.1 Bid shall remain valid for 180 days from the date of bid closing prescribed by the Authority as per the Clause-8 of “ 2. Instruction of the Tenderer.
- 9.2 Not withstanding Clause – 9.1 above, the Authority may solicit the Supplier’s consent for extension of the bid validity. The request and the response shall be made in writing.
- 9.3 All pages of the bid shall be duly signed by the person/(s) signing the bid. The name of and position held by the person signing the bid must be typed or printed below the signature.
- 9.4 The bid shall not contain erased/over writing except as necessary to correct errors by the Supplier in which case the person signing the bid shall initial such correction(s).
- 9.5 Tender forms are not transferable and its cost is not refundable.
- 9.6 “Authority” will in no way be responsible for any expenditure incurred by the tenderer in the preparation and submission of the tender.

10. Technical Bid

The tenderer shall submit the technical proposal keeping in view the equipment specification and quantity of this tender. **The technical proposal shall include the following for evaluation of technical bids:**

- (i) The Earnest Money Deposit and Tender cost as specified in Clause –7 above and item (xxviii) mentioned under 10. Technical Bid .
- (ii) Bank Solvency for an amount of not less than ₹. 3.15 Crores

The Bank Solvency should be in the name of the bidder and not in the name of the Manufacturer / OEM.

- (iii) The original tender document duly signed in every page by authorized signatory of the tenderer, which implies the acceptance of tender terms & conditions, validity of bid, quantity of equipment to be supplied, Delivery, Guarantee, Training etc. mentioned in the tender document,
- (iv) Duly filled / signed “Tender Form”.
- (v) Acceptance of payment terms Clause 14 of “General Conditions of the Contract”.
- (vi) **Tenderer has to clearly mention the name of manufacturer (OEM), Model no. of quoted item, quoted item specifications vis-à-vis specification of item mentioned in this tender document, detailed technical drawing / literature / brochure of quoted equipment, accessories etc. and details / method of installation with drawings at site.**
- (vii) Document evidence such as manufacturer’s valid registration certificate for manufacturing equipment / Authorization certificate as Dealer / Supplier of reputed brand of the equipment for which the bidder intended to quote.
- (viii) Valid latest Income Tax Return proof / Audit report / Balance Sheet for the last three years and Registration Certificate with attested copies as applicable shall be furnished with the technical bid. Copy of valid PAN Card is also to be submitted.
- (ix) Background of the organization with respect to similar experience and brief description of projects recently undertaken in the relevant field. The similar work means, Works successfully completed on Supply, Installation, Overall Maintenance, Security & CAMC for Vessel Traffic Management System (VTMS) / VHF Transmitter, Automatic Identification System (AIS), Automatic Vehicle Tracking, Marine Survey equipments such as Echo sounder, DGPS, Radar, Communication equipments etc.
- (x) Copies of similar supply orders / performance certificates / job completion certificates for each individual item for which the bid is submitted, issued by the client during the past 7 years, for evaluation of financial & technical capabilities of the bidders.
- (xi) Average annual financial turnover during last three years ending 31st March of the previous financial year, should be at least Rs. 3.15 Crores. Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which this tender is invited should be either of following :
 - (a) Three similar works costing not less than Rs. 4.1 Crores.;
 - or**
 - (b) Two similar works costing not less than Rs. 5.3 Crores;
 - or**
 - (c) One similar work completed not less than Rs. 8.5 Crores

- (xii) The tenderer should provide a list of the equipment installed in various reputed Govt. / PSU's / Private sector organizations.
- (xiii) Documentary evidence establishing that the tenderer have local service centers in India with three years experience in maintaining quoted systems and have trained engineers.
- (xiv) Documentary evidence about bidder's financial and technical capability necessary to perform the contract / supply order including capacity in terms of personnel for the purpose of carrying out the service.
- (xv) Documentary evidence such as brochures establishing that the equipment to be supplied by the Supplier conform to the tender document.
- (xvi) The equipment being offered should be based on proven design. This aspect should be clearly stated in the offer.

Proven design means:

- a) One should have executed similar order
- b) Should have supplied similar equipment
- c) Should have proven track record of timely delivery without cost over run.
- d) Similar equipment supplied should have performed to the satisfaction of the owner.

(xxiv) The technical proposal shall not contain any reference to the prices quoted.

(xxv) The Tenderer has to submit signed and sealed Warranty Form (as prescribed in this tender document) along with the technical bid.

(xxvi) The Tender shall give a declaration that they have not been banned or de-listed by any Govt. or quasi Govt. agency or Public Sector Undertaking.

(xxvii) ALL TENDERERS ARE CAUTIONED THAT TENDERS CONTAINING ANY DEVIATIONS WHATSOEVER FROM THE TERMS AND CONDITIONS, SPECIFICATIONS AS CONTAINED IN THE TENDER DOCUMENTS ARE LIABLE TO BE REJECTED AS NON-RESPONSIVE.

(xxviii) Tenderers using downloaded tender document from the website shall submit the cost of tender document (₹ 5,000.00) in the form of separate DD along with EMD, while submitting the bid.

(xxix) Those tenderer who use downloaded tender shall submit an undertaking in writing that they have not made any material change (deletion/ addition) in the downloaded tender document

(xxx) Any other details which tenderer may feel relevant to carry out the present assignment.

If there is any deviation from any condition, it should be clearly mentioned in the technical bid.

The Envelope containing Technical bid will be sealed and super scribed **“Tender for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I- Technical Bid”**

11. Financial Bid

Separate envelope containing financial bids should be sealed and superscripted as **“Tender for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I- Financial Bid”**

The Tenderer shall complete the price schedule (9. Cost Schedule, Schedule-A) included herein stating the unit price and total prices of equipment, complete in all respect, duly complying all requirements, to be supplied, installed, tested and commissioned under the contract. **Prices quoted by the Tenderer shall remain firm and fixed and valid till the validity time.**

The Tenderer shall quote rate in figures as well as in words for amount tendered by him. Special care shall be taken to write the rates in figures and in words in such a way that interpolation is not possible. The total amount shall be written both in figures and in words. In case of figures, the word ‘Rs’ shall be written before the figures e.g. ‘Rs 2.15P’ . In case of words the word ‘Rupees’ shall precede and the word ‘Paise’ shall be written at the end unless the rate is in whole rupee. The figure in word shall invariably be followed by the word ‘Only’. It would invariably be up to two decimal places. While quoting the rate in schedule of quantities in price schedule, the word ‘Only’ shall be written closely following the amount and it shall not be written in the next line.

The prices quoted shall be of F.O.R. destination of the consignees. The Tender shall indicate the rates of Custom duty, excise duty, sales tax, Service tax etc against each item of Price Schedule.

This will contain prices to be charged for completing the work and will comprise of the bid form and price schedule duly filled in and signed.

The prices quoted shall be Basic cost and other taxes (VAT, ST, CST, Road Permit, Octroi etc.), duties (Excise, Custom etc.), insurance, freight, transportation, packing inspection charges, training charges, installation charges and cost of trials etc. separately at the delivery & installation destination. Form No. ‘C’ or ‘D’ & 31/32 will not be issued by the “Authority” Road permit, way bill etc. are to be arranged by the Supplier. Import License and Foreign exchange required, if any, shall be arranged by the Supplier himself. With regard to the import of equipment, “ Authority” will issue only a letter stating that the equipment is for the official use of “Authority”. However, service tax applicable, if any, as per Govt. of India rules shall be indicated separately in the financial bid.

If required, End-User Certificate will be provided by “Authority”.

Suppliers will have to quote the rate entirely in Indian Rupees. The payment to bidder will be made only in Indian Rupees. No provision exists for payments in foreign exchange to Suppliers.

In addition Rates and terms & condition for **Comprehensive Annual Maintenance Contract (CAMC)** after expiry of warranty period of 12 months may be specified clearly along with the Cost Schedule (Schedule - E). This rate shall also be considered for evaluation of this tender

12. Bid Opening and Evaluation

The Authority shall open the technical bid in the presence of Suppliers representatives who choose to attend, at the opening time at the location prescribed for submission of bid under Clause-8. Price bids will be opened at a later date after evaluation of technical bids. The opening date for price bids will be informed to the tenderer whose bids would qualify technically.

Technical Bids will be evaluated and compared based on documents furnished as per 2. Instruction to the Tenderer and 3. Details to Accompany Technical Bid.

The Authority may call any or all bidders for practical demonstration and/ or Power Point Presentation, if feel required, at its discretion.

Price bids will be evaluated and compared based on lowest prices quoted (L-1) as per clause 11 of “Financial bid” for individual item. No weightage carry over on technical evaluation shall be there at the time of financial evaluation.

13. Clarification of Bids

To assist in the examination, evaluation and comparison of bids the Authority shall at its discretion call the Tenderer for clarification on its bids including presentation/ demonstration. All responses to request for clarification shall be in writing within two days and no change in price or substance of the bid shall be sought offered or permitted. The Authority shall not be responsible for expenses for obtaining clarifications.

14. The Authority shall not bind itself to accept the lowest bid and reserves the right to split the order if necessary and also to accept or reject any or all bids or part there of without assigning any reason whatsoever, prior to award of contract without thereby incurring any liability to the affected Tenderer or any obligation to inform the affected Tenderer of the ground for the Authority’s action.

15. The Authority reserves the right at the time of award of order to increase or decrease the quantity of equipment specified in the NIT/ price schedule without any change in unit prices or other terms and conditions. The successful Tenderer shall be bound to supply the items at the same rate and terms and conditions.
16. The Authority will notify the successful Tenderer in writing that the bid has been accepted. The successful Tenderer will be required to enter into a contract with the Authority in the form given in these documents and has to submit Security Deposit/ Performance Guarantee as per Clause 8 of “General Conditions of the Contract”, within 10 days of award of work. Performance Guarantee(s) shall be kept valid till expiry of warranty period of Equipment.
17. The Authority shall forward a draft agreement to the Tenderer along with award of work order. Within 10 days of receipt of such documents the successful Tenderer shall sign the contract on non-judicial stamp paper of Rs. 100/- under the terms and conditions as indicated in the “DRAFT AGREEMENT” forwarded by the Authority. The contract shall be submitted in duplicate.
18. One copy of the Contract furnished to the successful Tenderer as aforesaid shall be kept by the successful Tenderer on each site in good order and the same shall at all reasonable time be available for inspections and use by the “Authority” or his representative or by other Inspecting officers of the Authority.
19. None of these documents shall be used by the successful Tenderer for any purpose other than of this contract.

3. DETAILS TO ACCOMPANY TECHNICAL BID

[“Tender for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I”]

- Enclosure I List of any deviation from the enclosed conditions or contract, giving reference to the Article on which the tenderer proposes to deviate.
- Enclosure II Elaborate technical specification giving details of equipment to be submitted. These should be conforming to the general details given in the technical specification enclosed with the tender documents.
- Enclosure III List of any deviations from the enclosed basic technical specification giving reference to the Clause of specification which the tenderer proposes to deviate from and reason for such deviations.
- Enclosure IV Detailed Supplier’s specifications and drawing(s) of the equipment, showing the correct sizes of equipment offered.
- Enclosure V Delivery, installation & training schedule of equipment shall be enclosed, indicating tentative dates of all major stages.
- Enclosure VI Particulars of collaborators / agents, with whom the tenderer, wishes to associate for supply of equipment, along with the details of scope of work.
- Enclosure VII The Details of the Installation of River Information Services (RIS) with diagram
- Enclosure VIII List of Spare parts & consumables for all equipment for 3 years operation along with their quotation & source on unit rate basis; all inclusive for delivery at “Authority” Regional offices as indicated in the delivery schedule.

“Authority” reserves the right to select the spare parts from the above list at its sole discretion and place order for them. These spare parts, suitably packed, will have to be delivered along with the equipment, if ordered by “Authority”. However, payment for the same would be made separately by “Authority”.

4. GENERAL CONDITIONS OF CONTRACT

["Tender for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I"]

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GENERAL CONDITIONS OF CONTRACT
[“Tender for Setting up of River Information Services (RIS) System in Sagar –
Farakka Stretch of NW – I”]

1. DEFINITIONS

In this Tender and specification, the words and expressions given below shall have the following meaning:-

- (a) **Chairman:-** Means Chairman of Inland Waterways Authority of India.
- (b) **Vice-Chairman:-** Means Vice-Chairman of Inland Waterways Authority of India
- (c) **Member (Technical) :** means Member (Technical) of the Authority.
- (d) **Hydrographic Chief :** means the Hydrographic Chief of the Authority.
- (e) **Chief Engineer:** means the Chief Engineer of the Authority.
- (f) **Director** means the Director of the Authority, as the case may be.
- (g) **Deputy Director** means the Deputy Director of the Authority, as the case may be.
- (h) **Senior Hydrographic Surveyor** means the Senior Hydrographic Surveyor of the Authority, as the case may be.
- (i) **Assistant Hydrographic Surveyor** means the Assistant Hydrographic Surveyor of the Authority, as the case may be.
- (j) **Assistant Director** means the Asstt. Director of the Authority, as the case may be.
- (k) **Engineer-In-Charge (EIC)** means the Engineer officer authorised to direct, supervise and be In-charge of the works for the purpose of this contract who shall supervise and be in charge of the work. For this work Hydrographic Chief, IWAI is the EIC
- (l) **Engineer-in-charge representative** shall mean any officer of the Authority nominated by the Engineer-in-charge for day to day supervision, checking, taking measurement, checking bills, ensuring quality control, inspecting works and other related works for completion of the project.
- (m) **Supplier:-** Means the Company, Firm, person or person who's tender has been accepted by the Authority and includes Supplier's successors, representatives, heirs, executors and administrators unless excluded by contract.
- (n) **Authority:-** Means Inland Waterways Authority of India, a statutory body set up under Inland Waterways Authority of India Act 1985 in the Ministry of Shipping, Government of India, represented by Chairman, IWAI and includes therein-legal representatives, successors and assigns.
- (o) **Government:-** Means the Government of India.

- (p) **Drawings:-** Means the drawing as specified in the specifications. The expression “Work” means all the works specified or set forth and required in and by the said specifications, are drawing and schedule or to be implied there from or incidental thereto or to be hereafter specified or required in such explanatory instructions and drawings being in conformity with the said original specifications, drawing and a schedule and also in such additional instructions and drawing not being in conformity as aforesaid as shall from time to time, during the progress of the work hereby contracted for, be supplied by the Supplier.
- (q) **Equipment:-** Means River Information Services (RIS) to be delivered and installed in accordance with the contract and with modification, if any, as mutually agreed upon. All the equipments/ items which is manufactured by reputed yard/ firm shall be of accredited international brands. Proven Indian products of internationally acclaimed brand will also be considered. However, assembled equipment will not be acceptable.
- (r) **Purchaser:-** Means” INLAND WATERWAYS AUTHORITY OF INDIA” represented by Chairman and includes his successor, assignees.
- (s) **Test:-** Shall mean test or tests as are prescribed by the specification to be made by the supplier/purchaser or their nominee, before the Equipment are taken over by the purchaser. Trial and commissioning of the equipment would be done only at the place of Installation.
- (t) **Site** means the waterway and / or other places through which the works are to be executed.
- (u) **Variation:-** Variation includes alterations, amendments, omissions addition or suspensions of the work.
- (v) **Contract:** means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of the Chairman, Inland Waterways Authority of India and the contractor, together within the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in-charge and all these documents taken together shall be deemed to form one contract and shall be complementary to one another
- (w) **Contract sum;** means the amount arrived at by multiplying the quantities shown in the schedule of quantities and price by the respective item rates as allowed.
- (x) **Work Order** means a letter from the Authority conveying the acceptance of the tender / offer subject to such reservations as may have been stated therein.
- (y) **Day :** means a calendar day beginning and ending at mid-night.
- (z) **Week :** means seven consecutive calendar days
- (aa) **Month :** means the one Calendar month.

ii) MARGINAL HEADING

The marginal headings or notes of each of the Clause in these conditions shall not be deemed as a part thereof or to be taken into consideration in the interpretation or construction thereof or of the contract.

iii) WORDS IMPARTING SINGULAR

Words imparting the singular only also include the plural and vice versa where the context requires.

2.

(a) PARTIES :- The parties to the contract are the supplier and the purchaser.

(b) AUTHORITY OF PERSON SIGNING THE CONTRACT ON BEHALF OF THE SUPPLIER

A person signing the tender or any other document in respect of the contract on behalf of the supplier without disclosing his authority to do so shall be deemed to warrant that he has authority to bind the supplier. If it is discovered at any time that the person so signing had no authority to do so, the Chairman on behalf of Authority may, without prejudice to any other right or remedy of the purchaser, cancel the contract and make or authorize the making of a purchase of the Equipment at the risk and cost of such person and hold such person liable to the purchaser for all costs and damages arising from the cancellation of the contract including any loss which the purchaser may sustain on account of such purchase.

(c) ADDRESS OF THE SUPPLIER AND NOTICES AND COMMUNICATIONS ON BEHALF OF THE PURCHASER

- (i) For all purposes of the contract including arbitration there under, the address of the supplier mentioned in tender shall be the address to which all communication addressed to the supplier shall be sent, unless the supplier has notified a change by a separate letter containing no other communication and sent by registered post due to Hydrographic Chief, Inland waterways Authority of India, A-13, Sector-1, NOIDA, Gautam Budh Nagar District (U.P.) 201 301. The supplier shall be solely responsible for the consequence of an omission to notify a change or address in the matter aforesaid.
- (ii) Any communication or notice on behalf of the purchaser, in relation to the contract may be issued to the supplier by Chairman, and such communication and notices may be served on the supplier either by fax or Email or courier or registered post or under certificate of posting or by ordinary post or by hand delivery at the option of Chairman.

3. AUTHORITY OF CHAIRMAN

For all purposes of the contract including arbitration proceeding their under the Chairman on behalf Authority shall be entitled to exercise all the rights and powers of the purchaser.

4. DELEGATION OF POWERS

The Chairman on behalf of Authority may from time to time delegate to any person operations to be named by him such of the powers, authorities and discretion's vested in him by the contract as he may think fit and the supplier shall recognize such person or persons on written notice from the Chairman of his or their appointment and of the powers, authorities and discretion's respectively delegated to him or them as lawfully exercising for the purpose of this contract the powers, authorities and discretion's so delegated provided that the Chairman on behalf of Authority shall not delegate the powers, authorities and discretion's conferred on him by the Clause 21 hereof.

5. RESPONSIBILITY OF THE SUPPLIER FOR EXECUTION OF THE CONTRACT

I) RISK IN THE SUPPLY OF EQUIPMENT

The Supplier shall perform the contract in all respects in accordance with the terms and conditions thereof. The Equipment and every constituent part thereof, whether in the possession or control of the supplier, his agents or employees or in the joint possession of the supplier, his agents or employ and the purchaser, his agent or employees shall remain in every respect of at the risk of the supplier until their actual delivery to the representative at the stipulated place or destination or, where so provided in the acceptance of tender, until their delivery to a person specified in the schedule as interim consignee for the purpose of dispatch to the consignee. The supplier shall be responsible for all loss, destruction, damage or deterioration of or to the Equipment from any cause whatever while the Equipment after approval by the inspector are awaiting delivery or are on the course of transit from the supplier to the consignee or, interim consignee as the case may be.

(II) RESPONSIBILITY FOR COMPLETENESS

Irrespective of any inspection and tests made by the inspector, the supplier shall be entirely responsible for the proper execution of the contract notwithstanding any approval, which may have been given by the inspector or the supplier.

Any fitting accessories which may not be specially mentioned in the specification but which are usual or necessary are to be provided by the supplier without extra charge.

(III) SUBLETTING THE CONTRACT

The supplier shall not assign lease or sublet or cede this contract or the benefit hereof or any part thereof or any money payable hereunder or sublet the services to be rendered as aforesaid or any part thereof to any other person or company without the previous permission of the Authority certified in writing under the hands of the Chairman and no assignment, lease, cession or subletting although so permitted shall exonerate the supplier from his liability under this contract and the Authority shall not be bound or required to take notice or give effect to any such assignment, lease cession or subletting unless the same shall have been made with such permission as aforesaid PROVIDED ALWAYS the supplier may procure any necessary materials to be manufactured for the purposes of, this contract by any person, firm or company whose names shall have been submitted to and approved by the Chairman on behalf of the Authority before the said materials are ordered but no such approval shall relieve the Supplier from any responsibility or obligations with reference to any such materials.

(a) CHANGES IN A FIRM

- (i) Where the supplier is a partnership firm, a new partner shall not be introduced in the firm except with the previous consent in writing of the Chairman on behalf of Authority which may be granted only upon acceptance of a written undertaking by the new partner to perform the contract of accept all liabilities incurred by the Firm under the contract prior to the date of such undertaking.
- (ii) On the death or retirement of any partner of the supplier firm before complete performance of the contract the Chairman on behalf of Authority may, at his opinion cancel the contract and in such a case the supplier shall have no claim whatsoever to compensation against the purchaser.
- (iii) If that the contract is not determined as provided in sub-Clause (ii) above notwithstanding the retirement of a partner from the firm he shall continue to be liable under the contract for acts of the firm until a copy of the public notice given by him under section 32 of the partnership Act has been sent by him to the Chairman registered post acknowledgement due.

(b) CONSEQUENCE OF BREACH

Should the supplier or a partner in the supplier firm commit breach of either of the conditions(II) or (III) (a) (i) of this sub Clause it shall be lawful for the Chairman to cancel the contract and purchase or authorize the purchase of the Equipment at the risk and cost of the supplier and in that event the provisions of Clause 25 of GENERAL CONDITIONS AND CLAUSE 12 OF SPECIAL CONDITIONS shall as far as applicable. The decision of the Chairman on behalf of Authority as to any matter or thing concerning or arising out of this sub-Clause or any question whether the supplier or any partner of the contract firm has committed a breach of any of the conditions in this sub-Clause contained shall be final and binding on the contract.

(IV) ASSISTANCE TO THE SUPPLIER

- (a) The Supplier shall solely be responsible to procure any equipment or obtain any import or other license or permit required for fulfillment of the contract and the grant by the Chairman or any other authority of a quota certificate or permit required under any law for distribution or acquisition of equipment or any other commodity or any other form of equipment, or any other commodity or any other form of assistance in the procurement of the equipment aforesaid, shall not be construed as a representation & the part of the purchase that the equipment covered by such license or permit quota certificate is available or constitute any promise, undertaking or assurance on the part of the purchaser regarding the procurement of the same or effect any variation in the rights and liabilities of the parties under the contract. But, if by reason of any such assistance as aforesaid, the supplier obtains any equipment at less than their market price or the cost of production of the Equipment is lowered, the price of the Equipment payable under the contract shall be reduced proportionately and the extent of such reduction shall be determined by the Chairman whose decision shall be final and binding on the supplier.
- (b) Every agreement made by Chairman on behalf of authority to supply or give assistance in the procurement of equipment, whether from the Govt. Stock or by purchase under permit or release order issued by or by any officer empowered in that behalf of Govt. shall be deemed to be subject to the condition that it will be performed with due regard to other demands and only if it is found practicable to do so within the stipulated time and the decision of the Chairman on behalf of authority whether it was practicable to supply or give assistance as aforesaid or not shall be final and binding on the supplier.

6. INABILITY TO PERFORM CONTRACT

Should the Supplier's preparation for the commencement of the work, or any portion of it or his subsequent rate of progress may be, from any cause whatever, so slow that in the opinion of the inspector, which shall be conclusive, the supplier will be unable to complete the work or any portion thereof as agreed upon, or should he not have the work ready for delivery in conformity with the contract or should he neglect to comply with any directions given to him by the inspector or in any respect fail to perform the contract, the purchaser shall have power to declare the contract at an end, in which case the supplier shall be liable for any expense, loss or damage which the purchaser may incur or sustain by reason, of or in connection with supplier's default.

7. QUOTATION OF RATES BY SUPPLIER

The price(s) quoted by supplier shall be firm with no provision for any deviation as per in the item No. 9. Cost schedule. All the price(s) quoted shall be indicated both in figures and in words. The price(s) quoted shall be Basic cost and other taxes (VAT, ST, CST, Road Permit, Octroi etc.), duties (Excise, Custom etc.), insurance, freight, transportation, packing inspection charges, training charges, installation charges, cost of trials, any other material and consumables required for the work etc. separately at the delivery & installation at IWAI field offices, (as the case may be) India. Form No. 'C' or 'D' & 31/32 will not be issued by the "Authority". Import License and Foreign exchange required, if any, shall be arranged by the Supplier himself.

The price(s) quoted shall not exceed the prices or contravene the norms for fixation of price laid down by Government or where no such prices or norms have been fixed by Government it shall not exceed the price appearing in any agreement relating to price regulation by any industry in consultation with Government.

8. SECURITY DEPOSIT

1. Security Deposit including EMD already submitted will be 5% (five percent) of the contract value of the work. The EMD received from successful Tenderer will be converted as Security Deposit on signing of the agreement. **Balance Security Deposit (i.e. Total 5% SD deducting EMD submitted with technical bid) shall be paid in the form of Demand Draft before signing of Agreement.** Bank guarantee will not be accepted as security deposit

In addition, the Performance Guarantee shall be submitted in the form of DD/BG from a Nationalized/Reputed International Bank within 10 days of award of work for an amount equal to 5% (five percent) of the contract value of the work. Performance Guarantee(s) shall be kept valid till expiry of Contract. (till completion of 3 years CAMC period).

There shall not be any additional payment to the supplier for obtaining bank guarantees.

2. No claim shall lie against the purchase either in respect of interest or any depreciation in value of any security.
3. If the supplier fails or neglects to observe or perform any of his obligations under the contract, it shall be lawful for the Chairman or his duly authorized representative to forfeit either in whole or in part, the security deposit/encash the Performance Guarantee furnished by the supplier. If the supplier duly performs and completes the contract in all respect and presents in absolute **“NO DEMAND CERTIFICATE”** in the prescribed form, the Chairman on behalf of authority shall refund the Performance Guarantee(s) and security deposit to the supplier after deducting all costs and other expenses that the purchaser may have incurred and all dues and other money including all losses and damages which the purchaser which is entitled to recover from the supplier.

9. RISK OF LOSS OR DAMAGE TO AUTHORITY OR PURCHASER PROPERTY

- i. All the property of the Authority of purchaser loaned whether with or without deposit to the supplier in connection with the contract shall remain the property of the authority or the purchaser as the case may be. The supplier shall use such property for the purpose of the execution of the contract and for no other purpose whatsoever.
- ii. All such property shall be deemed to be in good condition when received by the supplier unless he shall have within seven days of the receipt thereof notified the Chairman to the contrary. If the supplier fails to notify and defect in the condition

or equality of such properties he shall be deemed to have lost the right to do so at any subsequent stage.

- iii. The supplier shall return all such property in good condition. The supplier shall be able for loss or damage to such property in the possession of or under the control of the supplier, his employees or agents and responsible for the full value thereof to be assessed by the Chairman on behalf of authority whose decision shall be final and binding on the supplier.
- iv. Where such property is insured by the supply against loss or fires at the request of the authority or the purchaser such insurance shall be deemed to be effected by way of additional precaution and shall not prejudice the liability of the supplier as aforesaid.

10. CHARGES FOR WORK NECESSARY FOR COMPLETION OF THE CONTRACT

The supplier shall pay all charges for handling, stamping, printing, painting, marking and for protecting and preserving patent rights and for all such measure which the inspector may require the supplier to take for the proper completion of the contract though no special provision in respect thereof may have been able in the particulars.

11. TIME AND DATE OF COMPLETION OF WORK

The time and date stipulated in the tender for the completion of the work shall be deemed to be the essence of the contract. In case of delay the supplier shall in addition to other liabilities mentioned in the special conditions of contract be liable for all cost of inspection, which may be incurred after the date on which the work ought to have been completed

12. PROGRESS REPORT

- (1) The supplier shall from time to time tender reports concerning the progress of the contract in each form as may be required by the Chairman on behalf of Authority.
- (2) The submission, receipts and acceptance of such reports shall not prejudice the rights of the purchaser under the contract, nor shall operate as an estoppels against the purchaser merely by the reason of the fact that he has not taken notice of or objected to any information contained in such report.

13. CERTIFICATE AND FEES

All test certificates and other certificates are to be handed over to the Chairman or his representative on completion of supply and delivery of the Equipment by the supplier with the report that the Equipment are ready for installation. The supplier shall pay all the fees in connection with the certificates and all realities or incurred other fees during the Supply of the Equipment.

14. (a) PAYMENT

Subject to any deduction and addition authorized by and to the other provision of this contract authority shall apply to supplier for the supply, testing installation and training at specified destination the **River Information Services (RIS) including import and customs Duty** and for all other works, matters, things and obligations to be executed, done, supplied and performed by the supplier under this contract including the provision of the spare parts as specified (which said amount is herein called the contract price) by the time and in the manner following viz.:

a) PAYMENT FOR MATERIAL (Schedule A, B & C)

- (i) **80 % (Eighty percent) of the supply value (Schedule A, B &C) will be paid within 30 days of delivery in good condition, without any transit damage. Inspection of Equipment in their Physical condition only and no trials for the equipments supplied at respective IWAI field offices, the supplier will furnish the bill duly certified by the “Authority” authorized representative for delivery in good condition. The Officer-in-charge of the Authority at Field office or their representatives, having received the items in good condition, would certify the bills within 15 days of supply. The payment will be released by IWAI, NOIDA after deducting balance SD.**

As per Clause 8 in general condition of contract, Security Deposit (5%), the balance Security Deposit (i.e. Total 5 % SD after adjusting EMD submitted with technical bid) shall be paid in the form of Demand Draft before signing of Agreement.

- (ii) **20 % (Twenty percent) of the supply value (Schedule A, B &C) will be paid after satisfactory installation, commissioning and successful completion of 4 (Four) days training for equipments to “Authority” personnel, complete in all respect at respective IWAI, field offices. The respective officer in charge of the authority or their representative would certify for installation & training within 15 days of completion of training & installation. The payment will be released by IWAI, NOIDA.**

b) PAYMENT FOR OVERALL MAINTENANCE, OPERATION AND SECURITY OF RIS SYSTEM FOR A PERIOD OF ONE YEAR (Schedule D)

- i). **50% (Fifty) amount of the Schedule D shall be paid after 6 (six) months of deployment of manpower and balance 50% (Fifty) shall be paid after one year . In other words payment shall be paid half yearly. The period starts from the date of deployment of manpower.**
- ii). Attendance register shall be submitted by the Supplier monthly on or before the date fixed by the Engineer –in-Charge for the personnel deployed. The Engineer-in-Charge shall then arrange to have the bills verified with reference to the attendance register or any intermediate inspection thereof.
- iii). Payment on account for amount admissible shall be made by the E-I-C certifying the sum to which the Supplier is considered entitled by way of payment for the

personnel deployed after deducting there from the amount already paid, the security deposit and such other amount as may be withheld / deductible or recoverable in terms of the contract.

c) **PAYMENT FOR CAMC INCLUDING OVERALL MAINTENANCE, OPERATION AND SECURITY OF RIS SYSTEM FOR A PERIOD OF THREE YEARS (Schedule E)**

- i). **50% (Fifty) amount of the Schedule E for each year shall be paid after 6 (six) months of deployment of manpower and balance 50% (Fifty) shall be paid after one year . In Similar way for 2nd and 3rd year payment shall be made. In other words payment shall be paid half yearly. The period starts from the date of deployment of manpower.**
- ii). Attendance register shall be submitted by the Supplier monthly on or before the date fixed by the Engineer –in-Charge for the personnel deployed. The Engineer-in-Charge shall then arrange to have the bills verified with reference to the attendance register or any intermediate inspection thereof.
- iii). Payment on account for amount admissible shall be made by the E-I-C certifying the sum to which the Supplier is considered entitled by way of payment for the personnel deployed after deducting there from the amount already paid, the security deposit and such other amount as may be withheld / deductible or recoverable in terms of the contract.

d) **RELEASE OF PERFORMANCE GUARANTEE AND SECURITY DEPOSIT**

Performance Guarantee and Security Deposit will be released on expiry of Contract period i.e after completion of 3 years CAMC period subject to Clause 8 in general conditions of contract or final settlement of all claims of the purchases under the terms of contract whichever occurs later. The SD and PG will be released by IWAI, NOIDA

No part payment will be allowed against the contract prices, other than 80% first stage payment as mentioned in clause 14(a) (i).

The supplier will have to produce a copy of custom clearance certificates (Bill entry for Home Consumption) & copy of delivery challan issued by the manufacturer of equipment for imported equipment only.

The Separate Work order may be issued for AMC at the discretion of Authority at later stage.

(b) SYSTEM OF PAYMENT

Unless otherwise agreed in written between Chairman on behalf of Authority and the supplier payment for the works shall be made by Chairman on behalf of Authority, by crossed cheque/ RTGS transfer on a branch of Syndicate Bank/ Punjab National Bank in installments as in Clause 14 (a) upon production of the certificate of the inspector and the Director/Dy Director appointed by Chairman for the inspection of the Supply of the

Equipment against the installment due. The supplier must submit the bills and necessary documents allowing 30 days from the date of submission for the payment of installment subject to the condition that the amount of an installment payment shall in no case exceed the value of the work done.

Suppliers will have to quote entirely in Indian Rupees No provision exists for payments of foreign exchange to Suppliers.

15. WITHOLDING AND LIEN IN RESPECT OF SUM CLAIMED

Whenever any claim or claims for payment of a sum of money arises out of or under the contract against the supplier, the purchaser shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, deposited by the supplier and for the purpose aforesaid the purchaser shall be entitled to withhold the said security deposit furnished and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the supplier, the purchaser shall be entitled of the such claimed amount or amounts referred to supra, from any sum or sums found payable or which at any time thereafter may become payable to the supplier under the same contract or any other contract with the purchaser or the government or any person contracting through the Chairman pending finalization or adjudication of any such money so withheld or retained under the lien referred to above, by the purchaser will claim arising out of or under the contract is determined by the arbitrator.

16. INDEMNITY

The supplier shall at all time indemnify the purchaser against all claims which may be made in respect of the Equipment for infringement of any right protected by patent, registration of design or trade mark. Provided always that in the event of any claim in respect of alleged breach of patent, registered designs or trade mark being made against the purchaser, the purchaser shall notify the supplier of the same and the supplier shall at his own expense either settle any such dispute or conduct and litigation's that may arise there from.

17. CORRUPT PRACTICE

- (i) The supplier shall not offer or to give to any person in the employment of the purchaser or working under the orders of the Chairman any gift of consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or favour or disfavour to any person in relation to the contract or any other contract with the purchaser.
- (ii) Any breach of the aforesaid condition by the contract, or any one employed, by him or acting on his behalf (whether with or without the knowledge of the supplier) or the commission of any offence by the supplier or by any one employed by him or acting on his behalf under chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1947 or any other Act enacted for the prevention of corruption by public servants shall entitled the Chairman on behalf of authority to cancel the contract and all or any loss arising from such cancellation in accordance with the provisions of special condition and general conditions.

18. INSOLVENCY AND BREACH OF CONTRACT

The Chairman on behalf of authority may at any time, by notice in writing, summarily terminate the contract without compensation to the supplier in any of the following events, that is to say:

- (i) If the supplier being an individual or if a firm, any partner thereof, shall at any time, be adjudged insolvent or shall have a receiving order or other for administration of his estate made against him or shall take any proceeding for composition under any insolvency act for the time being in force or make any conveyance or assignment of his effects or enter into any arrangement or composition with his creditors or suspend payment of if the firm be dissolved under the partnership act, or
- (ii) If the supplier being a company is wound up voluntarily or by the order of a court or a Receiver, Liquidator or Manager on behalf of the debenture holders is appointed or circumstances shall have arisen which entitled the court or debenture-holders to appoint a Receiver, Liquidator or Manager, or
- (iii) If the supplier commits any breach of the contract not herein specifically provided for : provided always that such determination shall not prejudice any right of action or remedy which shall have accrued or shall accrue thereafter to the purchaser and provided also the supplier shall be liable to pay to the purchaser. For any extra expenditure is thereby put to and the supplier shall under no circumstances be entitled to any gain on re-purchase.

19. ARBITRATION

- 19.1 Except as otherwise provided herein before, all questions, disputes or difference in respect of which the decision has not been final and conclusive arising between the supplier and the authority in relating to or in connection with contract shall be referred for arbitration in the manner provided a under and to the sole arbitrator appointed as follows:
- (i) Either of the parties may give to the other notice in writing of the existence of such question dispute or difference.
 - (ii) Within thirty (30) days of receipts of such notice from either party the Director / Dy. Director in charge of work at the time of such dispute shall send to the supplier a panel of three persons and there after the supplier within fifteen (15) days of receipt of such panel communicate to the Director / Dy. Director in charge the name of one of the person from such panel and such a person shall then be appointed a sole arbitrator by the Chairman "Authority". However, the arbitrator so appointed shall not be an officer or the employee of the Inland Waterways Authority of India.
 - (iii) Provided that if the supplier fails to communicate the selection of a name out of the panel so forwarded to him the Director / Dy. Director in charge than after the expiry at the aforesaid stipulated period the Chairman "Authority" shall without delay select one person from the aforesaid panel and appoint him as the sole arbitrator.
- 19.2 In the event of the arbitrator to whom the dispute is originally referred being transferred or vacating his office or being unable to act for any reason, then the Chairman shall appoint another person to act as sole arbitrator, such person shall be entitled to proceed with the reference from the stage at which, it was left by the predecessor.
- 19.3 The award of the arbitrator shall be final and binding the arbitrator shall decide in what proportion the arbitrator's fees, as well as the cost of Arbitration proceeding shall be borne by either party.
- 19.4 The arbitrator with the consent of the parties can enlarge the time, from time to time to make and publish his award.
- 19.5 The arbitrator shall give reasons for the award
- 19.6 The work under this contract shall continue during arbitration proceedings and no valid payments due from or payment by the authority shall be withheld on account of such proceedings except to the extent, which may be in dispute.
- 19.7 The Arbitration and Conciliation Act 1996 together with any statutory modifications or re-enactment thereof and the rules made there under for being in force shall apply to the arbitration proceeding under this Clause.
- 19.8 Arbitration proceedings shall be held at New Delhi.

NOTE: In case of contract with another public sector undertaking the Clause 19.1 to 19.8 shall stand deleted and the following arbitration Clause shall apply:

“Except as otherwise provided in case of a contract with a Public Sector Undertaking if at any time any question dispute or difference whatsoever arises between the parties upon or in relation to, or in connection with this agreement, the same shall be settled by arbitration in term of the Ministry of Industry, department of Public/enterprises O.M. No. 3/5/93-PMA dated 30.06.93 or any modification / amendments thereof.”

The Arbitrator shall have the power to enlarge the term to rate the award with the consent of the parties provided always that the commencement or continuation of the arbitration proceeding shall not result in cessation or suspension of any of other rights and obligations of the parties of any payments due to them hereunder.

The venue of the arbitration proceedings shall be at NOIDA/New Delhi. If is further clarified that both the parties to this agreement hereby undertake not to have recourse to civil to solve any of their dispute whatsoever, arising out of this agreement except through arbitration.

20. LAWS GOVERNING THE CONTRACT

- a. This contract shall be governed by, the laws of India for the time being in force.
- b. Irrespective of the place of delivery ,the place of performance or place of payment under the contract, the contract shall be deemed to have been made at the place from which the acceptance of tender has been issued.
- c. Jurisdiction of Courts the courts of the place (New Delhi / NOIDA) from where the acceptance of tender has been issued shall alone have jurisdiction to decide any dispute arising out of or in respect of contract.

21. APPEAL

If the supplier desires to appeal against the decision of the Inspector against the rejection of any work as not being in accordance with the contract, he shall appeal to the Chairman within fourteen days after the Inspector’s decision and if an appeal is so preferred, the decision of the Chairman on behalf of Authority shall be final and conclusive.

22. CHAIRMAN’S CERTIFICATE TO BE FINAL

Wherever in this contract provision is made for any question, arrangement, amount matter or things being settled, decided, certified or determined by the Chairman or by the Inspecting Authority or officer or by the representative or resting upon or being governed or controlled by or submitted to the judgment or opinion of them/him or any or them/their/his assessment, decision, certificate, determination judgment or opinion shall unless otherwise stated therein be final and conclusive for all purposes and shall be binding on the Authority and the supplier notwithstanding anything contained in this contract.

23. AUTHORITY AND THEIR STAFF NOT TO BE PERSONALLY LIABLE:

Nothing in these presents shall be deemed to or shall impose any personal liability of the Authority or their staff.

24. STANDARD BREAK CLAUSE

- (i) The purchaser shall in addition to this power under other Clause to determine this contract have power to terminate his liability there under at any time by giving one month (or such shorter period as may be mutually agreed) notice in writing to the supplier of the purchaser's desire to do so and upon the expiration of the notice the contract shall be determined without prejudice to the rights of the parties accrued to the date of determination but subject to the operation of the following provisions of this Clause.
- (ii) In the event of this, notice being given the Purchaser shall be entitled to exercise as soon as may be reasonable practicable within that period the following powers or any of them: -
 - (a) To direct the Contract to complete in accordance with the contract all or any equipment, parts of such equipment or components in course of manufacture at the expiration of the notice and to deliver the same at such rate of delivery do may be mutually agreed or in detail of agreement at the contract rate. All articles delivered by the supplier in accordance with such directions and accepted shall be paid at a fair and reasonable price assessed in the basis of the contract price when it exists.
 - (b) To require the supplier on receipt of the notice of termination.
 - (1) Immediately to take such steps as will ensure that the production rate of the articles specified in the schedule and parts thereof is reduced as rapidly as possible.
 - (2) As far as possible consistent with (I) above to concentrate work on the completion of parts already in partly manufactured state: and
 - (3) To terminate on the best possible terms such orders for materials and parts bought out in a partly manufactured or wholly manufactured state as have not been completed, observing in this connection any directions given under this paragraphs (a) and (b) (I) and (II) above as far as this may be possible.In the event on such notice being given provided the supplier has reasonably performed all the provisions of the contract binding upon him down to the date of this notice.
 - (c) The purchaser shall take over from the supplier at a fair and reasonable price (assessed on the basis of the contract price of the completed articles), all unused, undamaged and acceptable materials, bought to components and articles in the course of manufacture in possession of the supplier at the expiration of the notice and properly provided by or supplied to the supplier for the performance of this contract except such materials, bought out components are supplied to the supplier through the intervention of the purchaser or on his behalf:-
 - (1) The said fair and reasonable price shall be assessed on the basis of the cost price of such materials and
 - (2) If the supplier elects to retain any materials bought-out components and articles as in this Clause provided, he shall settle all claims of supplier in respect of the materials supplied to him as aforesaid including any claims to any extra charge (if the original stipulated terms has been concessional) and shall keep the purchaser indemnified against the same:

- (d) The supplier shall deliver in accordance with the direction of the Purchaser all such unused, undamaged and acceptable materials, in course of the manufacture (except as aforesaid) taken over by or previously belonging to the Purchase and their Purchaser shall pay to the supplier fair and reasonable handling and delivery charges therefore,
- (e) The Purchaser shall indemnify the supplier against the commitments, liabilities or expenditure which in the opinion of the Purchaser are reasonable and properly chargeable by the supplier in connection with the contract to the extent to which the Purchaser is satisfied that such commitments, liabilities or expenditure would otherwise represent and unavoidable loss by the supplier by reason of the termination of the contract. Provided that in the event of the supplier not having observed any direction given to him under the sub Clause (2) hereof the Purchaser shall not be liable under the sub Clause to pay any sums in excess of those for which the Purchaser would have been able had the supplier observed that direction.
- (iv) If in any particular case exceptional hardship to the supplier should arise from the operation of this Clause it shall be open to the supplier to refer the circumstances to the Chairman acting on behalf of the Purchaser who on being satisfied that such hardship exists shall make such allowance if any as in his opinion is reasonable.
- (v) The Purchaser shall not in any case be liable to pay under the provisions of the Clause any such sum which when taken together with any sums paid or due to becoming due to the supplier under this contract shall exceed the total price of the article specified in the schedule payable under this Contract.
- (vi) The supplier shall in any substantial order or sub-contract planned or made by him in connection with or for the purpose of this contract take power wherever possible by securing the acceptance of the sub-supplier to terminate such order or sub-contract in the event of the termination of this contract by the Purchaser of this Clause and save only that: -
 - (a) The name of the contract shall be substituted for the purchaser throughout except in sub-Clause (c) where it occurs for the second and third times:
 - (b) The period of the notice of termination shall be one month or such shorter period as may be mutually agreed upon. Substantial order or sublet contracts of or over Rs. 1, 00, 000 (Rupees One lakh) in value.

5. SPECIAL CONDITIONS OF CONTRACT

[“Tender for Setting up of River Information Services (RIS) System in Sagar – Farakka Stretch of NW – I”]

INDEX

1. Performance of the work.
2. Specification.
3. Training.
4. Installation.
5. (a) Guarantee for the equipment supplied/fitted.
- 5 (b) Annual Maintenance Contract
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7. Supplier to supply, equip, test and deliver the Equipment
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 - (a) Spare parts
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 - (c) As to acceptance of delivery
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SPECIAL CONDITIONS OF THE CONTRACT

1. PERFORMANCE OF THE WORK

The work shall be performed at the place or places named in the tender or at such other place or places named in the tender or at such other place or places as may be approved by the Purchaser.

2. SPECIFICATION

In particular and without prejudice to the foregoing condition, when tenders are called for in accordance with the particulars, the supplier's tender to supply the Equipment in accordance with such particulars shall be deemed to be an admission his part that he has acquainted himself with the details thereof and no claim shall lie against the purchaser on the ground that the supplier did not examine or acquaint himself with such particulars.

3. TRAINING

- a) 4 (Four) days on site training on completely installed condition of River Information Services (RIS) at respective station is to be given.
- b) Training to be given to "Authority" employees / Surveyors through hardware / software specialist. The training is aimed for making "Authority" Surveyors / staff familiar and capable for operating the systems independently after the training and also for rectification of trouble shooting with the system if any during operation. Training would be given by Equipment/software experts who should be able to clarify all queries raised by "Authority" at the time of training itself.
- c) Supplier should be able to troubleshoot the problem within a week of reporting by "Authority" in the form of after sales support during warranty period.
- d) All expenditure towards software / hardware experts, transportation, accommodation/ lodging etc. for installation of equipment and training shall be deemed to be included in the rate offered. No additional payment in this regard shall be considered.
- e) The Nos. of trainees undertaking the training shall be at the discretion of IWAI.
- f) Successful bidder has to submit the training programme at least one week in advance for approval of "Authority" so as to ensure the availability of survey launches, Surveyor etc.

4. INSTALLATION

Supplier will install the River Information Services (RIS) within 90 days after delivery of the equipment or as directed. The Installation of River Information Services (RIS) is to be done onboard the IWAI Survey / Cargo vessels, Base Stations and Control stations or as directed by Director, IWAI or his representatives depending upon the actual site conditions.

5. (a) **GUARANTEE FOR THE EQUIPMENT SUPPLIED / FITTED**

5.1 Supplier will be required to obtain and furnish a guarantee for the equipment supplied to the effect that General spares suppliers will be in a position to supply the spare parts of the

equipment and the spares will continue to be available from the stock for a **period of at least Five years from the date of the receipt of the equipment.**

5.2 Supplier shall warrant to the Authority that the equipment and services supplied under the contract will comply strictly with the contract shall be first class in every particular case and shall be free from defects. The supplier further warrants to the Authority that all materials, equipment and supplies furnished by the supplier for the purpose of the equipment will be of the most suitable grade, and for their intended purposes. The supplier shall further warrant that the services to be carried out under this contract will conform with generally accepted professional standards.

5.3 This warranty shall remain valid for minimum twelve (12) calendar months from the final acceptance unless specified otherwise in the special conditions of contract. During the warranty period the supplier has to make all arrangement to rectify the defects including cost of spare parts this should be “free of cost at the ultimate destination”. No other forms of warranty like labour only, offsite diagnosis on telephone warranties are accepted.

5.4 The Authority shall promptly notify the supplier in writing of claim arising under this warranty.

5.5 On receipt of such notice, the supplier shall promptly repair or replace the defective equipment or parts thereof.

5.6 Without prejudice to clause 5.4 and 5.5 the supplier shall promptly correct, at no cost to the Authority any defect in any work of correction performed pursuant to clauses 5.4 and 5.5 above, upon receipt of written notice of defect within 15 days from acceptance of the corrected defect.

5.7 If the supplier, having been notified, fails to remedy the defect(s) in accordance with the contract the Authority may proceed to take such remedial action as may be necessary at the supplier’s expense. The supplier’s warranty pursuant to this clause is without prejudice to any other rights or remedies, which the Authority may have against the supplier under the contract.

5 (b). **COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT**

Rates and terms & condition for **Comprehensive Annual Maintenance Contract (CAMC)** for a period of 3 (three) years after expiry of warranty period of 12 months may be specified clearly along with the tender document. This rate shall be considered for evaluation of this tender.

6. VARIATIONS (i.e. MODIFICATION IN DESIGN AND DIMENSION)

Should any alternations in or additions to the works as specified in the said specifications not involving extra cost to the supplier be considered necessary or expedient by the supplier or by the Chairman, "Authority" or the inspecting Authority or officer and be mutually agreed on in writing the supplier shall execute the same without any charge beyond the Contract Price. But if the Chairman, "Authority" shall desire any alternation or additions involving extra cost to the supplier the supplier before executing the same shall tender to the Chairman, "Authority" a written offer stating the nature and cost of such alternations or additions and the extension of time if any required for making them and if the Chairman, "Authority" shall accept the said offer and allow such extension of time in writing the supplier shall be bound to execute shall be paid for by the supplier except such as may be embraced in such offer and acceptance. The supplier shall allow the "Authority" the value as shall be mutually agreed writing or any materials and value as shall be mutually agreed in writing or any materials and workmanship dispensed with by any such alterations or additions.

Provided that no such variations shall excepts with the instructions from the inspector as to carry out the work which either than or later will in the opinion of the supplier, involve a claim for additional payment, the supplier shall, as soon as reasonable possible after receipt of instructions aforesaid advise the Inspector to that effect.

7. SUPPLIER TO SUPPLY, INSTALL, TEST AND DELIVER THE EQUIPMENT

Subject to and in accordance with the provisions of the contract, the supplier shall and in the best and most workman like manner and with equipment, thing and workmanship respectively of the best kinds build, equip, test and install to the satisfaction of the Chairman, "Authority" deliver to the representatives of "Authority" and in the conditions provided by this contract, the equipment of the description dimensions containing all apparatus, permanent and temporary fittings mentioned and described in or to be informed from the modifications hereto attached and from the specifications furnished by the supplier and accepted by him (Chairman) for the purposes of this contract, both of which hereinafter called the said specifications hereto attached and hereinafter called the said specifications hereto attached and from the plan or plans which have for purposes of identification been signed on behalf of the Chairman and by the supplier and shall supply and deliver as hereinafter mentioned the spare parts as specified in all respects with this contract, the said specifications and the said plans, supplementary drawings, instructions and explanations as shall from time to time hereinafter be furnished and given by the supplier to and be approved by the Chairman," Authority".

The equipment supplier will bear the manufacture's serial numbers. The software manuals should be supplied in original. Subscription of technical journals of the software issued by the principal if any be made without any additional cost.

8. REPLACEMENT OF DEFECTIVE WORK, MATERIAL AND FITTINGS

All materials, machinery and workmanship used and employed in carrying out this contract shall be to the entire satisfaction of the Chairman or the inspecting authority or

officer. Any portion or portions of the equipment or any of the works done under this contract which may be considered by the Chairman or the inspecting authority or officers to be defective or unsatisfactory or not in accordance with the said specifications and plans and the requirements of the equipment and which he shall reject shall be replaced in a manner satisfactory sole expense of the supplier. If the inspector shall find any work to be not in accordance with the contract, he shall be entitled to give the supplier notice thereof and the Supplier shall forthwith make the defective work good or alter the same to make it comply with the requirements of the contract. Should he fail to do so within a reasonable time (as to which the inspector shall be the judge), the purchaser may reject and replace at the cost of the Supplier the whole or any portion of the work as the case may be, which is defective or fails to fulfill the requirement of the contract.

The Purchaser shall carry out such replacement within a reasonable time to the same specifications and under competitive conditions. The Supplier's full and extreme liability under this Clause shall be satisfied by the payment to the Purchaser, of the extra cost, if any, of such replacement delivered and / or constructed as provided for in the original contract, such extra cost being the ascertained difference between the price paid by the purchaser, under the provisions above mentioned for such replacement and the contract price for the work so replaced, and the repayment of any sum paid by the purchaser to the Supplier in respect of such defective work. Should the Purchaser not so replaced the rejected work within reasonable time, the Supplier's full and extra liability under this Clause shall be satisfied by the repaying of all moneys paid by the Purchaser to him in respect of such work.

9. INSTALLATION TRIALS

Forthwith after the installation of the equipment in manner expressed in the last proceeding Clause 4. Installation, the equipment shall undergo installation trials for 4 (Four) days, in the presence of the Chairman / representative and the Inspecting Authority of Officer or their representative at any place as mutually agreed upon in accordance with the provisions of the specifications and as directed by the Chairman or the Inspecting Authority or Officer.

10. DELIVERY

The completion of delivery will be within 30 days at IWAI, Kolkata Office from the date of issuance of work order:

Schedule	ITEMS	QTY (No)
A	Equipments onboard Vessels	15
B	Base Station	7
C	Control Station	2

The bidder while submitting contract to the authority will submit brief schedule of delivery, installation & training for respective IWAI field offices.

The equipment supplied will bear the manufacturer's serial numbers.

The hardware manuals should be supplied in original.

The authority will accept no transportation delay.

The supplier shall comply with all Department of Shipping Rules, if any and must also satisfy the requirements of the insurance broker, underwriters and surveyors and not do anything or leave anything undone whereby the cost of insurance premium is increased. Should the cost of insurance be in any way increased by the failure of the Supplier to meet such requirements any such increased cost shall be borne by the supplier.

The Break up details of delivery of River Information Services (RIS) at IWAI Kolkata office is:-

Sl. No	Delivery at IWAI Regional Offices	Quantity
1	The Director INLAND WATERWAYS AUTHORITY OF INDIA, (Ministry of Shipping, Govt. of India) P-76. Garden Reach Road, Kolkata – 700 043, West Bengal. Ph. : 033 – 24391710 / 24395570 / 24396055 / 24395577 Fax. : 033 – 24395570 / 24391710 E-mail : iwaical@wb.nic.in , iwaical@yahoo.com , dirkol.iwai@nic.in	1 RIS Systems

THE LOCATION OF INSTALLATION OF RIS SYSTEM:-

Sl.No	Locations	Quantity
1	On board IWAI Vessels	15 Nos
2	Farakka Ch. 552 Kms	Control Station -1 No & Base Station – 1 No
3	Shyampur Ch. 484 Kms (Balua Ferry)	Base Station – 1 No
4	Satui Ch. 409 Kms (Kumarpur)	Base Station – 1 No
5	Swaroopganj Ch. 297 Kms	Base Station – 1 No
6	Tribeni Ch. 211 Kms	Base Station – 1 No
7	GR Jetty Ch 151	Control Station -1 No & Base Station – 1 No
8	Haldia Ch. 52 Kms	Base Station – 1 No

The installation of RIS System indicated above may subject to change depending upon the availability of land or as directed by the Director, IWAI, Kolkata, no extra charges are admissible to the Supplier in this regard by Authority, only quoted rate for the particular site for installation is payable by Authority.

(a) **Spare parts**

The manufacturer recommended spare parts as required to be supplied under the contract shall be supplied at respective IWAI field offices at the expense of the supplier and deliver to the representative.

Should it be necessary for the supplier to send any of the spare parts by a separate means, the supplier shall be responsible for the proper packing, storage and protection whilst on the board and for their subsequent reception and landing at respective IWAI field offices and deliver to the representative.

Tenderer should also submit the specification & prices of spares / accessories of equipment may required to supply spares in future., e.g. Memory card, Antenna, Cable etc.

(b) **Equipment to be at Supplier's risk until the issue of certificate of delivery**

The said delivery of the Equipment at IWAI Kolkata office shall be at the expense and risk of the Supplier who shall (in accordance with Clause 12 of General Conditions) pay and such case the Supplier shall at his own expense forthwith make good such loss subject in the case of total or constructive total loss.

(c) **As to acceptance of delivery**

The Equipment shall be delivered to the representative of Chairman who shall the thereupon give to the Supplier or to such other persons who may be appointed by the Supplier to receive the certificates of such delivery and of the date thereof and the granting of such certificates shall along be evidence of the acceptance by the "Authority" of the delivery and of the date thereof.

(d) **DELIVERY SCHEDULE**

SL#	ITEMS	PERIOD
1	Award of work order	ZERO DATE
2	Submission of Performance Guarantee (5 % of Contract Value) in the form of DD/BG	WITHIN TEN DAYS FROM THE DATE OF ISSUANCE OF AWARD OF WORK ORDER
3	Signing of agreement	WITHIN TEN DAYS FROM THE DATE OF ISSUANCE OF AWARD OF WORK ORDER
4	Delivery of instruments	WITHIN THIRTY DAYS FROM THE DATE OF ISSUANCE OF AWARD OF WORK ORDER
5	Security Deposit	BALANCE SECURITY DEPOSIT (AFTER ADJUSTING THE EMD) SHALL BE PAID IN THE FORM OF DEMAND DRAFT BEFORE SIGNING OF AGREEMENT

SL#	ITEMS	PERIOD
6	Testing of equipment	WITHIN SIXTY DAYS FROM THE DATE OF DELIVERY OF EQUIPMENT
7	Installation / Commissioning & Training	WITHIN NINETY DAYS FROM THE DATE OF DELIVERY OF EQUIPMENT
8	Training period	4 (FOUR) DAYS
9	Final acceptance	FROM THE DATE OF COMMISSIONING
10	Warranty period	ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE
11	Places of Delivery at IWAI Regional Offices	KOLKATA

11. TRANSPORTATION AND PACKING

The supplier shall ensure all necessary precautions for safe transportation and delivery of equipment to Kolkata office and also to the Control Station / Base Station locations during installation period with out any extra cost. The Authority shall not be held responsible for transshipment losses. The supplier for transportation and packing of the equipment shall obtain all necessary clearances as per the prevailing rules. The packing shall be in such a way as to prevent damages or deterioration in transit to the final destination indicated in the bidding documents. The packing should be sufficient to withstand rough handling and atmospheric conditions.

12. LIQUIDATED DAMAGE FOR DELAY IN THE DELIVERY AND FORCE MAJEURE

- 12.1 If the supplier fails to deliver the equipment within the period fixed for delivery of for tests as per Clause - 10 above or at any time repudiates the contract before the expiry of such period the authority may without prejudice to its right, recover damages for breach of the contract damages equivalent to 0.5 % of the contract price of the delayed equipment per week of delay subject to maximum of 10 % of the contract price.
- 12.2 Where delivery is accepted after expiry of the aforesaid period and in case of repudiation of the contract the security of the supplier shall be liable to be forfeited and shall also be liable for any loss, which the authority may sustain on that account. PROVIDED ALWAYS that if the Chairman shall certify in writing that such delay or any portion thereof has arisen either in connection with the works of the supplier or their authorized sub supplier from a general strike or sectional disputes of workman or employees or combinations of workmen or employers or accidental fire or destruction of the supplier's works from storms or exceptionally bad weather, Act of God or other causes which in the opinion of the Chairman on behalf of Govt. were unavoidable and could not be foreseen or overcome by the supplier, then in such cases the liquidated damages shall not be payable in respect of the period certified to be due to such cause and the Chairman on behalf of Govt. shall have power to extend accordingly the time fixed for completion.

13. **INSURANCE**

The supplier shall of his own cost fully insure and keep insured in the joint names of the authority and the supplier the Equipment. Insurance cover should be required to cover all essential risk in connection with carrying out the contract. The insurance cover required is for the equipment during transportation, storage, delivery and during installation completely at supplier's cost.

6. WARRANTY FORM

M/s (hereinafter referred to as the Tenderer) having carefully studied all the tender documents pertaining to the Contract for “Procurement of DGPS receiving systems” and the local conditions having undertaken to execute the said works.

DO HEREBY WARRANT THAT:-

1. The Tenderer is familiar with all the requirements of the Contract.
2. The Tenderer has investigated the work site & also visited IWAI office and satisfied himself regarding the nature of work, and local conditions that may affect the work or its performance.
3. The Tenderer shall mobilize the necessary equipment, qualified & experienced manpower as per tender conditions.
4. The Tenderer is satisfied that the work may be performed and completed as required in the Contract.
5. The Tenderer accepts all risks directly or indirectly connected with the performance of the Contract.
6. The Tenderer has/had/have no collusion with other Tenderer, with any of the men of the Engineer-in-Charge or with any other person in Authority to execute. The said works according to the terms and conditions of the said Contract.
7. The Tenderer has not been influenced by any statement of promise of the Authority or E-I-C but only the Contract Documents.
8. The Tenderer is financially solvent.
9. The Tenderer is experienced and competent to perform the Contract to the satisfaction of the E-I-C.
10. The Tenderer is familiar with all General and Special Laws, Acts, Ordinances, Rules and Regulations of the Municipalities, District, State and Central Govt., that may affect the work, its performance or personnel employed therein.
11. I/We hereby give undertaking that the information, certificates and documents furnished by me/us with my/our offer and subsequently regarding works mentioned are true, correct, valid and complete to the best of my/us knowledge and nothing has been concealed/distorted any material as mentioned above I/We am/are agreeable for termination of Contract between me/us an Inland Waterways Authority of India regarding works mentioned in the tender without any notice, reason or compensation and non-issue of tender documents in future.

For and on behalf of the Tenderer

7. Technical Specifications

Schedule “A”

1. Equipments OnBoard Vessels

i). Automatic Identification System (AIS) Transponder Inland Class – A

- Operating Voltage: 12 to 24 VDC
- NMEA0183 Interface / RS232 Interface
- Operating Temperature: -1° C to +55° C
- VHF Antenna connector
- GPS Antenna connector
- Transmitter: Single
- AIS Transceiver in splash proof cabinet
- Interfacing cards / software for display in PC
- Onboard modem
- Frequency range 156 – 162 Mhz
- Colour TFT Display
- Manuals

ii). VHF Sets with Antenna & Walkie Talkie

- Channel Capacity minimum - 100
- Frequencies 136-174 MHz
- Rx @ Rated Audio 2 A max
- Tx @ Rated Audio 14.5 A max
- Power Supply 12 VDC to 24 VDC
- Channel Spacing :- 12.5 kHz/ 25 kHz
- Audio Response:- + 1, -3 dB
- Adjacent Channel Selectivity:- 60 dB @ 12.5 kHz 70 dB @ 25 kHz
- 1 set of Walkie & Talkie with charging units
- Manuals

iii). Echo sounder

- High resolution shallow water Echo sounder
- Screen display size minimum : - 4.0 in. diagonal (10.6 cm),
- QVGA / LCD / LED display with adjustable brightness minimum:- 320 × 240 pixels.
- Case:- Fully gasketed, high-impact waterproof to International standard.
- Operational temperature range:- From - 1°C to 50°C
- Dual Frequency
- Minimum Depth measurement shall be :- 0.3 mts.
- Accuracy in depth measurement shall be less than :- + / - 0.05 mts
- Power Source: 10–32 V DC
- Transducer Cable Length Minimum :- 20 mts
- Input / Output :- NMEA 0183 (RS 232) device connected to a Serial port.
- Bottom Tracking capabilities
- Documentation

iv). **DGPS Receiver**

- 16 Channel DGPS Receiver compatible with available IWAI DGPS Reference station (MX 9525 + MX 50M) from MX Marine, USA.
- LCD / LED Monitor screen
- Omni directional Antenna
- Geodetic antenna suitable for DGPS Receiver
- Suitable cabinet for housing DGPS Receiver
- Set of Inter connecting cables & Connectors etc
- Operation and Technical manual for items No 1 & 2
- Aerial cable minimum – 10 mts
- Power supply 12V DC / 24 V DC
- Manuals

v). **Short Range Radar**

- **Requirement:** Short Range Navigation Radar.
- **Measurement Range:** Short range resolution. Minimum distance 100 mts and maximum 24 nm.
- **Transmitter frequency:** X-band
- **Horizontal beam width:** Minimum $6^{\circ} \pm 20\%$ (-3dB width)
- **Vertical beam width:** Minimum $25^{\circ} \pm 20\%$ (-3dB width)
- **Noise level:** Less than 6 dB
- **Relative wind velocity:** Maximum 100 Knots (51 m/sec)
- **Short range targets:** Should be capable of clearly seeing targets like small boats, country boats, mooring poles, moored vessels, channel marks, small buoys, small low lying island etc.
- **Power Supply:** AC/DC Converter – 230 V AC 1Phase / 12 V DC or 24 V DC with reverse polarity protection.
- **Power consumption:** Operating: Less than 25 W, Standby: Less than 5 W
- **Display:** Display Unit : 8” or more
- **Images:** Crystal clear images
- **Scanner Cable:** Minimum 20 mts length.
- **Radiation:** Zero Radiation hazard.
- **Compliance:** Human Exposure general public safety limit.
- **Unit:** m, cm, ft.
- **Data communication:** Infrared / Bluetooth / USB Port / Serial Port RS 232 / NMEA 2000 / Ethernet 100.
- **Water Proof:** Unit should be water proof
- Horizontal polarized Antenna
- Sweep Repetition Frequency :- > 200Hz
- Sweep time :- 1 ms
- Manuals

vi). **Laptop Computer**

The Tough Book 14” High Definition LED Display
(shock, vibration, dust, altitude, high/low temperature, temperature shock, humidity)

- Operating software- Genuine Windows® 7 Professional 32-bit or 64-bit
- CPU - Intel® Core™ i5 Processor
- RAM - 8 GB RAM
- HARD DISK – 1 TB
- DISPLAY - 14.0" High Definition , LED, Optional touch screen
- Video controller- Intel® QM67
- AUDIO - Intel® high-definition audio compliant, Integrated stereo speakers
- DVD Super MULTI Drive RW
- Serial port 9-pin – 2 Nos
- USB 3.0 - 4-pin
- 10/100/1000 Ethernet RJ-45
- Wifi / Bluetooth
- POWER SUPPLY - Battery operation—10 hours (long life battery)
- AC Adapter: AC 100V-240V 50/60Hz,
- WARRANTY:- 3-year limited warranty
- Carrying Case
- UPS – 5 KVA

Schedule “B”

2. Base Stations

i). **Automatic Identification System (AIS) Base Station (Transponder) without Display (Repeater Station)**

- Compatible with IEC 62320 Standard
- Interfaces :- Communication ports RS-422/RS-232 incl. RTCM input
- Message formats NMEA, LAN 10/100 BaseT Ethernet
- Radio module :- VHF transmitter
- GPS module :- GPS receiver 12 channel
- Power :- 100 - 240 V AC (50-60 Hz)
- Power consumption :- Continuous 65 W
- Operating temperature :- -15 to +55° C
- USB Interfacing capability
- Capable of broadcasting GPS, AIS messages
- Manuals

ii). **Mono pole tower (approx. 30 mts height)**

- Capable of placing VHF Antenna
- Capable of placing AIS Antenna,
- With stand high wind velocity
- Antenna hoisting / lowering facilities for maintenance
- With proper foundation
- Capable of placing Metrological sensors

iii). **Porta Cabin – 20’ = 2 Nos.**

- IS Container having highest structural stability,
- Weather proof,
- Leak proof,
- Adequate Ventilation
- Door shall of 6’ x 2’ Marine waterproof ply both side laminated.
- Windows of approx. 3 ft x 2 ft wherever required shall be made from high quality Aluminum anodized powder coated extruded section of suitable size
- Main Bottom frame
- Foundation for placing container
- All Door and Windows & Air conditioner openings shall be provided with weather shed of suitable size
- Electrical wiring & light fittings shall be as per rules and regulations.
- 1.5 T Split Air Condition.
- All Switches and Sockets shall be of Anchor make and supplied as per requirements.

iv). **VHF sets with Antenna & Walkie Talkie**

- Channel Capacity minimum - 100
- Frequencies 136-174 MHz
- Rx @ Rated Audio 2 A max
- Tx @ Rated Audio 14.5 A max
- Power Supply 12 VDC to 24 VDC
- Channel Spacing :- 12.5 kHz/ 25 kHz
- Audio Response:- + 1, -3 dB
- Adjacent Channel Selectivity:- 60 dB @ 12.5 kHz 70 dB @ 25 kHz
- 1 set of Walkie & Talkie with charging units
- Manuals

v). **Leased Line - Wide Area Network (WAN)**

- Leased Line facilities of minimum 2 Mbps speed with stable Internet connection.

vi). **Metrological Equipment (Anemometer, Barometer, Relative Humidity)**

- Marine test standard Anemometer
- Marine test standard Barometer
- Relative Humidity measuring equipment
- Documentation

- vii). **Gen Set 10 KVA**
- Standard Gen Set of minimum capacity 10 KVA
 - Air Cooled Engine
 - Diesel power
 - UPS – 5 KVA

Schedule “C”

3. Control Station Servers (CROP / CMSP / WS / TS)

- i). **Central RIS Operating Processor (Application cum Data base Server)**
- Processor Intel Xeon – 4 core
 - RAM 64 GB
 - HDD 2TB
 - DVD RW (Re Writable)
 - Operating System :- Windows Server latest edition
- ii). **Central Monitoring and Storage Processor (Web Server / GIS Software)**
- Processor Intel Xeon – 4 core
 - RAM 64 GB
 - HDD 10TB
 - DVD RW (Re Writable)
 - Operating System :- Windows Server latest edition
- iii). **Web Server & Time Server (Application cum Data base Server)**
- Processor Intel Xeon – 4 core
 - RAM 64 GB
 - HDD 4TB
 - DVD RW (Re Writable)
 - Operating System :- Windows Server latest edition
- iv). **Workstation**
- Processor :- Intel® Core™ i7 Processor
 - Operating System :- Windows® 7 Home Basic SP1 64 bit (English)
 - Display :- 21.0" (min)
 - Memory :- 8 GB RAM (min)
 - Hard Drive :- 2.0 TB SATA Hard Drive (min)
 - Optical Drive :- DVD +/- RW
 - USB Ports 4 Ports minimum
 - Memory card reader:- Standard Memory Card Reader slots
 - Warranty :- 3 Year Complete Cover Accidental Damage

- v). Operator Display
 - 52” LED Display wide Screen
- vi). RIS Software
 - Customised Command and Control Software

Schedule “D”

4. Overall Maintenance, Operation & Security of RIS system per year

- Overall maintenance, Operation and security of RIS System from Sagar to Farakka stretch of National Waterways No-1 including service tax @ 12.6% (round the clock) from the date of commissioning is considered in the Scheme for one Year.

Schedule “E”

5. CAMC (Including Overall Maintenance, Operation & Security)

- CAMC for above items at all locations

Comprehensive Annual Maintenance Contract (CAMC) for the RIS System(AIS Transponder, VHF Tx / Rx, DGPS Receiver, Echo sounder, Radar & Laptop etc.) including manpower, operation, Security, spare parts, VAT, Service Tax, Service Charges etc. complete for a period of 3 (Three) years at site after completion of warranty period of 12 months.

8. TENDER FORM

__ . __ . 2012

To

Hydrographic Chief
Inland Waterways Authority of India
A-13, Sector 1
NOIDA 201 301
U P, India

I/We have read and examined the following documents relating to -----
----- as specified, of Inland Waterways Authority of India, Noida (IWAI):

- i. Tender notice
- ii. Instructions to the Tenderer
- iii. Details to Accompany Technical Bid
- iv. General Conditions of Contract
- v. Special Terms and Conditions of Contract
- vi. Warranty Form
- vii. Technical specifications
- viii. Tender Form
- ix. Cost schedule
- x. Agreement Form
- xi. Performance Guarantee Form

1. I/We hereby tender for the execution of the works referred to in the aforesaid document upon the terms and conditions contained or referred to therein and in accordance in all respects, with the specifications, designs, and other terms and conditions of the contract and within the period of completion as stipulated in the tender document.
2. I/We agree to keep the tender open for acceptance for one year counted from the last date specified for the submission thereof and not to make any modifications in its terms and conditions, which are not acceptable to "Authority". We also agree that any terms or condition in the tender at variance with the above stipulation will render the tender liable to rejection summarily.
3. ₹..... (Rupees) only as the case may be is attached herewith as Earnest Money.
4. If, after the tender is accepted, we fail to execute the contract deed within 10 days of the receipt of the order to do so, we agree that "Authority" shall without prejudice to any terms and conditions of the tender, forfeit the earnest money absolutely.
5. Bid shall remain valid for 180 days from the date of bid closing prescribed by the Authority as per the Clause-8 of "Instruction to the Tenderer"
6. I/We undertake to commence the work within 10 (ten) days of the date of issue of the work order of "Authority" and to complete and deliver whole of the work comprised in the contract and detailed plans, specifications and schedule of works within 90 days from the

date on which "Authority" issues written order to abide by and fulfill all the terms and conditions and provisions of the aforesaid documents or in default thereof to forfeit the security at the hands of "Authority" the liquidated damages in terms of the contract.

7. Until a formal contract is prepared and executed this bid, together with your written acceptance thereof in your notification of award shall constitute a part of the contract between us.
8. I/We understand that you are not bound to accept the lowest priced or any bid that you may receive.

Signature_____

In the capacity of

Duly authorized to sign the
Tender on behalf of (in block
Capitals). _____

Witness_____

Date_____

Address_____

Postal
Address_____

Telephone No._____

Telegraphic address _____

E-mail _____

9. COST SCHEDULE

(Setting up of RIS System in National Waterways No-1)

Note:- The tender shall enter a firm price against each item and fill up the table. Price should be in rupees (in words & figure)

Schedule 'A'

Equipments OnBoard Vessels

SI No.	Description	No. of Units	Unit Price (in ₹.)	Taxes (VAT/ S.Tax/C.St/ Road permit)	Amount (in ₹.)
1	AIS Transponder Inland Class – A	15			
2	VHF Sets with Antenna & Walkie Talkie	15			
3	Echo Sounder	15			
4	DGPS Receiver	15			
5	Short Range Radar	15			
6	Laptop (Tough Book)	15			

Total quoted cost for 15 nos of equipment = ₹

(₹ in words.....)

.....)

(Name & Signature of the
authorized person with date)

Note: Use separate sheet for using in Price Bid

Schedule 'B'

Base Stations

SI No.	Description	No. of Units	Unit Price (in ₹.)	Taxes (VAT/ S.Tax/C.St/ Road permit)	Amount (in ₹.)
1	AIS Base Station (Transponder) without Display (Repeater Station)	7			
2	Mono pole tower (approx. 30 mts height)	7			
3	Porta Cabin – 20' = 2 Nos.	7			
4	VHF sets with Antenna & Walkie Talkie	7			
5	Leased Line - Wide Area Network (WAN)	7			
6	Metrological Equipment (Anemometer, Barometer, Relative Humidity)	7			
7	Gen Set 10 KVA	7			

Total quoted cost for 7 nos of items = ₹

(₹ in words.....)

.....)

(Name & Signature of the authorized person with date)

Note: Use separate sheet for using in Price Bid

Schedule 'C'

Control Station Servers (CROP / CMSP / WS / TS) (Kolkata & Farakka)

SI No.	Description	No. of Units	Unit Price (in ₹.)	Taxes (VAT/ S.Tax/C.St/ Road permit)	Amount (in ₹.)
1	Central RIS Operating Processor (Application cum Data base Server)	2			
2	Central Monitoring and Storage Processor (Web Server / GIS Software)	2			
3	Web Server & Time Server (Application cum Data base Server)	2			
4	Workstation	2			
5	Operator Display 52" LED wide Screen	2			
6	RIS Software – (Customised Command and Control Software)	2			

Total quoted cost for 2 nos of items = ₹

(₹ in words.....)

.....)

(Name & Signature of the authorized person with date)

Note: Use separate sheet for using in Price Bid

Schedule 'D'

Overall Maintenance, Operation & Security of RIS system per year

Sl No.	Description	No. of Units	Unit Price (in ₹.)	Taxes (VAT/ S.Tax/C.St/ Road permit)	Amount (in ₹.)
1	Overall maintenance, Operation and security of RIS System from Sagar to Farakka stretch of National Waterways No-1.	1 year			

Total quoted cost for 1 (one) year = ₹

(₹ in words.....
.....)

(Name & Signature of the authorized person with date)

Note: Use separate sheet for using in Price Bid

Schedule 'E'

CAMC including Overall Maintenance, Operation & Security of RIS system for 3 (Three) year

SI No.	Description	No. of Units	Unit Price (in ₹.)	Taxes (VAT/ S.Tax/C.St/ Road permit)	Amount (in ₹.)
1	Comprehensive Annual Maintenance Contract (CAMC) for the RIS System(AIS Transponder, VHF Tx / Rx, DGPS Receiver, Echo sounder & Laptop etc.) including manpower, operation, Security, spare parts, VAT, Service Tax, Service Charges etc. complete for a period of 3 (Three) years at site after completion of warranty period of 12 months.				
	1 st Year =	1			
	2 nd Year =	1			
	3 rd Year =	1			

Total quoted cost for 1st Year = ₹

2nd Year = ₹

3rd Year = ₹

(₹ in words.....)

.....)

(Name & Signature of the authorized person with date)

Note: Use separate sheet for using in Price Bid

10. AGREEMENT FORM

The contract made the day of 2012. between M/s. Inland waterways Authority of India, A-13, Sector, 1, NOIDA-201301 [UP] (herein after "the Authority") of one part and M/S..... Of..... (herein after "the Tenderer") of the other part WHEREAS the Authority is desirous that as per work order as identified in the bid form and price schedule and has accepted a Bid by the Tenderer for the supply, installation, commencement and training of the..... -
..... for the sum of Rs.....(..... -
.....) (herein after "THE CONTACT PRICE")

(PRICE SHALL NOT BE FILLED IN HERE)

Now in this contract witnessed as follows: -

1. The contract shall consist of this contract form and the following documents and the exhibits, specification and other documents referred to therein (herein after called the "contract document") all of which by this reference are incorporated herein and made part thereof.

- a) Notification of award
- b) Bid form and price schedules
- c) Tender document containing:
 - Instructions to the supplier
 - General conditions of contract
 - Delivery schedule
 - Special Terms and Condition of Contract
 - Tender Form
- d) Technical Specifications.
- e) Correspondence between Tenderer & Authority from date of submission of tender to signing of agreement.

1. This contract sets forth the entire contract and agreement between the parties pertaining to the supply and delivery of the equipment described herein and supersedes all earlier verbal or written agreements pertaining to supply, install & training on survey equipment as per work order. This contract shall prevail over all other contract documents. In the event of any discrepancy or inconsistency within the contract documents then the documents shall prevail in the order listed above.

2. In consideration of the payments to be made by the Authority to the Tenderer, the Tenderer hereby covenants with the Authority to supply, install & training on survey equipment as per work order and to remedy defects / replacement therein in conformity in all respects within the provisions of the contract.

3. The Authority hereby covenants to pay the Tenderer in consideration of the provision and delivery of the equipment and the remedying of defects/ replacement therein the contract price of

such other sum as may become payable under the provisions of the contract, at the times and in the manner prescribed in the contract.

4. Any notice under this contract shall be in the form of letter, telex, fax or cable. Notices to either party shall be given at such address or addresses as such party shall specify from time to time by written notice to the other. In the absence of such notice to the contrary, notice to the Authority shall be properly addressed to: -

Hydrographic Chief
Inland Waterways Authority of India
A-13, Sector-1, NOIDA-201 301 (UP).
Tel (0120) 2543931, 2522969,
Fax (0120) 2522969, 2543973, 2544041, 2544005,
Email:- hc.iwai@nic.in, ahsnoida@gmail.com

(Tenderer address, phone number, fax number and Email)

A notice shall be effective when delivered or on the notice's effective date, whichever is later.

In WITNESS WHERE OF the parties hereto have caused this contract to be executed in accordance with their respective laws the day and year first above written.

Signature of Authority (seal)

Signature for Tenderer

Signed sealed and delivered by the said (for the Authority) in the presence of

Signed. Sealed and delivered by the said (for the Tenderer) in the presence of

11. PERFORMANCE GUARANTEE FORM

BANK GUARANTEE

In consideration of the Chairman, **INLAND WATERWAYS AUTHORITY OF INDIA**, Ministry of Shipping, Road Transport and Highways, A-13, Sector-1, NOIDA-201301, U.P. hereinafter referred to as the “Authority” having agreed to exempt, hereinafter called “the Contractors” from the demand, under the terms and conditions of an agreement No. entered between “Authority” and “the Contractors” for the work “Supply and Installation of nos.” hereinafter called the said “Agreement” of Security Deposit for the due fulfillment by the said contractor of the terms and conditions in the said agreement, on production of the Bank Guarantee of (Rupees only) for the due observance and performance of the terms and conditions of the said agreement, we _____ bank, a banking company within the meaning of Banking Regulation Act, 1949 and having its registered office at _____ at the request of the contractor hereby irrevocably and unconditionally guarantee to the Authority to pay an amount of (Rupees only) on demand against any loss or damage caused to or suffered or would be caused to or suffered by the Authority by reason of any breach by the said Contractor of any of the terms and conditions contained in the said Agreement.

1. We the bank do hereby undertake to pay (Rupees only) the amounts due and payable under this Guarantee without any protest or demur, merely on a demand from the Authority stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. 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 (Rupees only).
2. We, the bank hereby, in pursuance of the terms of the said Agreement absolutely, irrevocably and unconditionally guarantee as primary obliger and not merely as surety the payment of an amount of (Rupees only) to the Authority to secure due and faithful performance by the Contractor of all his/their obligations under the said Agreement.
3. We, the Bank undertake to pay to the Authority any money so demanded notwithstanding any dispute or disputes raised by the Contractors in any suit or proceedings pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payments.
4. We, the bank, do hereby agree that the decision of the Authority as to whether the Contractor has failed to or neglected to perform or discharge his duties and obligations as aforesaid and/or whether the service is free from deficiencies and defects and is in accordance with or not of the terms & conditions of the said Agreement and as to the amount payable to the Authority by the Bank hereunder shall be final and binding on the Bank.
5. WE, THE BANK, DO HEREBY DECLARE AND AGREE that:

- a) The Guarantee herein contained shall remain in full force and effect for a period of fourteen months from the date hereof and that it shall continue to be enforceable till all the dues of the Authority and by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till Authority satisfies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor and accordingly discharged this Guarantee.
- b) The Authority shall have the fullest liberty without our 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 of any obligations by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Authority against the said Contractor and to forbear or to enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any variation or extension being granted to the said Contractor or forbearance act or omission on the part of the Authority or any indulgence by the Authority to the said Contractor or to give such matter or thing whatsoever which under the law relating to sureties would but for this provision, have effect of so relieving us.
- c) Any claim which we have against the Contractor shall be subject and subordinate to the prior payment and performance in full of all the obligations of us hereunder and we will not without prior written consent of the Authority exercise any legal right or remedy of any kind in respect of any such payment or performance so long as the obligations of us hereunder remains owing and outstanding.
- d) This Guarantee shall be irrevocable and the obligations of us herein shall not be conditional of any prior notice by us or by the Contractor.
- e) This Guarantee will not be discharged due to the change in the constitution of the bank or the Contractor.
- f) We the Bank undertake not to revoke this Guarantee during its currency except with the previous consent of the Authority in writing.
6. This Guarantee shall be valid up to unless extended on demand by the Authority. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to (Rupees only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this Guarantee, all our liabilities under this Guarantee shall stand discharged.

Dated the ____ day of _____ 2012

Minutes of the Pre- Bid meeting held on 16.08.2012 in connection with Tender for "Setting up of River Information Services (RIS) System in Sagar- Farakka Stretch of NW-1

GENERAL

SL. NO.	POINTS RAISED BY THE BIDDER	CLARIFICATION GIVEN BY "IWAI"
1	EMD:- As per the tender document EMD is to be submitted in the form of DD. Whether Bank Guarantee (BG) can be submitted instead of DD?	BG is not acceptable, only DD is acceptable.
2	As the supply of equipment is in the state of West Bengal road permit /entry tax is to be paid. Also road permit / way bill is to be issued by IWAI?	IWAI will only fill the application for obtaining road permit. However payment of tax if any has to be remitted by the contractor and all necessary follow up action has to be done by the contractor. The same will be reimbursed on submission of proof of payment of Road Tax.
3	What is the maximum number of trainees undertaking the training?	Maximum 15 number trainees will be attending the training.
4	Whether all the Civil works including land levelling will be done by IWAI?	Land will be acquired by IWAI. Site preparation including levelling of land if required, will be done by IWAI. All the Civil works including provisions of boundary wall /fencing will also be done by IWAI.
5	As per the contract monopole has to be supplied and installed by the contractor for each station. Who will undertake the foundation work required for installation of monopole?	The required foundation work for installing the monopole will be carried out by the Contractor.
6	As per the Tender the equipment is to be supplied on F.O.R. basis. However, custom duty is to be paid on imported items. Whether IWAI will pay the custom duty or is there any custom duty exemption for IWAI, please clarify?	Custom duty has to be paid by the contractor, however the same will be reimbursed, as per actual, on submission of proof of payment of custom duty.
7	VHF, AIS and Radar works on frequency issued by WPC Wing of Ministry of Communication. Who will pay the license fee, royalty and recurring expenditure. Who will file the application for obtaining frequency allocation from WPC?	Necessary application for obtaining frequency allocation shall be filed by IWAI. However, the same needs to be followed up with WPC by the contractor. The license fee, royalty and recurring expenditure will be borne by IWAI on production of authenticated bills.

SL. NO.	POINTS RAISED BY THE BIDDER	CLARIFICATION GIVEN BY "IWAI"
8	As per the tender the second stage payment is due after installation. However, delay in procurement of land should not affect the payment. If the land procurement is delayed by more than one month from the date of delivery, then second stage payment shall be released after 90 days from the delivery of equipment?	Payment against installation can only be released after successful installation and commissioning of the equipment/ system. However, delay, if any including that of land acquisition on the part of IWAI will not be considered under L.D. clause.
9	Whether operation maintenance & security will commence right after commissioning & acceptance of the system by IWAI. Also indicate the no. of operator and security persons required for each station. Also indicate the required min. qualification of the operator?	O&M and Security Services shall be commenced immediately after commissioning of the system. For control station, 1 engineer, 3 operators and 3 security persons are required. For base stations 3 operator and 3 security persons are required. Deployment is for round the clock (24 x7 hrs.). The Engineer shall be a degree holder in electronic & communication engineering duly trained by OEM covering necessary subject of VTS & AIS equipment and associated software. Operator shall be diploma holder in electronic & communication engineering or Ex. Petty Officer/ Chief Petty Officer (Radar Plotter I) of Indian Navy and have undergone IALA VTS Operator Training V103/1& V 103/3) or diploma holder in electronic and communication engineering who will be subsequently trained by a qualified trainer / Engineer approved by the competent authority. The duration of training for engineers will be for a period of two weeks.
10	Who will provide accommodation for Operator & Security Personal?	The contractor has to supply 2 Air Conditioned Porta cabins, out of which one is to be used as control room and the other is to be used for accommodation purpose. The foundation for Porta Cabins are to be made by Contractor including its installation.
11	Whether joint venture or consortium is permitted?	Joint venture is permitted. However, proof of forming JV shall be submitted on a non judicial stamp paper of Rs. 100/- at the time of submission of bid. However, the successful bidder is required to submit proof of registration of JV before award of work. Experience of individual firm of the JV will also be considered for evaluation purpose
12	Whether taxes will also be added & considered for evaluation purpose?	Only base cost without statutory taxes will be considered for evaluation purpose.

SL. NO.	POINTS RAISED BY THE BIDDER	CLARIFICATION GIVEN BY "IWAI"
13	Cost of O&M is inclusive of recurring leased line charges?	The contractor has to quote O&M charges inclusive of all recurring leased line charges separately for the entire duration of O&M services.
14	As per the tender delivery of equipment shall be done within 30 days. However, 3 to 4 months time is required for obtaining frequency allocation from WPC and import license from DGFT. Hence the delivery period may be extended for a period of 5-6 months.	The delivery period shall be 4 months from the date of issue of work order or 3 months from the date of allocation of frequency, whichever is later. The installation, testing and commissioning shall be completed within 3 months period from the date of delivery of equipment.
15	Location details of base station and control station to be provided?	Approximate location details are given at Annex -1.

TECHNICAL

SL. NO.	POINTS RAISE BY THE BIDDER	CLARIFICATION GIVEN BY "IWAI"
1	Laptop- 1 TB Hardisk is required as per the tender, which is not available in the market. Whether 500 GB Hardisk is sufficient? What application software to be loaded on the Laptop?	500 GB Hardisk is acceptable. Application software of the RIS, as developed by the Vendor, shall be loaded along with licensed operating system . Original & Licensed Anti-virus software will also to be loaded.
2	Frequency range of AIS is indicated as 156- 162 Mhz. the same need to be corrected as 156.025 to 163 Mhz.	The AIS Frequency shall be 161.975 Mhz and 162.025 Mhz.
3	As per tender VHF set & Walkie Talkie to be supplied, whether both are required or not?	Only VHF Set with antenna is required. Walkie talkie is optional, if provided as an add on with the VHF set by the OEM.
4	VHF Frequency is indicated as 136 to 174 Mhz. Which is not correct?	Marine VHF Frequency Band between 156.00 to 163.50 Mhz shall be used.
5	Colour TFT display is suggested as per tender for AIS, which is not available. It should be black & white display?	Black & white, LED display is acceptable.
6	Operational temperature range for Echo Sounder is indicated as -1° C to 50° C, in the project area the temperature may not go below 0° C?	The temperature range shall be 0° C to 50° C.
7	What is the use of onboard modem?	It is required for availing GSM facility as alternative to VHF.

SL. NO.	POINTS RAISE BY THE BIDDER	CLARIFICATION GIVEN BY "IWAI"
8	Whether dual frequency Echo Sounder is required higher resolution survey grade Echo Sounder is required? Whether it is hull mounting or side mounting.	Single frequency navigational grade side mounting type Echo Sounder is acceptable.
9	Power backup requirement for 5 KVA UPS to be indicated. Is the 10 KVA generator should be a branded one?	2 hrs. Power backup is mandatory in addition to the 10 KVA generator. Besides, the 10 KVA generator shall be of branded make and compatible with 5 KVA UPS.
10	What is the type of display for Radar?	Separate display for Radar is required on board the vessel.
11	Whether ENC will be provided by IWAI?	Yes
12	Whether 52" LED display is required for the Control station?	52" LED Display shall be provided.
13	Whether multi functional display (MFD) is acceptable?	ENC compatible MFD – 19" size is acceptable. However, separate display is required for Radar.
14	Whether web based display is envisaged?	It is required. Suitable compatibility has to be demonstrated.
15	What is the standard of metrological equipment? Would the sensor stations be manned or be operated from remote control centre?	Marine standard branded metrological equipment is acceptable. The Anemometer shall be of ultrasonic sensor type. Sensor station is envisaged near base stations. Hence, security of sensor station/ installation is to be ensured by the contractor. The data will be collected at the base station and transmitted to the control station through leased lines.
16	Whether networking setup for the control station and base station is the entire responsibility of the contractor?	Yes, all routers & switches of CISCO make, rack and cables required for network setup are to be provided by the contractor and the cost should be considered while quoting.
17	Whether inter phase card is to be considered and supplied by the contractor?	Yes
18	What is the dimension of Porta cabin? What all furniture to be provided?	Porta Cabin dimension is 20' X 8' X 8'. Both the Porta cabins shall be fitted with 1.5 ton A.C. Customized office table with three chairs are essential for the control room. Porta cabin for accommodation shall be provided with customized accommodation berth for minimum three persons, wardrobe, one table, two chairs, kitchen with necessary utensils and induction hot plate cooker, toilet etc for 24x7 operator's stay.

SL. NO.	POINTS RAISE BY THE BIDDER	CLARIFICATION GIVEN BY "IWAI"
19	What would be the maximum wind velocity expected at this location for mast to withstand ?	It is about 180 Km/ hr.
20	Would there be normal AC power supply available at the sensor stations?	AC Supply shall be available. Conditioning of supply, by introduction of Stabiliser, will be contractor's responsibility.
21	Clarify the requirement of 2 web server at control centre?	One is the main server and the other one is the back up.
22	Can we decide the server configuration based on our design of the data base and applications?	Yes, it should be compatible for the effective working of the RIS system.
23	RIS Software (customised command & control software)- minimum standard has not been indicated in the tender document?	Enclosed at Annex - 2.

TENDER SUBMISSION

SL. NO.	POINTS RAISE BY THE BIDDER	CLARIFICATION GIVEN BY "IWAI"
1	Tender submission date may be extended till 30th of Sep, 2012?	The last date of submission of tender is extended up to 1500 hrs. on 1.10.2012 & the technical bids will be opened on the same day at 1530 hrs.
2	Addendum to tender document	Enclosed at Annex - 3.

Approximate Locations of RIS Control & Base Stations

Sl. No	Location	Lat	Long	Chainage	Aerial Distance in Kms	
0	Sagar (AIS Base station by DGLL)			0.0 Kms	46	59
1	Haldia	22° 02' 21.99"N	88° 06' 34.01"E	52.0 Kms		
2	GR Jetty	22° 32' 45.53"N	88° 18' 12.43"E	151.0 Kms	51	47
3	Tribeni	22° 59' 33.37"N	88° 24' 15.64"E	211.0 Kms		
4	Swaroopganj	23° 24' 46.51"N	88° 23' 09.69"E	297.0 Kms	59	51
5	Satui / Kumarpur	23° 55' 33.25"N 23° 57' 07.97"N	88° 13' 08.82"E 88° 12' 03.89"E	409.0 Kms	(63)	
6	Shyampur / Balial Ferry	24° 23' 05.92"N 24° 21' 32.93"N	88° 08' 26.46"E 88° 09' 56.00"E	484.0 Kms	53	(45.5)
7	Farakka	24° 48' 50.44"N	87° 54' 25.22"E	552.0 Kms		

Note:- Location may vary depending upon availability of land within a radial distance of about 5 Kms.

General Features for RIS Software/ Application

1. Provide the situational awareness and Traffic overview of the Haldia – Farakka river channel to the Traffic Operators in the Control center
2. Facilitate planning of the river Channel activities on a ‘Time-line’ view of the Traffic Display.
 - The GUI (Graphical User Interface) should be capable of displaying the arrival and departure information of vessels entering and exiting the Channel with date and time indicators.
 - List all important activities being undertaken in the Channel
 - Should Display various important activities being undertaken in the Channel, which includes activities of the ‘previous Operator Watch’, ‘current Watch’ and the activities being planned for the ‘next Watch’.
3. Facilitate the Operator to ‘Define’ the conditions for generating Alerts / Warnings by the system and automatic generation of Alerts / Warnings in the event of any abnormality
4. Facilitate escalation of the alerts / warnings to all important stakeholders using SMS / email.
5. Undertake Incident management during emergencies
6. Receive AIS messages from Base stations and store important AIS messages. Data storage facilities should be able to store data for a period of one year.
7. Send out AIS messages to Vessels in the Sagar (Sandhead) – Farakka river channel
8. Disseminate met data on case to case basis to vessels in contact.
9. Facilitate communications between the Traffic operator and captains of the vessels using VHF.
10. Provide the situational awareness and Traffic overview of the Haldia – Farakka river channel to important stakeholders over the web using web access. Web Access shall be planned for minimum 50 stakeholders which shall be scalable at later date.
11. BITE facility to provide system status to the Operators to detect any abnormality in the functioning of the sensors integrated with the system.
12. Support integration with other Command and Control systems of security agencies of Police, Navy / Coastguard etc. for building up a collaborative contingency plan in case of emergencies.

13. Should facilitate Storing of important information being received from the sensors such as:-

- Storing of display scenarios
- AIS messages
- VHF data
- Warning / Alerts

Minimum one year data shall be stored.

14. Facilitate automatic detection of the abnormal behaviors of Vessels such as over speeding, vessel entering or leaving demarcated non-entry area, Anchor watch etc.

15. Should be able to Zoom, and navigate to any geographical area in the Channel.

16. Should have the facility for inserting temporary charts (such as plotting point, lines, circle etc.) on the map.

17. Should be able to search any vessel on the geographical location at the given instant.

18. Should have tools to calculate “Closest Point of Approach, TCPA, Range & Bearing Line, ETA, Distance between 2 Vessels or points” etc. in the Channel.

19. Facilitate geo fencing.

20. Capability to provide Virtual Buoys / Aids to Navigation inputs.

Addendum to the Tender for Setting up of RIS System

Clause	Modification/ Additions/ Deletion	Description
<p><u>(Instructions to the Tender)</u> 8.</p>	<p>To be added as a note after 1st para</p>	<p><u>Note:</u> Tenderer shall be OEM or their authorized agents or Joint Venture (JV) or an Indian lead firm supported by another firm (s) (Indian or Foreign). However proof of forming JV on a non-judicial stamp paper of Rs100/- / Authorization letters of supporting firm (s) should be submitted at the time of submission of bid. However, the successful bidder is required to submit proof of registration of JV before award of work. Experience of individual firm of the JV will also be considered for evaluation.</p> <p>Joint venture is allowed with not more than three partners. If a Bidder constitutes (under applicable laws) a joint venture they shall submit and comply with the following requirements;</p> <p>a). There shall be a Joint Venture Agreement specific for the contract between the constituent firms, indicating clearly, amongst other things, the proposed distribution of responsibilities both financial as well as technical for execution of the work amongst them. For the purpose of this clause, the most experienced lead partner will be the one defined. A copy of the Joint Venture agreement in accordance with requirements mentioned in submitted along with the bid.</p> <p>b). The bid, and in the case of the successful bidder, the Form of Agreement, etc., shall be signed and/ or executed in such a manner as may be required for making it legally binding on all partners (including operative parts of the ensuing Contract in respect of Agreement of Arbitration, etc.). On award of work, the Form of Agreement and Contract Documents shall be signed by all partners of the Joint Venture to conclude Contract Agreement.</p> <p>c). Lead partner shall be nominated as being partner-in- charge; and this authorization shall be evidenced by submitting a power of attorney, duly notarized, signed by the legally authorized signatories of all the partners.</p>

Clause	Modification/ Additions/ Deletion	Description
		<p>d). The partner-in-charge shall be authorized to incur liabilities and to receive instructions for and on behalf of the partners of the Joint Venture, whether jointly or severally, and entire execution of the Contract (including payment) shall be carried out exclusively through the partner-in-charge. A copy of the said authorization shall be furnished in this Bid.</p> <p>e). All partners of the Joint Venture shall be liable jointly and severally for the execution of the Contract in accordance with the Contract terms, and a relevant statement to this effect shall be included in the authorization mentioned under sub clause (c) above as well as in the Form of Bid and the Form of Agreement (in case of a successful bidder).</p> <p>f). In the event of default by any partner, in the execution of his part of the Contract, the Employer shall be so notified within 30 days by the partner-in-charge, or in the case of the partner-in-charge being the defaulter, by the partner nominated as partner-in-charge of the remaining Joint Venture. The partner-in-charge shall, within 60 days of the said notice, assign the work of the defaulting partner to any other equally competent party acceptable to the Employer to ensure the execution of that part of the Contract, as envisaged at the time of bid. Failure to comply with the above provisions will make the Contractor liable for action by the Employer under the Conditions of Contract. If the Most Experienced i.e. Lead Partner defined as such in the Communication approving the qualification defaults, it shall be construed as default of the Contractor and Employer will take action under the Conditions of Contract.</p> <p>g). Notwithstanding the permission to assigning the responsibilities of the defaulting partner to any other equally competent party acceptable to the Employer as mentioned in sub clause (f) above, all the partners of the Joint Venture will retain the full and undivided responsibility for the performance of their obligations under the Contract and/ or for satisfactory completion of the Works.</p> <p>h). The bid submitted shall include all the relevant information as required and furnished separately for each partner.</p>

Clause	Modification/ Additions/ Deletion	Description
10. (vi)	To be added	Besides he has to submit write up on detailed methodology of system integration and commissioning of the entire RIS system. Besides, list of people proposed for O&M/ CAMC of the system for both control stations and repeater stations to be given.
10. (ix)	To be replaced	Background of the organization with respect to similar experience and brief description of projects recently undertaken in the relevant field. The similar work means, Works successfully completed on Supply, Installation, Overall Maintenance, Security & CAMC for RIS system OR Vessel Traffic Management System (VTMS)/ VHF Transmitter OR Automatic Identification System (AIS) OR Automatic Vehicle Tracking system OR Integration along with setting up of communication network (WAN) OR installations of Marine Survey equipment such as Echo sounder, DGPS, Radar, Communication equipments etc., in that order.
12.	2 nd para to be replaced (Technical Bids evaluation)	with Annex – 4 (Evaluation Criteria)
<u>4. General Condition of Contract</u> <u>14.(a) Payment</u>	a) Payment for Material (Schedule A,B & C) (i) & (ii) to be replaced. To be added (iii) & (iv)	The payment to the Contractor shall be made as per details given below: (i) 50% payment of the supply value (Schedule A, B &C) of the equipments to be delivered to the employer shall be made after receipt of items in good condition and correct quantity at Kolkata site. (ii) 15% payment of the supply value (Schedule A, B &C) shall be made after installation at site. In case of part work, payment shall be made on pro-rata basis. (iii) 25% payment of the supply value (Schedule A, B &C) shall be made after acceptance of entire system. (iv) Balance 10% payment of the supply value (Schedule A,B &C) after warranty period or submission of BG for equivalent amount valid till warranty period.
25	To be added Suspension of Work	<u>25. Suspension of Work</u> 25.1 The Employer may at any time instruct the Contractor to suspend progress of part or all of the Works. During such suspension, the Contractor shall protect, store and secure such part or the Works against any deterioration, loss or damage. 25.2 The Employer may also notify the cause for the suspension. In such a case clause related to L.D shall not apply.

Clause	Modification/ Additions/ Deletion	Description
		<p><u>25.3 Consequences of Suspension</u></p> <p>If the Contractor suffers delay and/or incurs Cost from complying with the Employer’s instructions under Sub-Clause “Suspension of Work” and/or from resuming the work, the Contractor shall give notice to the Employer subject to:</p> <p>(a) An extension of time for any such delay, if completion is or will be delayed, and</p> <p>(b) Payment of any such Cost, which shall be added to the Contract Price.</p> <p>The Contractor shall not be entitled to an extension of time for, or to payment of the Cost incurred in, making good the consequences of the Contractor’s faulty design, workmanship or materials, or of the Contractor’s failure to protect or secure store in accordance with Sub-Clause “Suspension of Work”.</p> <p><u>25.4 Payment for Plant and Materials in the event of Suspension</u></p> <p>The Contractor shall be entitled to payment of the value (as at the date of suspension) of Plant and/or Materials that have not been delivered to Site, if</p> <p>(a) The work on Plant or delivery of Plant and/or Materials has been suspended for more than 28 days, and</p> <p>(b) The Contractor has marked the Plant and/or Materials as the Employer’s property in accordance with the Employer’s instructions.</p> <p><u>25.5 Prolonged Suspension</u></p> <p>If the suspension under Sub-Clause “Suspension of Work” has continued for more than 90 days, the Contractor may request the Employer’s permission to proceed with the work. The contractor may commence the work after getting permission from the Employer. If the suspension affects the whole of the Works, the Contractor may give notice of termination.</p>

Clause	Modification/ Additions/ Deletion	Description
		<p><u>25.6 Resumption of Work</u></p> <p>After the permission or instruction to proceed is given, the Parties shall jointly examine the Works and the Plant and Materials affected by the suspension. The Contractor shall make good any deterioration or defect in or loss of the Works or Plant or Materials, which has occurred during the suspension.</p>
26	To be added Termination	<p><u>26. Termination by Employer</u></p> <p>26.1 The Employer shall terminate the Contract if the Contractor:</p> <ul style="list-style-type: none"> (a) Fails to comply with Sub-Clause “Performance Gurantee” or with a written instruction/ notice from the Engineer-in-charge (b) Abandons the Work or otherwise plainly demonstrates the intention not to continue performance of his obligation under the Contract, (c) Without reasonable excuse fails to proceed with the Commencement of work, (d) Subcontracts the whole of the Works or assigns the Contract without the required agreement, (e) Becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events, or (f) Gives or offers to give (directly or indirectly) to any person any bribe, gift, gratuity, commission or other thing of value, as an inducement or reward: <ul style="list-style-type: none"> (i) For doing or forbearing to do any action in relation to the Contract, or (ii) For showing or forbearing to show favour or disfavour to any person in relation to the Contract, or (iii) If any of the Contractor’s Personnel, agents or Subcontractors gives or offers to give (directly or indirectly) to any person any such inducement or reward as is described in this sub-paragraph. However, lawful inducements and rewards to Contractor’s Personnel shall not entitle termination.

Clause	Modification/ Additions/ Deletion	Description
		<p>In any of these events or circumstances, the Employer may, upon giving 15 days' notice to the Contractor, terminate the Contract and expel the Contractor from the Site. However, in the case of sub-paragraph (e) or (f), the Employer may by notice terminate the Contract immediately.</p> <p>The Employer's election to terminate the Contract shall not prejudice any other rights of the Employer, under the Contract or otherwise. The Contractor shall then leave the Site and deliver any required Goods, all Contractors' Documents, and other design documents made by or for him, to the Employer. However, the Contractor shall use his best efforts to comply immediately with any reasonable instructions included in the notice (i) for the assignment of any sub-contract, and (ii) for the protection of life or property or for the safety of the Works.</p> <p>After termination, the Employer may complete the Works and/or arrange for any other entities to do so. The Employer and these entities may then use any Goods, Contractor's Documents and other design documents made by or on behalf of the Contractor.</p> <p>The Employer shall then give notice that the Contractor's Equipment and Temporary Works will be released to the Contractor at or near the Site. The Contractor shall promptly arrange their removal, at the risk and cost of the Contractor. However, if by this time the Contractor has failed to make a payment due to the Employer, the Employer may sell these items in order to recover this payment. Any balance of the proceeds shall then be paid to the Contractor.</p> <p><u>26.2 Valuation at Date of Termination</u></p> <p>As soon as practicable after a notice of termination under Sub-Clause "Termination by Employer" has taken effect, the Employer shall proceed to determine the value of the Works, Goods and Contractor's Documents, and any other sums due to the Contractor for work executed in accordance with the Contract.</p>

Clause	Modification/ Additions/ Deletion	Description
		<p><u>26.3 Payment after Termination</u></p> <p>After a notice of termination under Sub-Clause “Termination by Employer” has taken effect, the Employer may:</p> <p>(a) Proceed in for Employer’s claims.</p> <p>(b) With-hold further payments to the Contractor until the costs of design, execution, completion and remedying of any defects, damages for delay in completion (if any), and all other costs incurred by the Employer, have been established, and/or</p> <p>(c) Recover from the Contractor any losses and damages incurred by the Employer and any extra costs of completing the Works, after allowing for any sum due to the Contractor under Sub-Clause “Valuation at Date of Termination”. After recovering any such losses, damages and extra costs, the Employer shall pay any balance to the Contractor.</p> <p><u>26.4 Employer’s Entitlement to Termination</u></p> <p>The Employer shall be entitled to terminate the Contract, at any time for the Employer’s convenience, by giving notice of such termination to the Contractor. The termination shall take effect 30 days after the later of the dates on which the Contractor receives this notice or the Employer returns the Performance Security. The Employer shall not terminate the Contract under this Sub-Clause in order to execute the Works himself or to arrange for the Works to be executed by another contractor.</p> <p>After this termination, the Contractor shall proceed for removal of Contractor’s Equipment and shall be paid in accordance with the sub-clause “payment after termination”.</p>
<u>(Special Conditions)</u> 4. Installation	To be added before para	The land for installing the RIS system will be acquired and provided by IWAI.
10. Delivery	Equipments onboard Vessels – 15 Nos is to be replaced	Equipments onboard Vessels – 30 Nos
10. (d) (4)	‘Thirty days ‘- to be replaced	The delivery period shall be 4 months from the date of issue of work order or 3 months from the date of allocation of frequency, whichever is later. The installation, testing and commissioning shall be completed within 3 months period from the date of delivery of equipment.

Clause	Modification/ Additions/ Deletion	Description
10. (d) (7)	To be replaced	Integration/ Installation/ Commissioning of the system & Training.
12.1	To be replaced	If the supplier fails to deliver the equipment, or fails to carry out install and commissioning of the system mentioned in Clause-10 above or at any time repudiates the contract before the expiry of such period, the authority may without prejudice to its right, recover damages for breach of the contract damages equivalent to 0.5 % of the contract price of the delayed equipment per week of delay subject to maximum of 10% of the contract price. However, if any delay has occurred due to delay on account of land acquisition or completion of civil works, the same will not be considered under L.D on the part of the contractor.
12.2	1 st sentence to be modified	Where delivery is accepted after expiry of the aforesaid period or extended period, if any and in case of repudiation of the contract, the security deposit of the contractor shall be liable to be forfeited and shall also be liable for any loss, which the authority may sustain on that account.
13.	Last sentence to be modified	The insurance cover required is for the equipment during transportation, storage, delivery and during installation, integration till commissioning completely at the contractor's cost. Besides, the contractor shall insure all his men against accident, injury, loss of life, loss of damage to the property etc. during the installation period and O&M/ CAMC period.
14.	New Clause to be added	<u>Labour Law & Workmen Compensation Act:</u> All the employees to be deployed should be governed by the prevailing Labour Law, Workmen Compensation Act and all other prevailing Act/ rules implemented from time to time for the State of West Bengal at the risk and cost of the Contractor
15	New Clause to be added	<u>Statutory dues:</u> The contractor has to remit all statutory dues/ contribution like EPF, ESI, Group Insurance, etc for their employees deputed for the work.
<u>7. Technical Specifications</u> Schedule "A" 1. vii)	To be added	vii). MFD Multi Function Display – 19" a) Display Type – Color TFT Multi touch LCD b) 19" wide c) Chart Plotter / Radar / Interfacing / Power 12 – 24 VDC etc.
Schedule "B" (ii)	'Mono Pole Tower'	Detailed Manufacturing specification for Monopoles is enclosed at Annex - 5.
Schedule "B" (iii)	'Heading' - to be corrected as	Porta Cabin 20' X 8' X 8'- 2 nos.
Schedule "D"	'12.6%' - to be replaced	12.36%
9. COST SCHEDULE	Schedule A, B, C, D & E – to be replaced	Revised Cost Schedule A, B, C, D & E at Annex - 6

Evaluation Criteria of Bid

[2nd para of clause 12 (Instruction to the Tenderer)]

The Bids shall be evaluated technically and commercially by a Committee. It is mandatory on the part of the bidder to score a minimum of 80 marks for the Technical eligibility.

The commercial bids of only those Technically Qualified bidders shall be opened. Once technically qualified, the bidders will be informed about opening of the commercial bids.

The bidder who has quoted the lowest rates shall be declared successful bidder.

The Technical Evaluation shall be carried out in the following areas to ascertain the quality of bid and for Technical eligibility :-

SI No.	Area of Evaluation	Max Marks
1	Compliance of General & Special Conditions incorporated in Tender Document	3
2	Financial Capacity of the bidder	15
3	Details of project in hand and their status	10
4	Details of Project Implementation Schedule pertaining to the Project	5
5	Accreditation of any or all the partners by a quality assurance agency	2
6	Compliance of Technical Specifications	45
7	Customer Support	5
8	Training	5
9	Supply of spares	3
10	CAMC Support	5
11	Any other features which enhances the Value of the system	2
	Total =	100

DETAILED MANUFACTURING SPECIFICATION FOR MONOPOLES

1.01 Introduction.

This specification shall cover the design, fabrication and supply of monopoles for mounting of antennas for communication. Poles shall be suitable for the type and quantity of antennas as specified by the service provider. Pole shall also be suitable for wind velocity prevailing at the site as per relevant Code.

1.02 Pole design

The pole shall be continuously tapered, polygonal cross section, presenting a good and pleasing appearance and based on proven design conforming to international standards, to give an assured performance, and reliable service. Height of the pole shall be as specified by the service provider.

Design life of the pole shall be minimum 50 years. All parameters for wind pressure calculations shall be taken based on this design life.

Design of the pole shall be confirming to relevant Code.

While designing the pole, full projected area of the climbing ladder, platform, antennas and all other equipments mounted on top of the pole shall be considered. Effect of wind on the horizontal base of the platform shall also be accounted in the design.

Steel Plates used for the design of the pole shall be conforming to the following standards.

Standard Grade with suitable yield strength.

Silicon Content of the steel shall be limited to have a good, aesthetic and lasting galvanising of the pole.

1.03 Construction :

The pole structure shall be fabricated from special steel plates, conforming to the above standards, cut and folded to form a polygonal section and welded. No circumferential welded joints shall be provided in individual sections.

Poles shall be manufactured in multiple sections of suitable length.

The welding shall be in accordance with relevant code. Pole section welding shall be done using a pole closing and seam welding machine. This machine shall have suitable jigs to hold pole sections inside it. Pole sections shall not be welded outside a pole closing machine.

The procedural weld geometry and the workmanship shall be exhaustively tested on the completed welds.

The pole shall be provided with base plate, which shall be free from any lamination or incursion. Base plate welding shall be done thorough an automatic base plate welding machine.

For the environmental protection of the pole, the entire fabricated pole shall be hot dip galvanised internally and externally by single dip method as per relevant Code. Before galvanising, the fabricated sections shall be cleaned well to remove all impurities on the pole surface. Inside and outside of the pole shall have uniform coating as specified in the standards as mentioned above.

Entire fabrication of the pole sections shall be completed before hot dip galvanising. Bottom sections shall be complete with its base plates duly welded before dipping in the galvanising bath. No cutting, welding or grinding shall be allowed on the pole sections (including the bottom section) after hot dip galvanising.

At site the sections shall be joined together by slip-stressed-fit method. No cutting or welding shall be done on the pole at site. The minimum over lap distance shall be 1.5 times the diameter at penetration.

An adequate door opening shall be provided at the base of the pole and the opening shall be such that it permits clear access to the inside of the pole. The door opening shall be complete with a close fitting, vandal resistant, weatherproof door, provided with a heavy-duty double internal lock and special paddle key. The door opening shall be carefully designed and reinforced with welded steel section, so that the pole section at the base shall be unaffected and undue buckling of the cut portion shall be prevented.

An Inspection door opening shall be provided on the central shaft of the pole at the platform level also.

1.04 Platform for mounting antennas.

Communication poles shall have a fixed platform at the top of the pole. The platform shall be in the required shape and shall be suitable for antennas as required by the service provider. It shall have an access opening from the climbing ladder for the maintenance man.

1.05 Climbing Arrangement.

A properly designed climbing ladder shall be provided on the pole for access to the operation and maintenance crew. It shall have suitable safety system for the protection of the crew.

The safety arrangement shall have a stainless steel wire rope, fall arrestor mechanism and safety belt for the maintenance crew. This wire rope shall be fixed at the top and bottom of the ladder.

The ladder should start at a height of 2.5 M from the bottom only to restrict unauthorised entry to the pole.

Ladder and all its components shall be hot dip galvanised for protection.

Mono pole shall have a provision for adding new sensors, antenna and equipments such as Metrological equipments etc. at a later date.

9. COST SCHEDULE (Revised after Pre Bid meeting)
(Setting up of RIS System in National Waterways No-1)

Note:- The tender shall enter a firm price against each item with all its accessories as per manual, all interfacing cards for connecting equipments & system Software and inclusive of Transportation to site, packing, manpower, erection, installation, trails, commissioning, training etc. complete in all respect in Unit Price and fill up the Taxes & Amount in the table (Schedule A, B & C). The supplied items shall be in accordance with the “7. Technical Specifications” in the Tender document. Price should be quoted in Indian Rupees (in words & figure) only.

Schedule ‘A’ (Revised)

Equipments OnBoard Vessels

SI No.	Description	No. of Units	Unit Price (in ₹.)	Taxes (VAT/ S.Tax/C.St/ Road permit)	Amount (in ₹.)
1	AIS Transponder Inland Class – A	30			
2	VHF Sets with Antenna & Walkie Talkie (optional)	30			
3	Echo Sounder	30			
4	DGPS Receiver	30			
5	Short Range Radar	30			
6	Laptop (Tough Book)- 14”	30			
7	MFD Multi Function Display 19” size	30			

Total quoted cost for 30 Nos. of equipment = ₹

(₹ in words.....)

.....)

(Name & Signature of the
authorized person with date)

Note: Use separate sheet for using in Price Bid

Schedule 'B' (Revised)
Base Stations

SI No.	Description	No. of Units	Unit Price (in ₹.)	Taxes (VAT/ S.Tax/C.St/ Road permit)	Amount (in ₹.)
1	AIS Base Station (Transponder) without Display (Repeater Station) including all switches & routers of CISCO make rack, cables etc. required for network setup, complete in all respect	7			
2	Mono pole tower (approx. 30 mts height)	7			
3	2 Nos. of Porta Cabin 20' X 8' X 8' fitted with 1.5 ton branded A.C with Customized office table with 3 chairs. Porta cabin for accommodation shall be provided with customized accommodation berth for minimum three persons, wardrobe, one table, two chairs, kitchen with necessary utensils and induction hot plate cooker , toilet etc so that round the clock operators can stay .	7			
4	VHF sets with Antenna & Walkie Talkie (optional)	7			
5	Leased Line - Wide Area Network (WAN)	7			
6	Metrological Equipment (Anemometer, Barometer, Relative Humidity)	7			
7	Gen Set 10 KVA (branded)	7			
8	UPS 5 KVA (branded) with 2 hours power back up	7			

Total quoted cost for 7 nos of items = ₹

(₹ in words.....
.....)

(Name & Signature of the authorized person with date)

Note: Use separate sheet for using in Price Bid

Schedule 'C' (Revised)

Control Station Servers (CROP / CMSP / WS / TS) (Kolkata & Farakka)

SI No.	Description	No. of Units	Unit Price (in ₹.)	Taxes (VAT/ S.Tax/C.St/ Road permit)	Amount (in ₹.)
1	Central RIS Operating Processor (Application cum Data base Server) including all switches & routers of CISCO make rack, cables etc. required for network setup, complete in all respect	2			
2	Central Monitoring and Storage Processor (Web Server / GIS Software) including all switches & routers of CISCO make rack, cables etc. required for network setup, complete in all respect	2			
3	Web Server & Time Server (Application cum Data base Server)	2			
4	Workstation	2			
5	Operator Display 52" LED wide Screen	2			
6	RIS Software – (Customised Command and Control Software)	2			

Total quoted cost for 2 nos of items = ₹

(₹ in words.....)

.....)

(Name & Signature of the authorized person with date)

Note: Use separate sheet for using in Price Bid

Schedule 'D' (Revised)

Overall Operation & Security of RIS system during 12 months Warranty period

SI No.	Description	No. of Units	Unit Price (in ₹.)	Taxes (VAT/ S.Tax/C.St/ Road permit)	Amount (in ₹.)
1	Overall Operation and Security of RIS System from Sagar to Farakka stretch of National Waterways No-1. [For Control station 1 Engineer, 3 Operators and 3 Security persons are required. For Base station 3 Operator and 3 Security persons are required. Deployment is for round the clock (24 hrs.)].	1 year			

Total quoted cost for 1 (one) year = ₹

(₹ in words.....)

.....)

(Name & Signature of the authorized person with date)

Note: Use separate sheet for using in Price Bid

Schedule 'E' (Revised)

CAMC including Overall Maintenance, Operation & Security of RIS system for 3 (Three) year)

Sl No.	Description	No. of Units	Unit Price (in ₹.)	Taxes (VAT/ S.Tax/C.St/ Road permit)	Amount (in ₹.)
1	Comprehensive Annual Maintenance Contract (CAMC) for the RIS System (AIS Transponder, VHF Tx / Rx, Servers etc. and other installations including routers, switches, racks, cables etc. at the Control station & all installations at the Base stations, DGPS Receiver, Echo sounder & Laptop etc.) including cost of all the spares parts, manpower (For Control station 1 Engineer, 3 Operators and 3 Security persons are required. For Base stations 3 Operator and 3 Security persons are required. Deployment is for round the clock (24 hrs.)), Operation, Security, spare parts, VAT, Service Tax, Service Charges etc. complete for a period of 3 (Three) years at site after completion of warranty period of 12 months. 1 st Year = 2 nd Year = 3 rd Year =	1 1 1			

Total quoted cost for 1st Year = ₹

2nd Year = ₹

3rd Year = ₹

(₹ in words.....
.....)

(Name & Signature of the authorized person with date)

Note: Use separate sheet for using in Price Bid