



'E' TENDER DOCUMENT

FOR

**INSTALLATION AND MAINTENANCE OF 24 HRS.
NAVIGATIONAL AIDS IN KOLKATA – RAJMAHAL
STRETCH OF NATIONAL WATERWAY NO.1 (RIVER
GANGA) FOR THE YEAR 2021-22**



TENDER No IWAI/KOL/8/NN/2021-22

INLAND WATERWAYS AUTHORITY OF INDIA

(Ministry of Shipping, Road Transport & Highways, Govt. of India)

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

Address of Issuing Office: P-78, GARDEN REACH ROAD, KOLKATA – 700 043

E-mail address of Issuing Officer : dirkol.iwai@nic.in

Web site: www.iwai.gov.in

<https://eprocure.gov.in/eprocure/app>



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TENDER ACCEPTANCE LETTER (To be given on Company Letter Head)

Date:

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Dear Sir,

1. I/ We, have downloaded/ obtained the tender document(s) for the above mentioned 'Tender/ Work' from the web site(s) namely: www.iwai.nic.in OR <https://eprocure.gov.in/eprocure/app> as per your advertisement, given in the above mentioned website(s).
 2. I/ We, hereby certify that I/ We, have read the entire terms and conditions of the tender documents from Page No. ____ to ____ including all documents like annex(es), schedule(s), etc.), which form part of the contract agreement and I/ We, shall abide hereby by the terms/ conditions/ clauses contained therein.
 3. The minutes of the pre-bid meeting and/ or corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
 2. I/ We, hereby unconditionally accept the tender conditions of above mentioned tender document(s)/ minutes of the pre-bid meeting/ corrigendum(s) in it's totally/ entirety.
 3. In case any provisions of this tender are found violated, then your department/ organization shall without prejudice to any other right or remedy be at liberty to reject this tender/ bid including the forfeiture of the full said earnest money deposit absolutely.
- Yours Faithfully.

(Signature of the Bidder, with Official Seal)



INLAND WATERWAYS AUTHORITY OF INDIA,
Ministry of Shipping, Govt. of India
P-78, GARDEN REACH ROAD KOLKATA-700043
E-mail address of Issuing Officer:dirkol.iwai@nic.in

E-Tender No: IWAI/KOL/8/NN/2021-22

IWAI invites e-tender for “Installation, operation and maintenance of 24 hrs navigational aids in between Kolkata-Rajmahal stretch of NW-1(River Ganga) from October 2021 to March 2022”. Details are following: -Estimated cost Rs.2,43,56,384/-, E.M.D – Rs.4,87,000/-, Date of downloading of e-tender from 26.07.2021 to 24.08.2021, last date of submission: 24.08.2021 up to 1500 hrs. Date of opening: 25.08.2021 at 15:30 hrs. For details please visit to IWAI website www.iwai.nic.in and CPP portal website <https://eprocure.gov.in/eprocure/app>

Director



INLAND WATERWAYS AUTHORITY OF INDIA

(Ministry of Shipping, Govt. of India)

P-78, GARDEN REACH ROAD, KOLKATA – 700043

E-mail address of Issuing Officer: dirkol.iwai@nic.in

Telephone Nos. 033-2439 0393

NOTICE INVITING TENDER No.: IWAI/KOL/8/NN/2021-22

Name of Work: - Tender document for the work of Installation operation and maintenance of 24 hrs navigational aids in between Kolkata-Rajmahal stretch of NW-1 (River Ganga) during October 2021 to March 2022.

Inland Waterways Authority of India (IWAI) invites On line tenders in two cover system (Cover I - Technical bid and Cover II - Financial Bid) from reputed & experienced contractors for the work of Installation operation and maintenance of 24 hrs navigational aids in between Kolkata-Rajmahal stretch of NW-1 (River Ganga) during October 2021 to March 2022. The Bids will place online at <https://eprocure.gov.in/eprocure/app>. Tender document may be downloaded from the <https://eprocure.gov.in/eprocure/app> as per the schedule as given in critical date sheet as under:-

1. Cost of the work, EMD requirement and Critical Dates are as under:-

Name of Works	Installation operation and maintenance of 24 hrs navigational aids in between Kolkata-Rajmahal stretch of NW-1 (River Ganga) during October 2021 to March 2022
Date of Publishing	26.07.2021
Document Download Start Date & Time	26.07.2021 18.00 Hrs
Bid Submission start Date & Time	26.07.2021 1830 Hrs
Bid Closing/Document Download End Date & Time	24.08.2021 1500 Hrs
Bid Opening Date & Time	25.08.2021 1130 Hrs
Estimated cost including all taxes, levies, cess, etc except GST as applicable.	Rs.2,43,56,384/-
EMD cost	Rs.4,87,000/-
Tender Cost	Rs.5900/- including GST

2. The tender document can be downloaded from the IWAI's website www.iwai.nic.in or Portal Website <https://eprocure.gov.in/eprocure/app>. Bidders participating in e-tender proc required to deposit non-refundable Tender fee Rs.5900/- (Rupees five thousand nine hundred including GST towards the tender cost through RTGS/ NEFT in the following Account:

i.) Name of Bank Account:	IWAI FUND
ii.) Bank Name and Address	State Bank of India, Garden reach Branch, Kolkata
iii.) Bank Account Number	31661496517
iv.) IFSC	SBIN0001402
v.) MICR Code	700002126
vi) GST No. of IWAI	19AAATI7021F1ZV

The prescribed amount of EMD of this tender is also to be deposited through RTGS/ NEFT to the above account

3. 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
4. Tenderer shall agree to the terms & conditions of the tender and submit the tender online duly signed on each page for agreeing the same.
5. The complete bid as per the tender documents should be placed online at <https://eprocure.gov.in/eprocure/app> by **15.00 hrs. on 24.08.2021** and will be opened online on **25.08.2021** at **15.30 hrs** at IWAI, Regional Office, Kolkata. The original demand draft for tender fee and EMD should be deposited before closing date and time of submission of bid at Inland Waterways Authority of India, P-78, Garden Reach Road, Kolkata-700043 (WB) except Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or Department or Startups as recognized by Department of Industrial Policy & Promotion (DIPP) on submission of a valid registration certificate as per the Government of India rules.

1. **EXTENSION OF CONTRACT: Under provisions of this contract, the work shall be initially awarded upto March 2022. However, IWAI shall reserve the rights to extend the contract for further period of another three successive years i.e. 2022-23, 2023-24 and 2024-25 to the successful contractor with enhancement of rates (as quoted by him during 2021-22) @ 5% (five percent) on each financial year at the agreed rates, same terms and conditions of the contract after getting willingness from the concerned contractor and subject to satisfactorily performance of the works.**

6. As the work shall involve considerable amount of movement in the river for the purpose of inspection, supervision, pilotage, coordination etc by pilots of IWAI/Contractor, officers of IWAI, officers of ODC operator, tourism vessels etc, the mechanized crafts/boats to be engaged by the agency should be having valid registration /survey certificates for plying in NWs during the entire year and should be fitted with certified quality life saving appliances. The craft/boat will have to be manned by certified crew as per rules laid down by IWT Directorate,
7. IWAI reserves the right to accept or reject any or all tenders without assigning any reason and no correspondence shall be entertained in this regard. The department will also have the right to award the work for different stretch to different bidders at the lowest received rate to ensure that the works are undertaken smoothly at all stretches simultaneously.

Pre-Qualification Criteria:-

- 2) The tenderer shall be registered with Central Public Works Department, Railways, MES and State PWD/ Irrigation Department or non-registered contractors having experience of working with IWAI.
- 3) Tenderer shall have Permanent Account Number issued by Income Tax Deptt.
- 4) The tenderer shall be registered with GST department and GST component shall be shown separately in the bill/invoice by the tenderer.
- 5) Average annual financial turnover during last three years ending 31st March of the previous financial year, should be at least 30% of the cost of the work for each stretch as mentioned in this tender.
- 6) Average annual financial turnover during last three years ending of the previous financial year, should be at least 30% of the cost.
- 7) Experience of having successfully completed similar works i.e. 24 hrs navigational Aids, or erection & maintenance of day channel marks along with night navigations facilities at least 250KM (mandatory) length of stretch in Major Rivers of India like Ganga (NW-1) and Brahmaputra (NW-2) etc during the last 7 years ending last day of month previous to the one in which this tender is invited should be either of following for each stretch :
 - a) Three works costing not less than 40% of the estimated cost; or
 - b) Two works costing not less than 50% of the estimated cost; or
 - c) One work completed not less than 80% of the estimated cost
- 8) Latest certificate of solvency from nationalized / scheduled Bank included in the second schedule of the RBI Act for not less than the value as indicated below for different stretches:
8. The tenderer must be having own team of river pilots and have registered / river worthy mechanized boats which will be deployed by the contractor for

checking of channel/marking of channel and also for escorting of cargo vessels/ODC carriers and Tourist vessels through their stretch of activity. The contractor quoting for stretch Kolkata –Rajmahal (as mentioned above) has to have at least one registered / river worthy powered mechanized vessels/boats and river pilot for deployment in the stretch (as the works in these stretch include day & night navigational aids, etc). Documentary evidence of ownership of the mechanized vessels/boats either in the name of the firm or in the name of the owner/partners of the firm and bio data of the river pilots indicating their past years of experience have to be scanned and attached with the technical bid.

9. Bids shall be submitted online only at CPPP website <https://eprocure.gov.in/procure/app> Manual bids shall not be accepted and liable to be rejected. The Hard copy of original instruments in respect of cost of tender document, earnest money, in original as asked in this tender document must be delivered at the office of Director, IWAI, P-78, GARDEN REACH ROAD, KOLKATA – 700043 **on or before bid opening date/time** as mentioned in critical date sheet. Late receipt of required document shall not be considered. Bidder shall likely to be liable for legal action for non-submission of original payment instrument like DD, etc., against the submitted bid. Demand Draft attached/submitted for tender fee shall be non refundable.
10. 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 for downloaded tenders. Site can be inspected on all the working days during office hours. IWAI reserves the right to reject any or all the tender without assigning any reason thereof.
11. The firm may quote for work of indicated above and completed bids as per terms & Conditions mentioned in the tender document should be online submission at <https://eprocure.gov.in/eprocure/app> upto **1500 hrs on 24.08.2021** and it will be opened on **25.08.2021 at 15:30 hrs**.

12. For special attention

- All tenderers are cautioned that tenders containing any deviation whatsoever from the terms and conditions, specifications as contained in the tender documents are liable to be rejected as non-responsive.

The tender shall have to be submitted bid online in two bid format, the first part i.e.” Technical bid” should contain the scanned copy of entire tender document duly signed in all places, details of machineries, technical manpower, work schedule, and earnest money deposit only but not the price bid. Second part i.e.” Financial bid” shall contain only the rates of the item of work as in schedule A. This price bid (BOQ of The work of Installation operation and maintenance of 24 hrs navigational aids in between Kolkata-Rajmahal stretch of NW-1 (River Ganga) during October 2021 to March 2022. as per format provided along with this tender. Bid shall be submitted online separate covers super scribing as “technical bid” and “financial bid”.

13. Earnest Money Deposit (EMD) and tender cost must accompany each tender and tender not accompanied by the EMD & tender cost shall be rejected as NON-RESPONSIVE. The EMD & tender cost for an amount as specified above shall be submitted in the technical bid.
14. Opening Of Tenders & Evaluation
- (a) Tenders will be opened online by the tender evaluation committee at IWAI, Kolkata- 700 043 at **15:30 hrs on 25.08.2021** in the presence of representative of the tenders who choose to remain present.
- (b) After the online opening of the tenders, the first part i.e. Technical bid will be evaluated by the Tender Evaluation Committee as constituted by the Authority. The second part i.e. Price bid will be opened online by the same T.E.C. only for those tenderers who become technically qualified after the evaluation of technical on a suitable date.
- (c) If the tendered amount is same for more than one bidders then the work will be awarded to the bidder on the basis having more credential/experience certificate submitted by the bidders.
15. TENDER VALIDITY PERIOD
- a) The tender shall remain valid for a period not less than 90 days after the date of opening of tenders.
- b) Tenderer must read “ Information & Instruction for Tenders” and be satisfied himself in respect to scope and the situation of works or any issue as related to the work as considered necessary before the submission of the tenders.
16. The authority shall have the right to reject any or all the tenders and will not be bound to accept the lowest or any other offer.
17. The original EMD and tender cost instrument should reach the office of Director, Inland Waterways Authority of India, P-78, Garden Reach Road, Kolkata – 700 043, on or before date & time of opening of tender mentioned in the critical sheet otherwise the bid shall not be considered. The technical bid will be opened on **25.08.2021 at 15.30 hrs** in the presence of intending bidders.
18. **If the bid amount is less than 15% of estimated cost than a justification along with rate analysis of quoted rates would have to be attached alongwith online technical bid.**
19. IWAI reserves the right to accept or reject any or all tenders without assigning any reason and no correspondence shall be entertained in this regard.

(Director)

Instructions to the Consultants/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for eProcurement
<https://eprocure.gov.in/eprocure/app>

- 21) Possession of valid Digital Signature Certificate (DSC) and enrollment/registration of the consultants/bidders on the eprocurement/etender portal is a prerequisite for e- tendering.
- 22) Bidder should do the enrollment in the eProcurement site using the <https://eprocure.gov.in/eprocure/app> option available "Enroll Here" on the home page. Portal. Enrollment is free of charge. During enrollment/registration, the bidders should provide the correct/true information including valid email_id. All the correspondence shall be made directly with the contractors/bidders through email_id provided.
- 23) Bidder need to login to the site through their user ID/ password chosen during enrollment/registration.
- 24) Then the Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by SIFY/TCS/nCode/eMudra or any Certifying Authority recognized by CCA India on eToken/SmartCard, should be registered.
- 25) The DSC that is registered only, should be used by the bidder and should ensure safety of the same.
- 26) Consultant/Bidder may go through the tenders published on the site and download the required tender documents/schedules for the tenders he/she is interested.
- 27) After downloading / getting the tender document/schedules, the Bidder should go through them carefully and then submit the documents as asked.
- 28) If there are any clarifications, this may be obtained online through the tender site, or through the contact details. Bidder should take into account of the corrigendum published before submitting the bids online.
- 29) Bidder then logs in to the site through the secured log in by giving the user id/ password chosen during enrolment/registration and then by giving the password of the eToken/SmartCard to access DSC.
- 30) Bidder selects the tender which he/she is interested in by using the search option & then moves it to the 'my favourites' folder.
- 31) From the favourites folder, he selects the tender to view all the details indicated.
- 32) It is construed that the bidder has read all the terms and conditions before submitting their offer. Bidder should go through the tender schedules carefully and upload the documents as asked, otherwise, the bid will be rejected.
- 33) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and generally, they can be in

general PDF/xls/rar/jpg formats. If there is more than one document, they can be clubbed together and can be provided in the requested format. Each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip/rar and the same can be uploaded, if permitted.

- 34) If there are any clarifications, this may be obtained through the site, or during the pre-bid meeting if any. Bidder should take into account the corrigendum published from time to time before submitting the online .
- 35) The Bidders can update well in advance, the documents such as certificates, annual report details etc., under My Space option and these can be selected as per tender requirements and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of bids.
- 36) Bidder should submit the Tender Fee/ EMD as specified in the tender. The original payment instruments should be posted/couriered/given in person to the Tender Inviting Authority within the due date as mentioned in this tender document. Scanned copy of the instrument should be uploaded as part of the offer, if asked for.
- 37) While submitting the bids online, the bidder reads the terms & conditions and accepts the same to proceed further to submit the bid packets.
- 38) The bidder has to select the payment option as offline to pay the Tender FEE/ EMD as applicable and enter details of the instruments.
- 39) The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise submitted bid will not be acceptable.
- 40) The bidder has to digitally sign and upload the required bid documents one by one as indicated. Bidders to note that the very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read all sections and pages of the bid document including General conditions of contract without any exception and have understood the entire document and are clear about the requirements of the tender requirements.
- 41) The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid will be rejected.
- 42) If the price bid format is provided in a spread sheet file like BoQ_xxxx.xls, the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Price Bid/BOQ template must not be modified/replaced by the bidder, else the bid submitted is liable to be rejected for this tender.

- 43) The bidders are requested to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). The TIA will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the eleventh hour.
- 44) After the bid submission, the acknowledgement number, given by the e-tendering system should be printed by the bidder and kept as a record of evidence for online submission of bid for the particular tender and will also act as an entry pass to participate in the bid opening date.
- 45) The bidder should ensure/see that the bid documents submitted should be free from virus and if the documents could not be opened, due to virus, during tender opening, the bid is likely/liable to be rejected.
- 46) The time settings fixed in the server side & displayed at the top of the tender site, will be valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system. The bidders should follow this time during bid submission.
- 47) All the data being entered by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered will not be viewable by unauthorized persons during bid submission & not be viewable by any one until the time of bid opening.
- 48) Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 49) The confidentiality of the bids is maintained since the secured Socket Layer 128 bit encryption technology is used. Data storage encryption of sensitive fields is done.
- 50) The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) exit option in the browser.
- 51) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.
The contact number for the helpdesk is 1800 233 7315

PART-I
FORM OF TENDER

To,

THE DIRECTOR
INLAND WATERWAYS AUTHORITY OF INDIA,
P-78, Garden Reach Road
Kolkata – 700 043

Name of Work: Installation and maintenance of 24 hrs Navigational Aids in Kolkata-Rajmahal stretch of National Waterway No.1(River Ganga)

1. Having visited the site and examined the information and instructions for submission of tender, general conditions of contract, Special Condition of contracts, Technical, General and Detailed specification, Schedules and Bill of Quantities, agreement and bank guarantee forms, etc for the above named works, I/ We hereby tender for execution of the works referred to in the tender documents in conformity with the said Conditions of Contract, Specifications, Schedule of quantities for the sum as stated in Bill of quantities of this tender Document or such other sum as may be ascertained in accordance with the said conditions of contract.

2. I/ We undertake to complete and Deliver the whole of the works comprised in the Contract within the time as stated in the tender and also in accordance in all respects with the specifications, designs, drawings and instructions as mentioned in the tender documents.

3. I am tendering for the works mentioned in the table below and submitting the EMD separately for each stretch of National waterway in the form of demand draft in favor of IWAI Fund payable at Kolkata at Nationalized / schedule bank as per the details given therein:

Sl. No	Particulars	Demand draft No. & Date	EMD (Rs.)	Details of Bank (Name of Bank, Branch and address)
1	Installation and maintenance of 24 hrs Navigational Aids in Kolkata-Rajmahal stretch of National Waterway No.1(River Ganga)		Rs.4.87 Lakh	Rs.74.00 lakh

4. I/ We agree to abide by this tender. I/ We agree to keep the tender open for a period of 90 days from the date of opening of price bids or extension thereto as required by the IWAI and not to make any modifications in its terms and conditions.

5. I/ We agree, if I/ we fail to keep the validity of the tender open as aforesaid or I/ we make any modifications in the terms and conditions of my/ our tender if I/ We fail to commence the execution of the works as above, I/ We shall become liable for forfeiture

of my/ our Earnest money, as aforesaid and IWAI shall without any prejudice to another right or remedy, be at the liberty to forfeit the said Earnest Money absolutely otherwise the said earnest money shall be retained by IWAI towards part of security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered. Should this tender be accepted, I/ We agree to abide by and fulfill all the terms and conditions and provisions of this tender. No interest is payable on earnest money deposit and/ or security deposit.

6. I/ We have independently considered the amount of Liquidated Damages shown in the tender hereto and agree that it represents a fair estimate of the loss likely to be suffered by IWAI in the event of works not being completed in time.

7. If this tender is accepted, I/ We undertake to enter into execute at my/ our cost when called upon by the employer to do so, a contract agreement in the prescribed form. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereto shall constitute a binding contract.

8. If my/ our tender is accepted, I/We am/are to be jointly and severely responsible for the due performance of the Contract. I/We also declare that the firm has not been banned or blacklisted by any Govt. or its department or any Quasi Govt. agency or Public Sector Undertaking or Multilateral or International Aid Agency/Development Bank.

9.I/ We understand that you are not bound to accept the lowest or any Tender you may receive and may reject all or any tender without assigning any reason.

10.I/ We certify that the tender submitted by me, us is strictly in accordance with the terms, conditions, specifications etc. as contained in the tender document, and it is further certified that it does not contain any deviation to the aforesaid documents.

Date

Signature

Name

Designation

duly authorized to sign & submit tender for an on behalf of
(Name and address of firm)

M/s

.....

Telephone nos.....FAX

No.....

Witness :

Signature.....

Name :

Occupation

Address

Telephone nos.

WARRANTY FORM

M/s..... having registered
office at.....
(herein after referred to as the contractor) having carefully studied all the documents,
specifications, designs, drawings etc. pertaining to the contract for works required for
the work of
.....and the local
and site conditions and having under taken to execute the said works.

DO HEREBY WARRANT THAT

1. The contractor is familiar with all requirements of the contract.
2. The contractor has investigated the site and satisfied himself regarding the character of the work and local conditions that may affect the work or its performance.
3. The contractor is satisfied that the work can be performed and completed as required in the contract.
4. The contractor accepts all risks directly or indirectly, connected with the performance of the contract.
5. The contractor has no collusion with other contractors, with any of the men of the Engineer In-Charge or with any other person in the Authority to execute the said works according to the terms and conditions of the said contract.
6. The contract has not been influenced by any statement or promise of the Authority or Engineer-In-Charge but only by the contract documents.
7. The contractor is financially solvent.
8. The contractor is experienced and competent to perform the contract to satisfaction of the Engineer In-Charge
9. The statement submitted by the contractor is true.
10. The contractor is familiar with all general and special laws, Acts, Ordinance, Rules & Regulation of the Municipalities, District, State and Central Government that may affect the works, its performance or personnel employed herein or environment.

Date:.....

For and on behalf of the

contractor
Signature:

Name:.....

INLAND WATERWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highways; Govt. of India)

INSTRUCTIONS FOR SUBMISSION OF BID

- 1.0 All covering letters and information to be included in the bid shall be submitted along with the bid itself.
- 2.0 This tender schedule is only for the work of “Installation and maintenance of 24 hrs Navigational Aids in Kolkata-Rajmahal stretch of National Waterway No.1(River Ganga) during October 2021 to March 2022.”
- 3.0 Stretch wise total estimated cost of works is as under :

Sl. no	Particulars	Estimated cost (in Rs lakhs)
1	Installation and maintenance of 24 hrs Navigational Aids in Kolkata-Rajmahal stretch of National Waterway No.1 (River Ganga) during October 2021 to March 2022	243.56

- 4.0 Tender should be submitted online at <https://eprocure.gov.in/eprocure/app> by - 1500 hours on 24.08.2021 **in two bid system i.e.**
Folder -1 : Technical & Commercial Bid.
Folder-2 : Price Bid of offer.

The Technical & Commercial Bid and Price Bid of offer and will be opened online on 25.08.2021 at 1530 hours at IWAI, P-78, Garden Reach Road, Kolkata-700043

No other document other than the Price schedule should be placed inside Envelope – 2 containing price bid otherwise tender will be summarily rejected.

Technical Bid:

The technical bid shall be submitted online along with scanned copy of the following documents Original Bid document duly completed in all respect except prices and signed with seal on every pages,

- Bid document marked original duly completed and signed on every page except prices.
- Blank Performa of Schedule of Prices (prices not to be filled)
- Registered with Central Public Works Department, Railways, MES and State PWD/ Irrigation Department or non-registered contractors having experience of working with IWAI
- ‘Tender Acceptance Letter’ duly signed and stamped.
- ‘Form of Tender’ duly signed and stamped.

- f) Demand draft for the cost of the bidding documents must be uploaded. The original demand draft is to be deposited in the office before the bid opening date & time.
- g) Earnest Money Deposit (Demand Draft as prescribed). Scanned copy must be uploaded. The original demand draft may be deposited in the office before the bid submission closing date & time.
- h) Experience certificate for similar works completed by the Contractor.
- i) Latest Bank Solvency certificate.
- j) Letter of Authority for signing and negotiation of tender (as the case may be).
- k) GST registration certificate from the concern Authority.
- l) Duly signed Integrity Pact (given in Part-II, General Conditions).
- n) Permanent Account Number (PAN) issued by Income Tax Department.
- o) Audited balance sheets along with turnover, profit and loss account for the last 3 years i.e. ending March 2018, 2019 & 2020
- p) Valid registration and survey certificate of mechanized vessel/boat owned.
- q) Bio data of the river pilots.
- r) Length of stretch executed for similar works.
- s) 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 for downloaded tenders.
- t) The bidder shall give a declaration that they have not been banned or black-listed by any Govt. or Quasi Govt. Agency or Public Sector Undertaking (PSU).
- u) In addition to the above, the contractor is required to submit scanned copy of other document if any to full fill all the condition of the tender document and the same may be attached after thoroughly read/study failing which he will be treated as technically disqualified.

Non submission of any of the above documents shall lead to disqualification of the bid

Price Bid:

The price bid shall be submitted online for

- (i) Schedule of Prices duly filled in the specified form, i.e. “SCHEDULE –A etc.” (whichever is relevant).
- (ii) If the bidder have not quoted price of any item than the same item shall be treated as zero cost and the bidder will be executed the same item obligatory as applicable as per tender.
- (iii) It may please be noted that this part shall not contain any terms & conditions. Any condition given in the price bid will be a sufficient cause for rejection of bid.

5.0 Bidders are advised to submit quotation strictly based upon technical specification, terms and conditions contained in technical specifications, terms and conditions contained in documents and not to stipulate any deviations. Any change in this may lead to rejection of bid.

6.0 Earnest Money Deposit separately for each stretch as indicated against stretch in NW-1 in the Notice inviting tender should be submitted by Demand Draft drawn in favour of “IWAI-Fund” payable at KOLKATA on any Nationalised/ Scheduled Bank of India for each stretch. The original demand draft for tender fee and EMD should be deposited before closing date and time of submission of bid at IWAI, P-78, Garden Reach Road, Kolkata-700043. In case the EMD and tender fee is not reached the Office of inviting Officer before submission date and time of the bid, The bid is liable for rejection.

7.0 In case the purchaser of the tender document decide not to quote for this work, then the complete set of bid document may kindly be returned to the IWAI.

8.0 The bids can only be submitted in the name of the bidder in whose name the bid documents were issued by the IWAI.

9.0 Any annotations or accompanying documentation in the bid shall be in Hindi or English language only and in metric system. Tenders filled in any other language will be summarily rejected.

10.0 Bidders shall sign their proposal with the exact name of the firm to whom the bid document has been issued. The bid shall be duly signed and sealed by an authorized person of the bidder's organization as following:

10 (a) If the Tender is submitted by an individual, it shall be signed by the proprietor above his full name and full name of his firm with its current business address.

10 (b) If the Tender is submitted by the proprietary firm, it shall be signed by the proprietor above his full name and full name of his firm with its name and current business address.

10 (c) If the Tender is submitted by a firm in partnership, it shall be signed by all the partners of the firm above, their full names and current business address, or by a partner holding the power of attorney for the firm for signing the Tender in which cases a certified copy of the power of attorney shall accompany the Tender. A certified copy of the partnership deed and current business address of all the partners of the firm shall also accompany the Tender.

10 (d) If the Tender is submitted by a limited company, or a limited Corporation, it shall be signed by a duly authorized person holding the power of attorney for signing the tender in which case a certified copy of the power of attorney shall accompany the Tender. Such limited company or corporation may be required to furnish satisfactory evidence of its existence before the contract is awarded. ‘Satisfactory evidence’ means the certificate of incorporation of the limited company or corporation under Indian Companies Act, 1956.

10 (e) If the Tender is submitted by a group of firms, the sponsoring firm shall be submit complete information pertaining to each firm in the group and state along with the bid as to which of the firm shall have the responsibility for tendering and for completion of the contract document and furnish evidence admissible in law in respect of the authority assigned to such firm on behalf of the group of firms for tendering and for completion of the contract document. The full information and satisfactory evidence pertaining to the participation of each member of the group of firm in the firm in the Tender shall be furnished alongwith the Tender.

10 (f) All witnesses and sureties shall be persons of status and their full names, occupations and addresses shall be stated below their signatures. All signatures affixed in each page in the tender will be dated.

11.0 Bidders shall clearly indicate their legal constitution and the person signing the tender shall state his capacity and also the source of his ability to bind the bidder. The power of attorney or authorization or any other document constituting adequate proof of the ability of the signatory to bind the bidder shall be annexed to the bid. The Owner may reject outright any bid unsupported by adequate proof of the signatory's authority.

12.0 The bid document shall be completed in all respects and shall be submitted together with the requisite information and appendices. They shall be complete and free from ambiguity, change or inter-lineation. In case IWAI requires any information/ clarification(s) from the Bidder in respect of the bid documents, the bidder shall be required to furnish the same in writing, to IWAI at the earliest where no time is specified by IWAI to furnish the same. A failure to furnish the same shall entitle IWAI to cancel/ reject the bid

13.0 If the space in the bid form or in the Appendices thereto is insufficient, additional pages shall be separately added. These pages shall be consecutively page numbered and shall also be signed by the Bidder.

14.0 Bidders should indicate at the time of quoting against this bid their full postal addresses, telephone numbers and other communication details enabling IWAI to contact the bidder in case the need so arise.

15.0 IWAI shall have a unqualified option under the said bid bond to claim the amount there under in the event of the Bidder failing to keep the bid valid up to the date specified or refusing to accept work or carry it out in accordance with the bid if the IWAI decides to award the Work to the Bidder.

16.0 The EMD shall be retained with the IWAI until finalization of tenders. Further, security deposit as per the clause of Security shall be payable by the successful bidder. If the tenderer fails to furnish the security deposit in accordance with tender conditions EMD shall be forfeited. In the event of the Bidder becoming the successful Contractor. The amount of EMD would be adjusted against the Security deposit.

17.0 IWAI shall, however, arrange to release the EMD in respect of unsuccessful bidders within 30 (thirty) days of placement of order to successful bidder. No interest shall be payable on EMD by IWAI.

18.0 The Tender Evaluation Committee (TEC) shall open the tenders in the presence of the intending tenderers who may be present at the date and time of opening informed in the bid document or subsequently. If any of the tenderer or his agent is not present at the time of opening of tender, the TEC shall, on opening of tenders of the absentee tenderer, prepare a statement of the attested and unattested corrections in the tender over their signature. Such a list shall then be binding on the absentee tenderer.

19.0 The successful tenderers shall be required to execute a contract agreement in the given format. In case of any refusal/ failure on the part of such successful tenderer to execute such a contract shall be deemed to be a failure on the part of such successful bidder to comply with the terms contained herein.

20.0 IWAI reserves the right to reject any or all bids without assigning any reasons.

PART - II

**To be signed by the bidders' and same signatory competent/
authorized to sign the relevant contract on behalf of IWAI.**

INTEGRITY AGREEMENT

This Integrity Agreement is made at on this day of 20.....

BETWEEN

Chairperson, Inland Waterways Authority of India represented through Director/Chief Engineer, Inland Waterways Authority of India, A - 13, Sec. – 1, Noida.

IWAI, (Hereinafter referred as the 'Principal/ Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....

(Name and Address of the Individual/firm/Company)

through(Hereinafter referred to as the

(Details of duly authorized signatory)

“Bidder/Contractor” and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal / Owner has floated the Tender (NIT No. IWAI/KOL/TECH(8)/NN/2020-21) (hereinafter referred to as “Tender/Bid”) and intends to award, under laid down organizational procedure, contract for “Installation and maintenance of 24 hrs. Navigational Aids in Kolkata-Rajmahal stretch of National Waterway No.1(River Ganga) during October 2021 to March 2022.” hereinafter referred to as the “Contract”.

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as “Integrity Pact” or “Pact”), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal/Owner

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - (c) The Principal/Owner shall Endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

1. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the IWAI all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
2. The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the tender process or execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the contract.

- b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
 - e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
 4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
 5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the bidder/contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.
2. Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Bidder(s) from the tender process prior to the award of the contract or terminated/determined the contract or has accrued the right to terminate/determine the contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
3. Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a bidder or Contractor, or of an employee or a representative or an associate of a bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/ sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6: Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, IWAI.

Article 7: Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

Article 8: LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....
(For and on behalf of Principal/Owner)

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1.
(signature, name and address)

2.
(signature, name and address)

Place:

Date:

SCHEDULES

SCHEDULE 'A' : Salient Features of the work.

Name of Work : Installation and Maintenance of 24 hrs. Navigational Aids in Kolkata-Rajmahal stretch of National Waterway No.1(River Ganga)

Estimated cost of work: The work is estimated to cost Rs.(in lakhs) 243.56 Lakhs
This estimate, however, is given merely as a rough guide.

- (a) Earnest Money : Rs.4,87,000/-
- (b) Performance Guarantee : 5% of tendered value.
- (c) Security Deposit : 5% of tendered value (A sum @ 10% of the gross amount of the bill shall be deducted from each running bill till the sum along with the EMD is equivalent to 5% of contract value)

SCHEDULE 'B' :

General Rules & Directions with reference to General Conditions of Contract: -

- (i). Officer inviting tender: - Director
- (ii). Tender Accepting Authority:- Inland Waterways Authority of India
- (iii). (a) Time allowed for submission of Performance Guarantee as per clause 3.1 of GCC from the date of issue of letter of acceptance:- 15 days
- (b) Maximum allowable extension beyond the period provided in (iii) (a) above:- 7 days
- (iv). Percentage on Cost of Materials & Labour to cover all overheads and profits:- 15%
- (v). Standard Schedule of Rates:- Reference of Market Rates
- (vi). Specifications to be followed:- -----
- (vii). Deviation Limit beyond which clause 16.3, 16.4, 16.5 & 16.6:- 25%
- (viii). Competent authority of grant extension of time under clause 34: -
- (a) Regional Director/EIC (Field), IWAI (if the amount of contract is upto 100 lakhs).
- (b) Chief Engineer (if the amount of contract is more than 100 lakh upto 200 lakhs).

- (c) Member (Technical), IWAI (if the amount of contract is more than 200 lakh upto 300 lakhs).
- (d) Vice-Chairman IWAI, Noida (if the cost of contract is more than 300 lakhs & up to 1000 lakhs).
- (e) Chairman, IWAI, Noida (Full power).

(ix) Competent authority to levy liquidated damages for delay under clause 35:-

- (a) Regional Director (Field)/Engineering In Charge of the project (Full power)

(x) Competent authority to determine the contract as per clause 36:-

- (a) Regional Director (Field), IWAI (if the amount of contract is upto 100 lakhs).
- (b) Member (Technical), IWAI (if the amount of contract is more than 100 lakh upto 300 lakhs).
- (c) Vice-Chairman / Chairperson, IWAI, Noida (if the cost of contract is more than 300 lakhs & up to 1000 lakhs).
- (d) Chairman, IWAI, Noida (if the amount of contract is more than 1000 lakhs).

(xi) Milestones as per table given below:

(Clause 34.5 & 34.6 shall be applicable only when the amount of the contract is more than 10 crores)

Sl. No.	Milestone	Time Allowed (from date of start) in months	Amount to be withheld in case of non-achievement of mile stone
1.			
2.			
3.			
4.			
5.			

(xii) Competent authority to reschedule the milestones as per clause 34.5:-

Chairman, IWAI, Noida

(xiii) Competent authority for foreclosure of contract in full or in part due to abandonment or reduction in scope of work as per clause 31:-

(a) Engineer-in-Charge with the prior approval of
(b) Member Technical), IWAI (if the amount of contract is up to 300 lakhs).
(c) Vice-Chairman/ Chairperson, IWAI, Noida (if the cost of contract is more than 300 lakhs & up to 1000 lakhs).
(d) Chairman, IWAI, Noida (if the amount of contract is more than 1000 lakhs).

(xiv) Incentive for early completion.

(a) Whether Clause 50 is applicable:-

Not Applicable

.....

GENERAL CONDITIONS OF CONTRACT

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GENERAL CONDITIONS OF CONTRACT

CLAUSE - 1: DEFINITIONS

In the contract, the following words & expressions shall, unless context otherwise requires, have the meaning thereby respectively assigned to them:

- i) **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
- ii) **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.
- iii) **Contractor:** means the successful tenderer who is awarded the contract to perform the work covered under this tender documents and shall be deemed to include the contractor's successors, executors, representatives or assign approved by the Engineer-in-charge.
- (iv) **Employer** means the Chairman, Inland Waterways Authority of India and his successors.
- (v) **IWAI/ Authority/ Department/ Owner** shall mean the Inland Waterways Authority of India, which invites tenders on behalf of the Chairman, IWAI and includes therein-legal representatives, successors and assigns.
- (vi) **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.
- (vii) **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.
- (viii) **Chairman:** means Chairman of Inland Waterways Authority of India.
- (ix) **Chief Engineer:** means the Chief Engineer of the Authority.
- (x) **Director** means the Director of the Authority, as the case may be.
- (xi) **Deputy Director** means the Deputy Director of the Authority, as the case may be.
- (xii) **Assistant Director** means the Asstt. Director of the Authority, as the case may be.

- (xiii) **Assistant Hydrographic Surveyor** means the Assistant Hydrographic Surveyor of the Authority, as the case may be
- (xiv) **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.
- (xv) **Day** : means a calendar day beginning and ending at mid-night.
- (xvi) **Week** : means seven consecutive calendar days
- (xvii) **Month** : means the one Calendar month.
- (xviii) **Site** means the waterway and / or other places through which the works are to be executed.
- (xix) **Vessel** : means the vessel/craft belonging to the Contractor for carrying out the work.
- (xx) **High Mast Light** : A tall pole with lighting attached to the top pointing towards The ground , usually but not always used to light a Highway or recreational field.
- (xxi) **Luminaries**: An object , such as a celestial body , that gives light.
- (xxii) **Mast Feeder Pillar**: Provides local isolation to electrical distribution equipment , protecting both cabling and the transformer from faults.
- (xxiii) **Drawings** : means the drawings referred to in the specifications and / or appended with the tender document, any modifications of such drawings approved in writing by the Engineer-in-Charge and shall also include drawings issued for actual execution of the work time to time by the Engineer-in-Charge.
- (xxiv) **Urgent Works**: means any urgent nature which in the opinion of the Engineer-In-Charge become necessary at the time of execution and / or during the progress of work to obviate any risk or accident or failure or to obviate any risk of damage to the vessel structure, or required to accelerate the progress of work or which becomes necessary for security or for any other reason the Engineer-in-Charge may deem expedient.
- (xxv) **Work/ works**: means work / works to be executed in accordance with the contract.
- (xxvi) Schedules referred to in these conditions shall mean the relevant schedules annexed to the tender papers or the standard schedule of rates of the govt. mentioned with the amendments thereto issued up to the date of receipt of the tender.
- (xxvii) District specifications means the specifications followed by the State Government in the area where the work is to be executed.

xxviii) Tendered value means the value of the entire work as stipulated in the letter of award.

CLAUSE – 2: INTERPRETATIONS

- 2.1 Where the contract so requires, words imparting the singular only shall also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
- 2.2 Heading and marginal notes in these General Conditions shall not be deemed to form part thereof or be taken into consideration in the interpretation of construction thereof of the contract.

CLAUSE – 3: PERFORMANCE GUARANTEE

- 3.1 The contractor shall be required to deposit an amount equal to 5% of the tendered value of the work as performance guarantee in the form of either demand draft payable at any nationalized/schedule bank **OR** an irrevocable bank guarantee bond of any scheduled bank or State Bank of India in accordance with the form prescribed within 15 days of the issue of the work order.
- 3.2 Performance guarantee shall be initially valid up to the stipulated date of completion plus sixty days beyond that. In case the time for completion gets enlarged, the contractor shall get the validity of the performance guarantee extended to cover such enlarged time of the work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor without any interest.
- 3.3 In the event of contract being determined under the provision of any of the clauses/conditions of agreement, the performance guarantee shall be forfeited in full and shall be absolutely at the disposal of the authority.

CLAUSE – 4: SECURITY DEPOSIT

- 4.1 A sum @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum along with the sum already deposited as the earnest money will amount to security deposit of 5% of the contract value of work. **Bank guarantee will not be accepted as security deposit.**

In case of MSME registered firms, deduction of a sum of 10% of the gross amount of the bill from each running bill till that amount reaches 5% of the contract value of the work as Security Deposit will also be made.

- 4.2 The total security deposit shall remain with IWAI till the defect liability period is over or the payment of the final bill payable in accordance with agreement conditions whichever is later, provided the Engineer-in-Charge is satisfied that there is no demand outstanding against the contractor.
- 4.3 No interest will be paid on security deposit.
- 4.4 If the contractor neglects to observe or fails to perform any of his obligations under the contract, it shall be lawful for the Employer/ EIC to forfeit either in

whole or in part, the security deposit furnished by the contractor. However, if the contractor duly performs and completes the contract in all respects and presents in absolute "NO DEMAND CERTIFICATE" in the prescribed form, the IWAI shall refund the security deposit to the contractor after deduction of cost and expenses that the Authority may have incurred and other money including all losses and damages which the Authority is entitled to recover from the Contractor.

- 4.5 In case of delay in the progress of work, the Engineer- in-Charge shall issue to the contractor a memo in writing pointing out the delay in progress and calling upon the contractor to explain the causes for the delay within 3 days of receipt of the memo and 10 days from issuance of memo whichever is earlier. If the Engineer-in-Charge is not satisfied with the explanations offered, he may forfeit the security deposit and / or withhold payment of pending bills in whole or in part and/ or get the measures of rectification of progress of work accelerated to the pre-defined level at the risk and cost of the contractor.
- 4.6 All compensation or other sums of money payable by the contractor under the terms of the contract or any other contract or on any other account whatsoever, may be deducted from or paid by the sale of a sufficient part of his security or from the interest arising there from or from any sums which may be due or may become due to the contractor by the Authority on any account whatsoever. Also in the event of the contractor's security deposit being reduced by reasons of such deductions or sale, as aforesaid the contractor shall, within 14 days of receipt of notice of demand from the Engineer-in-Charge make good the deficit in his security deposit.

CLAUSE – 5: SUFFICIENCY OF TENDER

The contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates quoted in the schedule of Quantities and Prices which shall (except as otherwise provided in the contract) cover all his obligations under the contract and all matters and things necessary for the proper execution and completion of the works in accordance with the provisions of the contract and its operation during execution of work.

CLAUSE – 6: CONTRACT DOCUMENTS

- 6.1 The language in which the contract documents shall be drawn up shall be English and if the said documents are written in more than one languages, the language according to which the contract is to be constructed and interpreted shall be English.
- 6.2 The Contractor shall be furnished free of charge certified true copy of the contract document.
- 6.3 A copy of the Contract Documents furnished to the Contractor as aforesaid shall be kept by the Contractor on the Site in good condition and the same shall at all reasonable time be available for inspection and use by the Engineer-in-Charge, his representatives or by other Inspecting officers of the Authority.

- 6.4 None of these Documents shall be used by the Contractor for any purpose other than that of this contract.

CLAUSE – 7: DISCREPANCIES AND ADJUSTMENT OF ERRORS

- 7.1 Detailed drawings shall be followed in preference to small-scale drawings and figured dimensions in preference to scaled dimensions. The case of discrepancy between the Schedule of Quantities and prices, the Specifications and/ or the drawings, the following order of precedence shall be observed : -
- (a) Description in the Schedule of Quantities and Prices.
 - (b) Relevant Specifications and Special Conditions, if any.
 - (c) Drawings.
 - (d) Indian Standards Specifications of BIS.
- 7.2 The contractor shall study and compare the drawings, specifications and other relevant information given to him by the Engineer-in-Charge and shall report in writing to the Engineer-in-Charge any discrepancy and inconsistency which he notes. The decision of the Engineer-in-Charge regarding the correct intent and meaning of the drawings and specifications shall be final and binding.
- 7.3 Any error in description, quantity or price in Schedule of Quantities and Prices or any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the work(s) comprised therein according to drawings and specifications or from any of his obligations under the contract.
- 7.4 If on check there is difference in the amount worked out by contractor in the schedule of quantities and prices and General summary the same shall be adjusted in accordance with the following rules:
- (a) In the event of error/discrepancy occurring in the rates written in figures and words, then the rate which corresponds with the amount worked out by the contractor shall, unless otherwise proved, be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figures or in words, then the rate quoted by the contractor in words shall be taken as correct. When the rate quoted by the contractor in figures and words tally, but the amount is not worked out correctly, the rate quoted by the contractor will, unless or otherwise proved, be taken as correct.
 - (b) All errors in totaling in the amount column and in carrying forward totals shall be corrected.
 - (c) The totals of various sections of schedule of quantities and price amended shall be carried over to the General Summary and the tendered sum amended accordingly. The tendered sum so altered shall, for the purpose of tender, be substituted for the sum originally tendered and considered for

acceptance instead of the original sum quoted by the tenderer. Any rounding off of quantities or in sections of schedule of quantities and prices or in General summary by the tenderer shall be ignored.

CLAUSE-8: DUTIES AND POWERS OF THE ENGINEER-IN-CHARGE REPRESENTATIVE

- 8.1 The duties of the representative of the Engineer-in-Charge are to watch and supervise the works and to test and examine any materials/ parts to be used or workmanship achieved in connection with the works.
- 8.2 The Engineer-in-Charge may, from time to time in writing, delegate to his representative any of the powers and authorities, vested in the Engineer-in-Charge and shall furnish to the contractor a copy of all such written delegation of powers and authorities. Any written instruction or written approval given by the representative of the Engineer-in-Charge to the contractor within the terms of such delegation shall bind the contractor and the Authority as though it has been given by the Engineer-in-Charge.
- 8.3 Failure of the representative of the Engineer-in-Charge to disapprove any work or materials shall be without prejudice to the power of the Engineer-in-Charge thereafter to disapprove such work or materials and to order the pulling down, removal or breaking up thereof. The contractor shall, at his own expense, again carry out such works as directed by the Engineer-in-Charge.
- 8.4 If the Contractor is dissatisfied with any decision of the representative of the Engineer-in-Charge, he will be entitled to refer the matter to the Engineer-in-Charge who shall thereupon confirm, reverse or vary such decision and the decision of the Engineer-in-Charge in this regard shall be final and binding on the contractor.

CLAUSE – 9: ASSIGNMENT AND SUB-LETTING

The Contractor shall not sub-let, transfer or assign the whole or any part of the work under the contract. Provided that the Engineer-in-Charge may at his discretion, approve and authorize the Contractor to sub-let any part of the work, which in his opinion, is not substantial, after the contractor submits to him in writing the details of the part of the work(s) or trade proposed to be sublet, the name of the sub-contractor thereof together with his past experience in the said work/trade and the form of the proposed sub-contract. Nevertheless any such approval or authorization by the Engineer-in-Charge shall not relieve the contractor from his any or all liabilities, obligations, duties and responsibilities under the contract. The contractor shall also be fully responsible to the Authority for all the acts and omissions of the sub-contractor, his employees and agents or persons directly employed by the contractor. However, the employment of piece rate works shall not be construed as sub-letting.

CLAUSE – 10: FACILITIES TO OTHER CONTRACTORS

The contractors shall, in accordance with the requirements of the work as decided by the Engineer-in-Charge, afford all reasonable facilities to other contractors engaged contemporaneously on separate contracts and for departmental labour and labour of any other agency properly authorised by Authority or any statutory body which may be

employed at the site for execution of any work not included in the contract which the Authority may enter into in connection with or ancillary to the works. In all matters of conflict of interest, the Engineer-in-Charge shall direct what compromise should be made and his decision shall be final and binding on the parties.

CLAUSE – 11: CHANGE IN THE CONSTITUTION OF THE FIRM TO BE INTIMATED

Where the contractor is a partnership firm, prior approval in writing of the Engineer-in-Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu Undivided Family business concern, such approval, as aforesaid, shall like-wise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If prior approval as aforesaid is not obtained the contractor shall be deemed to have been assigned in contravention to Clause 36 hereof and the same action will be taken and the same consequences shall ensue as provided for in the said clause-36.

CLAUSE – 12: COMMENCEMENT OF WORK

The contractor shall commence the work at the respective sites within 10 days of the issue of Letter of Award. If the contractor commits default in mobilization of resources, and equipment as aforesaid, the Engineer-in-Charge shall without prejudice to any other right or remedy be at liberty to cancel the contract and forfeit the earnest money/security deposit.

CLAUSE – 13: WORKS TO BE CARRIED OUT IN ACCORDANCE WITH SPECIFICATION DRAWINGS AND ORDERS ETC.

13.1 The contractor shall execute the whole and every part of the work in the most substantial and workman like manner in strict conformity with the specifications laid down in the contract document or as may be laid down by the Engineer-in-Charge under the terms of the contract. The contractor shall also conform exactly, fully and faithfully to the designs, drawings specifications and instructions in writing in respect of the work, duly signed by the Engineer-in-Charge as may be issued from time to time.

13.2 The contractor shall be entitled to receive, on demand, in addition to the contract documents, in accordance with the provisions of contract, the documents set forth herein in respect of the work on commencement or during the performance of the contract:

- (a) Specifications or revisions thereof other than standard printed specifications
- (b) Explanations, instructions etc.

Such further drawings, explanation, modifications and instruction, as the Engineer-in-Charge may issue to the contractor from time to time in respect of the work shall be deemed to form integral part of the contract and the contractor shall be bound to carry out the work accordingly.

13.3 In the case of any class of work for which there is no specifications, such work shall be carried out in accordance with the Bureau of Indian Standards

specifications. In case there are no such specifications in the BIS, work shall be carried out as per manufacturer's specifications, if manufacturer's specifications are also not available then as per District specifications. In case there are no such specifications as required, above the work shall be carried out in all respect in accordance with the instructions and requirements of the Engineer-in-Charge.

- 13.4 All instructions and orders in respect of the work shall be given by the Engineer-in-Charge in writing. However, any verbal instructions or order shall be confirmed by the Engineer-in-Charge as soon as practicable without loss of time and only such written instruction shall be deemed to be valid.

CLAUSE – 14: SETTING OUT THE WORKS

The contractor shall provide all assistance and adhere to the instruction of E.I.C during the course of surveying, inspection, etc.

CLAUSE – 15: URGENT WORKS

If any urgent work (in respect of which the decision of the Engineer-in-Charge shall be final and binding) becomes necessary, the contractor shall execute the same as may be directed by Engineer-in-Charge, provided the directions are in accordance and confirmatory with provisions in Clause – 8.

CLAUSE – 16: DEVIATIONS, VARIATIONS, EXTENT AND PRICING

- 16.1 The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.
- 16.2 The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows:
- (i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus
 - (ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge.
- 16.3 In the case of extra item(s) (items that are completely new, and are in addition to the items contained in the contract), the contractor may within fifteen days

- of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the Engineer-in-Charge shall within one month of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.
- 16.4 In the case of substituted items (items that are taken up with partial substitution or in lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para.
- (a) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
 - (b) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
- 16.5 In the case of contract items, substituted items, contract cum substituted items, which exceed the deviation limits laid down in Schedule 'B', the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-Charge shall within one month of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.
- 16.6 The provisions of the paragraph 16.4 above shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Schedule 'B', and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.
- 16.7 Under the circumstances, the contractor shall at any stage not suspend the work on account of non-settlement of rates of such Deviated/Extra/Substituted items.

CLAUSE - 17: CONTRACTOR'S SUPERVISION

- 17.1 The contractor shall either himself supervise the execution of the works or shall appoint at his own expense, a qualified and experienced Engineer as his accredited agent approved by the Engineer-in-Charge, if contractor has himself not sufficient knowledge or experience to be capable of receiving instruction or cannot give his

full attention to the works. The contractor or his agent shall be present at the site(s) and shall supervise the execution of the works with such additional assistance in each trade, as the work involved shall require and considered essential by the Engineer-in-Charge. Further the directions/instructions given by the Engineer-in-Charge to the contractor's agent shall be considered to have the same force as if these had been given to the contractor himself.

- 17.2 If the contractor fails to appoint a suitable agent as directed by the Engineer-in-Charge, the Engineer-in-Charge shall have full powers to suspend the execution of the works until such date as a suitable agent is appointed by the contractor and takes over the charge of supervision of the work. For any such suspension, the contractor shall be held responsible for delay so caused to the work.

CLAUSE - 18: INSTRUCTIONS AND NOTICE

- 18.1 Except as otherwise provided in this contract, all notices to be given on behalf of the Authority and all other actions to be taken on its behalf may be given or taken by the Engineer-in-Charge or any officer for the time being entrusted with the functions, duties and powers of the Engineer-in-Charge.
- 18.2 All instructions, notices and communications etc. under the contract shall be given in writing and any such oral orders / instructions given shall be confirmed in writing and no such communication which is not given or confirmed in writing shall be valid.
- 18.3 All instructions, notices and communications shall be deemed to have been duly given or sent to the contractor, if delivered to the contractor, his authorized agent, or left at, or posted to the address given by the contractor or his authorized agent or to the last known place of abode or business of the contractor or his agent of services by post shall be deemed to have been served on the date when in the ordinary course of post these would have been delivered to him and in other cases on the day on which the same were so delivered or left.
- 18.4 The Engineer-in-Charge shall communicate or confirm the instructions to the contractor in respect of the execution of work through a "Site Order Book" maintained in the office of the Engineer-in-Charge and the contractor or his authorized representative shall confirm receipt of such instructions by signing the relevant entries in this book. If required by the Contractor, he shall be furnished a certified true copy of such instruction(s). The pro-forma for Site Order Book to be maintained at site is given in Annexure – III.
- 18.5 The "Hindrance Register" shall be maintained at the site of work, where any hindrance which comes to the notice of the representative of the Engineer-in-Charge shall be recorded and immediately a report will be made to the Engineer-in-Charge within a week. The Engineer-in-Charge shall review the Hindrance Register at least once in a month. The pro-forma on which the Hindrance Register shall be maintained is given in Annexure-IV.

CLAUSE -19: PLANT AND EQUIPMENT

- 19.1 The Contractors shall provide and install all necessary plant; equipment and machinery required for the execution of the work under the contract, at his cost and shall use such methods and appliances for the purpose of all the operations connected with the work covered by the contract, which shall ensure the completion of work(s) within the specified time.
- 19.2 Subject to the availability of any item(s), plant, equipment and machinery the Authority at the written request of the contractor, may issue to the contractor on hire for being deployed on the work contracted for, at pre- determined rates, terms and conditions at the sole discretion of the Engineer-in-Charge.

CLAUSE – 20: PATENT RIGHTS

The contractor shall indemnify the Authority, its representatives or its employees against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties or other charges which may be payable in respect of any article or material or part thereof included in the contract. In the event of any claim being made or action being brought against the Authority or any agent, servant or employee of the Authority in respect of any such materials as aforesaid the contractor shall immediately be notified thereof. Provided that such indemnification shall not apply when such infringement has taken place in complying with the specific directions issued by the Authority but the contractor shall pay any royalties or other charges payable in respect of any such use, the amount so paid being reimbursement to the contractor only if the use was the result of any drawings and or specifications issued after submission of the tender.

CLAUSE – 21: MATERIALS

- 21.1 The contractor shall at his own expenses provide / arrange all materials required for the bona-fide use on work under the contract.
- 21.2 All materials/parts to be provided by the contractor shall be in conformity with the specifications laid down in the contract and the contractor shall furnish from time to time proof and samples, at his own cost, the materials/parts as may be specified by the Engineer-in-Charge. Further the Engineer-in-Charge shall also have powers to have such tests, in addition to those specified in the contract, as may be required and the contractor shall provide all facilities to carry out the same. The cost of materials/parts consumed in such tests and also the expenses incurred thereon including the cost of the testing charges, shall be borne by the contractor in all cases and also where such tests which are in addition to those provided in the contract disclose that the materials are in conformity with the provisions of the contract.
- 21.3 The Engineer-in-Charge or his representative shall be entitled at any time to inspect and examine any materials/parts intended to be used in the works, either on the site or at factory or workshop or other place(s) where such materials are assembled, fabricated, manufactured or any place where these are lying or from where these are being obtained. For this, purpose, the contractor shall afford such facilities as may be required for such inspection and examination.

CLAUSE - 22: LAWS GOVERNING THE CONTRACT

The Courts at Kolkata only shall have the jurisdiction for filing the award of the arbitration and for any other judicial proceedings.

CLAUSE - 23: WATCH & WARD AND LIGHTING

The Contractor shall provide and maintain at his expense all lights, guards, fencing and watch & ward when and where necessary or as required by the Engineer-in-Charge for the protection of the works or for the safety and convenience of those employed on the works or the public.

CLAUSE - 24: WORK DURING NIGHT OR ON SUNDAYS AND HOLIDAYS

- 24.1 Subject to any provisions to the contrary contained in the contract, none of the works shall be carried out during Sundays and national holidays without the permission in writing of the Engineer-in-Charge. However, when work is unavoidable or necessary for safety of life, property or works, contractor shall take necessary action immediately and advise the Engineer-in-Charge accordingly.
- 24.2 The Engineer-in-Charge at its discretion may, however, direct the contractor that the work may be carried out on holidays, Sundays and/or in extra shifts to ensure completion of works under the contract as scheduled.

CLAUSE - 25: LABOUR

- 25.1 (a) The contractor shall employ labour in sufficient numbers to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the contract and to the satisfaction of the Engineer-in-Charge. The Contractor shall not employ in connection with the works any person who has not completed eighteen years of age the minimum age specified in Indian Labour Law.
- (b) If any foreigner is employed by the contractor on the work within the site the later shall ensure that such foreigner possesses the necessary special permit issued by the Civil Authorities in writing and also comply with the instructions issued there-from from time to time. In the event of any lapse in this regard on the part of such foreigner the contractor shall be personally held responsible for the lapse & Authority shall not be liable in any event.
- (c) The Contract is liable for cancellation if either the contractor himself or any of his employee is found to be a person who has held Class-I post under the Authority immediately before retirement and has within two years of such retirement accepted without obtaining the previous permission of the Authority or of the Chairman as the case may be and

employment as contractor for, or in connection with the execution of the public works, or as an employee of such contractor. If the contract is terminated on account of the failure of the contractor to comply with the above clause, the Authority shall be entitled to recover from him such damages as may be determined by the Engineer-in-Charge with due regard to the inconvenience caused to the Authority on account of such termination without prejudice to the Authority's right to proceed against such officer.

25.2 The contractor shall furnish and deliver fortnightly to the Engineer-in-Charge, a distribution return of the number and description by trades of the works of people employed on the works. The contractor shall also submit on the 4th and 19th of every month for the period of second half of the preceding month and first half of the current month respectively to the Engineer-in-Charge, a true statement in respect of the following.

- i) Any accident if occurred during the said fortnight showing the circumstances under which it happened and the extent of damage and injury caused by it and.
- ii) The number of female workers who have been allowed maternity benefit as provided in the Maternity Benefit Act 1961 or Rules made thereunder and the amount paid to them.

25.3 The Contractor shall pay to labourer employed by him either directly or through sub-contractors wages not less than wages as defined in Minimum Wages Act 1948 and Contract Labour (Regulation and Abolition) Act 1970 amended from time to time and rules framed there-under and other labour laws affecting contract labour that may be brought in force from time to time.

25.4 The Contractor shall also comply with the provisions of all Acts, Laws, any Regulation or Bye Laws of any Local or other Statutory Authority applicable in relation to the execution of works such as:

- i) Payment of Wages Act, 1936 (Amended)
- ii) Minimum Wages Act, 1948 (Amended).
- iii) The Contract Labour (Regulation & Abolition) Act, 1970 with Rules framed there under as amended.
- iv) Workmen Compensation Act, 1923 as amended by Amendment Act no.65 of 1976.
- v) Employer's Liability Act 1938 (Amended)
- vi) Maternity Benefit Act. 1961 (Amended)
- vii) The Industrial Employment (Standing orders) Act 1946 (Amended).
- viii) The Industrial Disputes Act. 1947 (Amended)

- ix) Payment of Bonus Act.1965 and Amended Act No. 43 of 1977 and No. 48 of 1978 and any amended thereof:
- ix) The Personal Injuries (Compensation Insurance) Act 1963 and any modifications thereof and rules made thereunder from time to time. The Contractor shall take into account all the above and financial liabilities in his quoted rates and nothing extra, whatsoever, shall be payable to him on this account.

The list is indicative only, otherwise the contractor should be aware of all the Acts/Labour Laws and should follow diligently on the work. The contractor shall be fully and personally responsible for the violation of any Act/Labour Law

- 25.5 The Contractor shall be liable to pay his contribution and the employees contribution to the State Insurance Scheme in respect of all labour employed by him for the execution of the contract, in accordance with the provision of "the Employees State insurance Act 1948" as amended from time to time. In case the Contractor fails to submit full details of his account of labour employed and the contribution payable, the Engineer-in- Charge shall recover from the running bills the contribution amount as assessed by him. The amount so recovered shall be adjusted against the actual contribution payable for Employees State Insurance.
- 25.6 The Engineer-in-Charge shall on a report having been made by an inspecting officer as defined in the Contract Labour (Regulation and Abolition) Act and Rules or on his own in his capacity as Principal Employer, have the power to deduct from the amount due to the contractor any sum required for making good the loss suffered by worker(s) by reason of non-fulfilment of the conditions of the Contract for the benefit of Workers, non payment of wages or on account of deduction made from the wages of the workers which are not justified by the terms of the contract or non- observance of the said Act and Rules framed there under with amendments made from time to time.
- 25.7 The Contractor shall indemnify the Authority against any payments to be made under and for observance of the Regulation Laws, Rules as stipulated in Clause-25.4 above without prejudice to his right to claim indemnity from his sub-contractors. In the event of the contractor's failure to comply with the provisions of all the Acts/Laws stipulated in Clause-25.4 or in the event of decree or award or order against the contractor having been received from the competent authority on account of any default or breach or in connection with any of the provisions of the Acts/Laws/Rules mentioned in Sub-Clause 25.4 above, the Engineer-in-Charge without prejudice to any other right or remedy under the contract shall be empowered to deduct such sum or sums from the Bill of the contractor or from his security deposit or from other payment due under this contract or any other contract to satisfy within a reasonable time the provisions of the various Acts/Laws/Rules/Codes as mentioned under Sub-Clause 25.4 above, on the part of the contractor under the contract on behalf of and at the expenses of the contractor and make payment and /or provide amenities/ facilities/services accordingly. In this regard, the decision of the Engineer-in-Charge shall be conclusive and binding on the contractor.
- 25.8 In the event or the Contractor committing a default or breach of any of the provisions of the aforesaid Contract's Labour (Regulation and Abolition) Act and

Rules as amended from time to time or furnishing any information or submitting or filling any form/Register/Slip under the provisions of these Regulations which is materially incorrect then on the report of the Inspecting officer as defined in the relevant Acts and Rules as referred in Clause 25.4 above, the Contractor shall without prejudice to any other liability pay to the Authority a sum not exceeding Rs.50/- (Rs. Fifty only) as liquidated damages for every default, breach or furnishing, making, submitting, filling materially incorrect statement as may be fixed by the Engineer-in-Charge. The decision of the Engineer-in-Charge in this respect shall be final & binding.

- 25.9 The Contractor shall at his own expenses comply with or cause to be complied with the Provisions/ Rules provided for welfare and health of Contract Labour in the Contract Labour (Regulation and Abolition) Act and other relevant Acts and Rules framed there under or any other instructions issued by the Authority in this regard for the protection of health and for making sanitary arrangements for workers employed directly or indirectly on the works. In case the contractor fails to make arrangements as aforesaid, the Engineer-in-Charge shall be entitled to do so and recover the cost thereof from the contractor.
- 25.10 The Contractor shall at his own expense arrange for the safety or as required by the Engineer-in-Charge, in respect of all labour directly or indirectly employed for performance of the Works and shall provide all facilities in connection therewith. In case the contractor fails to make arrangements and provide necessary facilities as aforesaid, the Engineer-in- Charge shall be entitled to do so and recover the cost thereof from the Contractor. But this will not absolve the contractor of his responsibility or otherwise thereof.
- 25.11 Failure to comply with "Provisions/Rules made for Welfare and Health of Contract Labour" Safety Manual, or the provisions relating to report on accidents and grant of maternity benefits to female workers and the relevant Acts/Rules referred in clause 25.4 above shall make the contractor liable to pay to the Authority as liquidated damages an amount not exceeding Rs. 50/- for each default or materially incorrect statement. The decision of the Engineer-in-Charge in such matters based on reports from the inspecting Officers as defined in the relevant Acts and Rules as referred in clause 25.4 above shall be final and binding and deductions for recovery of such liquidated damages may be made from any amount payable to the contractor. In the event of any injury, disability or death of any workmen in or about the work employed by the contractor either directly or through his sub-contractor, contractor shall at all time indemnify and save harmless the Authority against all claims, damages and compensation under the Workmen Compensation Act. 1923 as amended from time to time or in other Law for the time being in force and Rules there-under from time to time and also against all costs, charges and expenses of any smooth action by proceedings arising out of such accidents or injury, disability or death of a workmen and against all sum or sums which may with the consent of the contractor be paid to compromise or compound any claim in this regard. If any award, decree or order is passed against the contractor for recovery of any compensation under the Workmen Compensation Act, 1923, for any injury, disability or death of a workman by any competent court, the said sum or sums shall be deducted by the Engineer-in-Charge from any sum then due or that may become due to the contractor or from his security deposit or sale thereof in full or part under the

contract or any other contract with the Authority towards fulfillment of the said decree, award or orders.

- 25.12 Provided always that the contractor shall have no right to claim payments/claims whatsoever on account of his compliance with his obligations under this clause and Labour Regulations.
- 25.13 The contractor shall not otherwise than in accordance with the statutes ordinance and Government Regulations or orders for the time being in force import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs to permit or suffer any such import, sale, gift, barter or disposal by his sub-contractor, agent or employees.
- 25.14 The contractor shall not give, barter or otherwise dispose of to any person or persons any arms or ammunition of any kind or permit to suffer the same as aforesaid.
- 25.15 The Contractor shall employ for the execution of the works only such persons as are skilled and experienced in their respective trades and Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any persons employed by the Contractor for the execution of the works who, in the opinion of the Engineer-in-Charge, misconduct himself or is incompetent or negligent in the proper performance of his duties. The contractor shall forthwith comply with such requisition and such person shall not be again employed upon the works without permission of the Engineer-in-Charge.
- 25.16 **Release of Security deposit after labour clearance:** Security deposit of the work shall not be refunded till six month from the date of expired of the contract agreement. If any complaint is pending against the contractor in respect of the labour dispute for this work, then the same shall be met out by the contractor at his own level and risk & cost. If no complaint is pending on record till after three months after completion of work and/or no communication is received from Labour Officer to this effect till six months after the date of completion, it will be deemed to have no complained pending against the labour and the security deposit shall be released by IWAI.

CLAUSE – 26: MATERIALS OBTAINED FROM EXCAVATION SUCH AS COINS, FOSSILS, ETC.

- 26.1 Materials of any kind obtained from excavation on the site shall remain the property of the Authority and shall be disposed off as directed by the Engineer-in-Charge.
- 26.2 However if any of the materials thus obtained from excavation on the site is such as can be used in the execution of the work under the contract, the contractor will be allowed to use the same free of cost (except that any amount of royalty paid for in this regard by the Authority shall be recoverable from the contractor) for the aforesaid purpose provided the same is found suitable and is approved by the Engineer-in-Charge.

- 26.3 Fossils, coins, articles of value, structures and other remains or things of geological or archeological interest discovered on the site shall be the absolute property of the Authority. The contractor shall take reasonable precautions to prevent his labour or any other person from removing or damaging any such article or thing and shall acquaint the Engineer-in-Charge with such discovery and carryout the Engineer-in-Charge's directions as to the disposal of the same at the expense of the Authority.

CLAUSE – 27: FORCE MAJEURE

- 27.1 The term Force Majeure shall herein mean Riots (other than among the contractor's employees), Civil Commotion (to the extent no insurable), war (whether declared or not), invasion, act of foreign enemies, hostilation, civil war, rebellion, revolution, insurrection, military or usurped power, damage from aircraft, nuclear fission, acts of God, such as earthquake (above 7 magnitude on Richter Scale), lightning, unprecedented floods, fires not caused by contractor's negligence and other such causes over which the contractor has no control and are accepted as such by the Engineer-in-Charge, whose decision shall be final and binding. In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under this contract, the relative obligation of the party affected by such Force Majeure shall be treated as suspended for the period during which such Force Majeure cause lasts, provided the party allowing that it has been rendered unable as aforesaid, thereby shall notify within 15 days of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of such cause.
- 27.2 For delays arising out of Force Majeure, the bidder shall not claim extension in completion date for a period exceeding the period of delay attributable to the causes of Force Majeure and neither the Authority nor the bidder shall be liable to pay extra costs provided it is mutually established that Force Majeure conditions did actually exist.
- 27.3 If any of the Force Majeure conditions exists in the places of operation of the bidder even at the time of submission bid, he shall categorically specify in his bid and state whether they have been taken into consideration in their quotations.

CLAUSE - 28: LIABILITY FOR DAMAGE, DEFECTS OR IMPERFECTIONS AND RECTIFICATION THEREOF

- 28.1 If the contractor or his labour or his sub-contractor, injure, destroy or damage, battery, solar panel, lighting system, road, fence, enclosures, water pipe, cables, buildings, drains, electricity or telephone posts, wires, trees, grass line, cultivated land in the area in which they may be working or in the area contiguous to the premises on which the work or any part of it is being executed or if any damage is caused to any item belonging to IWAI or to any person during the progress of work, the Contractor shall upon receipt of a notice in writing in that behalf from the Engineer-in-Charge, make good the same at his cost.
- 28.2 If it appears to the Engineer-in-Charge or his representative at any time during the progress of work or prior to the expiration of the Defects Liability period that any work has been executed with unsound, imperfect or unskilled workmanship or that any materials or articles provided by the Contractor for execution of the work are unsound or of a quality inferior to that contracted for, or otherwise not in

accordance with the Contract, or that any defect, shrinkage or other faults found in the work arising out of defective design or defective/ improper materials or workmanship, the Contractor shall, upon receipt of a notice in writing in that behalf from the Engineer-in-Charge forthwith rectify or remove and reconstruct the work so specified in whole or in part, as the case may be, and/or remove the materials/articles so specified and provide other proper and suitable materials at his expense.

- 28.3 All damages caused by accidents or carelessness of the contractor or any of his employees or any property belonging to the Authority is wasted or is misused by the contractor or any of his employees shall be to the account of the contractor, who shall make good the loss.

CLAUSE – 29: CONTRACTOR'S LIABILITY AND INSURANCE

- 29.1 From commencement to completion of the work(s) as a whole, the Contractor shall take full responsibility for the care thereof and for taking precautions to prevent loss or damage. He shall be liable for any damage or loss that may happen to the works or any part thereof and to the Authority's Plant, Equipment and Material (hired or issued to the Contractor) shall be in good order and condition and in conformity in every respect with the requirements of the Contract and instructions of the Engineer-in-Charge.

- 29.2 i) Neither party to the contract shall be liable to the other in respect of any loss or damage which may occur or arise out of "Force Majeure" to the works or any part thereof on to any material or article at site but not incorporated in the works or to any person or anything or material whatsoever or either party provided such a loss or damage could not have been foreseen or avoided by a prudent person and the either party shall bear losses and damages in respect of their respective men and materials. As such liability of either party shall include claims/ compensations of the third party also.
- ii) Provided, however, in an eventuality as mentioned in sub-clause - 29.2 (i) above, the following provisions shall also have effect:
- (a) The Contractor shall, as may be directed in writing by the Engineer-in-Charge proceed with the completion of the works under and in accordance with the provisions and conditions of the contract, and
- (b) The Contractor shall, as may be directed in writing by the Engineer-in-charge, re-execute the works lost or damaged, remove from the site any debris and so much of the works as shall have been damaged and carry the Authority's T & P, Plant and Equipment, Material etc. to the Authority's store. The cost of such re-execution of the works, removal of damaged works and carrying of Authority's store shall be ascertained in the same manner as for deviations and this shall be ascertained in the same manner as for deviations and this shall be added to the contract sum. Provided

always that the Contractor shall, at his own cost, repair and make good so much of the loss or damage as has been occasioned by any failure on his part to perform his obligations under the contract or not taking precautions to prevent loss or damage or minimise the amount of such loss or damage, Final assessment of loss or damage shall be decided by the Engineer-in-Charge and his decision shall be final and binding.

- 29.3 The contractor shall take special precautions to see that public places and roads adjacent to contractor's yard are not blocked at anytime either by his material or by his workmen. The roads are to be kept always clear and no equipment/materials shall be stacked.
- 29.4 The navigable waterways shall not be blocked by Contractor's vessels. The anchors dropped in the waterways shall be properly marked and removed after done with.
- 29.5 The contractor shall indemnify and keep indemnified the Authority against all losses and claims for death, injuries or damage to any person or any property whatsoever which may arise out of or in consequence of the construction and maintenance, of works during the contract period and also against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto, and such liabilities shall include claims/compensations of the third party.
- 29.6 (a) Before commencing execution of the work, the Contractor shall without in any way limiting his obligations and responsibilities under this condition, insure against any damage, loss or injury which may occur to any property (excluding that of the Authority but including the Authority building rented to the contractor wholly or in part and any part of which is used in part and any part of which is used by him for storing combustible materials) public liability by arising out of the carrying out of the contract. For this purpose the contractor shall take out, pay all costs and maintain throughout the period of his contract public liability with the following coverage.
- i) Public liability limits for bodily injury or death not less than Rs. 1,00,000 for one person and Rs. 2,00,000 for each accident.
 - ii) Property liability limits for each accident not less than Rs. 1,00,000 ;
 - iii) The Contractor shall prove to the Engineer-in Charge from time to time that he has taken out all the insurance policies referred to above and has paid the necessary premiums for keeping the policies alive till expiry of the Defects Liability Period.
- (b) The Contractor shall ensure that similar insurance policies are taken out by his sub-contractor (if any) and shall be responsible for any claims or losses to the Authority resulting from their failure to obtain adequate insurance protection in connection thereof. The Contractor shall produce or cause to be produced by his sub-contractors (if any) as the case may be, relevant, policy

or policies and premium receipt as and when required by the Engineer-in-Charge.

- (c) If the contractor and/or his sub- contractor (if any) shall fail to effect and keep in force the insurance referred to above or any other insurance which he/they may be required to effect under the term of the Contract then and in any such case the Authority may, without being bound to effect and keep in force any such insurance and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount so paid by the Authority from any moneys due or which may become due to the contractor or recover the same as a debt due from the contractor.
- (d) The contractor shall at his own expense arrange for the safety provisions as required in respect of the works covered under this contract as per the instruction of Engineer-in-charge. In case, the contractor fails to comply with the provisions of the safety the Engineer- in-Charge shall be entitled to and make the necessary arrangements at the risk and cost of the contractor. This will, however, not absolve the Contractor of his overall responsibility to execute the works under the contract.

CLAUSE – 30: SUSPENSION OF WORKS

- 30.1 The contractor shall on the receipt of order of the Engineer-in-Charge (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time or times and in such manner as the Engineer-in-Charge may consider necessary.
- 30.2 The suspension of the work can be done by Engineer-in-Charge for any of the following reasons:
 - (a) On account of any default on the part of the contractor or
 - (b) for proper execution of the works or part thereof for the reasons other than the default of the contractor or
 - (c) for the safety of the works or part thereof.
- 30.3 The contractor shall during the suspension period, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-Charge.
- 30.4 If the suspension is ordered for the reasons under the Clause 30.2(b) and (c) above, the contractor shall be entitled to the extension of time equal to the period of every such suspension Plus 25% for the completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which suspended work forms a part

CLAUSE – 31: FORECLOSURE OF CONTRACT IN FULL OR IN PART DUE TO ABANDONMENT OR REDUCTION IN SCOPE OF WORK

If at any time after acceptance of the tender the Authority decides to abandon or reduce the scope of the works for reason whatsoever and hence does not require the whole or any part of the works to be carried out, the Engineer-in-Charge (with the prior approval of competent authority mentioned in scheduled 'B') shall give notice in writing to that effect to the contractor and the Contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he could not derive in consequence of the fore closure of the whole or part of the works.

CLAUSE – 32: TERMINATION OF CONTRACT ON DEATH

If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies, or if the Contractor is a partnership concern and one of the partners dies, then, unless the Engineer-in-Charge is satisfied that the legal representatives of the individual contractor or of the proprietor of the proprietary concern and in the case of partnership, the surviving partners are capable of carrying out and completing the contract, the Engineer-in-Charge shall be entitled to terminate the Contract as to its incomplete part without the Authority being in anyway liable to payment of any compensation whatsoever on any account to the estate of the deceased Contractor and/or to the surviving partners of the Contractor's firm on account of termination of the Contract. The decision of the Engineer-in-Charge that the legal representatives of the deceased contractor or the surviving partners of the Contractor's firm cannot carry out and complete the works under the contract shall be final and binding on the parties. In the event of such termination, the Authority shall not hold the estate of the deceased Contractor and/or the surviving partners of the Contractor's firm liable for damages for not completing the contract. Provided that the power of the Engineer-in-Charge of such termination of contract shall be without prejudice to any other right or remedy which shall have accrued or shall accrue to him under the contract.

CLAUSE– 33: CARRYING OUT PART OF WORK AT THE RISK AND COST OF THE CONTRACTOR

33.1 If the contractor

- (i) At any time makes default during the currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-in-Charge; **or**
- (ii) Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer-in-Charge; **or**
- (iii) Fails to complete the work (s) or items of work with individual dates of completion, on or before the date (s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge.

33.2 The Engineer-in-Charge without invoking action under clause 36 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to IWAI, by a notice in writing to take the part work/part incomplete work of any item (s) out of his hands and shall have powers to:

- (a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/ or
 - (b) Carry out the part work/ part incomplete work of any items (s) by any means at the risk and cost of the contractor.
- 33.3 The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item (s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by IWAI because of action under this clause shall not exceed 10% of the tendered value of the work.
- 33.4 In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same number and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the IWAI are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.
- 33.5 Any excess expenditure incurred or to be incurred by IWAI in completing the part work/ part incomplete work of any item (s) or the excess loss of damages suffered or may be suffered by IWAI as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to IWAI in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.
- 33.6 If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract.
- 33.7 In the event of the above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.

CLAUSE - 34: COMPLETION TIME AND EXTENSIONS

- 34.1 The Engineer-in-Charge will make available to the contractor the site to enable the contractor to commence & proceed with the execution of the work in accordance with agreed programme. If there is any delay in making available any area of the work or the delays mentioned in Para 34.4, the competent authority as specified in schedule 'B' on the recommendations of

the Engineer-in-Charge shall grant reasonable extension of time for completion of work. However, in case of the contracts having tendered value beyond Rs. 50 lakhs, if the total extension involved due to delay is upto 1/3rd of the stipulated period of completion then the Engineer-in-Charge shall decide the extension and convey the same to the contractor. But the contractor shall not claim any compensation whatsoever on this account.

- 34.2 If after the award of the work the contractor commits defaults in commencing the execution of work as aforesaid, Govt. shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money & performance guarantee absolutely.
- 34.3 As soon as possible after the Contract is concluded, the Contractor shall submit a Time and Progress Chart get it approved by the Department. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work.
- 34.4 However, if the work (s) be delayed by:-
- (i) Force majeure as per clause 27, or
 - (ii) Abnormally bad weather, or
 - (iii) Serious loss or damage by fire, or
 - (iv) Civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or
 - (v) Delay on the part of other contractors or tradesman engaged by Engineer-in-Charge in executing work not forming part of the contract, or
 - (vi) Non-availability of stores, which are the responsibility of Government to supply or
 - (vii) Non-availability of breakdown of Tools and Plant to be supplied or supplied by Government or
 - (viii) Any other cause which, in the absolute discretion of the Engineer-in-Charge is beyond the Contractor's control.

then immediately upon the happening of any such events as aforesaid, the contractor shall inform the Engineer-in-Charge accordingly, but the contractor shall nevertheless use constantly his best endeavors to prevent and/or make good the delay and shall do all that may be required in this regard. The Contractor shall also request, in writing, for extension of time, to which he may consider himself eligible under the contract, within fourteen days of the date of happening of any such events as indicated above.

- 34.5 In case the cost of the work is more than 10 crores than the total scope of work will be divided into milestones. The contractor shall submit a Time & Progress chart for each milestone and get it approved by the competent authority.
- 34.6 Request for rescheduling of Mile stones and extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed form to the competent authority as indicated in Schedule 'B'. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.

- 34.7 In any such case as may have arisen due to any of the events, as aforesaid, and which may have been brought out by the contractor in writing, the Competent Authority mentioned in Scheduled 'B' may give a fair and reasonable extension of time, after taking into consideration the nature of the work delayed and practicability of its execution during the period of extension.
- 34.8 Such extensions shall be communicated to the contractor by the Engineer-in-Charge in writing. The contractor shall not be entitled to claim any compensation or over run charges whatsoever for any extension granted.

CLAUSE – 35: LIQUIDATED DAMAGES FOR DELAY

- 35.1 If the contractor fails to maintain the required progress in terms of clause 34 or to complete the work and clear the site on or before the date of completion as per the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the authority on account of such breach, pay as agreed liquidated damages the amount calculated at the rates stipulated below.

- (i) Liquidated Damages @ 1.5 % per month of delay
for delay of work to be computed on per day basis

Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the Tendered Value of work.

The competent authority mentioned in Schedule 'B' (whose decision in writing shall be final & binding) may decide on the amount of tendered value of the work for every completed day/month (as applicable) that the progress remains below that specified in Clause 34 or that the work remains incomplete.

The amount of liquidated damages may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the authority.

- 35.2 In case of contracts having tendered amount more than 10 crores, if the contractor does not achieve a particular milestone mentioned in schedule 'B', or the re-scheduled milestone(s) in terms of Clause 34.6, the amount shown against that milestone shall be withheld, to be adjusted against the liquidated damages levied at the final decision on Extension of Time. With-holding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.
- 35.3 In case of contracts having tendered amount less than 10 crores, if the work remains incomplete after the stipulated date of completion, the Engineer-in-charge may withheld 10% of the tendered value of the work from the running

payments of the contractor pending final decision of the competent authority mentioned in schedule 'B' on the extension of time case. If the competent authority decides to grant extension of time without levy of liquidated damages or levy part of the total liquidated damages specified above then the balance withheld amount after adjusting the amount of the liquidated damages levied by the competent authority will be refunded to the contractor.

CLAUSE – 36: WHEN THE CONTRACT CAN BE DETERMINED

36.1 Subject to other provisions contained in this clause, the Engineer-in-Charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

- (i) If the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or unworkman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.
- (ii) If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence so that in the opinion of the Engineer-in-Charge he will be unable to secure completion of the work by the date for completion and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.
- (iii) If the contractor fails to complete the work within the stipulated date or items of work with individual date of completion, if any stipulated, on or before such date(s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge.
- (iv) If the contractor persistently neglects to carry out his obligations under the contract and/ or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge.
- (v) If the contractor shall offer or give or agree to give to any person in IWAI service or to any other person on his behalf any gift or 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 execution of contract.
- (vi) If the contractor shall enter into a contract with IWAI in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge.

- (vii) If the contractor shall obtain a contract with IWAI as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits breach of integrity pact.
- (viii) If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.
- (ix) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.
- (x) If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.
- (xi) If the contractor assigns, transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer -in-Charge.

When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-Charge on behalf of the IWAI with the approval of the competent authority mentioned in schedule 'B' shall have powers:

- (a) To determine the contract as aforesaid (of which termination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, the Earnest Money Deposit, Security Deposit already recovered and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the IWAI.
- (b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work.

In the event of above courses being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any

engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

CLAUSE – 37: INSPECTION AND APPROVAL

- 37.1 All works involving more than one process shall be subject to examination and approval at each stage thereof and the contractor shall give due notice to the Engineer-in-Charge on his authorized representative, when each stage is ready. In default of such notice, the Engineer-in-Charge shall be entitled to appraise the quality and extent thereof and the decision of the Engineer-in-Charge in this regard shall be final and binding.
- 37.2 No work shall be put out of view without the approval of the Engineer-in-Charge or his authorized representative and the Contractor shall afford full opportunity for examination. The contractor shall give due notice to the Engineer-in-Charge or his authorized representative whenever any such work is ready for examination and the Engineer- in-Charge or his representative shall, without unreasonable delay, unless he considers it necessary and advise the contractor accordingly, examine and measure such work. In the event of the failure or the contractor to give such notice, he shall if required by the Engineer-in-Charge, uncover such work at the contractor's expenses.
- 37.3 Periodic inspection will be carried out by the EIC or his representative by their vessels. The contractor can have the inspection schedules finalized with the Engineer-in-charge. Generally all attempts should be made to have joint inspection and number of inspections be not less than three in a calendar month.

CLAUSE – 38: COMPLETION CERTIFICATE AND COMPLETION PLANS

- 38.1 The work shall be completed to the entire satisfaction of the Engineer-in-Charge and with in the specified time limit and under the terms and conditions of the contract. As soon as the work under the contractor is completed as a whole the contractor shall give notice of such completion to the Engineer-in-Charge. The Engineer-in-Charge shall inspect the work and shall satisfy himself that the work(s) has been completed in accordance with the provisions of the contract and then issue to the Contractor a certificate of completion indicating the date of completion. Should the Engineer- in-Charge notice that there are defects in the works or the works are not considered to be complete, he shall issue a notice in writing to the Contractor to rectify / replace the defective work or any part thereof or complete the work, as the case may be within such time as may be notified and after the contractor has complied with as aforesaid and gives notice of completion the Engineer-in-Charge shall inspect the work and issue the completion certificate in the same manner as aforesaid.

- 38.2.1 No certificate of completion shall be issued as stipulated above and no work be considered to be completed unless the contractor shall have removed from the work site and / or premises all his belongings / temporary arrangements brought / made by him for the site and / or premises in all respects and made the whole of the site and / or premises fit for immediate occupation / use to the satisfaction of the Engineer- in-Charge. If the contractor fails to comply with the above mentioned requirements on or before the date of completion of the work, the Engineer-in-Charge, may as he thinks fit and at the risk at cost of the contractor, fulfill such requirements and remove / dispose of the contractor's belongings / temporary arrangements, as aforesaid, and the contractor shall have no claim in this respect except for any sum realised by the sale of Contractor's belongings / temporary arrangements less the cost of fulfilling the said requirements and any other amount that may be due from the contractor. Should the expenditure on the aforesaid account exceed the amount realised by sale of such contractor's belongings / temporary arrangements then the contractor shall on demand pay the amount of such excess expenditure.
- 38.2.2 The contractor shall submit the completion plans of the work wherever required within 30 days of the completion of work. In case the contractor fails to submit completion plans as aforesaid, he shall be liable to pay a sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs.15000/- (Rupees fifteen thousand only) as may be fixed by Engineer-in-Charge concerned and in this respect the decision of the Engineer-in-Charge shall be final and binding on the contractor.

CLAUSE - 39: MEASUREMENTS

- 39.1 The Engineer-in-charge shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract.
- 39.2 Notwithstanding any provision in the relevant standard method of measurement or any general or local custom, measurement of work done under the contract shall be taken in accordance with the procedure set forth in the Technical Specifications or Schedule of Quantities under the contract. In case of items of work which are not covered by the Technical Specifications or Schedule of Quantities measurement shall be taken in accordance with the relevant standard methods of measurement laid down by the Bureau of Indian Standard.
- 39.3 All items having a financial value shall be entered in daily log book/ measurement book prescribed by the Authority so that the complete work performed under the contract is duly accounted.
- 39.4 Measurement shall be taken jointly by the Engineer-in-Charge or his authorised representative and by the contractor or his authorised representative.
- 39.5 Before taking measurements of any works, the Engineer-in-Charge or representative deputed by him for the purpose, shall give a reasonable notice to the Contractor. If the Contractor fails to attend or send an authorised representative for measurement after such notice or fails to countersign or to

record the objection within a week from the date of taking the measurements, in such eventuality the measurements taken by the Engineer-in-Charge shall be taken to be correct and final measurements of such works.

- 39.6 The contractor shall, without extra charge, provide assistance with every appliance, labour and other things necessary for measurement.
- 39.7 Measurements shall be signed and dated by both parties each day on the Site on completion of measurement. If the contractor objects to any of the measurement recorded by the representative of the Engineer-in-Charge a note to the effect shall be made in the item objected to and such note shall be signed and dated by both parties engaged in taking the measurement. The decision of the Engineer-in-Charge on any such dispute or difference or interpretation shall be final and binding on the contractor in respect of all contract items, substituted items, extra items and deviations.

CLAUSE – 40: PAYMENT ON ACCOUNT

- 40.1 Interim bills shall be submitted by the contractor monthly on or before the date fixed by the Engineer-in-Charge for the items of work completed. The Engineer-in-Charge shall then arrange to have the bills verified with reference to the measurements recorded in the measurement book(s).
- 40.2 Payment on account for amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment for the work executed, after deducting therefrom the amount already paid, the security deposit and such other amounts as may be withheld, deductible or recoverable in terms of the contract.
- 40.3 Payment of the contractor's bills shall be made by the Authority only in Indian Rupees within 30 days from the date of submission of the bill subject to the acceptance of the Engineer-in-Charge.
- 40.4 Payments due to the contractor shall be made by crossed cheque by the Engineer-in-Charge or his authorised representative. Such cheques shall be issued direct to the contractor on furnishing a stamped receipt for the amount of the cheque or to his constituted attorney duly authorised to receive such payments from the EIC.
- 40.5 Any interim certificate given relating to work done or materials delivered may be modified or corrected by any subsequent interim certificate or by the final certificate. No certificate(s) of the Engineer-in-Charge supporting an interim payment shall itself be conclusive evidence that any work or materials to which it relates is / are in accordance with the same.
- 40.6 Should there be a request for extension of date of completion, pending its consideration interim payments shall continue to be made as provided herein.
- 40.7 TDS at the applicable rates shall be deducted at source from any payment made to the contractor against this contract.

CLAUSE – 41: TAXES, DUTIES AND LEVIES ETC.

- 41.1 The prices shall include all the taxes, levies, cess, octroi, royalty, terminal tax, excise, except GST as applicable or any other local, State or Central taxes as applicable/ charged by Centre or State Government or Local authorities on all materials that the contractor has to purchase for the performance of the contract and services, shall be payable by the contractor and the Authority will not entertain any claim for compensation whatsoever in this regard. The rates quoted by the contractor shall be deemed to be inclusive of all such taxes, duties, levies, etc except GST as applicable. However, GST as applicable shall be reimbursed only on production of proof its remittance.

CLAUSE-42: TAX DEDUCTION AT SOURCE

- 42.1 TDS at the applicable rate as per Income Tax Act/Rules shall be deducted from all the payment/advances made against the contract.

CLAUSE – 43: PAYMENT OF FINAL BILL

The final bill shall be submitted by the contractor within one month from the date of completion of the work or of the date the certificate of completion furnished by the Engineer-in-Charge. No further claim in this regard unless as specified herein under shall be entertained. Payment of final bill shall be made within three months if the amount of the contract is up to Rs. 15 lakhs and six months if the value of the work exceeds Rs. 15 lakhs. If there shall be any dispute about any item or items of the work then the undisputed item or items only shall be paid within the said period of three months or six months, as the case may be. The contractor shall submit a list of the disputed items within thirty days from the disallowance thereof and if he fails to do so, his claim shall be deemed to have been fully waived and absolutely extinguished.

CLAUSE - 44: OVER PAYMENTS AND UNDER PAYMENTS

- 44.1 Whenever any claim whatsoever for the payments of a sum of money to the Authority arises out of or under this contract against the contractor, the same may be deducted by the Authority from any sum then due or which at anytime thereafter may become due to the contractor under this contract and failing that under any other contract with the Authority or from any other sum whatsoever due to the contractor from the Authority or from his security deposit, or he shall pay the claim on demand.
- 44.2 The Authority reserves the right to carry out post- payment audit and technical examination of the final bill including all supporting vouchers, abstracts, etc. The authority further reserves the right to enforce recovery of any over payment when detected notwithstanding the fact that the amount of the final bill may be included by one of the parties as an item of dispute before an arbitrator appointed under clause 48 of this contract and notwithstanding the fact that the amount of the final bill figures in the arbitration award.

- 44.3 If as a result of such audit and technical examination any over payment is discovered in respect of any work done by the contractor or alleged to have been done by him under contract, it shall be recovered by the Authority from the contractor by any of all of the methods prescribed above, and if any under payment is discovered, the amount shall be duly paid to the contractor by the Authority.
- 44.4 Provided that the aforesaid right of the Authority to adjust over-payment against amount due to the contractor under any other contract with the Authority shall not extend beyond the period of two years from the date of payment of the final bill or in case the final bill is a MINUS bill, from the date the amount payable by the Contractor under the MINUS final bill is communicated to the contractor.
- 44.5 Any sum of money due and payable to the Contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or Authority against any claim of the Authority or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Engineer-in-Charge or Authority or with such other person or persons. The sum of money so withheld or retained under this clause by the Engineer-in-Charge or Authority will be kept withheld or retained as such by the Engineer-in-Charge or Authority or till his claim arising out of in the same contract or any other contract is either mutually settled or determined by the arbitrator, if the contract is governed by the arbitration clause under the clause 48 or by the competent court hereinafter provided, as the case may be, and the contractor shall have no claim for interest or damages whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause.

CLAUSE – 45: FINALITY CLAUSE

It shall be accepted as an inseparable part of the contract that in matters regarding design, materials, workmanship, removal of improper work, interpretation of the contract drawings and contract specifications, mode of procedure and the carryout out of the work the decision of the Engineer-in-Charge which shall be given in writing shall be final and binding on the contractor.

CLAUSE – 46: SUM PAYABLE BY WAY OF COMPENSATION TO BE CONSIDERED IS REASONABLE WITHOUT PREFERENCE TO ACTUAL LOSS

All sum payable by way of compensation to the Authority under any of these conditions shall be considered as reasonable compensation without reference to the actual loss or damage sustained and whether or not damage shall have been sustained.

CLAUSE - 47: SETTLEMENT OF DISPUTES & ARBITRATION.

- 47.1 Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instructions here-in-before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, design, drawings, specifications, estimates, instructions, orders or these conditions or

otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:

- (i) If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawings, record or decision given in writing by the Engineer-in-Charge on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable, he shall promptly within 15 days of the receipt of decision from the Engineer-in-Charge request the Chief Engineer in writing through the Engineer-in-Charge for written instruction or decision. Thereupon, the Chief Engineer shall give his written instructions of the decision within a period of one month from the receipt of the contractor's letter. However, this will not be reason for the stoppage of work.
- (ii) If the Chief Engineer fails to give his instructions or decision in writing within the aforesaid period or if the contractor is dissatisfied with the instruction or decision of the Chief Engineer, the contractor may, within 15 days of the receipt of Chief Engineer's decision, appeal to the Chairman, IWAI who shall afford an opportunity to the contractor to be heard, if the latter so desires, and to offer evidence in support of his appeal. The Chairman, IWAI shall give his decision within 30 days of receipt of contractor's appeal. If the contractor is still dissatisfied with his decision, the contractor shall within a period of 30 days from receipt of the decision, give notice to the Chairman, IWAI for appointment of arbitrator on prescribed proforma as per Appendix V, failing which the said decision shall be final binding and conclusive and not referable to adjudication by the arbitrator.

47.2 Except where the decision has become final, binding and conclusive in terms of Sub Para 47.1 above, disputes or differences shall be referred for adjudication through arbitration by a sole arbitrator appointed by Chairman, IWAI.

47.3 Further, within thirty (30) days of receipt of such notice from either party, the Engineer-in-Charge of work at the time of such dispute shall send to the Contractor a panel of three persons preferably but not necessarily from the approved panel of arbitrators being maintained by Indian Council of Arbitration (ICA) and thereafter the Contractor within fifteen (15) days of receipt of such panel communicate to the Engineer-in-charge the name of one of the persons from such panel and such a person shall then be appointed as sole arbitrator by the Chairman, IWAI. However, the arbitrator so appointed shall not be an officer or the employee of Inland Waterways Authority of India.

Provided that if the Contractor fails to communicate the selection of a name out of the panel so forwarded to him by the Engineer-in-charge then after the expiry of the aforesaid stipulated period the Chairman, shall without delay

select one person from the aforesaid panel and appoint him as the sole arbitrator.

- 47.4 The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, then the Chairman IWAI 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.
- 47.5 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.
- 47.6 The Arbitrator with the consent of the parties can enlarge the time, from, time-to-time to make and publish his award.
- 47.7 A notice of the existence in question, dispute or difference in connection with the contract unless served by either party within 30 days of the expiry of the defects liability period, failing which all rights and claim under this contract shall be deemed to have been waived and thus forfeited and absolutely barred.
- 47.8 The Arbitrator shall give reasons for the award if the amount of claim in dispute is Rs. 1,00,000/- and above.
- 47.9 The work under this Contract shall continue during Arbitration proceedings and no 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.
- 47.10 The Arbitration and Conciliation Act 1996 with any statutory modifications or re-enactment thereof and the rules made there under and being in force shall apply to the Arbitration proceedings under this clause.
- 47.11 The parties to the agreement hereby undertake to have recourse only to arbitration proceedings under for Arbitration Act 1996 and the venue of the arbitration proceeding shall be Kolkata and the parties will not have recourse to Civil Court to settle any of their disputes arising out of this agreement except through arbitration.

NOTE: In case of contract with another Public Sector Undertaking, 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 in terms of the Ministry of Industry, Department of Public Enterprises O.M No. 3/5/93-PMA dt.30.06.93 or any modifications / amendments thereof. "The arbitrator shall have the power to enlarge the term to publish 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.

CLAUSE - 48 : CLAIMS

- 48.1 The contractor shall send to the Engineer-in-Charge once in every month on account giving particulars, as full and detailed as possible of all claims for any additional payment to which the contractor may consider himself entitled and of all extra work or additional work ordered in writing and which has been executed during proceeding month.
- 48.2 No claim for payment of any extra work or expenses will be considered which has not been included in such particulars. The Engineer-in-Charge may consider payment for any such work or expense, where admissible under the terms of the Contract.
- 48.3 Any claim which is not notified in two consecutive monthly statements for the two consecutive months shall be deemed to have been waived & extinguished.

CLAUSE 49 : INTEREST

‘No interest shall be payable on account due to the contractor against final bills or any other payment due under the contract.

CLAUSE 50: INCENTIVE FOR EARLY COMPLETION.

In case, the contractor completes the work ahead of scheduled completion time, a bonus @1% (one per cent) of the tendered value per month computed on per day basis, shall be payable to the contractor, subject to a maximum limit of 5% (five per cent) of the tendered value. The amount of bonus, if payable, shall be paid along with final bill after completion of work. Provided always that provision of the Clause 50 shall be applicable only when so provided in Schedule ‘B’.

PART- III

TECHNICAL SPECIFICATIONS & SPECIAL CONDITIONS

A. OBJECTIVE AND SCOPE OF WORK

1. The Objective of the work is for Installation and Maintenance of 24 hrs. navigational system in Kolkata – Rajmahal stretch of National Waterway No.1 (River Ganga) for the year 2020-21 at nodal points all along the National Waterway No 1 between Kolkata to Rajmahal (443 Kms) to facilitate movement of propelled cargo vessels and other mechanized crafts. These lights (to be issued by IWAI free of cost), under the scope of this contract, operation & maintenance of 24 hrs. navigational aids which includes operation, maintenance and safe keeping of installed NN lights on M.S. Posts / concrete pole , navigational span of the bridges, Installation & maintenance of signage marks for river bends / obstructions on diffrents marks with recto reflected and conventional day marks in Kolkata – Rajmahal stretch of NW-1 which will include man, materials, tools & plants, etc. to be managed by contractor at their cost. M.S. Post & LED lights (to be issued by IWAI free of cost), on bamboo beacon to be fabricated and erected at site by the contractor at his cost on need basis and also erection of recto reflected marks as per require quantity as per site condition are under the scope of works.
2. Some of the solar lights under the scope of this contract (to be issued by IWAI free of cost), have to be erected along the river on MS poles/concrete poles (to be issued by IWAI free of cost) while other solar lights have to be erected on top of bamboo beacon (to be fabricated and erected at site by the contractor at his cost) on need basis as per requirement of site conditions. However, beacons lights(on MS plöse/concrete poles) of height 10/8 meters (Approx) which have already erected permanently by IWAI and are having concrete/jhama brick base will be handed over to the contractor at site and the contractor will have the responsibility to erect/maintain solar lights issued by the Authority from its store at Kolkata/Swaroopganj/Farakka. Further, recto reflective marks (signage marks) as require on bank of river as well as main navigable to be erected and maintained at bends, critical locations, caution/obstructions, hotspots area, etc as per specification, drawing and as per direction of EIC or his authorized representatives as per site condition.
3. **National Waterway No.1:** It extends from Sagar-Allahabad (1620Kms.) in river Ganga. The river Ganga carries floods during June to September when water hugs both high banks. The lean season in river Ganga extends from October to March. There is considerable difference between flood and lean season discharges and water level. The maximum water level difference is about **5-6** mts. The current in the river ranges from 0.5 to 2.5 m/s. However, the current during the lean season seldom exceeds 1.5 m/s. The bed material along the waterway comprises silt to sand. During lean season many channels are formed of which main channel is to be identified and marked for navigation. For navigation through the waterway both during day and night, navigational lights along with day light marks are to be installed and

maintained all along the navigational channel. Thus the above marking system will ensure round the clock navigation. **(The information is given in good faith. Tenderers are advised to make their own assessment. No claim due to this information shall be entertained).**

For Installation and maintenance of 24 hours navigational aids in waterway is divided into following stretches:

Sl No	Stretch	Distance (in river KM)
1	Kolkata –Rajmahal	433

4. To facilitate round the clock navigation of the vessels, IWAI is executing the scheme for operation of navigable channel by providing channel marks, Night navigational lights on MS/ Concrete poles , light on bridge spans, signage marks like drum buoys, Vessel guide posts, manned country boats, etc. But this year it is proposed to operation & maintenance of Recto Reflective marks in places of above signage mark as demanded by vessel operators.
5. *The quantity of the items of work to be executed in this tender may change as per the actual assessment of the time to time work requirement and hydraulic condition of the navigation channel. Hence a supplementary directive will be issued by the EIC of the work after the change in the season and before start of the season.*
6. **EXTENSION OF CONTRACT:** Under provisions of this contract, the work shall be initially awarded upto March 2022. However, IWAI shall reserve the rights to extend the contract for further period of another three successive years i.e. 2022-23, 2023-24 and 2024-25 to the successful contractor with enhancement of rates (as quoted by him during 2021-22) @ 5% (five percent) on each financial year at the agreed rates, same terms and conditions of the contract after getting willingness from the concerned contractor and subject to satisfactorily performance of the works.

SCOPE OF WORK:

1. Installation and maintenance of navigational Aids in National Waterway-1 is proposed between Kolkata-Rsjmahal sector at the following items:

Sl No	PARTICULARS	UNIT	QTY
1	NIGHT NAVIGATIONAL FACILITY		
1.10	Mobilization and Placement of Red & Green 2 NM & 5 NM navigational Lights mounted over structure/ concrete pole/M.S Pole/Steel post etc at specific locations on the waterway as per requirement		
1.11	Kolkata - Tribeni	Nos	34
1.12	Tribeni - Berhampur	Nos	265
1.13	Berhampur - Farakka	Nos	125
1.14	Farakka - Rajmahal	Nos	38
1.20	Operation, Maintenance and safe keeping of Night Navigation facilities (including Man power) with 2 NM light fitted on concrete pole, MS pole, on bridge spans, etc at specific locations on the waterway as per requirement for 6 months		
1.21	Kolkata - Tribeni (34 nos. x 6 months)	Each-Month	204
1.22	Tribeni - Berhampur (265 nos. x 6 months)	Each-Month	1590
1.23	Berhampur - Farakka (125 nos. x 6 months)	Each-Month	750
1.24	Farakka - Rajmahal (38 nos. x 6 months)	Each-Month	228
1.30	Mobilization and Placement of Night Navigational facility with 2NM/5NM Lights on Navigational Span of the 11 nos. Bridges and 2 nos. lights on each bridge span from Kolkata to Farakka at specified location on waterways.		
1.31	Kolkata - Tribeni (03 nos.)	Nos	3
1.32	Tribeni - Berhampur (1 nos.)	Nos	1
1.33	Berhampur - Farakka (7 nos.)	Nos	7
1.40	Operation, Maintenance and Safekeeping of 2NM/5NM Night Navigation Lights on Navigational Span of the 11 nos. Bridges from Kolkata to Farakka at specified location on waterways.		
1.41	Kolkata - Tribeni at 3 bridge x 6 months	Each-Month	18
1.42	Tribeni - Berhampur at 1 bridge x 6 months	Each-Month	6
1.43	Berhampur - Farakka at 7 bridge x 6 months	Each-Month	42
1.50	Repair maintenance and Painting of MS/Steel Posts as per requirement and as per direction of EIC.	Each	290

2	Day Navigation Aids (Conventional day marks)		
2.10	Erection of Channel Marks (Lean Season) (left/right hand/snag/channel closing mark) including materials, labours, tools and plant as per requirement and as per site conditions.		
2.11	Kolkata - Tribeni	Nos	30
2.12	Tribeni - Berhampur	Nos	220
2.13	Berhampur - Farakka	Nos	150
2.20	Maintenance of Channel Mark (Lean Season) (Left/right hand/snag/channel closing mark) including material, labour tools and plant for 6 months as per requirement and as per site conditions.		
2.21	Kolkata - Tribeni (30x6 months)	Mark-Month	180
2.22	Tribeni – Berhampur (220x 6 months)	Mark-Month	1320
2.23	Berhampur – Farakka (150x 6 months)	Mark-Month	900
3	SIGNAGE MARKS		
3.10	Erection of signage marks (left hand /right hand/land marks/cross marks, etc) with retro reflective stickers at bends, caution/obstruction, critical shoals, hotspot area, etc during October 2021 in place of vessel guide marks/posts, drum buoys, bamboo structures, boards placed on obstructions, country boats, etc as per site condition and as per requirement.		
3.11	Kolkata to Tribeni	Each	12
3.12	Tribeni to Berhampur	Each	84
3.13	Berhampur to Farakka	Each	49
3.20	Operation and maintenance of of signage marks (left hand /right hand/land marks/cross marks, etc) with retro reflective stickers at bends & caution/obstruction, critical shoals, hotspot area, etc during October 2021 to March 2022 in place of vessel guide marks/posts, drum buoys, bamboo structures, boards placed on obstructions, country boats, etc as per site condition and as per requirement for 3.5 months		
3.21	Kolkata to Tribeni (12x 6 months)	Mark-Month	72
3.22	Tribeni to Berhampur (84x 6 months)	Mark-Month	504
3.33	Berhampur to Farakka(49x 6 months)	Mark-Month	294

2. To facilitate round the clock navigation of the vessels, IWAI is executing the scheme for installing and maintaining solar charged navigation lights on the top of MS poles /concrete poles/**pipe beacons, etc** to be placed at different

locations along the National Waterway at selected stretches for marking navigable channel. The lights consist of fiber body, solar panel with rechargeable batteries along with navigation light and other accessories etc. The solar charged lights shall be supplied to the contractor by IWAI free of cost and MS poles /concrete poles/**pipe beacons, etc** to be handover to the contractor at the sites. The contractor has to take delivery, transport such items to different nodal points in the river as instructed by IWAI after survey and identification of the navigable channel. As regards the bamboo beacon, the contractor has to procure bamboo, fabricate the beacon tower, fix the position of the bamboo beacon by excavation, jamming and back filling and maintain the lights under care and supervision of a local villager on need basis if required as per site conditions.

3. The navigable channel of **45.00 m** width having depth more than **3.0 mts** is to be marked during flood and lean season using navigational lights coupled with day light marks. These solar charged navigation lights along with their supporting infrastructural arrangement (Steel/concrete poles/bamboo beacon towers, etc) are to be shifted to its required positions as and when navigational channel changes its course and therefore the tenderer has to deploy a team of river pilots with other related manpower equipped with mechanized vessel /boat for every 100 - 120 kilometer stretch. These teams will have to check the navigable channel at frequent interval, align and install the navigation lights and day light marks to ensure safe navigation. They will also have to coordinate with crews/masters of ODC carrying vessels, Tourism vessels, other cargo vessels using the waterways and if ordered by IWAI shall have to escort the vessels through their stretch ensuring safe navigation. IWAI officers and pilots shall have the right to use the mechanized crafts/boats of the contractors for supervision, inspection, escorting etc and therefore the mechanized crafts/boats of the contractors should have valid registration and survey certificate issued by the competent authority i.e the IWT Directorate.

B. TECHNICAL SPECIFICATIONS AND SPECIAL CONDITIONS

1.1 Night Navigational facilities

- 1 The contractor has to ensure erection of navigation lights in proper place suiting to the channel condition so that these lighted on MS poles/Concrete poles/pipe beacons/bamboo beacons assist movement of propelled vessels through the river route in a safe way. They shall also have to provide necessary safety cover to the navigation lights by deploying local villagers for round the clock safe keeping of navigation lights/beacon towers etc. The cost of providing such manning for safety arrangement shall be included in the rates quoted.
- 2 While IWAI shall supply the required solar charged LED lights and MS poles /Concrete poles/pipe beacons, etc will handover at site to the contractor free of any charge for erection and maintenance of the lights in the river, the contractor at his cost shall have to fabricate and maintain the bamboo beacons as per specification and drawing and no extra charges shall be payable to the contractor for fabrication and supply of the bamboo structures on need basis.

IWAI however, depending on the site conditions and scheme approval, gradually augment bamboo beacon to steel beacon. The contractor in such case have to take delivery of such steel beacons from IWAI from time to time and replace his bamboo beacons. No additional amount shall also payable for such action by the contractor and he shall only be paid the charges for maintenance of these beacons along with lights. After the expiry of the contract the contractor has to deposit all lights issued to him to IWAI and leave the beacons towers in the field for continuation of their maintenance by the department or by any other agency as appointed by IWAI from time to time.

3. **In case of any theft or damage to the solar paneled lights or steel/concrete beacon towers supplied by IWAI, the cost of such materials, as per record of IWAI, shall be deducted from the amount payable to the contractor. The contractor shall therefore have to take all necessary arrangement for safe keeping of the materials as handed over to him by IWAI.**
4. The lights as installed and maintained by the contractor as per guidance of the Engineer In Charge shall have to be placed at such location so that the same indicates the safe navigable channel to the barges/vessels using the waterway. For such action the navigational lights shall be erected on the top of the following structures/installations as detailed below:

- i) **Steel beacon towers of height 11.5 mts (Approx. 10 mts.from the top of the ground) and concrete beacon tower of height 8.5 mtr (Approx. 7.5 mtr from the ground):**

The contractor has to take delivery of these solar operated LED lights from IWAI, Kolkata Office or in any other suitable location by IWAI and transport the same to the site as required by mechanized boats and erect the same on top of beacon lights on the bank very close to the channel for providing guidance to the vessels. After erection the contractor has to maintain the beacon tower along with the light at the location which shall also include safe keeping (However in case any light is not functioning, the same have to be removed by the contractor, be handed over to IWAI at Swaroopgunj/ Farakka/Kolkata and also take a replacement light from IWAI and refitted the same on beacon tower. With fluctuation of water level and change in the course of the river, the contractor has to shift and re-erect the beacon tower on the bank of the river at appropriate location. A general arrangement drawing of typical steel shore beacon with light is given at **Annexure-VIII**.

- ii) **Navigational Lights on bridge Spans**

The contractor has to fabricated and erect navigation LED lights of appropriate type (Left/Right hand Mark) at 11 bridge span between Kolkata and Rajmahal sector for smooth and safe crossing of the bridge at day/night by Cargo vessels/ODC vessels/Tourist vessels, etc.

iii) **Navigational lights on Bamboo Beacon Towers with 4 meters height (from top of the ground level): on need basis.**

On need basis the contractor shall have to make its own beacon towers as per drawing using suitable length bamboo along with cut bamboo poles and strips as per drawing as enclosed herewith /as per photograph as enclosed and install/ maintain the navigational lights on the top of the bamboo beacon towers. The contractor has to bear all expenditure for men and material for erection of bamboo beacon tower, installing the solar charged navigation light on the top of the same including maintenance of the light along with security arrangement. A general arrangement drawing of a typical bamboo shore beacon with light is given at **Annexure-IX**.

- iv) The contractor has to identify the navigable channel all along the beat and as suggested by the Authority. The vessels should be able to see its position from a long distance at night without any difficulties.
- v) The contractor shall also have to ensure that with the rise and fall of water level and with the changes of orientation of navigable channel; these beacons are also re-oriented in their position. Incase any beacon tower is under threat of erosion by the river or if the same gets uprooted due to any reason, the contractor shall ensure that the same is withdrawn from such site, kept under his safe custody, and again re erected in a suitable location as directed by the engineer in charge or his representative. Incuse there is any theft/damage to the beacon towers /lights issued by IWAI to the contractor, the cost of the same shall be deducted from the contactor.
- vi) The contractor shall be responsible for the safety of the navigation light system and steel beacon towers after the same are issued to him or hand over to him. He shall have to hand over all lighting systems & the lists steel beacons location wise to the store of the Authority at Farakka/Swaroopgunj(Ch.280 Km)/Kolkata and obtain a 'No Dues Certificate' after expiry of work order or as per instruction of EIC if required. The said 'No Dues Certificate' is required to be submitted to the Authority for release of his security deposit. If any deficiency than the amount for the same shall be deducted from the Final bill/SD amount of the contractor.
- vii) Night navigational lighting equipment & steel beacon towers will be issued by the Authority but all cases of theft/pilferage the same shall have to be reported to the Police Station by the contractor as soon as any such incident occurs. While submitting F.I.R. to the Police Station, if any assistance is required by the contractor the same will be provided by E.I.C. **However, for the loss of navigational lighting equipment and steel/concrete poles beacons, the contractor will be solely responsible and the cost will be deducted from the running bill.**
- viii) The contractor shall ensure that his inspection teams along with his mechanized boats for making inspection both at night and at day to ensure proper functioning of the lighting system and positioning of marks to

ensure the safety vessels on top priority. IWAI shall have the right to travel by the mechanized boat of the contractor for the purpose of inspection and checking. The mechanized boats engaged by the contractor shall therefore have to be equipped with accommodation facility, small toilet and kitchen. No charges shall be payable by IWAI towards such facilities.

- ix) **As per need basis the contractor shall also have to provide pilot the safe movement of all cargo/ODC/Tourist vessels passing through his stretch and for each movement one mechanized vessel/boat with one pilot have to be deployed by the contractor for escorting and piloting each flotilla of cargo/ODC/Tourist vessel passing through his stretch. No charges shall be payable by IWAI towards such facilities**

5. If there is any theft/damage/ pilferage of the navigational lights/steel beacon as supplied by IWAI, the cost of the same will be deducted from the immediate next running bill of the contractor. Incase there is receipt of the claim recoverable amount by IWAI from the insurance company, the same amount will be reimbursed to the contractor, which was deducted from his running account bill towards theft/damage/ pilferage of the navigational lights. However IWAI reserves the right to undertake any insurance policy for the lights/steel beacon towers and the contractor shall be solely responsible to provide security for the navigation lights/beacon towers or buoys as is supplied by IWAI to the contractor.
6. The contractor shall make his own arrangements for protecting the works during the course of installation and operation. During the process of work the contractor shall provide such precautionary and protective works at his own cost to protect the lighting equipments from the rough weather and the contractor shall be solely responsible for any damage, which may occur due to contractor not taking necessary protective steps.
- 7) The contractor shall submit the rate analysis for the work/sub item in case the Department requires for the same during a negotiation.
- 8) The contractor shall forthwith dispatch, raise and remove any plant (floating or otherwise) belonging to him or to any person employed by him which may be sunk in the course of execution and completion of the works or otherwise deal with the same as the E.I.C. and the representative may direct, until the same shall be raised and removed, the contractor shall display at night search lights and do all such things for the safe navigation as may be required by the department. In event of the contractor not carrying out the obligations imposed upon him by this clause, the E.I.C. shall raise and remove the same (without prejudice to the right of the department to hold the contractor liable) and the contractor shall pay to the department all costs incurred in connection therewith.
- 9) The progress of the work at each stage shall be subject to the approval of the EIC whose decision as to the rate of progress at each stage shall be final and binding on the contractor. The EIC reserves to himself the right to cancel the contract for unsatisfactory progress in the work at any stage.

- 10) The contractor shall maintain at each stretch one Inspection Register for recording details of navigational lights like battery, solar panel, light etc and which is must and required for replacement/charging/ repairing/tightening/ fitting etc as the navigational lights are in warranty repair period/ under AMC and to be produced by the contractor or his agent whenever called upon to do so by the EIC or his representative during their inspection of the work. If the rectification ordered to be done are not carried out within a time specified, the EIC shall have the right to get the same done through a third party and recover the expenditure incurred in the same from the any payment due to the contractor or the security deposit. And also maintained a separate register for MS steel/Pipe beacon/Concrete towers along with their location for any loss/damage, etc during the contract period. This inspection register shall be the duplicate copying type so that one copy of the entries are retained in the EIC's office.
- 11) The contractor shall get the payment for monthly operation & maintenance of lights based upon the certification as issued by the engineer in charge or his representative after the due inspections.
- 12) However, for the operation during the initial month and the last month shall be considered with a partial operation during the calendar month based on the actual number of days against the month
- 13) The contractor shall at his risk and cost, make all arrangements for locating the navigable channels, sand churs, snags etc. by means of regular soundings along the river and change the position of the lights to indicate the navigable channel for the vessels operating in that stretch.
- 14) **Navigational lights are termed as green light (left side along the current) and red light (right side along the current) are of variable nature and this can be determined only after conducting the survey in the field. However the total no. of navigational lights shall not exceed the number indicated in the contract.**
- 15) The contractor shall be liable to bear the expenditure of all manpower, material and equipment required for the work at his cost. He must, therefore, have thorough knowledge about the work prior to submission of his rates. No extra claim in this regard shall be entertained once the contract has been awarded. The navigational lights after initial installation shall be operated for the complete period of contract. However, the operation period can be extended or curtailed at the discretion of EIC.
- 16) The Contractor shall ensure provision of boats, majhies, in their respective beat/ reach so as to maintain and operate the required number navigational lights. They should also ensure that necessary security provision for the beacon towers are provided by them by engaging local villagers to avoid theft/damage to them. Depending on the site condition the contractor may also have to arrange necessary shed for his employees near the steel/bamboo beacon towers for providing shelter.

- 17) Contractor shall intimate in writing the installation of navigational light immediately after completion within two days to enable EIC for arranging for the inspection of the same. The EIC or his representative shall inspect immediately and file a certificate accordingly.
- 18) The completion period for installation of entire stretch for navigational lights is **20 days**, inclusive of the mobilization period from the date of order of intimation to the contractor by the EIC or his representative. The navigational lights shall be inspected on any day from the date of receipt of intimation about completion of installation of the navigational lights in the particular beat. Full payment for installation of navigational lights shall be done only after the inspection provided the number of lights found is 100% of the number specified for the beat. In case, the number of lights found are less than that specified, the contractor shall immediately set right the same and inform the EIC for same. The payment towards installation shall be released only after EIC or his authorized representative inspects and certifies that the number of navigational lights erected is same as the number specified. The operation shall start after 100% lights are installed to the satisfaction of EIC. Operation of the lights shall be paid after verification of successful operation of the lights and marks for every month. The contractor or his authorized representative shall have to accompany the officer in-charge during every inspection days. In case the contractor fails to attend the inspection trip he shall be liable to accept the measurement recorded during the inspection.
- 19) Navigational lights erected or operated in wrong position or without purpose shall not be considered for payment.
- 20) Transportation of men and material and delivery of the materials shall be under the scope of contractor. Any delays encountered in the transportation/mobilization of the men and material shall be accounted to the contractor.
- 21) The contractor should deploy sufficient mechanized inspection boats for close monitoring and the contractor shall facilitate such inspection duly deploying representative along with proper manpower.
- 22) In case the contractor fails to operate the erected/re-erected navigational lights and conventional bamboo marks according to the specification and direction given by the EIC / his representatives from time to time, E.I.C. shall be free to cancel the entire or part operating cost as the case may be and security amount deposited for the same shall be forfeited. In addition, the EIC reserves the right to operate the installed / re-positioned lights for the entire stipulated period through other agencies. In such an event the contractor shall be allowed to remove the material used in the initial installation / re-installation of lights only after completion of the stipulated operating period.
- 23) Payment against each beat shall be done after inspection and verification by the E.I.C. or his representative on completion of the installation work, in entire stretch.

- 24) The navigable channel shall be at least 45m wide (30m wide at shoals) and 3.0 meter deep.
- 25) Where straight reach is available navigational light shall be placed at longer distance but shall be visible from previous lights.
- 26) For marking the main channel passing through the shoal/churs, the navigational light shall be placed in water close to the main navigational channel.
- 27) The contractor shall bear full responsibility for the intimation to the EIC forthwith of any accident and take all necessary action required under relevant Acts and Rules, Marine Rules etc. as the case may be. The contractor shall also report such accidents to the competent Authority wherever such reports are required under rules. The EIC or his representative must however, be informed immediately in the event of any marine accident. The contractor should also bear full responsibility for all accident, damages or injury caused to any of the IWAI's employees, cause of which is established as due to contractor's carelessness or negligence.
- 28) It has been proposed that the entire stretch shall be inspected at least two times in a month for very close monitoring and the contractor shall facilitate such inspection duly deploying his representative along with the IWAI inspection team.
- 29) It must be noted that in each beat during two inspections at least 95% lights and conventional bamboo marks should be available during each inspection in a month.
- 28.1 The payment of monthly operational cost for Navigational lights shall be as follows: -
 - a. If during a month the lights seen in all the 2 inspections are 95% or above in the specified beat operational cost is payable for the full month for the lights actually seen in the beat limited to the least number observed during two inspections.
 - b. No monthly operational cost shall be payable for the full month if the lights seen are less than 95% respectively in any 2 inspection during a month.

1.2 Day channel marking

1. The contract comprises erection, supervision, safe keeping, re - erection and maintenance of the channel marks and other allied works and the provision of all labour, materials, mechanized boats, temporary works and everything whether of a temporary or permanent nature required for completion and maintenance so far as the necessity for providing the same as specified in or reasonably to be inferred from the contract.

2. For marking the channel, material used shall be bamboos, bamboo strips, bamboo mats, coir string, straw, lime, etc., the materials and other tools and plants as may be required are to be arranged at different beats at contractor's own cost.
3. Marks shall have to be erected at suitable places as per the instructions of E.I.C. or his representative and also as per Annexure - V herewith. In case, any marks are placed wrongly the same shall be rectified by the contractor at his own cost.
4. The contractor shall at his risk and cost, make all arrangements for locating the navigable channels, sand churs, snags, etc., by means of regular soundings along the river and change the position of the marks to indicate the navigable channel for the vessels operating in that stretch.
5. The contractor has to furnish free of charge a weekly report on the water depths available at different shoals formed in the stretch as mentioned in the contract. The report must reach the office of the EIC within the last working day of every week. The contractor should employ sufficient number of experienced technical staff to the satisfaction of EIC who are conversant with the river conservancy works in such rivers to carry out the work.
6. The stretch is divided into different beats. The contractor shall be indicated about the span of every beat and the marks to be erected and maintained therein by a detailed list before commencement of work.
7. All the marks termed as right hand marks, left hand marks, channel closing marks and snags (for lean season) and right hand transit mark and left hand transit mark (for flood season) are of variable nature and this can be determined only after conducting the survey in the field. However, the total no. of marks shall not exceed the number indicated in the contract. In case of additional requirement of marks the contractor shall intimate the E.I.C. in writing about the same and obtain written orders before taking up erection of additional marks in order to be eligible for claiming additional cost.
8. The contractor shall be liable to bear the expenditure of all manpower, material and equipment required for the work at his cost. He must, therefore, have thorough knowledge about the work prior to submission of his rates. No extra claim in this regard shall be entertained once the contract has been awarded. The marks after initial erection shall be maintained up to March for lean season and up to September for flood season. However, the maintenance period can be extended or curtailed at the discretion of EIC. The material used for channel marking thereafter shall have to be removed by the contractor at his risk & cost.
9. The Contractor shall have to deploy at least one mechanized boat for every 100 KM – 120 KM of each stretch of NW -1, including all manjhies and dandies in their respective beat/ reach for the purpose of erection and maintenance of the required number of marks as stipulated in **clause no. 29 of special and technical condition of contract.**

10. Contractor shall intimate in writing the initial erection of marks immediately after completion within two days to enable EIC for arranging for the inspection of the same. The EIC or his representative shall inspect immediately and file a certificate accordingly.
11. The completion period for erection of entire marks is 20 days, inclusive of the mobilization period of 5 days from the date of order of intimation to the contractor by the EIC or his representative. The marks so erected shall be inspected immediately on receipt of intimation about completion of erection of the channel mark in the particular beat. Full payment for erection of marks shall be done only after verification of stability of marks after 10 days from the date of completion of erection of marks provided the number of marks found are \geq 100% of the number specified for the beat. In case of the number of channel marks are less than that specified; the contractor shall immediately set right the same and inform the EIC for same. The payment towards erection shall be released only after EIC or his authorized representative inspect and certify that the number of channel marks erected are \geq the number of channel marks specified. The maintenance shall start after 100% marks are erected to the satisfaction of EIC. The maintenance shall start immediately after the date of erection. Payment for erection shall be made only after the full completion of marks in all the beats. Maintenance of the marks shall be paid after verification of successful maintenance of the marks for every month. The contractor or his authorized representative shall have to accompany the officer in-charge during every inspection days. In case the contractor fails to attend the inspection trip he shall be liable to accept the measurement recorded during the inspection.
12. Channel marks erected / maintained in wrong position or without purpose shall not be considered for payment.
13. In case the ***contractor fails to maintain the erected / re-erected marks*** according to the specification and direction given by the EIC / his representatives from time to time, E.I.C. shall be free to cancel the entire or part maintenance works as the case may be and security amount deposited for the beat shall be forfeited. In addition the EIC reserves the right to maintain that erected / re-erected marks for the entire stipulated period through other agencies. In such an event the contractor shall be allowed to remove the material used in the initial erection / re-erection of marks only after completion of the stipulated maintenance period.
14. The contractor shall forthwith dispatch, raise and remove any plant (floating or otherwise) belonging to him or to any person employed by him which may be sunk in the course of execution and completion of the works or otherwise deal with the same as the EIC and the representative may direct until the same shall be raised and removed, the contractor shall set all such things for the safety of navigation as may be required by the Department. In the event of the contractor not carrying out the obligations imposed upon him by this clause, the EIC shall raise and remove the same (without prejudice to the right of the department to hold contractor liable) and the contractor shall pay to the department all costs incurred in connection therewith. The fact that sunken vessel, craft or plant is

insured or has been declared a total loss, shall not absolve the contractor from his obligation under this clause to raise and remove the same.

15. Payment against each beat shall be done after inspection and verification by the E.I.C. or his representative on completion of the erection / maintenance work, in entire stretch. The EIC or his representative shall inspect the above marks as per clause 11 and shall file a certificate in writing showing the work done by the contractor in the stretch.
16. The tenderer shall submit the rate analysis for the work / sub items in case the department enquires for the same during negotiation.
17. Bamboo Harauti of 18 to 23 cm circumference at 45 cm (1'-6") from the bottom about 7 to 7.5 mtrs. long are required for marking the channel. The marks shall be driven properly by using wooden hammer up to at least (one) 1 meter below the ground level.
18. Submerged sand chars, submerged high banks and other possible navigational obstructions shall be duly marked.
19. The navigable channel shall be at least 45 m wide (30 m wide at shoals) and 3.0m deep in lean season. Marks shall be erected after taking measurement across the river by marked bamboo poles.
20. Beginning and end of a channel through churs shall be prominently marked using bamboo poles with bamboo mats reinforced with bamboo strips for being located. These shall also be painted with lime.
21. The reference of marking shall be commenced from up stream of the river and marks shall be put up on the right hand side of the channel or the left hand side of channel as given in Annexure – X (a & b).
22. Navigational channel in the crossing from one bank to another shall be marked with transit marks.
23. Where straight reach is available, marking shall be placed at longer distance but shall be visible from first mark.
24. For marking the main channel passing through the shoal / churs the marks shall be erected in water close to the main navigational channel.
25. All snags shall be marked with proper care. During the flood a number of trees, trunks & other permanent structures which are uprooted in the U/S of the river, flows down & get strangles at marking places even some time in the main channel. For safety of navigation, these obstructions known as snags should be detected first & marks properly. For this special marks (as mid water snag marks, left & right hand snag marks) are being used which may be seen in Annexure – X (a & b). If they are deep in water lying on river bed but allowing sufficient navigation depth in lean period then marking is done by a navigation buoy made of a sealed 15 liter empty oil tin painted red, tied with a wire rope & sunk by a sinker.
26. The materials used on the work shall be of good quality conforming to the specifications laid in the contract. The work shall be carried out in a workman

like and expeditious manner and the quality of work at each stage shall be subject to the approval of the EIC. The EIC's decision as to the quality of such materials and work shall be final and binding on the contractor.

27. The contractor shall bear full responsibility for the intimation to the EIC forthwith of any accident and take all necessary action required under relevant Acts and Rules, Marine Rules etc., as the case may be. The contractor shall also report such accidents to the Competent Authority wherever such reports are required under rules. The EIC or his representative must however, be informed immediately in the event of any marine accident. The contractor should also bear full responsibility for all accident, damages or injury caused to any of the IWAI's employees, cause of which is established as due to contractor's carelessness or negligence.
28. It has been proposed that the entire stretch shall be inspected at least twice in a month form very close monitoring and the contractor shall facilitate such inspection duly deploying representative along with the inspection team.
29. It must be noted that in each beat at least 80% marks should be available during each inspection in a month.
30. In case the tenderer fails to maintain the navigational marks according to specification and directive given by the representative of the Engineer-in-charge from time to time, the Engineer-in-charge shall be free to cancel the entire or / part of the maintenance as the case may be.
- 31. The payment of monthly maintenance shall be as follows:-**
 - i. If during a month the marks seen in all the two inspections are 80% or above in the specified beat, erection / maintenance is payable for the full month for the marks actually seen in the beat limited to the least number observed during two inspections.
 - ii. If during a month the marks seen in one inspection is 80% or above but observed less than 80% in the 2nd inspection, the maintenance is payable for 15 days only as per least number of marks seen during inspection.
 - iii. No monthly maintenance shall be payable for the full month if the marks seen are less than 50% in any inspection during a month.
32. However, the maintenance for the initial month and the last month shall be considered with a partial maintenance during the calendar month, based on the number of days of maintenance against the month.
33. The contractor in addition to erection and maintenance of marks to ensure smooth navigation shall also have the responsibility to escort all cargo/tourist vessels sailing through the stretch maintained by him and for this purpose he has to deploy mechanized boats and pilots including all fuel, manpower and other machineries as required without any charges. The escorting work will be a part of their responsibility of channel marking work.

1.3) SIGNAGE MARKS/ SPECIAL CHANNEL MARKING (RETRO REFLECTIVE TYPE)

1. Signage marks/special channel marking (left hand /right hand/land marks/cross marks, etc) with retro reflective stickers at bends & caution/obstruction, critical shoals, hotspot area during in place of vessel guide marks/posts, drum buoys, bamboo structures, boards placed on obstructions, country boats, etc as per site condition and as per requirement is proposed at Kolkata-Rajmahal route on pilot project basis as demanded by vessels operators for safe movement of Cargo/ODC during sailing through the above stretch. The quantity as mentioned in the BoQ may be increased or decreased as requirement in respective stretch.
2. The contractor has to ensure Installation and maintenance of signage marks at bends/obstructions/hotspot area in proper place suiting to the channel condition so that these signage marks to assist movement of propelled vessels through the river route in a safe way. The cost of operation and maintenance these signage shall be included in the rates quoted.
3. For marking the main channel passing through the critical shoal, churs, obstructions, cushions, hotspots area, etc the recto reflective sticker marks shall be placed in water close to the main navigational channel.
4. After the expiry of the contract the contractor has to left all signage marks structure in the navigational channel for continuation of their maintenance by the department or by any other agency as appointed by IWAI from time to time.
5. The signage marks as installed and maintained by the contractor as per guidance of the Engineer In Charge shall have to be placed at such location so that the same indicates the safe navigable channel to the barges/vessels using the waterway. For such action the signage marks shall be erected as per Figure Annex-XI (a & b)
6. Where signage marks locations are not suitable for erection and maintenance than shore manned country boats hired locally by the contractor, are to be used for installation and operation of signage marks and no extra cost will be payable to contractor in this regard it should be included his quoted rate.
7. The contractor shall also have to ensure that with the rise and fall of water level and with the changes of orientation of navigable channel; these signage marks are also re-oriented in their position.
8. The contractor shall ensure that his inspection teams along with his mechanized boats for making inspection both at night and at day to ensure proper functioning of the signage and positioning of obstruction to ensure the safety of vessels on top priority. IWAI shall have the right to travel by the mechanized boat of the contractor for the purpose of inspection and checking. The mechanized boats engaged by the contractor shall therefore have to be equipped with accommodation facility, small toilet and kitchen. No charges shall be payable by IWAI towards such facilities.

9. The contractor shall make his own arrangements for protecting the works during the course of installation and operation. During the process of work the contractor shall provide such precautionary and protective works at his own cost to protect the signage equipments from the rough weather and the contractor shall be solely responsible for any damage, which may occur due to contractor not taking necessary protective steps.
10. The contractor shall submit the rate analysis for the work/sub item in case the Department requires for the same during a negotiation.
11. The contractor shall forthwith dispatch, raise and remove any plant (floating or otherwise) belonging to him or to any person employed by him which may be sunk in the course of execution and completion of the works or otherwise deal with the same as the E.I.C. and the representative may direct, until the same shall be raised and removed, the contractor shall display at night search lights and do all such things for the safe navigation as may be required by the department. In event of the contractor not carrying out the obligations imposed upon him by this clause, the E.I.C. shall raise and remove the same (without prejudice to the right of the department to hold the contractor liable) and the contractor shall pay to the department all costs incurred in connection therewith.
12. The progress of the work at each stage shall be subject to the approval of the EIC whose decision as to the rate of progress at each stage shall be final and binding on the contractor. The EIC reserves to himself the right to cancel the contract for unsatisfactory progress in the work at any stage.
13. The contractor shall maintain at each stretch one Inspection Register for recording details of signage which is must and required for replacement. If the rectification ordered to be done are not carried out within a time specified, the EIC shall have the right to get the same done through a third party and recover the expenditure incurred in the same from the any payment due to the contractor or the security deposit. This inspection register shall be the duplicate copying type so that one copy of the entries are retained in the EIC's office.
14. The contractor shall get the payment for monthly operation & maintenance of signage based upon the certification as issued by the engineer in charge or his representative after the due inspections.
15. However, for the operation during the initial month and the last month shall be considered with a partial operation during the calendar month based on the actual number of days against the month.
16. The contractor shall at his risk and cost, make all arrangements for locating the navigable channels, sand churs, snags etc. by means of regular soundings along the river and change the position of the signage bends marks to indicate the navigable channel for the vessels operating in that stretch.

17. Signage for bend and obstruction are termed as green reflective paint (left side along the current) and red reflective paint (right side along the current) are of variable nature and this can be determined only after conducting the survey in the field. However the total no. of signage marks shall not exceed the number indicated in the contract.
18. The contractor shall be liable to bear the expenditure of all manpower, material and equipment required for the work at his cost. He must, therefore, have thorough knowledge about the work prior to submission of his rates. No extra claim in this regard shall be entertained once the contract has been awarded. The signage marks after initial installation shall be operated for the complete period of contract. However, the operation period can be extended or curtailed at the discretion of EIC.
19. The Contractor shall ensure provision of boats, majhies, in their respective beat/reach so as to maintain and operate the required number signage. They should also ensure that necessary security provision for the signage towers by engaging local villagers to avoid theft/damage to them.
20. Contractor shall intimate in writing the installation of signage immediately after completion within two days to enable EIC for arranging for the inspection of the same. The EIC or his representative shall inspect immediately and file a certificate accordingly.
21. The completion period for installation of entire stretch for signage is **20 days**, inclusive of the mobilization period from the date of order of intimation to the contractor by the EIC or his representative. The signage shall be inspected on any day from the date of receipt of intimation about completion of installation of the signage in the particular beat. Full payment for installation of signage shall be done only after the inspection provided the number of signage mark marks found is 100% of the number specified for the beat. In case, the number of signage marks found are less than that specified, the contractor shall immediately set right the same and inform the EIC for same. The payment towards installation shall be released only after EIC or his authorized representative inspects and certifies that the number of signage erected is same as the number specified. The operation shall start after 100% signage are installed to the satisfaction of EIC. Operation of the signage shall be paid after verification of successful operation of the signage marks and marks for every month. The contractor or his authorized representative shall have to accompany the officer in-charge during every inspection days. In case the contractor fails to attend the inspection trip he shall be liable to accept the measurement recorded during the inspection.
22. Signage marks are erected or operated in wrong position or without purpose shall not be considered for payment.
23. In case the contractor fails to operate the erected/re-erected signage marks according to the specification and direction given by the EIC / his representatives from time to time, E.I.C. shall be free to cancel the entire or part operating cost as the case may be and security amount deposited for the same

shall be forfeited. In addition, the EIC reserves the right to operate the installed / re-positioned signage marks for the entire stipulated period through other agencies. In such an event the contractor shall be allowed to remove the material used in the initial installation / re-installation only after completion of the stipulated operating period.

24. Payment against each beat shall be done after inspection and verification by the E.I.C. or his representative on completion of the installation work, in entire stretch.
25. The navigable channel shall be at least 45m wide (30m wide at shoals) and 3.0 meter deep.
26. For marking the main channel passing through the shoal/churs, the boat with bend signage marks shall be placed in water close to the main navigational channel.
27. The contractor shall bear full responsibility for the intimation to the EIC forthwith of any accident and take all necessary action required under relevant Acts and Rules, Marine Rules etc. as the case may be. The contractor shall also report such accidents to the competent Authority wherever such reports are required under rules. The EIC or his representative must however, be informed immediately in the event of any marine accident. The contractor should also bear full responsibility for all accident, damages or injury caused to any of the IWAI's employees, cause of which is established as due to contractor's carelessness or negligence.
28. It has been proposed that the entire stretch shall be inspected at least two times in a month for very close monitoring and the contractor shall facilitate such inspection duly deploying his representative along with the IWAI inspection team.
29. It must be noted that in each beat during two inspections at least 80% signage marks should be available during each inspection in a month.
30. The payment of monthly operational cost shall be as follows: -
 - i) If during a month the marks seen in all the two inspections are 80% or above in the specified beat, erection / maintenance is payable for the full month for the marks actually seen in the beat limited to the least number observed during two inspections.
 - ii) If during a month the marks seen in one inspection is 80% or above but observed less than 80% in the 2nd inspection, the maintenance is payable for 15 days only.
 - iii) No monthly maintenance shall be payable for the full month if the marks seen are less than 50% in any inspection during a month.
31. The contractor should deploy sufficient mechanized inspection boats for close monitoring and the contractor shall facilitate such inspection duly deploying representative along with proper manpower.

32. Transportation of men and material and delivery of the materials shall be under the scope of contractor. Any delays encountered in the transportation/mobilization of the men and material shall be accounted to the contractor.

SPECIAL PAYMENT TERMS

1. Installation of the night navigational facilities, signage marks and day channel marks will be paid only after 100% are mobilized and placed at respective location.
2. No payment will be made until and unless the erected the night navigational facilities on the top of MS poles/Concre poles/Bamboo structures, etc are found functional. It will be the responsibility of the contractor to obtain replacement of defective Lights.
3. Payment for installation and operation shall be done after a joint measurement and certification by a team including representative from the Authority and the contractor. In case the contractor fails to depute his representative, the finding made by the inspection team shall be deemed to be accepted by the contractor for the purpose of payment of his bill.
4. Payment shall be released after it is recorded during departmental inspections only when it is found that at least 95% of the navigational light are found operated as per agreement during every inspections.
5. At least **two** inspections shall be done every month for signage marks, day channel marks and night navigational facilities.
6. Payment against each light and day light channel marks shall only be paid if the same is found to be maintained to its deputed location.
7. The contractor should deploy sufficient mechanized inspection boats for close monitoring and the contractor shall facilitate such inspection duly deploying representative along with proper manpower.
8. The rates quoted shall include all taxes and other levies except GST. It shall be inclusive of all cost such as material, labour, tools etc. and should be valid for entire contract period. The GST component, as applicable, should be shown separately during submission of bills.
9. Transportation of men and material and delivery of the materials shall be under the scope of contractor. Any delays encountered in the transportation/mobilization of the men and material shall be accounted to the contractor.
10. The contract can be extended for further period on mutually agreed terms and conditions for suitable period as per requirement.

SPECIAL CONDITIONS

A. HOLD HARMLESS:

- i) The Contractor should indemnify and hold the Authority harmless from any liability or claim for damages because of bodily injury, death, property damage, sickness, disease or loss and expense arising from the Contractor's performance of this Contract.
- ii) The Contractor is acting in the capacity of an independent contractor with respect to the Authority.
- iii) The Contractor should protect, defend and indemnify the Owner from any claims by labourers or Sub Contractors for unpaid work or labour performed in connection with this Contractor.

B. CHANGE ORDERS:

- i) The Contractor should not make any changes in the schedule of work or the Specifications without written authorization by the Engineer in Charge and written concurrence by the Authority.

C. UNSATISFACTORY PERFORMANCE:

- i) In case of unsatisfactory performance/ progress / services by the Contractor, IWAI shall have the right to issue a show cause notice to the consultant requiring him to explain the reason thereof.
- ii) In case of continuation of such unsatisfactory performance / progress / services, IWAI reserves the right to rescind the Contract and get the balance work executed at the risk and cost of the Contractor.

D. WARRANTIES:

- i) The Contractor should warrant that this contract does not and shall not infringe any existing or subsequent patents, rights or licenses of any third party.
- ii) The Contractor should further warrant that the rights of the Authority under the present contract are not and shall not be infringed by any prior or subsequent contract, which may have been or may hereafter be entered into by the Contractor with any other party.

E. MISCELLANEOUS:

- ii) The Contract embodies the entire understanding of the parties as to its subject matter and shall not be amended except in writing executed by both the parties and subject to the approval of the concerned authorities.

PART-IV

SCHEDULE OF QUANTITIES

Item Rate BoQ

Tender Inviting Authority: Inland Waterways Authority Of India

Name of Work: Installation, Operation & Maintenance of 24 hours Navigational facilities for the stretch Kolkata-Rajmahal of National Waterways-1 (River Ganga) during October 2021 to March 2022.

Contract No: IWAI/KOL/8/NN/2021-22

Name of the Bidder/ Bidding Firm / Company :							
<p>PRICE SCHEDULE</p> <p>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</p>							
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	7	8	10
1.00	NIGHT NAVIGATIONAL FACILITY	item1					
1.10	Mobilization and Placement of Red & Green 2 NM & 5 NM navigational Lights mounted over structure/ concrete pole/M.S Pole/Steel post etc at specific locations on the waterway	item2					
1.11	Kolkata to Tribeni	item3	34.00	Each		0.00	INR Zero Only
1.12	Tribeni to Berhampur	item4	265.00	Each		0.00	INR Zero Only
1.13	Berhampur to Farakka	item5	125.00	Each		0.00	INR Zero Only
1.14	Farakka to Rajmahal	item6	38.00	Each		0.00	INR Zero Only
1.20	Operation, Maintenance and Safekeeping of Night Navigation facilities (including Manpower) with 2 NM / 5 NM lights fitted on structure/ concrete pole /M.S Pole /Steel post, etc at specific locations on the waterway	item7					
1.21	Kolkata to Tribeni	item8	204.00	Each-month		0.00	INR Zero Only
1.22	Tribeni to Berhampur	item9	1590.00	Each-month		0.00	INR Zero Only
1.23	Berhampur to Farakka	item10	750.00	Each-month		0.00	INR Zero Only
1.24	Farakka to Rajmahal	item11	228.00	Each-month		0.00	INR Zero Only

1.30	Mobilization and Placement and Safekeeping of Night Navigation Lights on Navigational Span of the 11 nos. Bridges from Kolkata to Farakka at specified location on waterways.	item12					
1.31	Kolkata to Tribeni	item13	3.00	Each		0.00	INR Zero Only
1.32	Tribeni to Berhampur	item14	1.00	Each		0.00	INR Zero Only
1.33	Berhampur to Farakka	item15	7.00	Each		0.00	INR Zero Only
1.40	Operation, Maintenance and Safekeeping of Night Navigation Lights on Navigational Span of the 11 nos. Bridges from Kolkata to Farakka at specified location on waterways.	item16					
1.41	Kolkata to Tribeni at 3 bridge	item17	18.00	Each-month		0.00	INR Zero Only
1.42	Tribeni to Berhampur at 1 bridge	item18	6.00	Each-month		0.00	INR Zero Only
1.43	Berhampur to Farakka at 7 bridge	item19	42.00	Each-month		0.00	INR Zero Only
1.50	Repair maintenance and Painting of MS/Steel Posts as per requirement and as per direction of EIC.	item20	290.00	Each		0.00	INR Zero Only
2.00	Day Navigation Aids (Conventional day marks)	item21					
2.10	Erection of Channel Marks (Lean Season) (Left/right hand/snag/ channel closing marks) including materials, labours, tools and plant.	item22					
2.11	Kolkata to Tribeni	item23	30.00	Each-Mark		0.00	INR Zero Only
2.12	Tribeni to Berhampur	item24	220.00	Each-Mark		0.00	INR Zero Only
2.13	Berhampur to Farakka	item25	150.00	Each-Mark		0.00	INR Zero Only
2.20	Maintenance of Channel Marks (Lean Season) (Left/right hand/snag/ channel closing marks) including materials, labours, tools and plant.	item26					
2.21	Kolkata to Tribeni	item27	180.00	Mark-month		0.00	INR Zero Only
2.22	Tribeni to Berhampur	item28	1320.00	Mark-month		0.00	INR Zero Only
2.13	Berhampur to Farakka	item29	900.00	Mark-month		0.00	INR Zero Only
3.00	Signage Marks	item30					
3.10	Erection of Signage Marks (Lean Season) (Left/right hand/snag/channel closing marks) with retro reflective stickers at bends & caution/obstruction in place of Vessel guide marks/posts, drum buoys, bamboo structures, boards placed on obstruction, country boats etc as per site conditions & requirement.	item31					
3.11	Kolkata to Tribeni 12 nos	item32	12.00	Mark		0.00	INR Zero Only
3.12	Tribeni to Berhampur 84 nos	item33	84.00	Mark		0.00	INR Zero Only
3.13	Berhampur to Farakka 49 nos	item34	49.00	Mark		0.00	INR Zero Only

3.20	Operation and maintenance of Signage Marks (Lean Season) (Left/right hand/snag/channel closing marks) with retro reflective stickers at bends & caution/obstruction in place of Vessel guide marks/posts, drum buoys, bamboo structures, boards placed on obstruction, country boats etc as per site conditions & requirement.	item35					
3.21	Kolkata to Tribeni 12 nos	item36	72.00	Mark-month		0.00	INR Zero Only
3.22	Tribeni to Berhampur 84 nos	item37	504.00	Mark-month		0.00	INR Zero Only
3.23	Berhampur to Farakka 49 nos	item38	294.00	Mark-month		0.00	INR Zero Only
Total in Figures						0.00	INR Zero Only
Quoted Rate in Words	GST as applicable will be reimbursed on proper submission of documentary evidence	INR Zero Only					

PART - V

Annexure -I

AGREEMENT FORMAT

This agreement made on _____day_____year_____between the Inland Waterways Authority of India (hereinafter called the 'IWAI' which expression shall unless excluded by or repugnant, to the context, be deemed to include heir, successors in office) on one part and M/S_____ (hereinafter called the 'CONTRACTOR' which expression, shall unless excluded by repugnant to the context be deemed to include his heirs, executors, Administrators, representatives and assigns of successors in office) on the other part.

WHEREAS THE IWAI desirous of undertaking the works_____

WHEREAS the contractor has offered to execute and complete such works and whereas IWAI has accepted the tender of the contractor and WHEREAS the contractor _____ has _____ furnished

as security for the due fulfillment for all the conditions of this contract.

NOW IN THIS AGREEMENT WITNESSTH AS FOLLOWS

In this agreement words and expression shall have the same meaning as are respectively as assigned to them in the conditions of contract hereinafter referred to:

The following documents shall be deemed to form and be read and construed as part of this agreement VIZ.

- i) (a) Notice Inviting Tenders
- (b) Tender form
- (c) Warranty
- ii) Information & instruction for Tenders
- iii) (a) Schedule : Bill of Quantity
- (b) Annexure
- iv) General Conditions of Contract
- v) Technical specifications and Special Conditions of Contract

The contract agreement has been compiled by the IWAI from the original tender documents and all the correspondences from the tendering stage till

acceptance. In the event of any difference arising from the completion of the contract, the original tender documents, contractor's offer, minutes of meetings and correspondence between the party ended vide letter No. _____ may be referred to by either party. These documents shall take precedence over the compiled documents.

The contractor hereby covenants with the IWAI to complete and maintain the "Works" in conformity in all respect, with the provisions of the agreement.

The IWAI hereby covenants to pay the contractor in consideration of such completion of works, the contract price at the time and in the manner prescribed by the contract.

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

For and on behalf of
(*Inland Waterways Authority of India*)

For and on behalf of
Contractor

Signature _____

Signature _____

Name & Designation _____

Name & Designation _____

Stamp

Stamp

Witness:

Witness:

1) Signature _____

1) Signature _____

2) Name & Designation _____
Designation _____

2) Name & Designation _____
Designation _____

**BANK GUARANTEE PROFORMA FOR FURNISHING
PERFORMANCE GUARANTEE**

**To
The Chairman
Inland Waterways Authority of India
A-13, Sector-1
Noida - 201301**

In consideration for the Chairman, Inland Waterways Authority of India hereinafter called ‘the Authority’ having agreed, under the terms and conditions of the Agreement dated made between..... and ...for the due fulfillment of the said Agreement by the Contractor of the terms and conditions contained in the said Agreement, on production of Bank Guarantee for Rs..... (Rupees.....) at the request of..... Contractor(s), We (Bank) do hereby undertake to pay to the Authority an amount not exceeding Rs..... against any loss or damage caused to or suffered, or would be caused to or suffered by the Authority by reason of any breach of the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

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

3. We undertake to pay the authority any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) / suppliers(s) in any suit or proceeding pending before any court or Tribunal relating thereto liability under this present being absolute and unequivocal.

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

4. We, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Authority under or by virtue of the said Agreement have been fully and its claim satisfied or discharge or till..... Certify that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contactor(s) and accordingly discharges this Guarantee after..... years from the date of completion of the said contract unless a demand or claim under this Guarantee is served in writing on the bank but before the expiry of the said period of years in which case it shall

be enforceable against the bank notwithstanding the fact that the same is enforced after the expiry of the said period of years.

5. We,.....further agree with the Authority that 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 by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Authority against the said Contractor(s) and to forbear or 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 such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the Authority or any indulgence by the Authority to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for the provision, have effect of so relieving us.

6. It shall not be necessary for the Authority to proceed against the Contractor before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank notwithstanding any security which the Authority may have obtained or obtain from the Contractor shall at the time when proceedings are taken against the Bank hereunder be outstanding or unrealized.

7. Notwithstanding anything contained herein above our liability under the guarantee is restricted to Rs..... and shall remain in force until..... Unless a claim or suit under this guarantee is filled with us on or before..... ALL OUR RIGHTS UNDER THE GUARANTEE SHALL BE FORFEITED and the bank shall be relieved and discharged from all liabilities therein.

8. This Guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s) / supplier(s).

9. We,..... lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the Authority in writing.

Dated thedate of.....200...
for.....
(indicate the name of Bank)
Signature.....
Name of the Officer.....
(in Block Capitals)
Designation of
Code No.....
Name of the Bank and Branch.

SAMPLE FORM FOR SITE ORDERS BOOK
Reference Clause No. 18.4

Name of work Date of commencement/ period for completion.....

Sl. No.	Date	Remarks of the Inspecting Officer or Contractor	Action taken and by whom	Remarks
1	2	3	4	5

PROFORMA FOR HINDRANCE REGISTER
Reference Clause No. 18.5

Sl. No.	Nature of hindrance	Items of work that could not be due executed to this hindrance	Date of start of hindrance	Signature of Representative of EIC	Date of removal of hindrance	Over-lapping period, if any	Net hindrance in days	Weightage of this hindrance	Net effective days of hindrance	Remarks of Engineer-in-Charge
1	2	3	4	5	6	7	8	9	10	11

Notice for appointment of Arbitrator
[Refer Clause 47]

To,

The Chairman, IWAI

.....

.....

Dear Sir,

In terms of clause 47 of the agreement, particulars of which are given below, I/we hereby give notice to you to appoint an arbitrator for settlement of disputed mentioned below:

1. Name of applicant
2. Whether applicant is Individual/Prop. Firm/Partnership Firm/Ltd. Co.
3. Full address of the applicant
4. Name of the work and contract number in which arbitration sought
5. Name of the Division which entered into contract
6. Contract amount in the work
7. Date of contract
8. Date of imitaton of work
9. Stipulated date of completion of work
10. Actual date of completion of work (if completed)
11. Total number of claims made
12. Total amount claimed
13. Date of intimation of final bill (if work is completed)
14. Date of payment of final bill (if work is completed)
15. Amount of final bill (if work is completed)
16. Date of request made to Chief Engineer for decision
17. Date of receipt of Chief Engineer's decision
18. Date of appeal made to Chairman, IWAI
19. Date of receipt of the decision of Chairman, IWAI

Specimen signatures of the applicant
 (only the person/authority who
 signed the contract should sign)

I/We certify that the information given above is true to the best of my/our knowledge. I/We enclose following documents.

1. Statement of claims with amount of claims
- 2.
- 3.
- 4.

Yours faithfully

(Signatures)

Copy in duplicate to:

1. The Regional Director, IWAI

**DETAILS OF BANK ACCOUNT FOR RELEASE OF PAYMENT THROUGH
ELECTRONIC FUND TRANSFER SYSTEM**

(TO BE FURNISHED BY THE BIDDER ON IT'S LETTER HEAD)

NAME OF THE PROJECT: _____

THE BANK ACCOUNT DETAILS ARE FURNISHED AS BELOW:

We _____(Name of the Bidder) hereby request you to give our payments by crediting our bank account directly by E-Payment mode as per account details given below. We hereby undertake to intimate IWAI in case of any change in particulars given below and will not hold IWAI responsible for any delay / default due to any technical reasons beyond IWAI's control:-

Bank Account Number :

RTGS/NEFT/IFSC CODE :

Name of the Bank :

Address of the Branch of the Bank :_____

Branch code :

Account Type :

(Saving/Current/Others)

A BLANK CHEQUE (CANCELLED) IS ENCLOSED HERewith.

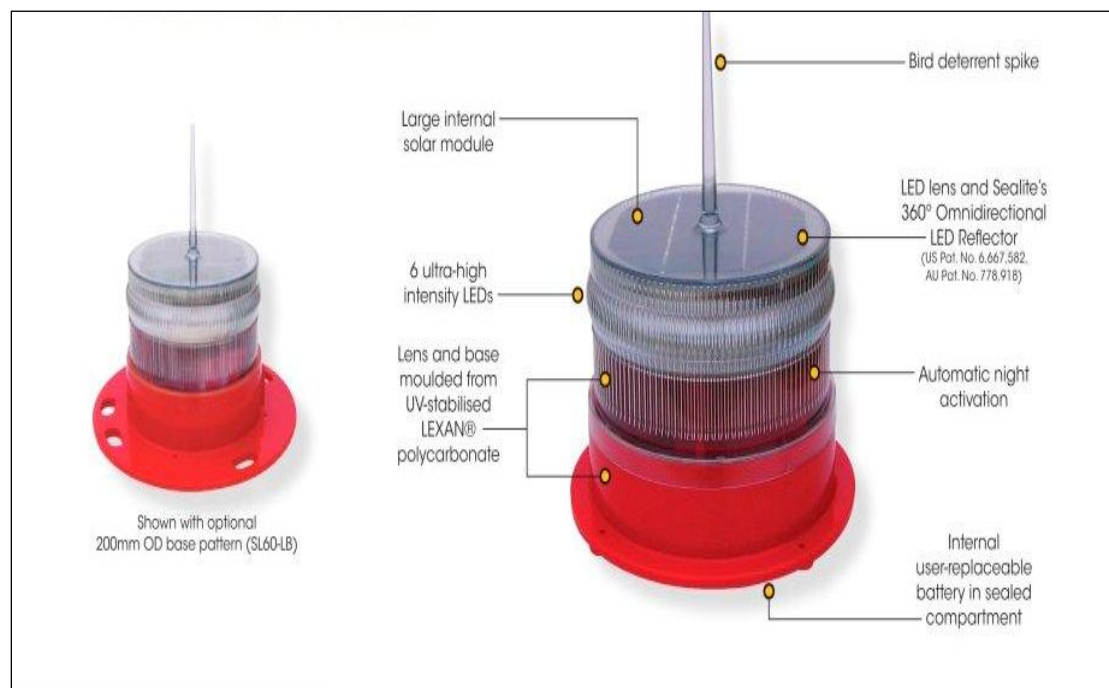
I/We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or credit is not affected at all for reasons of incomplete or incorrect information, I/We would not hold IWAI responsible.

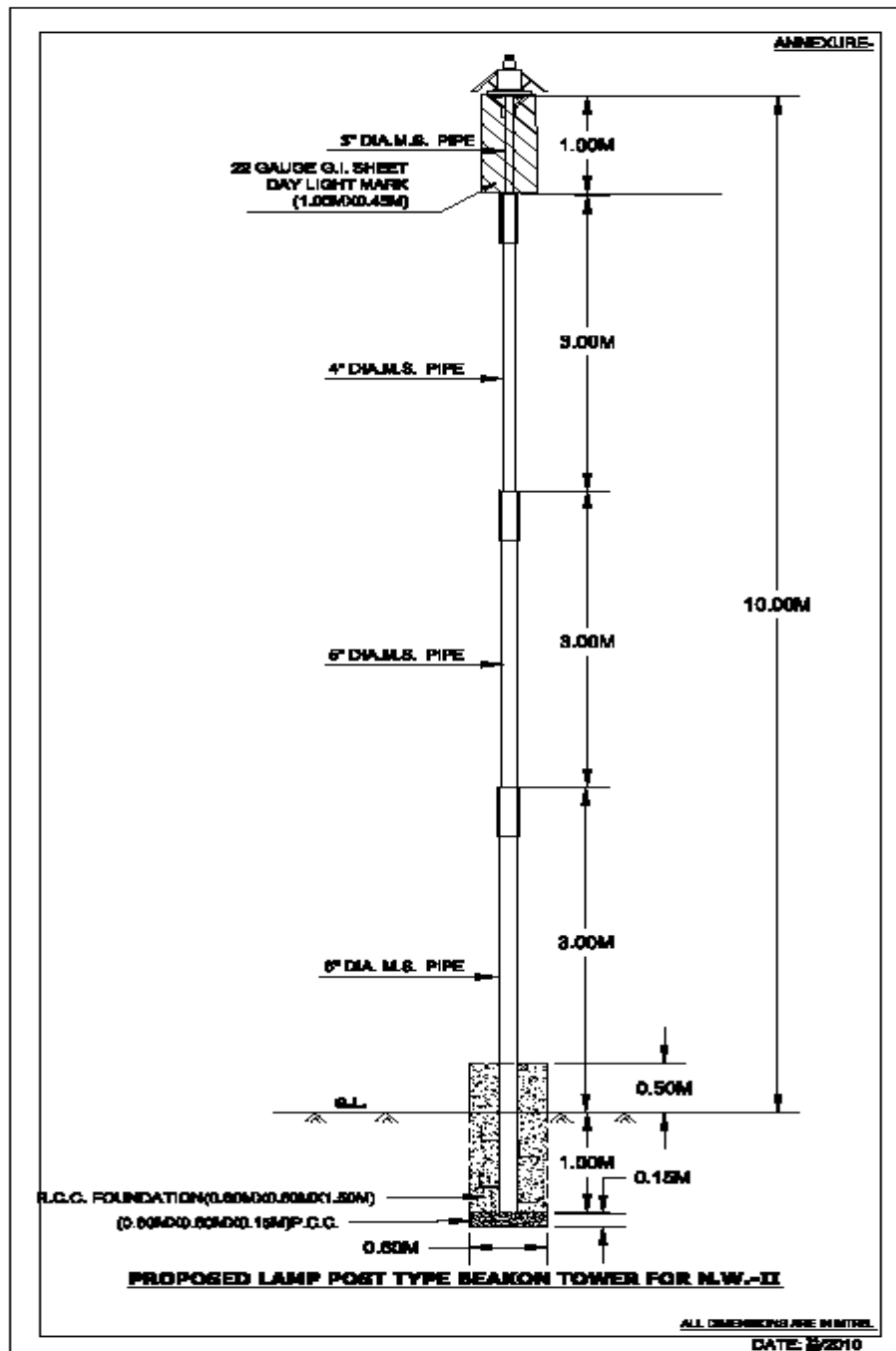
Date:
Signatory

Signature of Authorized

DRAWINGS

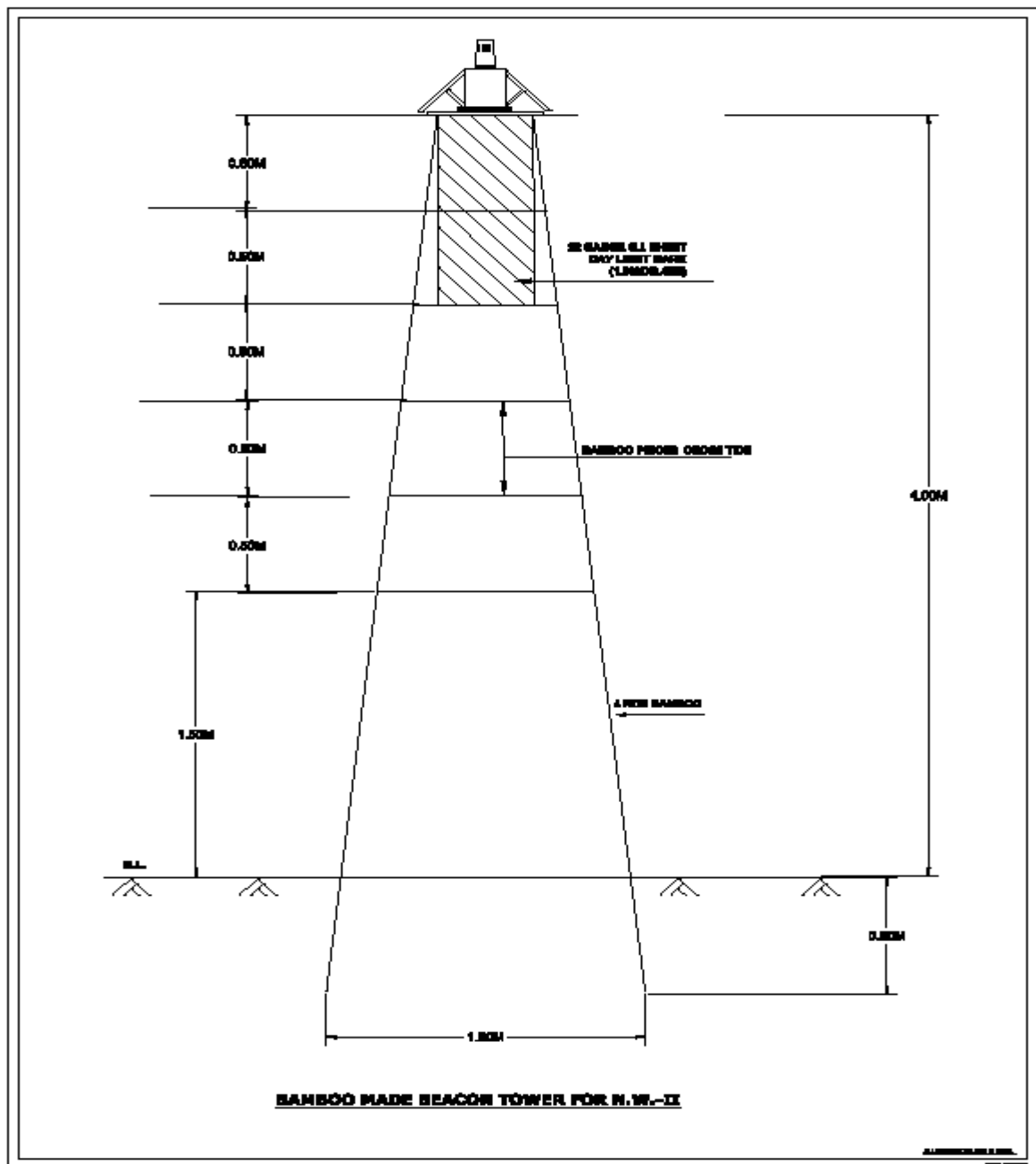
ANNEXURE- VII





DRAWING OF 10 M HEIGHT BEACON TOWER WITH M.S.Pipe

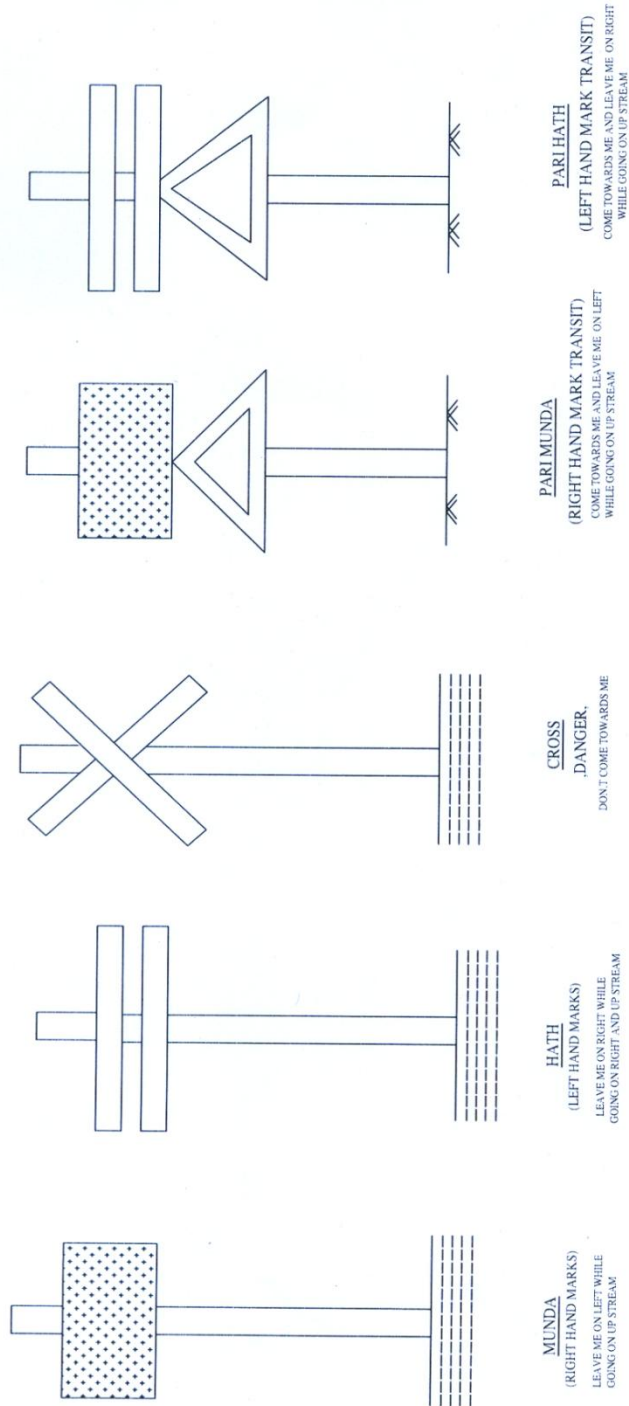
ANNEXURE-IX



DRAWING OF BEACON TOWER WITH BAMBOOS STRUCTURE

ANNEXURE - X(a)
(Typical drawing of conventional bamboo marks)

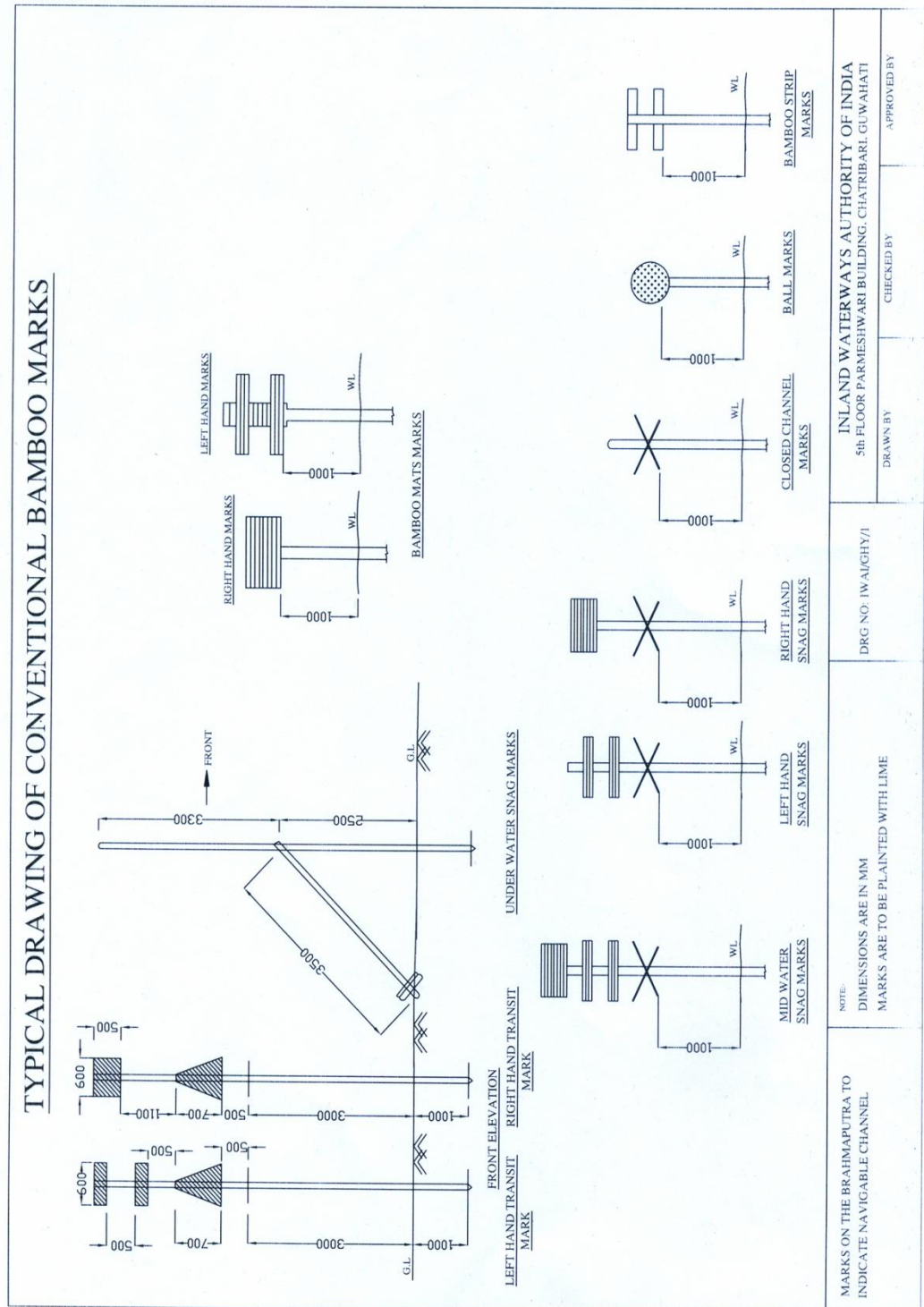
DIFFERENT MARKS OF RIVER ROUTE OF BRAHMAPUTRA



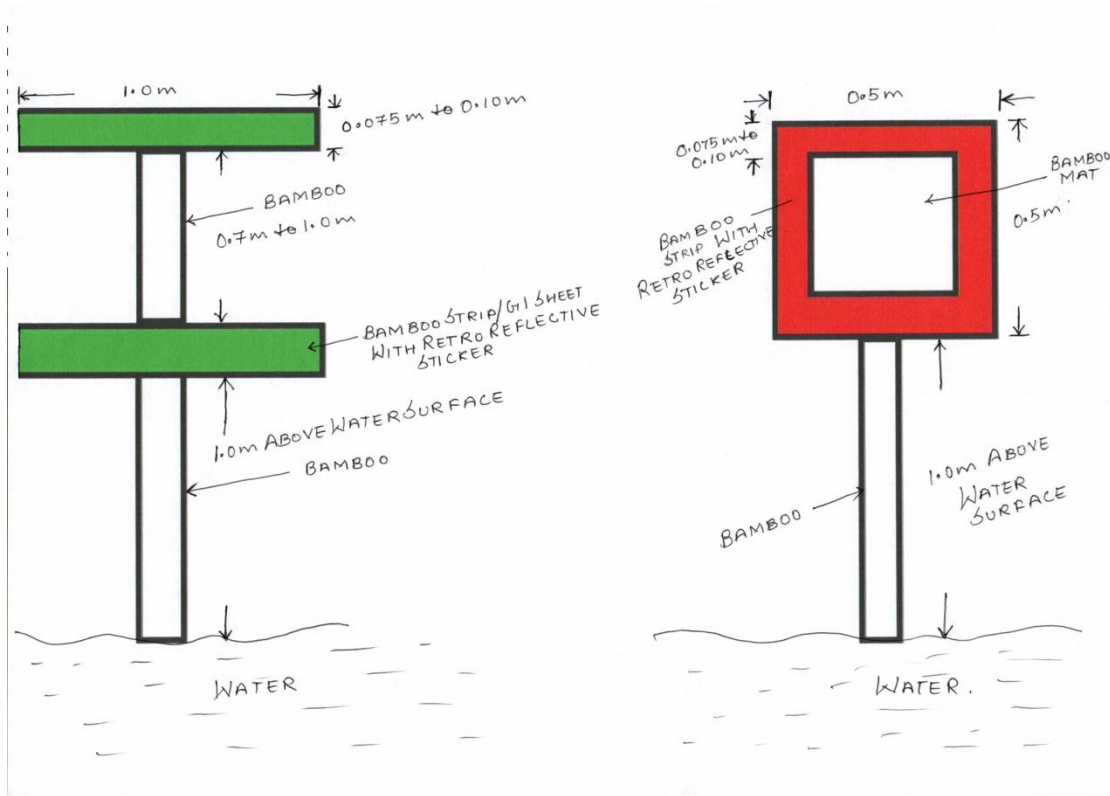
INLAND WATERWAYS AUTHORITY OF INDIA

MARKS ON THE BRAHMAPUTRA TO INDICATE NAVIGABLE CHANNEL	NOTE: MARKS ARE TO BE PLANTED WITH LIME	DRG NO: IWAI/GHY/2	INLAND WATERWAYS AUTHORITY OF INDIA 5th FLOOR PARMESHWARI BUILDING, CHATKIBARI, GUWAHATI	
			DRAWN BY	CHECKED BY APPROVED BY

ANNEXURE - X(b) Lean season and Flood season channel marks



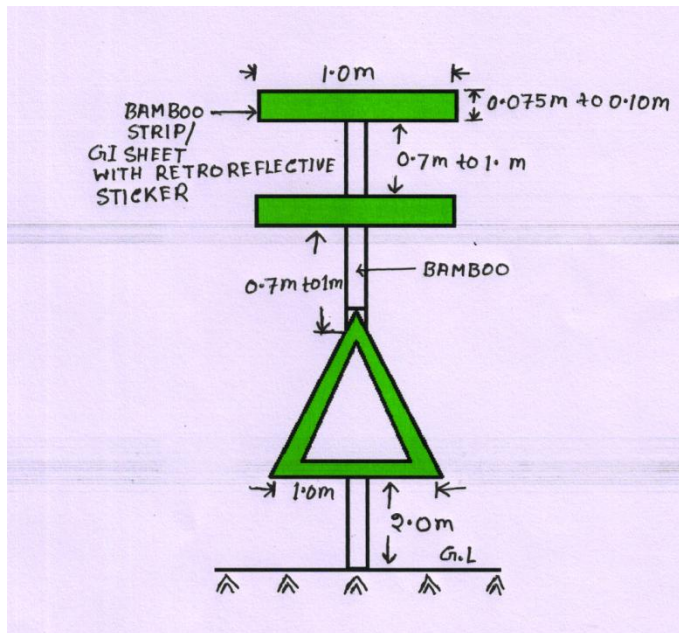
ANNEXURE - XI(a)
Recto Reflective sticker marks



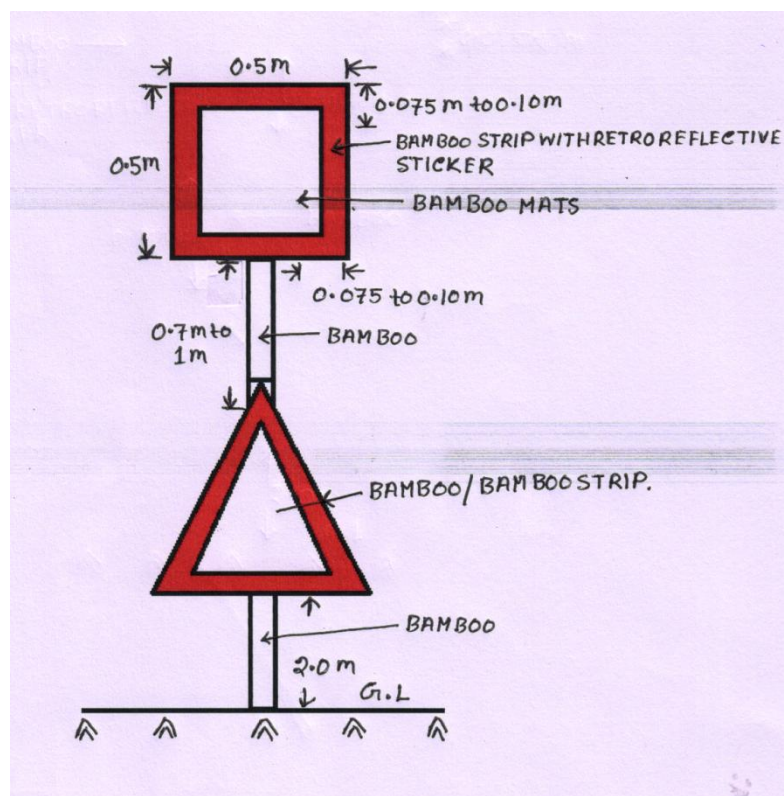
Left Mark

Right Mark

ANNEXURE - XI(b)
Recto Reflective sticker marks



Left Transit Mark



Right Transit Mark

Annexure – XII (Index map of NW-1)

