

TENDER DOCUMENT

For Deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No.1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years.

TENDER NO. IWAI/MD/226/2015-16/001

August 2015



Inland Waterways Authority of India

(Ministry of Shipping, Govt. of India)

A-13, Sector-1, Noida – 201 301 (UP)

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TENDER For Deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No.1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years.

PART – I

TECHNICAL BID

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SECTION-I
NOTICE INVITING TENDER (NIT)
for publication in News Paper



INLAND WATERWAYS AUTHORITY OF INDIA (Ministry of Shipping, Govt. of India)
A-13, Sector-1, Noida-201301 (U.P.)

NOTICE INVITING E- TENDERS

E-Tender No	Name of Work	Estimated cost	E.M.D
IWAI/MD/226/ 2015-16/001	Deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No.1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years.	Rs. 2358 lakh	Rs. 33.58 lakh
IWAI/MD/226/ 2015-16/002	Deployment of CSD Alaknanda unit and CSD Mahananda unit in Semaria- Patna stretch of National Waterway No.1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years.	Rs. 2304 lakh	Rs. 33.04 lakh

Online bids are invited from the Reputed contractors for the above E-Tenders. Details of NIT; Date of Uploading of Bid document – 07.08.15. Last date of submission is up to 1500 hrs on 01.09.15. Date of opening:- 01.09.15 at 1530 hrs. Cost of Tender document Rs 5000/- **separately** for each E-tender. Pre-bid meeting will be held at 1500 hrs on 20.08.15 at IWAI A-13, Sector-1, Noida. For detailed tender documents please refer to IWAI website www.iwai.gov.in. and <https://eprocure.gov.in/eprocure/app>

Chief Engineer (P&M)



INLAND WATERWAYS AUTHORITY OF INDIA

(Ministry of Shipping, Govt. of India)

Head Office : A-13, Sector – 1, Noida - 201 301, Distt.- Gautam Budh Nagar; (U.P.)

Web site: www.iwai.gov.in

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

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NOTICE INVITING TENDER No. IWAI/MD/226/2015-16/001

Inland Waterways Authority of India (IWAI) invites online bids in two cover system (Cover I - Technical bid and Cover II - Financial Bid) from reputed and experienced contractors for the work given below. The Bids will be placed online at <https://eprocure.gov.in/eprocure/app>

Terms and Conditions:

1. **Name of Work:** Tender document for Deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No.1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years.
2. **Estimated Cost of the work and EMD requirement are as under:**

Estimated cost	–	Rs. 2358 lakh
EMD	-	Rs. 33.58 lakh
3. **Date of downloading of tenders :** From 07.08.2015 to 01.09.2015.
4. **Proposed date for pre-bid conference** 20.08.2015 at 1500 hrs at IWAI A-13, Sector-1, Noida -201301
5. **Last date of submission of tender :** 01.09.2015 up to 15.00 hours
6. **Date of opening of technical bid of the tender :** 01.09.2015 at 15.30 hours
7. The tender document can also be downloaded from the IWAI's website www.iwai.nic.in and CPP Portal Website <https://eprocure.gov.in/eprocure/app>. Bidders submitting the downloaded version of tender document are required to submit Rs. 5,000/- (Rupees Five thousand only) i.e. an amount equal to the cost of tender document along with tender in the form of non-refundable demand draft in favour of 'IWAI fund' payable at Noida at any nationalized/schedule bank for each tender separately. 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.
8. The tenderer shall meet the following pre-qualification criteria:
 - i. The tenderer shall be registered with Central Public Works Department, Railways, MES and State PWD/ Irrigation Department **or non-registered contractors** having experience of similar works.

- ii. Tenderer shall have Permanent Account Number issued by Income Tax Deptt.
 - iii. Average annual financial turnover during last three years ending 31st March of the previous financial year, should be at least 100% of the estimated cost i.e. Rs. 2583 lakh . Experience of having successfully completed similar works i.e. dredging on rivers or ports or contract management of vessels, manning of vessels or vessel related marine works or similar nature of works during last 7 years ending last day of month previous to the one in which this tender is invited should be either of following :
 - i. Three similar works each costing not less than **Rs. 943.20 lakh** (40% of the estimated cost); **or**
 - ii. Two similar works each costing not less than **Rs. 1414.80 lakh** (60% of the estimated cost); **or**
 - iii. One similar work costing not less than **Rs. 1886.40 lakh** (80% of the estimated cost)
 - iv. Latest certificate of solvency from nationalized / scheduled Bank included in the second schedule of the RBI Act for not less than the value of **Rs. 943.20 lakh** (40% of the estimated cost). The solvency certificate to be within three months prior to last date of submission of tender. For tenderers participating in both tenders, the solvency amount to be addition of two required solvency amount.
 - v. The tenderer shall agree to the terms & conditions of the tender.
 - vi. The tenderer shall submit required Earnest Money Deposit in the form as prescribed. Any/all submissions made without the earnest money and/or after the last date and time of submission of the bid shall be deemed to be rejected.
9. The complete bid as per the tender documents should be placed online at <https://eprocure.gov.in/eprocure/app> by 1500 hours on 01.09.2015 and will be opened online on same day at 1530 hours at IWAI, A-13, Sector-1, Noida-201301
10. 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.

Chief Engineer (P&M)

SECTION II
INSTRUCTIONS TO THE BIDDER (ITB)

[Tender for Deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No.1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years]

1.0 All covering letters and information to be included in the bid submitted online.

2.0 This tender schedule is only for the work of Deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No.1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years

3.0 **The total estimated cost of works is Rs. 2358.00 lakh.**

4.0 Tender should be submitted online at <https://eprocure.gov.in/eprocure/app> by 1500 hours on 01.09.2015 **in two bid system i.e.** Technical & Commercial Bid & Price Bid of offer and will be opened online on same day at 1530 hours at IWAI, A-13, Sector-1, Noida-201301

Tenders are invited for the above work and the Price bid to be submitted in cover-2. No other document other than the Price Bid to be placed in cover-2 otherwise tender will be summarily rejected.

Technical Bid:

The technical bid shall be submitted online along with scanned copy of the following documents

- a) Blank Performa of Schedule of Prices (prices not to be filled).
- b) For bidding documents downloaded from the website <https://eprocure.gov.in/eprocure/app>, the scanned copy of the 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 submission closing date.
- c) Earnest Money Deposit (Demand Draft or as prescribed). Scanned copy to submit online. The original of the Earnest money deposit to be deposited in the office before the bid submission closing date.
- d) Registration certificate from concerned Authorities.
- e) Experience certificate. (Experience certificate in works of a similar nature and size for each of the last seven years with satisfactory performance).
- f) Solvency certificate.
- g) Letter of Authority for signing and negotiation of tender (as the case may be).
- h) Permanent Account Number (PAN) issued by Income Tax Department.
- j) Audited balance sheets along with turnover, profit and loss account for the last 3 years i.e. ending March 2012-13, 2013-14, 2014-15. Reports on the financial standing of the Bidder, and a certificate from Chartered Accountant as a proof of turnover for the past three years.
- k) Evidence of adequacy of working capital for this contract [access to line(s) of credit and availability of other financial resources. (Credit limits issued by bankers will suffice and Rs. 2.00 crore for one bid and Rs. 4.00 crore for two bids will suffice for this clause)

- l) Information regarding any litigation or arbitration during the last seven years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter;
- m) Details of the contracts if any having delay in completing the work more than one year over and above contractual completion period. In the event of no case, similar statement is to be submitted.
- n) An undertaking that that bidders are not under a declaration of ineligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the Central or the State Government.
- o) An affidavit on a Stamp Paper, duly attested from the Notary, that the information furnished with the bid documents is correct in all respects; and failure to submit the document as specified shall make the bid non-responsive. Scanned copy to be submitted online and original to be deposited in the office before the bid submission date.
- p) Qualification information, supporting documents, affidavit and undertaking as specified in Clause 21;
- q) Undertaking that the bid shall remain valid for the period specified i.e. 120 days from the date of opening of the bid.
- r) Any other information/documents required to be completed and submitted by bidders as specified.
- s) Tender Acceptance Letter.

Price Bid:

The price bid shall be submitted online for

(i) Schedule of Prices duly filled in the specified form.

(ii) 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. The name of the bidder to be mentioned otherwise the bid is liable to be rejected.

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 for the tendered work in the Notice inviting tender should be submitted in the following manner:

- a) Either 100% by Demand Draft OR
- b) 50% by Demand Draft and remaining 50 % as Bank Guarantee.

The Demand Draft to be drawn in favour of “IWAI-Fund” payable at Noida on any Nationalised/ Scheduled Bank of India. The Bank Guarantee submitted as part of Earnest Money shall be valid for a period of six months or more from the date of submission of the tender.

The original demand draft for tender fee and EMD should be deposited before closing date and time of submission of bid at IWAI, A-13, Sector-1, Noida-201301. 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.

The Earnest Money of the successful Bidder submitted in the form of Demand Draft will be retained as Security Deposit and that given in the form of Bank Guarantee will be discharged when the Bidder has signed the Agreement and furnished the required Performance Security.

The Bid Security / Earnest Money will be forfeited if the Bidder withdraws the Bid after its submission during the period of Bid validity or in the case of a successful Bidder, if the Bidder fails within the specified time limit to sign the Agreement; and/or to furnish the required Performance Security.

7.0 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.

8.0 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:

8 (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.

8 (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.

8 (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.

8 (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.

8 (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 along with the Tender.

8 (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.

8(g) The bid can be submitted by a firm or Joint Venture or Consortium.

8(h) In case the bid is submitted by a J.V. /Consortium, the J.V. /Consortium may have two or more partners. The Lead Partner should have maximum equity participation. Bids submitted by a joint venture of two or more firms as partners shall comply with the following requirements:

- (i) The bid shall include all the information required for qualification criteria
- (ii) The bid security and the bid shall be signed so as to be legally binding on all partners.
- (iii) A Joint Venture Agreement entered into by all partners shall be submitted with the bid. One of the partners shall be nominated as being lead partner. This authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners. The lead partner has to be an Indian Company.
- (iv) The Lead Partner shall be authorized (this authorization shall be evidenced by submitting a power of attorney, duly notarized, signed by the legally authorized signatories of all the partners and a copy of the said authorization shall be furnished in this Bid) to incur liabilities and receive instructions and furnish clarifications and participate in negotiations for and on behalf of any and all partners of the joint venture during the Bid process till finalization of bid in favour of any bidder or till a final decision is taken on the bids.
- v) There shall be a Joint Venture Agreement specific for the contract between the constituent firms, indicating clearly, amongst other things, the proposed distribution of responsibilities both financial as well as technical for execution of the work amongst them. For the purpose of this clause, the lead partner will be the one defined. A copy of the Joint Venture agreement in accordance with requirements mentioned in submitted along with the bid. The proposal should contain the information required for each member of the Consortium.
- (v) An undertaking signed by all partners stating that JV will, if selected for award of project, incorporate itself as a company under the companies Act 1956 prior to execution of Contract Agreement, is to be enclosed with the bid. The contract agreement shall be signed with the company so incorporated.
- (vi) By submitting the Bid, the Bidder shall be deemed to have acknowledged that it was short-listed on the basis of Technical Capacity and Financial Capacity of Joint Venture Members who will own at least 26% each of the equity of the Company to be incorporated in case the JV is selected for award of work. The Bidder further acknowledges and undertakes that each of such Joint Venture Members shall hold at least 26% of the equity of the Contractor until the completion of the Project is achieved under and in accordance with the provisions of the Contract. The Bidder further acknowledges and agrees that the aforesaid obligation shall be the minimum, and shall be in addition to such other obligations as may be contained in the Contract, and a breach thereof shall, notwithstanding anything to the contrary contained in the Contract, be deemed to be a breach of the Contract and dealt with as such there under and;
- (vii) By submitting the Bid, the Bidder shall also be deemed to have acknowledged and agreed that in the event of a change in control of a Joint Venture Member or an Associate whose Technical Capacity and/ or Financial Capacity was taken into

consideration for the purposes of short-listing and qualification under the Bid process, the Bidder shall inform the Chief Engineer (P&M) forthwith along with all relevant particulars about the same and the Chief Engineer (P&M) may, in his sole discretion, disqualify the Bidder or withdraw the Letter of Acceptance from the Selected Bidder, as the case may be. In the event such change in control occurs after signing of the Agreement, it would, notwithstanding anything to the contrary contained in the Agreement, be deemed to be a breach thereof, and the Agreement shall be liable to be terminated at the sole discretion of the Employer without the Employer being liable in any manner whatsoever to the Contractor. In such an event, notwithstanding anything to the contrary contained in the Agreement, the Chief Engineer (P&M) or Employer shall forfeit and appropriate the Bid Security or Performance Security, as the case may be, as mutually agreed genuine pre-estimated compensation and damages payable to the Employer for, inter alia, time, cost and effort of the Employer, without prejudice to any other right or remedy that may be available hereunder or otherwise.

- (ix) The bid, and in the case of the successful bidder, the Form of Agreement, etc., shall be signed and/ or executed in such a manner as may be required for making it legally binding on all partners (including operative parts of the ensuing Contract in respect of Agreement of Arbitration, etc.). On award of work, the Form of Agreement and Contract Documents shall be signed by all partners of the Joint Venture to conclude Contract Agreement.
- (x) All partners of the Joint Venture shall be liable jointly and severally for the execution of the Contract in accordance with the Contract terms, and a relevant statement to this effect shall be included in the authorization mentioned under sub clause (iv) above as well as in the Form of Bid and the Form of Agreement (in case of a successful bidder).
- xi) In the event of default by any partner, in the execution of his part of (the Contract, the Employer shall be so notified within 30 days by the partner- in-charge, or in the case of the partner-in-charge being the defaulter, by the partner nominated as partner-in-charge of the remaining Joint Venture. The partner-in-charge shall, within 60 days of the said notice, assign the work of the defaulting partner to any other equally competent party acceptable to the Employer to ensure the execution of that part of the Contract, as envisaged at the time of bid. Failure to comply with the above provisions will make the Contractor liable for action by the Employer under the Conditions of Contract.

8 (i) Change in composition of the J.V:

- (a) Change in composition of the J.V may be permitted by the Chief Engineer (P&M) during the bid stage, only where:
 - (i) The Lead Member continues to be the Lead Member of the J.V.
 - (ii) The substitute is at least equal, in terms of Technical Capacity and Financial Capacity, to the J.V. Member who is sought to be submitted and the modified J.V shall continue to meet the pre-qualification and short-listing criteria for Applicants; and

(iii) The new Member(s) expressly adopt(s) the Application already made on behalf of the J.V as if it were a party to it originally, and is not an applicant/Member of any other J.V bidding for this Project.

b) Approval for change in the composition of a J.V shall be at the sole discretion of the Chief Engineer (P&M) and must be approved by him in writing.

(c) The modified/reconstituted J.V shall be required to submit a revised Jt. Bidding Agreement at least five working days before the Financial Bid opening Due Date.

8 (j) The Lead Member of the J.V. to be a registered firm / company having dredging experience of at least three years and has adequate financial capacity to the tune of at least 51% of the financial criteria

8(k) In case the Bidder is a Consortium, it shall comply with the following additional requirements:

(i) Number of members in a consortium shall not exceed 3 (three);

(ii) The proposal should contain the information required for each member of the Consortium;

(iii) Members of the Consortium shall nominate one member as the lead member (the “Lead Member”), who shall have an equity share holding of **at least 51% (fifty one per cent)** of the paid up and subscribed equity of the Contractor during the execution period. The nomination(s) shall be supported by a Power of Attorney, signed by all the other members of the Consortium;

(iv) The Proposal should include a brief description of the roles and responsibilities of individual members, particularly with reference to financial and technical obligations;

(v) The members of a Consortium shall incorporate an appropriate a special purpose vehicle as Contractor under the provisions of Companies Act, 1956, (as their wholly owned subsidiary) to execute the Project, if awarded to the Consortium;

Members of the Consortium shall enter into a binding Joint Bidding Agreement, for the purpose of making the Proposal. The Jt. Bidding Agreement, to be submitted along with the Proposal, shall, inter alia

(a) Convey the intent to form with shareholding/ ownership equity commitment(s) in accordance with this TENDER, which would enter into the Contract and subsequently perform all the obligations of the bidder in terms of the Contract,

(b) Commit that in case such consortium of entities is the Preferred Bidder, the Preferred Bidder shall incorporate a wholly owned special purpose company under the provisions of Indian Companies Act, 1956, as the Contractor; in whose subscribed and paid up capital, the Preferred Bidder shall collectively hold 100% equity during the execution period.

(c) The Lead Member of such Preferred Bidder consortium shall at all time during the License Period hold equity equivalent to at least 51% of the subscribed and paid up capital of the Contractor. Further, other consortium members whose

technical/financial eligibility shall have been used for the purpose of qualification under this TENDER shall hold at least 26% equity in the subscribed and paid up capital of Contractor during the execution period; Provided however that Authority may in its sole and absolute discretion permit a consortium member to divest [in full/partially] its equity shareholding in the subscribed and paid up capital of the Contractor.

- (d) Include a statement to the effect that all members of the Consortium shall be liable jointly and severally for all obligations of the Bidder consortium in relation to the Project until the expiry of the contract.

Except as provided under this TENDER and the Bidding Documents, there shall not be any amendment to the Jt. Bidding Agreement without the prior written consent of the Authority.

No change in the composition of a Consortium will be permitted by the Authority during the Bidding process

- 8(1) In computing the Technical Capacity and Financial Capacity of the Bidder/ Consortium Members, the Technical Capacity and Financial Capacity of their respective Associates would also be eligible as per the terms hereunder.

If the Bidder is a public listed company, it shall submit a copy of its Annual Financial statements for the last 3 (three) financial years preceding the Proposal Due Date clearly setting out the relationship of Associates with the entity whose technical/financial capacity is relied upon. In case a bidder [other than a public listed company], relies on the eligibility capacity of its Associates, they shall be required to submit a Certificate from their respective statutory auditors stating that the entity whose Technical/Financial Capacity is considered for the purposes of this TENDER and the Bidder are Associates in terms hereof. In case the experience of Associate is claimed by a Bidder, the Bidder shall ensure that such entity continues to remain its Associate through the term of Contract.

For purposes of this TENDER, Associate means, in relation to the Bidder/ Consortium Member, a person who controls, is controlled by, or is under the common control with such Bidder/ Consortium Member (the "Associate"). As used in this definition, the expression "control" means, with respect to a person which is a company or corporation, the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such person, and with respect to a person which is not a company or corporation, the power to direct the management and policies of such person by operation of law.

9.0 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.

10.0 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

11.0 If the space in the bid form or in the Appendices thereto is insufficient, additional pages shall be separately added.

12.0 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.

13.0 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.

14.0 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.

15.0 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.

16.0 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.

17.0 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.

18.0 Qualification of the Bidder

18.1 This invitation for online bids is open to all reputed and resourceful contractors having completed similar works i.e. dredging on rivers or ports or contract management of vessels, manning of vessels or vessel related marine works or similar nature of works during last 7 years.

18.2 To qualify for award of the Contract, each bidder should have

- a) Achieved average annual financial turnover during the last 3 years, ending 31st March of the previous financial year of similar works of at least Rs. 2583 lakh (100% of the estimated cost of the amount prescribed in Notice Inviting E-Tender for which bid has been invited).

- b) Satisfactorily completed as a prime contractor of similar works during last seven years ending last day of month previous to the one in which bids are invited should be either of the following:
- i. Three similar works each costing not less than **Rs. 943.20 lakh** (40% of the estimated cost); **or**
 - ii. Two similar works each costing not less than **Rs. 1414.80 lakh** (60% of the estimated cost); **or**
 - iii. One similar work costing not less than **Rs. 1886.40 lakh** (80% of the estimated cost)

The similar work constitutes dredging on rivers or ports or contract management of vessels, manning of vessels or vessel related marine works. The value of executed works shall be brought to the current costing level by enhancing the actual value of work at simple rate of 7% of per annum; calculated from the date of completion to the last date of receipt of application for bids

18.3 (a) Each bidder must produce:

An affidavit on a Stamp Paper, duly attested from the Notary, that the information furnished with the bid documents is correct in all respects; and failure to submit the document as specified shall make the bid non-responsive. Scanned copy to be submitted online.

(b) Each bidder must demonstrate:

evidence of availability of technical, managerial and skilled personnel for this work.

18.4 Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

- (i) made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
- (ii) record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc. or debarring.

18.5 All bidders shall include the scanned copy of following information and documents with their bids online.

(a) Copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder.

(b) Total monetary value of similar works performed for each of the last seven years.

19.0 Each Bidder shall submit only one online Bid for the work. A Bidder who submits more than one Bid will cause the proposals with the Bidder's participation to be disqualified.

20.0 The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Owner will, in no case, be responsible or liable for those costs regardless of the conduct or outcome of the bidding process.

21.0 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms, specifications, forms and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 33 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be rejected.

22.0 Clarification of Bidding Documents

22.1 A prospective Bidder requiring any clarification of the bidding documents may notify the tender inviting authority in writing or by facsimile at the address indicated in the Notice Inviting Tenders. The tender inviting authority will respond to any request for clarification received earlier than 7 days prior to the deadline for submission of bids. Copies of the response will be forwarded to all purchasers of the bidding documents, including a description of the inquiry, but without identifying its source.

22.2 If a pre-bid meeting is to be held, the bidder or his official representative is invited to attend it. Its date, time and address are given in the NIT. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage. The bidder is requested to submit any questions in writing or by fax so as to reach the Owner not later than one week before the meeting. Minutes of the meeting, including the text of the questions raised (without identifying the source of the enquiry) and the responses given will be uploaded. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

23.0 Amendment of Bidding Documents : Before the deadline for online submission of bids, the Owner may modify/amend/make addition in the bidding documents for any reason, whether at its own initiative or in response to clarification requested by a prospective bidder by issuing addenda/corrigendum or minutes of pre-bid meeting. Any addendum/corrigendum or minutes of pre-bid meeting uploaded on website shall be part of the bidding documents. Corrigendum/Addendum will be available on website. The modification /amendment/additions in the bidding document shall be binding on the prospective bidders. To give prospective bidders reasonable time in which to take an corrigendum/addendum into account in preparing their bids, the Owner shall extend, as necessary, the deadline for submission of bids, in accordance with Clause 30.

24.0 Bid Prices : The Contract shall be for the whole Works, as described , based on the cost schedule submitted by the Bidder. The bidder shall quote rates and prices for all items of the Works described in the cost schedule. All duties, taxes, royalties and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder except for service tax which will be reimbursed to the contractor on producing proof of payment. **The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment except the variation on account of POL price.** The prices shall be quoted by the bidder entirely in Indian Rupees. All payments shall be made in Indian Rupees. No re-negotiation of prices after three years is contemplated. Bidder may at his option agree for extension if asked by IWAI. 5% increase for fourth year and 10 % increase for fifth year will be considered. Service tax may be claimed while raising the bill, however, IWAI will reimburse the same as soon as proof of payment is submitted.

25.0 Bid Validity : Bids shall remain valid for a period of **120 days** after the deadline date for bid submission. A bid valid for a shorter period will be treated as non-responsive and shall be rejected.

In exceptional circumstances, prior to expiry of the original time limit, the IWAI may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security.

26.0 Bidder shall submit offers that fully comply with the requirement of the bidding document including conditions of contract. Conditional offer or alternate offer will not be considered further in the process of tender evaluation.

27.0 The Bidder shall submit online bid. The Bid shall contain no overwriting, alterations or additions, except those to comply with instructions issued by the Tender inviting Authority.

28.0 Submission of Bids : The Bidder shall submit online bids. Complete online Bids (including Technical and Financial) must be received by the bid submission closing date and time. The Tender inviting Authority may extend the deadline for submission of bids by issuing an amendment, in which case all rights and obligations of the Owner and the bidders previously subject to the original deadline will then be subject to the new deadline.

29.0 Modification and Withdrawal of Bids : Bidders may modify or withdraw their bids online before the deadline prescribed . Withdrawal or modification of a Bid between the deadline for submission of bids and the expiration of the original period of bid validity specified or as extended pursuant to Clause 25 shall result in the forfeiture of the Bid security .

30.0 Bid Opening and Evaluation

30.1 Online Bid opening shall be carried out in two stages. Firstly, 'Technical Bid' of all the online bids received shall be opened on the date and time mentioned. 'Financial Bid' of those bidders whose technical bid has been determined to be responsive and on evaluation fulfils the criteria shall be opened on a subsequent date, which will be notified to such bidders.

30.2 The Owner will open the online "Technical Bid" of all the bids received , including modifications of Technical Bid made pursuant to Clause 31 in the presence of the bidders/bidders' representatives who choose to attend at the time, date and place specified. In the event of the specified date for the submission of bids being declared a holiday for the Owner, the Bids will be opened at the appointed time and location on the next working day.

30.2.1 Bidder's names, the presence of bid security and such other details, as the Owner may consider appropriate will be announced by the Owner after the opening.

30.3 In all other cases, the amount of Earnest Money, forms and validity shall be announced. Thereafter, the Owner at the opening as the Owner may consider appropriate, will announce the bidders' names and such other details.

30.4 After the opening of the technical bids their evaluation will be taken up with respect to bid security, qualification information and other information furnished in Technical bid thereafter on

fulfilling the criteria laid down in Bid Evaluation, a list will be drawn up of the responsive bids whose financial bids are eligible for consideration.

30.5 The Owner shall inform the bidders, whose technical bids are found responsive, of the date, time and place of opening of the financial bids. The bidders so informed, or their representative, may attend the meeting of online opening of financial bids.

30.6 At the time of the online opening of the 'Financial Bid', the names of the bidders whose bids were found responsive in accordance with clause 30.4 and the Bid prices, the total amount of each bid, and such other details as the Owner may consider appropriate will be announced by the Owner at the time of bid opening.

31.0 Process to be Confidential

Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any attempt by a Bidder to influence the Owner's processing of bids or award decisions may result in the rejection of his Bid

32.0 Clarification of Bids and Contacting the Owner

32.1 During the evaluation of the bids, the owner may, at its discretion, ask the bidder to provide any additional information/clarification in relation to its bids as may be deemed fit by the owner. The bidder shall in all cases where such request has been made by the owner, submit within such period and in such manner as may be specified by the owner in the request so made. Failure of the bidder to furnish such additional information as may be requested by the owner, the owner may in its sole discretion deem such bid as non-responsive. The bidder shall not have any right to challenge the same or any claims arising from such bid being deemed non-responsive by the owner.

32.2 No bidder shall contract the owner on any matter relating to its bid from the time of the bid opening to the time the contract is awarded. Any attempt by the bidder to influence the Owner's bid evaluation, bid comparison or contract award decision may result in the rejection of his bid.

33.0 Examination of Bids and Determination of Responsiveness

During the detailed evaluation of "Technical Bids", the Owner will first determine whether each Bid (a) meets the eligibility criteria (b) is accompanied by the required securities; and (c) is responsive to the requirements of the bidding documents.

After the above process is completed the technical specification/offer of the responsive bidders will be examined with respect to technical specifications provided in the tender document, clarifications, if any, at this stage in respect of the technical parameters offered by the bidder will be sought from the bidders. Thereafter, the bids, which conform, to the terms, conditions, and specifications of the bidding documents, without material deviation or reservation will be considered as responsive for evaluation.

34.0 Evaluation of Bids

34.1 Selection of the bidder for manning, operation and maintenance of CSD units will be based on technical and financial evaluation.

34.2 Technical evaluation shall be based on the offer satisfying the 4 criteria.

(i) The tenderer shall be registered in appropriate class with CPWD, Railways, MES, State PWD/Irrigation Department, Port Trust, IWAI, DCI or any of the state IWT Directorate or similar organization having experience for similar works or non-registered contractors having similar and adequate experience.

(ii) Tenderer must have experience of similar works which constitute dredging on rivers or ports or contract management of vessels, manning of vessels or vessel related marine works or similar nature of works during last 7 years and having done at least one similar work satisfactorily during the last three years costing

i. Three similar works each costing not less than **Rs. 943.20 lakh** (40% of the estimated cost); **or**

ii. Two similar works each costing not less than **Rs. 1414.80 lakh** (60% of the estimated cost); **or**

iii. One similar work costing not less than **Rs. 1886.40 lakh** (80% of the estimated cost)

(iii) Contract non-performance (during preceding 7 years)- to be furnished in format given at **Appendix-1**

(iv) Financial details : Financial performance during preceding 7 years - to be furnished in format given at **Appendix-2**

All the above Appendices should contain full information of last seven years. Non submission of complete information will lead to rejection of bids.

34.3 Verification of the facts furnished by the bidders may be made prior to finalizing the technical evaluation

34.4 If the bidder does not fulfill the above criteria his bid shall be technically disqualified and his financial bid shall not be opened.

34.5 The evaluation of the financial bid will be based on the lowest financial offer received for the work.

35.0 Award of Contract

35.1. Award Criteria: Subject to Clause 36, the Owner will award the Contract to the Bidder after evaluation as per Clause 34.

35.2. Owner's Right to Accept any Bid and to Reject any or all Bids and Split the work or Increase and Decrease work.

Notwithstanding Clause 35.1, the Owner reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Owner's action.

36.0. Notification of Award and Signing of Agreement.

36.1 The bidder whose Bid has been accepted will be notified of the award by the Owner prior to expiration of the Bid validity period and this letter will be called "Letter of Acceptance" or "Work order" which will state the sum that the Owner will pay to the Contractor in consideration of the execution and completion of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

36.2. The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause 38.

36.3. The Agreement will incorporate all correspondence between the Owner and the successful Bidder. It will be signed by the Owner and the successful Bidder after the performance security is furnished and within 15 days of issuance of Letter of Acceptance.

36.4 Upon the furnishing by the successful Bidder of the Performance Security, the other Bidders will be informed that their Bids have been unsuccessful.

37.0 Factors Affecting the Award of the contract.

37.1 The bidder should have its own contract support facilities. The CSD units will be handed over by IWAI, all other support facility that may be required are to be available with the contractor.

37.2 Conformity with the request for bid/tender required and conditions.

37.3 The assessment of the capability of the bidder to meet the terms and conditions.

37.4 The bidder must have executed similar works.

38.0 Performance Security

38.1 Within 15 (fifteen) days after receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Owner a Performance Security of five percent of the Contract Price.

38.2 The performance security shall be either in the form of a Bank Guarantee in the name of the Owner, from a Bank as applicable in case of earnest money / bid security.

38.3 Failure of the successful bidder to comply with the requirement of sub-clause 38.1 shall constitute sufficient ground for cancellation of the award and forfeiture of the bid security.

39.0 Corrupt or Fraudulent Practices

The Owner will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question and

will declare the firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract with Inland Waterways Authority of India and any other agencies, if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for the contractor, or in execution.

The Owner requires the bidders/Contractors to strictly observe the laws against fraud and corruption enforced in India, namely, Prevention of Corruption Act, 1988.

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

40.1 Possession of valid Digital Signature Certificate (DSC) and enrollment/registration of the consultants/bidders on the e-procurement/e-tender portal is a prerequisite for e-tendering.

40.2 Bidder should do the enrollment in the e-Procurement 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.

(The lead company in Joint Venture or Consortium to submit tender online with their digital signature.)

40.3 Bidder need to login to the site through their user ID/ password chosen during enrollment/registration.

40.4 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.

40.5 The DSC that is registered only, should be used by the bidder and should ensure safety of the same.

40.6 Contractor/Bidder may go through the tenders published on the site and download the required tender documents/schedules for the tenders he/she is interested.

40.7 After downloading / getting the tender document/schedules, the Bidder should go through them carefully and then submit the documents as asked.

40.8 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.

40.9 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.

- 40.10 Bidder selects the tender which he/she is interested in by using the search option and then moves it to the 'my favourites' folder.
- 40.11 From the favourites folder, he selects the tender to view all the details indicated.
- 40.12 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.
- 40.13 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.
- 40.14 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 .
- 40.15 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.
- 40.16 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.
- 40.17 While submitting the bids online, the bidder reads the terms & conditions and accepts the same to proceed further to submit the bid packets.
- 40.18 The bidder has to select the payment option as offline to pay the Tender FEE/ EMD as applicable and enter details of the instruments.
- 40.19 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.
- 40.20 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.
- 40.21 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.

- 40.22 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.
- 40.23 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.
- 40.24 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.
- 40.25 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.
- 40.26 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.
- 40.27 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 viewable by unauthorized persons during bid submission & not be viewable by any one until the time of bid opening.
- 40.28 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.
- 40.29 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.
- 40.30 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.
- 40.31 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.
- 40.32 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
- 41.0 IWAI reserves the right to reject any or all bids without assigning any reasons.

APPENDIX – 1

CONTRACT NON-PERFORMANCE (DURING PRECEDING 7 YEARS)

Sl. No.	Name of Contract	Name and Address of employer	Date of award	Date of completion as per contract	Physical status	Reason for non-completion	Any revised date fixed for completion	Whether under Litigation

APPENDIX – 2

FINANCIAL PERFORMANCE (DURING PRECEDING- 7 YEARS)

Sl. No.	Name of Contract	Name and Address of employer	Date of award	Cost of contract	Date of completion as per contract	Actual date of completion	Any cost overrun allowed indicating reasons	Revised cost if any

SECTION-III

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

(to be signed between IWAI and successful bidder on award of work)

INTEGRITY AGREEMENT

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

BETWEEN

Chairperson, Inland Waterways Authority of India represented through Chief Engineer (P&M), 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/ MD/226/2015-16/001) (hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No. 1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years.

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)/Contractor(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 wilful 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 intensions.
- 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 :

Note – The INTEGRITY AGREEMENT will be signed on behalf of Chairperson, IWAI, Noida by the same authority who will sign the remaining part of the agreement.

SECTION-IV

SCHEDULES

SCHEDULE 'A' : Salient Features of the work.

Name of Work : Deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No. 1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years.

Estimated cost of work: The work is estimated to cost Rs 2358.00 lakh for three years. This estimate, however, is given merely as a rough guide.

(a) Earnest Money	:	Rs. 33.58 lakh
(b) Performance Guarantee	:	5% of tendered value.
(c) Security Deposit	:	5% of tendered value.

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

- (i). **Officer inviting tender: - Chief Engineer (P&M), IWAI**
- (ii). **Tender Accepting Authority:- Chairman, IWAI**
- (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:-** included in the estimate
- (v) **Standard Schedule of Rates:-** Not applicable
- (vi) **Specifications to be followed:-** Not applicable
- (vii) **Deviation Limit beyond which clause 16.3, 16.4, 16.5 & 16.6:-** 20%
- (viii) **Competent authority of grant extension of time under clause 34:-**
 - (a) Regional Director (Field), IWAI (if the amount of contract is upto 50 lakhs).
 - (b) Member (Technical), IWAI (if the amount of contract is upto 100 lakhs).
 - (c) Vice-Chairman/ Chairperson, IWAI, Noida (if the cost of contract is more than 100 lakhs & up to 500 lakhs).
 - (d) Chairman, IWAI, Noida (if the amount of contract is more than 500 lakhs).
- (ix) **Competent authority to levy liquidated damages for delay under clause 35:-**
 - (a) Regional Director (Field), IWAI (if the amount of contract is upto 50 lakhs).
 - (b) Member (Technical), IWAI (if the amount of contract is upto 100 lakhs).

- (c) (c) Vice-Chairman/ Chairperson, IWAI, Noida (if the cost of contract is more than 100 lakhs & up to 500 lakhs).
- (d) Chairman, IWAI, Noida (if the amount of contract is more than 500 lakhs).

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

- Engineer-in-Charge with the prior approval of
- (A) Regional Director (Field), IWAI (if the amount of contract is upto 50 lakhs).
 - (B) Regional Director/Engineer-in-Charge with the prior approval of
 - (a) Member Technical), IWAI (if the amount of contract is upto 100 lakhs).
 - (b) Vice-Chairman/Chairperson, IWAI, Noida (if the cost of contract is more than 100 lakhs & up to 500 lakhs).
 - (c) Chairman, IWAI, Noida (if the amount of contract is more than 500 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.			

Allocation of shoal and time period of completion of shoal will be the milestone for that shoal.

(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:-

Engineer-in-Charge with the prior approval of

- (A) Regional Director (Field), IWAI (if the amount of contract is upto 50 lakhs).
- (B) Regional Director/Engineer-in-Charge with the prior approval of
 - (a) Member Technical), IWAI (if the amount of contract is upto 100 lakhs).
 - (b) Vice-Chairman/Chairperson, IWAI, Noida (if the cost of contract is more than 100 lakhs & up to 500 lakhs)
 - (c) Chairman, IWAI, Noida (if the amount of contract is more than 500 lakhs).

(xiv) Incentive for early completion.

Not applicable

SECTION-V 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. (The EIC for each contract shall be mentioned in the work order).
- (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** : Any inland vessel operating in the National Waterway including the dredging units of IWAI for carrying out the work.
- (xx) **Drawings** : means the drawings referred to in the specifications and / or appended with the tender document, any modifications of such drawing approved in writing by the Engineer-in-Charge and shall also include drawings/ charts issued for actual execution of the work time to time by the Engineer-in-Charge.
- (xxi) **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.
- (xxii) **Work/ works**: means work / works to be executed in accordance with the contract.
- (xxiii) Schedules referred to in these conditions shall mean the relevant schedules annexed to the tender papers.
- (xxiv) District specifications means the specifications followed by the State Government in the area where the work is to be executed.
- xxv) 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 ninety 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 in the form of Demand Draft will amount to security deposit of 5% of the contract value of work. Bank guarantee will not be accepted as security deposit.
- 4.2 The total security deposit shall remain with IWAI till the completion of the contract and handing over of the CSD unit back to IWAI 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. Delay due to Force majeure as in the clause no. 27 will not be counted for forfeiture of SD.
- 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.

- 4.7 In case the contractor fails to commence the operation after handing over of the dredging unit to him or when the contractor has defaulted for more than thirty days or when any amount is to be recovered from the contractor as penalty or deduction and the contractor fails to remit such amount even after due notice is given to him in this regard, IWAI at its own discretion may encash the Bank Guarantee furnished as security deposit and /or recover the sum from 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 15 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. The contract will be effective from the day of handing over of the dredging unit after signing of the agreement. However the dredging operations shall be commenced whenever the shoal is identified and allocated. Any delay in handing over will not be counted for any penalty.

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 and charts/drawings issued to the contractor from time to time
 - (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.

Variation in total dredging quantity in a working season will be paid for, if the actual dredging quantity is more than the specified quantities on approval of competent authority.

- 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) 20% 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 plants and equipments required for the execution of dredging works as specified for different stretches of the National Waterway shall be provided / handed over to the contractor by IWAI. The Contractors shall provide and install all additional 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 The contractor shall operate, maintain, repair and safeguard the plants and equipments during the tenancy of the contract in accordance with terms and conditions, specifications of the contract and instructions of the Engineer in Charge.
- 19.3 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 Noida 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 laborer 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-fulfillment of the conditions of the Contract for the benefit of Workers, nonpayment 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 the contractor produces a clearance certificate from the Labour Officer. As soon as the work is virtually completed, the contractor shall apply for clearance certificate to the Labour Officer under intimation to Engineer-in-Charge. The Engineer-in-Charge on the receipt of such communication shall write to Labour Officer to intimate if any complaint is pending against the contractor in respect of the work. 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 received the clearance certificate and the security deposit will be released if otherwise due.

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 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.

(In case of damage to CSD units or its submergence/ capsizing etc. on account of contractor, the wreck removal of the same is at the cost of contractor and insurance in this regard is mandatory. The beneficiary of the insurance policies will be IWAI and amount as considered reasonable for rectification of defects will be paid by IWAI within the amount received from insurance).

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. 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.

(Clarification with regard to point (vi) above, the CSD units will be handed over the contractor and it is the responsibility of the contractor to arrange for any store or tools required during the contract period for maintenance and operation).

- 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 The Engineer in-charge or his representative will allocate the next shoal to be dredged along with the pre-dredging survey chart and estimated quantity to be dredged along with the estimated time of completion of that shoal. After the pre-dredging survey is carried out and quantity of dredging and time required for dredging is assessed, EIC will intimate the same in writing to the contractor.

If the contractor fails to maintain the required progress or to complete the shoal allocated within the estimated time of completion 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 For the first one month after the end date of the shoal LD @ 1.5% per month (pro-rata on day basis) will be levied. This will be computed on the value of the dredging carried out on that location (Shoal). Thereafter i.e. delay more than one month will attract LD @ 1.5 % per month of delay on contract value and to be computed on per day basis.

The liquidated damages will be calculated on the delay of particular location (shoal) on the value of dredging carried out on that location (shoal).

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 crore, 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 on completion of each shoal 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 / pre or post dredging survey charts and quantity calculations.
- 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. Alternatively payment, due to the contractor shall be made by electronic bank transfer / RTGS
- 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.

Clarifications to bidders: The payments will be effected on the actual dredged quantity multiplied by the rate quoted by the contractor. Service tax will be reimbursed. After the third year, 5% increase of rate for fourth year and 10% increase for fifth year will be considered on awarded rate for first three years. Extension will be considered only on satisfactory performance. There is no compensation payable for increase or decrease in no. of shoals. No compensation is payable if the total quantity decreases by 20% (refer Clause 29.9 of Technical and Special Condition of Contract) and for reduction in quantity below 20% the compensation payable by IWAI is mentioned at 29.9 (a) of the Technical Specification & Special Conditions of Contract. This will be computed on quantity less than 20% of the total estimated quantity i.e. 2,24,000 cu.m. for CSD Alaknanda & CSD Mahananda unit together multiplied by 20% of the rate quoted by the contractor and limited to a maximum of Rs. 25.00 lakh per dredging unit in a working season.

CLAUSE – 41: TAXES, DUTIES AND LEVIES ETC.

41.1 The prices shall include all the taxes, levies, cess, octroi, royalty, terminal tax, excise, service tax 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. Service tax as applicable will be reimbursed on production of proof of payment.

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 Noida/ New Delhi 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.

In case the Dispute Resolution Mechanism as mentioned at Clause 29.0 of the Technical and Special Condition of the Contract fails to resolve the dispute, the contractor or IWAI a their own option may resort to arbitration as a last means for settlement of Disputes and Arbitration in accordance with the above clause i.e. Clause 47 of G.C.C.

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: BANNED OR DELISTED FIRMS:

The firm shall give a declaration that they have not been banned or de-listed by any govt. or quasi Govt. agency or public Sector Undertaking

If a firm has been banned by any Govt. or quasi Govt. Agency or PSU, this fact must be clearly stated and it may not be a cause of disqualifying the firm. If the declaration is not given, the bids shall be rejected as non-responsive.

SECTION-VI
TECHNICAL SPECIFICATIONS AND SPECIAL CONDITIONS OF CONTRACT

1.0 **INTRODUCTION:**

Inland Waterways Authority of India is entrusted with the responsibility of development, maintenance and management of National Waterways for the purpose of shipping and safe navigation. The Ganga – Bhagirathi - Hooghly river system between Haldia - Allahabad (1620 kms) is declared as National Waterway No.1 in 1982. The targeted Least Available Depth (LAD) in various stretches of NW-1 is Haldia - Farakka -3.00 m ;Farakka - Patna-2.50 m;Patna - Ghazipur-2.00 m and Ghazipur - Allahabad -1.50 m. To achieve the targeted depth in various stretches of NW-1 as mentioned above, IWAI intends to deploy two nos. cutter suction dredging units (CSD Tapi unit and CSD Tizu unit) in Patna-Buxar stretch of NW-1 on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years to tackle the shoals occurring in the river during the lean season or as per the requirement.

2.0 **Scope of work:**

The scope work of this tender is for undertaking the dredging operations and maintenance of navigable channel between Patna-Buxar stretch of National Waterway No.1 using the departmental dredger CSD Tapi and CSD Tizu unit on contract for three years and extendable on yearly basis on satisfactory performance for another two years at the estimated cost of **Rs.2358 lakh**, as per specification of Bill of Quantity enclosed with the tender document. However in case of exigencies these units can also be deployed in other stretches of National Waterway no.1. The payments will be effected on the actual dredged quantity multiplied by the rate quoted by the contractor. Service tax will be reimbursed. After the third year, 5% increase of rate for fourth year and 10% increase for fifth year will be considered on awarded rate for first three years. Extension will be considered only on satisfactory performance. There is no compensation payable for increase or decrease in no. of shoals. No compensation is payable if the total quantity decreases by 20% (refer Clause 29.9 of Technical and Special Condition of Contract) and for reduction in quantity below 20% the compensation payable by IWAI is mentioned at 29.9 . This will be computed on quantity less than 20% of the total estimated quantity i.e. 2,24,000 cu.m. for CSD Tapi & CSD Tizu unit together multiplied by 20% of the rate quoted by the contractor and limited to a maximum of Rs. 25.00 lakh per dredging unit in a working season.

3.0 **Duration of Work:**

The dredging units (CSD Tapi unit and CSD Tizu unit) is to be handed over to the contractor after the signing of agreement. The period of deployment of these cutter suction dredging units is for a period of three years from the date of handing over of the units to the contractor and extendable on yearly basis on satisfactory performance by another two years.

4.0 **Assessment of dredging in National Waterway No.1:**

The assessed quantity of dredging in various stretches of National Waterway No.-1 is given below:

- a) **Haldia –Rajmahal stretch (595 km)**

- i) **Haldia-Kolkata sub-stretch (140 kms):** About 1.00 lakh cubic meter of dredging is envisaged at the jetties at Haldia, Budge-Budge and BISN for maintaining adequate depth at these locations.
- ii) **Kolkata- Farakka sub-stretch(420 kms):** IWAI has planned to maintain a navigable fairway of 3m LAD. About 17 shoals occur in this stretch having LAD ranging from 1.4 m to 2.7 m and total approximate length of shoals is 8250 meters involving dredging of 4.85 lakh cubic meter.
- iii) **Farakka-Rajmahal sub-stretch (35 kms):** Providing 2.5 m LAD is targeted by IWAI. 6 shoals with LAD ranging from 1.4 m to 1.8 m having total length of shoals as 4500 m and dredging quantity is assessed as 2.27 lakh cubic meter

b) Rajmahal –Allahabad stretch (1025 km)

- i) **Rajmahal- Munger sub-stretch (240 kms):** The targeted LAD is 2.5 m in the stretch. About 31 shoals are normally observed which are tackled through conservancy measures of both types i.e. dredging and bandalling involving total length of the shoals as 13400 meters and the dredging quantity assessed is 3.61 lakh cubic meter.
- ii) **Munger- Patna sub-stretch (185 km):** The targeted LAD is 2.5 m in the stretch. About 50 shoals can be expected to occur involving a total length of shoals as 24150 meters of which 13 shoals are to be tackled by bandalling and remaining 37 shoals by dredging. The total dredging quantity assessed is 7.25 lakh cubic meter.
- iii) **Patna- Buxar sub-stretch (175 km) :** The targeted LAD is 2.5 m in the stretch. About 31 shoals can be expected to occur with an approximate total length of shoals as 30,050 meters which are to be tackled by bandalling and dredging. The dredging quantity estimated is 11.67 lakh cubic meter.
- iv) **Buxar- Varanasi sub-stretch (188 km):** The targeted LAD is 2.0 m in the stretch. About 23shoals involving total length of shoals as 19200 meters are to be tackled. The total assessed quantity of dredging is 7.20 lakh cubic meter.
- v) **Varanasi- Allahabad sub-stretch (237 km):** Due to typical hydro-morphological characteristics of the river in this stretch, the natural LAD goes down to 0.8 m to 1.0 m which leads to formation of very large shoals of even 1000 m length each. It is considered difficult to maintain even 2.0 m LAD with temporary river conservancy measures of bandalling and dredging.

To maintain the required LAD as mentioned above a total quantity of 31.67 lakh cu.m. dredging has been assessed .

The assessed quantity of dredging in Patna-Buxar stretch (175 kms) for maintaining 2.5 m Least Available Depth (LAD) is 11.67 lakh cum. There are about 31 shoals with a total length of 30,050 m in Patna-Buxar stretch to be tackled through dredging. The two CSD units viz. CSD Tapi unit and CSD Tizu unit are proposed to be deployed in Patna-Buxar stretch of NW-1. However in case of exigencies these units can also be deployed in other stretches of National Waterway no. 1.

The data on shoal formation and assessment of dredging quantity in each of these sub-stretches is given for the purpose of indication only. Only information about probable shoals has been mentioned. The shoals will be allocated by EIC and pre-dredging survey charts will be given with quantity to be dredged and time of completion of shoals. The contractor has to do the dredging of the shoal which is allocated to required depth within time allocated by EIC. Rest obligations of remaining quantities to be dredged are of IWAI which will be carried out using other available

departmental dredgers. The given CSD units can be deployed anywhere in NW-1 to provide flexibility to IWAI for tackling critical shoals, no compensation on such account will be payable by IWAI. In case stoppage work due to any emergent situations and delay on this account will be compensated only if the total dredged quantity fall short by more than 20% of total indicated quantity to be dredged. The shoals & their length are probable and are for indication purpose only. The LAD requirement is measured with respect to the actual water level. Value of bench marks will be given by IWAI. Contractor has to establish TBM near to the dredging site as per directions of Surveyor or EIC. Actual water level is the current chart datum of shoal area during pre-dredging survey. The contractor has to tackle the allocated shoal within the time indicated by the EIC in writing.

5.0 Technical Specification of CSD units:

5.1 The CSD Tapi unit comprises of the following:

- a) One cutter suction dredger CSD Tapi
- b) One Tug Rajguru
- c) One Accommodation Boat AB Kedarnath
- d) One Anchor Pontoon and associated dredge pipelines

5.2 The CSD Tizu unit comprises of the following:

- a) One cutter suction dredger CSD Tizu
- b) One Tug Bhagat Singh
- c) One Accommodation Boat HB Sivalik
- d) One Anchor Pontoon and associated dredge pipelines

5.3 The technical specification of the cutter suction dredgers, workboat and accommodation boat are briefly mentioned for the purpose of indication only.

The bidders are requested to inspect the dredgers and associated equipments at their present location in consultation with Field Directors to assess the present condition and quote their price taking in to consideration of the present condition, availability of stores/spare parts etc. Performance parameter etc. are provided.

The CSD units will be handed over to the successful bidders in the respective stretches. All expenditure towards mobilization from one shoal to another is to be borne by successful bidder/contractor. All associated risk and cost are that of the successful bidder/contractor.

The cutter suction dredgers CSD Tapi, CSD Alakananda and CSD Shipra are sister vessels. Similarly CSD Tizu, CSD Mahananda & CSD Jalangi are sister vessels. Details, Year of built of the vessels, Details regarding repair expenditure, Details regarding surveys & Dry docking are also given. The capacities of the dredger are 500 cum/hr and for the purpose of estimation taken as 350 cum/hr for CSD Tapi, CSD Shipra & CSD Alakananda and 300 cum/hr for CSD Tizu, CSD Jalangi and CSD Mahananda.

PRINCIPAL DIMENSIONS AND MAIN PARTICULARS OF CUTTER SUCTION DREDGING UNITS EACH COMPRISING OF ONE NO. CUTTER SUCTION DREDGER, ONE WORKBOAT/ TUG, ONE ACCOMMODATION BOAT AND ONE DUMB ANCHOR PONTOON

A) CUTTER SUCTION DREDGERS:

	CSD Tapi,	CSD Tizu
Dimension		
Length (overall)	42.7 m	40.30 m
Length of pontoon	33.5 m	28.00 m
Breadth (Mld)	9.486 m	7.00 m
Depth (Mld)	2.284 m	2.46 m
Draft		1.20 m
Mean draft (30 T of stores)	1.14 m	
Mean Draft (Fully Loaded)	1.38 m	
Fuel capacity	80m ³	
Main Engine for Dredge Pump		
Make	Cummins	Caterpillar
Model	KTA 38 m2	CAT 35 08 DI- TA
No. of Cylinder	12	
Total max output	895 KW (1200 HP)	855 BHP
RPM	1800	1800
Dredge Pump		
Make	Damen dredging Equipments (Netherlands)	IHC, Holland
Model	BP 5045 HD	MAX 5470643 G
Gland Pump		
Make	Burhani Engineers & Contractors	B.E. Pumps
Model	BEC 80/36	823 kk-IB
Type	Slef- Priming	
Capacity	65 cum/hr. at 8 bar	
Auxiliary Engine		
Make	Cummins	Caterpillar
Model	KTA 19- D(MI)	CAT 3306 DI-TA
HP	550 BHP	285
No. of Cylinder	6	1800
Power for Alternator	65 KVA	
Emergency Gen Set		
Engine Make	Kirloskar oil engine	Cummins
Model	4R 1040 T	538 G4
Power (HP)	82	52
RPM	1500	1500
Alternator make	Crompton Greaves	
Model	GIR 200 SC	
Capacity	50 KVA	
General Service Pump (Driven by Emergency Gen Set)		
Make	B E Pumps	
Model	A-5 120- kk	
Type	Self- Priming	
Capacity	15 cum/hr @ 3.5 bar	
F.W. Cooling system Pump		
Make	B E Pump	
Model	SH 65 – 160 MN -2- 316	
Capacity	30 cum/hr @ 3 bar	
Plate Heat Exchanger		

Make	SONDEX A/S Denmark	
Model	S 19 A-IG-10-86- TMTL73	
Capacity	344.2 kw	
Sewage Discharge Pump		
Make	Allweiler As	
Model	AEBIE200 – IE	
Capacity	7 cum/hr. @3 bar	
General Service Pump (Bilge GS/Deck Wash)		
Make	Johnson Pumps	
Model	CH-40-200, G2M2 TL	
Type	Hoz. Self- priming	
Capacity	25 cum/hr @ 4bar	
Air Compressor (2 Nos.)		
Make	Atlas Copco	INGERSOL
Model	LT- 7-30 KE	231
Capacity	20m ³ /hr. @ 30 bar	
Speed	1500 rpm	
Hydraulic Pump- No.1 (Aux. Engine Driven)		
Make	HY- COM B.V.	IHC
Model	PV 140	3525 VQ 38 A 1786 AA 20 R
Capacity	P= 96 Kw, Q= 320 L pm	
Speed	2500 rpm	
Hydraulic Pump – No. 2 (Aux. Engine Driven)		
Make	HY-COM B.V.	IHC
Capacity	P= 144 kw, Q= 480 L pm	-
Speed	1800 rpm	-
Emergency Hydraulic Pump		
Make	HY-COM B.V.	
Model	ALP 2 – D- 16	
Capacity	17.25 L pm	
Speed	1450 rpm	
Pressure	100 bar	
Ladder Hoisting Winch		
Make	Damen Dredging equipments/ Brevini Power Transmission	HYTOR
Model	BW I/140/2	
Capacity	13 Tons	
Pressure	130 bar	
Cutter Unit Assembly		
Make	Damen Dredging equipments/POCLAIN	IHC
Model	TS CO 45 bladed	5 bladed
Capacity	110 Kw	
Pressure	160 bar	
Side Winches (2 nos.)		
Make	Damen Dredging equipments/ Brevini Power Transmission	HYTOR
Type	BWI/140/2	
Capacity	13 Tons	
Pressure	130 bar	
Spud Tilting Winch		
Make	Damen Dredging equipments/ Brevini Power Transmission	
Model	E 90290 LS	
Capacity	2.5 Tons	
Pressure	195 bar	

Carriage Cylinder		
Make	HYCOM B.V.	HYTOR
Pressure	300 bar	
Spud Clamp Cylinder		
Make	HYCOM B.V.	
Pressure	330 bar	
Spud Hoisting Cylinder		
Make	HYCOM B.V.	HYTORA
Pressure	250 bar	

B) WORKBOAT/ TUGS:

	Multipurpose Tug Rajguru	Tug Bhagat singh
Length (overall)	28.00 m	21.50 m
Breadth (Mld)	7.20 m	7.20 m
Depth	2.60 m	2.0 m
Draft	1.2 m	1.2 m
Fuel Capacity	20 t	6000 ltr.
Bollard Pull	6 T	5 T
Propulsion	Twin Screw	Twin Screw
Make	Cummins	Cummins
Model	NT- 855 M	NT- 855 M
BHP	270 BHP at 1800 RPM	270 BHP at 1800 RPM
Type	Rudder Propeller	Conventional
Make	HRP 2000	
HRP	2000	
Model	2111 WM	
HP	200/ KW	
Model	A 7110 KKTE – 1 B – WCF	
Make	KOEL (25 KVA)	Kirloskar (32 BHP)
Model	3R 1040	HA- 394
Alternator	Crompton	Kirloskar (25 KVA)
Make	KOEL (50 KVA)	Kirloskar (13.3 BHP)
Model	4R 1040 T	TAF 2
Alternator	Crompton	Kirloskar (10 KVA)
Crane		

C) ACCOMMODATION BOAT:

	H.B. Kedarnath, H.B. Sivalik
Dimensions	
LOA	26.5 m
Breadth (Mld)	9.0 m
Depth (Mld)	2.2 m
Draft (Max)	0.8 m
Fuel Capacity	3.68 m ³ (3.06 T)
Generator Engine (2 nos.)	
Make	Kirloskar Oil Engine Ltd.
Model	3 R 1040
Details	43 BHP, Water Cooled, 12 V Electric Start
Alternator (2 nos.)	
Make	Crompton Greaves Ltd.
Model	GIR 160 SC
Details	25 KVA, 415 V, Class H
Bilge/ G.S./ Fire Pumps	
Make	B.E. Pumps Pvt. Ltd.
Model	SH-160 N

Table indicating Year built, Present location, Book Value as on 31.03.2014, Survey Certificate Validity, Insurance Certificate Validity, Last dry docking and Next Schedule dry docking, Quantity Dredged (2011-12, 2012-13, 2013-14), Total Fuel Consumption in (2012-13, 2013-14), Present Condition, Expenditure on Repair for (2012-13, 2014-15)

Sl. No	Name of the Vessel	Year Built	Present Location	Acquisition value (Rs in lakh)	Survey Certificate Validity	Insurance Certificate Validity	Last Dry docking	Next Schedule Dry Docking	
1	CSD Tapi Unit								
a	CSD Tapi	2009	Santhipur	1077.44	CSD Tapi	16.04.2015	New vessel	2015	
b	Tug Rajguru	2011	Santhipur	599.83	Tug Rajguru	17.05.2015	New vessel	2015	
c	AB Kailash	2008	Santhipur	141.02	AB Kailash	16.04.2015	New vessel	2015	
d	Anchor Pontoon	2011	Farakka	23.92	Anchor Pontoon	-	-	-	
		Quantity Dredged Cu.m.		Total Fuel Consumption		Present Condition	Expenditure on Repair (in lakh)		
		2012-13	2013-14	2012-13	2013-14		2012-13	2013-14	
a	CSD Tapi	306845	218387	306682	194192	Operational			
b	Tug Rajguru			58813	59047	Operational			
c	AB Kailash			11774	11680	Operational			
d	Anchor Pontoon								
		Running hours (2012-13)			Running hours (2013-14)				
		Main Engine	Auxiliary Engine Hours	Generator Engine	Main Engine	Auxiliary Engine Hours	Generator Engine		
a	CSD Tapi	1629	2040	1707	960	1272	1081		
b	Tug Rajguru	760		2572	732		2548		
c	AB Kailash			2937			2928		
d	Anchor Pontoon								
Sl. No	Name of the Vessel	Year Built	Present Location	Acquisition value (Rs. in lakh)	Survey Certificate Validity	Insurance Certificate Validity	Last Dry docking	Next Schedule Dry Docking	
2	CSD Tizu Unit								
a	CSD Tizu	2004	Kolkata	622.47	30.05.2015	Valid till 17.05.2015	2015 (under dry-dock)	2019	
b	Tug Bhagat Singh	2003	Kolkata	116.20	30.05.2015	Valid till 17.05.2015	2015 (under dry-dock)	2019	
c	H.B. Sivalik-	2004	Kolkata	57.60	30.05.2015	Valid till 17.05.2015	2015 (under dry-dock)	2019	
d	Anchor Pontoon	2011	Kolkata	23.92					
		Quantity Dredged Cu.m.		Total Fuel Consumption		Present condition	Expenditure on Repair (in lakh)		
		2012-13	2013-14	2012-13	2013-14		2012-13	2013-14	

a	CSD Tizu	22928	78796	25635	50806	Under Dry dock repair	3.50	
b	Tug Bhagat Singh			78439	54205	Under Dry dock repair	1.00	
c	H.B. Sivalik-			11774	11312	Under Dry dock repair	1.00	
d	Anchor Pontoon							
		Running hours (2012-13)			Running hours (2013-14)			
		Main Engine	Auxiliary Engine Hours	Generator Engine	Main Engine	Auxiliary Engine Hours	Generator Engine	
a	CSD Tizu	147	301	926	376	598	1416	
b	Tug Bhagat Singh	908		3317	844		2906	
c	H.B. Sivalik-			2940			2792	
d	Anchor Pontoon	-	-		-	-		

* Book Value as on 31.03.2014

DETAILS OF THE EQUIPMENTS AVAILABLE

S.L. No.	Name of Vessel	Dimensions (meter)				Engine Details (HP)		
		LENGTH	BREADTH	DEPTH	DRAFT	MAIN ENGINE	AUX. ENGINE	GEN.SET
1	CSD Tizu	40.3	7.00	2.46	1.2	855	280	82
	Tug Bhagat Singh	21.5	6.5	2.00	1.2	540	32	14
	A.B. Sivalik	26.5	9.00	2.2	0.8			43
	Anchor pontoon	10	4.5	1.5	0.5			
	Floating pipeline	144 m floater pipeline length (24 nos.x 6m) and 50 m flexible hoses (25 nos.x 2 m)						
2	CSD Tapi	42.7 (OA)	9.48	2.28	1.2	1200	550	82
	Tug Rajguru	28	7.2	2.6	1.2	540	32	14
	A.B. Kailash	26.5	9.00	2.2	0.8			43
	Anchor pontoon	10	4.5	1.5	0.5			
	Floating pipeline							

All the bidders must inspect the dredging units including the accommodation boats for ascertaining the facilities and amenities before bidding. Accommodation boat has sleeping bunks for 20 persons which includes four single cabins for officers. The bidders must inspect the dredging units and their equipment, machineries etc. and carry out assessment themselves on all issues. Detail of the equipment as readily available is given. Bidders should inspect the dredging units and asses themselves on all issues. The Workboat or Tug provided are capable of towing the CSD, Accommodation boat, Anchor Pontoon, Dredge Pipelines etc. from one shoal to another

under two trips. On completion of shoal allocated, EIC will direct to tackle the next critical shoal. Adequate time taken in to consideration for this purpose while arriving at the estimated cost as well as estimated dredging quantity. The shoals to be tackled as and when they are formed. The critical shoals are to be tackled first and this can be determined and allocated by EIC after pre dredging survey. Compensation would be given only when shortfall in dredging quantities is less than 20% in a working season as per clause 29.9 of the Technical and Special Conditions.

6.0 Assessment of Capacity of dredgers:

For the purpose of this tender, the deployment of CSD Tapi unit and CSD Tizu unit is in Patna- Buxar stretch has been taken into account and the capacity of this dredger has been assessed as 1.50 lakh cu.m. in a working season of six months (average output of 25,000 cu.m. per month) and similarly for CSD Tizu unit to be deployed in Patna-Buxar stretch the capacity has been assessed as 1.30 lakh cu.m. in a working season of six months (average output of 21,600 cu.m. per month). Thus the total quantity of dredging to be attended in this stretch by these CSD units works out to 2.80 lakh cu.m. in a working season of six months. Adequate allowance for non-operational days due to repair and maintenance, shoal to shoal movement and other factors have been taken into account while assessing the capacity of the dredging units.

The bidders may inspect the dredging units for assessing the present condition of machineries and equipments available on board the dredging units before bidding. Clarifications, if any, required by the bidder with regard to the condition of the dredging units after inspection of the bidder may be sought prior to or in the pre-bid meeting only.

7.0 Duties and Responsibilities of the contractor:

- a) The primary responsibility of the contractor is to provide adequate manning and in compliance of the statutory requirement of Inland Vessels Act, 1917 (1 of 1917) onboard the entire dredging unit, provide POL and consumables as required for operation of the dredging unit, carry out all repairs including minor repairs, breakdown repairs and statutory annual repairs for validation of the survey certificate as required under I.V. Act, 1917 (except schedule dry docking repairs which will be undertaken by IWAI). All the above functions are to be carried out by the contractor at his own cost for carrying out the dredging work in the shoals assigned from time to time by the Engineer in-charge or his representative. Only Scheduled dry docking repair will be done by IWAI. All remaining repairs to be carried out by contractor including any non-scheduled dry docking repair work on account of accident/grounding etc.
- b) All cost of the dredging and other cost incidental thereto including the operation of the vessels during shoal to shoal movement are to borne by the contractor.
- c) The contractor are required to maintain the following records:
 - i) Daily deck log of each vessel of the dredging unit.
 - ii) Daily engine log of each vessel of the dredging unit.
 - iii) Record of POL supplied to each vessel of the dredging unit and the actual consumption thereof to be recorded daily in the engine log.

These records are necessary to be maintained as the same CSD units can be offered again by tendering after completion of contract.

- iv) Consumables supplied onboard each vessel of the dredging unit and consumed during the month.
- v) Detail of the repairs undertaken during the month on each vessel of the dredging unit.
- vi) Attendance register of the manpower deployed on each vessel of the dredging unit.

The above records maintained by the contractor are to be made available during the inspection of Engineer in-charge or his representative for verification. The contractor may also be required to submit a copy of the same to the Engineer in-charge every month, in the first week of the next month. Payments on completion of shoals or part thereof on monthly basis will be considered. Hence contractor may raise monthly bills during the entire period of contract.

- d) Manning – For operating the dredging unit the contractor has to ensure that qualified/trained, competency certificate holders, personnel with adequate experience in the relevant field for Dredge Master (DM)/ Dredge Supervisor, Dredge Control Officer (DCO), Masters, Drivers, Greasers and crews as per the statutory requirement of Inland Vessels Act, 1917 (1 of 1917) and nature of work. The contractor shall carry out the dredging operation as per the directives of the Engineer In-charge (E-I-C) or his representative.

The contractors should maintain adequate number of crew as reserve in their pay roll so that weekly, Gazetted leave and other leaves and exigencies can be accommodated by the Contractor. All the Crew particularly Master, Driver shall have valid certificates of competency issued by the Statutory Body/MMD as the case may be. The NINI trained Greasers, Lascars, Secunny or with adequate experience of minimum five years from reputed operators are to be deployed. The contractor shall comply with the provision of Statutory Authority applicable in relation to execution of works by the Crew.

The Contractor shall assign a person who is the overall in-charge of the dredging unit and will also be responsible to act as a Liaison Officer for interacting/communicating between IWAI (Engineer In-charge/Engineers representative and any other Supervisor or Officer connected with the Dredging activity in the respective stretches. The Liaison Officer shall have independent means of communication (mobile/fax/telephone facility) to enable to be contacted even during emergency situation.

The contractor shall ensure to provide uniform, safety gear to the crew deployed on board the vessels of the dredging unit and provide all facilities as per marine practice.

The Crew member/watchman shall be in uniform while on duty. Food & other facilities as per labour and Marine Law for the Crew shall be arranged by the Contractor and all expenses in this regard are to be borne by the contractor.

The contractor will be overall responsible for the security of the vessels.

Bio metric attendance machines whenever installed on each vessel of the unit. The contractor shall be responsible for maintenance and safety of the machines.

The contractor has to ensure the wages as per the minimum wages act and as prevailing in the marine sector depending on their qualification, competency etc. All the statutory allowances such as PF, ESI, Bonus, Group Insurance are to be provided to each staff as prevailing. The manning details, their qualification, experience, COC (certificate of Competency) are given at Sl. 46, the contractor to deploy their own manning complying to provisions under IV Act, 1917 & applicable rules and operational requirement

- e) General upkeep, maintenance of the CSD Unit will be contractor's responsibility. This includes normal routine maintenance and cleanliness of the CSD Unit, proper mooring and berthing of the CSD Unit and carry put repair work so as to keep the vessel ready and fit for operation.
- f) Repair & Maintenance: The defects arising in the machinery, equipment, outfit etc. or in the vessel are to be attended to immediately by the contractor. All minor repairs to be attended immediately as an when noticed. The repair of major machineries to be carried out through the authorized dealers and genuine spare parts to be utilised. The contractor has to undertake all repairs at his own cost and only the scheduled dry docking repairs will be carried out by IWAI. The routine maintenance of the machineries shall be carried out as per the marine standard practice in consultation with mechanical supervisor of IWAI and recorded in history register. The detail of the maintenance work carried out for each unit shall be submitted along with monthly bill. All repair works which are to be carried out by the contractor will be duly intimated to the Engineer in-charge and who will ensure that necessary verification/certification by concerned departmental supervisor is carried out.

However it is explicitly clarified that:-

- i) The bidders must get all information on the nature of repair works, availability of repairing facilities and get satisfied for the repair and maintenance work for the dredging units. All expenditure towards repair and maintenance including breakdown repairs will be borne by the contractors/bidders. They have to ensure that repair are expeditiously carried out as and when noticed without interruption of dredging during working season and to prevent or minimize breakdown time as much as feasible. All repairs cost is to be borne by the contractor except for scheduled dry docking repairs. During the scheduled dry docking of the cutter suction dredgers all related works need to be carried out will be attended to and cost borne by IWAI.
 - ii) IWAI will hand over the dredging units in operational condition during Handing Over and similarly while taking back, it should be ensured by the bidders that all the units are in operational condition. For any shortcoming, IWAI will note down the repairs to be undertaken by the contractors/bidders to make CSD units operational.
 - iii) The upper limit for the repair & maintenance including spares is Rs. 198.00 lakh for two cutter suction dredging units for three years. Expenditure upto this limit is to be borne by the contractor. In case the expenditure exceeds the above specified limit than based on the Technical Evaluation Report of a duly constituted committee, additional reasonable cost will be considered and provided that no such excess repair expenditure is on account of the fault of the contractor. All major repair work other than dry docking shall be the obligation of the bidders. All repairs to be undertaken by the contractor except scheduled dry-docking repairs.
- g) Consumables and Stores: All running stores, consumables and miscellaneous items

including bulbs, fuses, cotton rags waste cotton, soap, fresh water etc. will have to be provided by the contractor. The details of the supply of consumable items will be submitted along with the monthly bill. The cost of all the consumable to be borne by the contractor.

h) Fuel and Lubricants: Fuel HSD and lubricants for Main Engines Gear Box, Hydraulic Oil etc. shall be arranged to be taken/stored on board at regular intervals by the contractor. The replenishments shall be so arranged that it does not affect the normal operation of the CSD Unit. Only the appropriate grade/quality of fuel and lubricants shall be used. All costs of fuel, lubricants and consumables are to be borne by the contractor. IWAI at its discretion may send the sample of POL testing. All costs of POL consumable and laboratory fees for POL testing are to be borne by the contractor. The consumption of the fuel is given and same to be as of marine quality and requirement of the type of Main and Auxiliary engines. Since no repair facilities available in the project sites, IWAI will carry out dry docking repairs at Kolkata and same to be carried out, during non-working period only. Only scheduled dry docking repairs will be undertaken by IWAI.

i) **PURCHASE & SUPPLY OF POL:**

(i) The Contractor shall purchase the fuel for the dredging units from the authorised dealers/retailers of the public sector oil company i.e. IOC, BPCL, HPCL etc. IWAI shall give the list in this regard separately.

The contractor will furnish a list if IOC/HPCL/BPCL depot or outlets from where HSD is purchased and EIC will approve few outlets from the list of outlets submitted by the contractor. The HSD will have to be purchased through these approved depot or outlets only.

(ii) Each supply shall be measured and supplied on the dredging unit either directly to work boat/tug or dredger. The quantity supplied on each occasion shall be recorded on the log books maintained for each vessel of the unit. A separate register on the supply of fuel shall be maintained for each unit & certified by Contractor's representative, IWAI's supervisor / site-in charge.

(iii) The transfer of fuel from workboat to dredger or to accommodation boat shall be measured and recorded on the log books of respective vessels with certified by Contractor's representative, IWAI's supervisor / site-in charge.

j) **CERTIFICATES, INSURANCE & SURETY :**

The contractor shall be responsible for obtaining valid statutory or any other certificates in accordance to the I.V. Act of 1917. The CSD Unit is to be surveyed/ inspected by the concerned authorities and repaired as recommended all the Survey expenses for this purpose shall be borne by the contractor. All necessary Survey certificates as available with IWAI and copy of same will be handed over to the successful tenderer. It will be the duty of the contractor to keep all the certificates valid, updated as and when required.

k) **INSURANCE:**

For the purpose of insurance , the cost of the CSD Unit is to be taken as per present book value. The insurance has to done by the contractor in the following manner:

- (a)The vessel including hull and machinery.
- (b)Comprehensive insurance.
- (c)Insurance for the Crew deployed by the Contractor.
- (d)Insurance for wreck removable etc.

The documentary proof of all the above three insurances will have to be submitted to IWAI by the Contractor prior to commencement of operation. IWAI shall be the beneficiary of the first two policies (a) & (b). The third insurance i.e. for the Crew of the CSD Unit shall be entirely the contractor's responsibility. The cost of the premium of all the above insurance policies will have to be borne by the contractor. The documentary proof of all the above insurances insurance will have to be submitted to IWAI by the contractor prior to commencement of the operation. IWAI shall be the beneficiary for the above insurance. The contractor has to arrange all the above insurance at his own cost. The contractor will also take the insurance for the crew of the CSD unit at his own cost and will indemnify the authority for any loss/ mishap incurred/ occurred in this regard.

IWAI does not maintain certificates of class survey. Third party inspection will be done at the time of handing over and taking over of vessels. The third party inspection will be carried out jointly with the successful bidder and IWAI. Cost of third party inspections through approved surveyors during handing over and taking over will be borne by the contractor. The contractor may suggest one or two such surveyors & IWAI will select one of them. Alternatively, third party inspection may be carried out by IRS (Indian Register Of Shipping). Maintenance of log books, attendance register etc. are required be done as per the tender specification/ requirement.

CSD units of IWAI are not covered under H&M and P&I Insurance policies and presently only under comprehensive policies covering damages to hull, machineries, theft and third party as per requirement of I.V. Act which don't cover the wreck removal. It is therefore beside the comprehensive insurance policies, the bidders to ensure coverage for wreck removal as well at their own expenditure. The validity details of Insurance are given. On the issue of obtaining the benefit under the policies a mechanism is to be evolved with IWAI after signing the agreement.

8.0 OPERATION:

The CSD Unit shall be under the operational command of the concerned Regional Director of IWAI i.e. Patna/Kolkata in NW-1 or his authorized representative and contractor shall be bound to carry out all legal and feasible operation ordered by the concerned field Director of IWAI or his authorized officer. The CSD Unit may have to ply in the river and estuary at any time during day or night within the permissible plying limits. The CSD Unit shall be made ready for operation within 1 hour of receiving appropriate order from the authorized officer. The dredger if in operational condition to be made ready for operation in 4 hours (1/2 day and if in non-operational or repair as soon as repairs are completed. Non-utilization of the dredger due to repair is on contractor account ready for operation in 4 hours means mobilizing the dredging unit to a particular shoal. Although night navigation has been provided in these stretches but generally the operation is limited from dawn to dusk as only one set of crew is catered for.

9.0 LAW OF THE LAND:

All relevant rules and regulations regarding Trade Union, Labour, Marine and Pollution Control have to be complied by the Contractor at their own coat. IWAI shall be at liberty to deduct

appropriate amount from the pending bills of the contractor in case the contractor fail to comply with the relevant rules, and regulations and the consequential damages are to be borne by IWAI

10.0 SERVICE TAX:

The tenderer while quoting for the rate based on the above, may quote the service tax as applicable separately and the service tax shall be reimbursed on production of the original receipt/documents and the submission of same by the contractor.

11.0 OWNERSHIP:

11.1 Handing over of the CSD Unit for operation & maintenance does not imply any transfer of ownership. IWAI will remain the rightful owner of the CSD Unit in all respects.

11.2 In case of any damage to any of IWAI's assets including the CSD Unit due to improper handling/mishandling of the dredging unit by the contractor or his crew, then the same shall repaired/renewed to pre-damage status by the contractor forthwith. In case such damages are not repaired/renewed by the contractor then concerned filed Director or EIC shall have the rights to get the same done by whatever means found appropriate and the costs of the same shall be recovered from the contractor. Third party inspection is also agreed and the cost for the same is to be borne by the contractor.

12.0 TERMINATION:

The contract can be terminated by either party after duly serving notice for minimum one month.

13.0 HANDING OVER & TAKING OVER OF CSD UNIT:

13.1 Handing Over & Taking Over Note:

The CSD Unit will be formally handed over to the contractor on signing the Agreement. The contractor shall be responsible for safety and working readiness of the CSD Unit and it's part & fittings till such time when the CSD Unit is handed back to IWAI. IWAI's acceptance signed by the authorized officer only shall relieve the contractor of his responsibility. One detail handing over and taking over note of the CSD Unit is to be prepared and signed by the tenderer and EIC which shall form the part of the contract. The handing over and taking over note shall include the machinery and spare parts. On expiry of the contract period or termination or otherwise, the dredging unit shall be returned to IWAI as per the handing over and taking over note except the consumables which have been consumed over the contract period. The condition of the hull and machinery are to be checked and ensured that no substantial damages have been sustained while returning the unit to IWAI.

13.2 The dredging units will be handed over to the contractor or taken over by IWAI on completion of contract in Farakka-Bhagalpur stretch of NW.1. Mobilization / demobilization charges from the place of handing over of the dredging unit to the specified sub-stretch will not be payable extra. The Contract price will include the cost of mobilization / demobilization charges etc. No shifting charges will be payable to the contractor for shifting the dredger / work boat / Tug / accommodation vessels etc., from one shoal to another. At the end of the dredging season or during the non -working season, the Contractor will be required to place the unit for safe berthing or to the place of dry docking specified by the EIC at no extra cost.

The starting date of contract will be from the date of handing over of the units. Third party inspection will be involved at the time of taking over and handing over of the vessel. There will

be no allowances for making operational in case of deficiency. The bidders to account for the same after assessing the condition of the hull, machineries etc.

14.0 DREDGING OPERATION:

14.1 The material to be dredged is silt, sand, coarse sand or mixture of above materials. Materials dredged may be disposed on to the flanks of the waterway or to locations away from the navigational channel keeping in view the direction of river flow and the river behaviour at the shoal location with the primary objective of preventing return flow of the dredged material to the navigational channel.

14.2 The disposal site shall be selected in consultation with the Engineer – in – Charge’s representative. It shall be the responsibility of the Contractor to ensure that disposal of dredged material do not cause obstruction to any movement of vessels in the waterway.

14.3 The shoal(s) to be dredged shall be informed to the Contractor by Engineer – in – Charge (EIC) or his representative in writing based on the identification of such locations through fortnightly talweg surveys, report from waterway users or any other inputs received by the EIC.

14.4 Pre-dredging hydrographic survey of the shoal area shall be carried out by IWAI in presence of an accredited representative of the Contractor. The cross-sections shall be 10m apart and soundings shall be taken continuously and plotted at 4m interval on the cross section lines. The cross-sections shall be extended up to 30m. beyond the limits of the channel on either side. The records of such joint survey shall be duly signed by representatives of both IWAI and the Contractor.

The pre and post dredging survey will be carried out utilizing the FRP boat available on the dredger or FRP boat provided by IWAI. The JHS of IWAI will carry out the pre dredging survey along with the representative of the contractor. While IWAI will provide the instruments for the survey, the contractor will have to arrange for the running of the FRP boat including its fuel. The contractor will be responsible for proper manning of the FRP boat as an when required and also keep the boat and OBM in operational condition at their own cost. The pre & post dredging survey shall be conducted by using automatic hydrographic survey system using reputed /branded hydrographic survey software. Recording type digital echosounder having 0.1 m accuracy for depth measurement shall be used for survey purpose and same will be provided by IWAI.

Temporary Bench Mark (TBM) if necessary will be constructed near the dredging site and maintain from pre dredging to post dredging survey. The contractor will provide assistance to IWAI for constructing the temporary Bench Mark.

Automatic Tide Gauge or manual graduated wooden tide gauge is to be erected near the dredging site and leveled with temporary Bench Mark. Water level (WL) shall be observed during survey & dredging period. TBM and gauge reading are also required to be photographed.

Bank to bank cross- section survey lines (limited to max. 500m width during pre-dredging survey and 100m on either side of dredged channel during post dredging survey) are to be run at 25 m interval. 3 to 4 float measurements are required to be carried out to access the direction of flow and current measurement.

Chart is to be prepared in 1:1, 200 scale with sorting of sounding at 4 m interval. IWAI will prepare the survey charts and submit 3 set of chart along with raw, edit, sort and all survey related

records on soft copy (DVD). IWAI will issue 01 copy of approved charts to the contractor. Hard copy and soft copy of survey data along with quantity calculation (excel sheets) be forwarded within 05 working days of completion of survey.

14.5 The Engineer in Charge, as soon as possible after the survey, prepare and issue a pre-dredging survey chart (3 sets) duly showing therein the alignment and dimensions of the dredge area for enabling the Contractor deploy the dredger. The dredge alignment shall thereafter be physically marked jointly by the EIC's representative and Contractor's representative. Material and manpower required for the above marking shall be provided by the Contractor.

14.6 The navigational channel is required to be dredged to obtain a channel of 45 m bottom width and 2.50 m depth below datum level. The side slopes shall be as naturally formed but for the purpose of determining the dredged quantity, side slope up to a maximum of 1 in 10 will be allowed on either side of the channel.

14.7 The tolerance allowable in width shall be 2 m on each side from C/L of channel and that in depth (+) 50 cm from the specified depth. Depth could exceed beyond the specified minimum depth for which payment will be limited to (+) 50 cm. Quantities on account of depth exceeding (+) 50 cm and width exceeding the specified tolerance limit will not be considered for payment.

14.8 The contractor on the dredging of a shoal shall report to the Engineer in Charge in writing to undertake the post dredging survey as per the contract provisions. Joint post dredging survey shall be carried out similar to the pre-dredging survey with the same references for horizontal and vertical controls. In case of longer shoals, the EIC shall decide the requirement of interim post dredging surveys for a minimum length of 250m for assessing the dredged quantity. 3 copies of the post dredging survey chart shall be issued to the contractor by EIC. The scale of pre and post surveys charts should be 1:1200. The contractor shall work out the dredged quantity based on the pre and post dredging survey charts and submit copies of the charts and calculations in support of his claim for the quantity dredged.

14.9 In any shoal, if the depth or width in the dredged channel is observed to be less than the specified requirements, the Engineer-in-charge will examine the short comings keeping in view the navigational requirements and his decision to accept the work done or to order re-dredging of the channel to improve the navigation shall be final and binding on the contractor.

14.10 Sounding boat & equipments and competent survey officers / staff required for conducting pre and post dredging surveys shall be arranged by the IWAI, whereas required assistance / manpower / materials to facilitate the pre and post survey activities shall be provided by the contractor at no extra cost. Generally, recording type echo-sounder shall be used in all survey work. However, keeping in view the site conditions and practicability / weather, the Engineer-in-Charge shall decide upon the method of measurement to be adopted.

14.11 Area of cross-section shall be computed by using Simpson's Rule and these cross-sectional areas shall be used in trapezoidal rule to arrive at Volume dredged. The areas shall be computed by a combination of Simpson's rule and average method in case the width of channel is not suitable for direct application of Simpson's rule for full width. This aspect is to be decided by the Engineer-in-Charge and same shall be final and binding on the contractor. No re-siltation of the dredged quantity will be taken into account as the post dredging survey will be carried out at the close intervals of 3 to 4 days.

14.12 Progress register shall be maintained in each dredger to monitor the day to day progress of dredging. The daily observations viz., length of dredging, width of cut, depth of cut (with respect

to fixed datum level), approximate quantity dredged, details of anchor shifting, disposal pipeline works etc. The register shall be maintained on daily basis by the Supervisor of IWAI posted at site.

14.13 Based on the records maintained by the Supervisor, IWAI, an weekly report shall be prepared and submitted indicating the overall length and tentative quantity dredged to the regional office / Engineer in Charge / Competent Authority of IWAI to monitor the progress of dredging on each shoal.

The following clarification with regard to survey are applicable:

- a) The width of navigation channel to be dredged shall generally be 45 m (bottom width) with side slope of 1:5. The cross section shall be 25 m apart. Scale of the chart shall be 1:1200.
- b) As resiltation rate cannot be assessed and no resiltation factor kept, bidders to factor this in their bid price/rate. However the post dredging survey would be carried out in short spans in after 72 hours or as soon as clear 150 m length of dredged area is available for carrying out post dredging survey.
- c) The depth of the shoals may vary from 0.5 to 1.8 mt.
- d) The shoals will be identified by EIC or his representative and contractor will be provided with the pre dredging survey charts estimated dredge quantity and time for completion of shoal.
- e) Recording type digital echosounder Bathy 500 MF, DGPS receiver, HYPACK hydrographic survey software are available with the IWAI
- f) Arrangement of automatic tide gauges/ manual tide gauge and their erection etc. shall be the responsibility of IWAI at their cost.
- g) Further Allowances towards dredging depth and width not agreed to.
- h) Automatic tide gauge or manual tide gauge is to be erected near the dredging site and leveled with temporary bench mark (TBM). The contractor will provide ATG/ manual tide gauge at construct TBM at site as per the direction of EIC/ JHS, IWAI.
- i) Contractor is responsible for arranging instrument / current meter for the float current measurement.
- j) Joint Survey is to be done and responsibility lies with contractor and IWAI. TBM and gauge shall be arranged by contractor and contractor responsibility for maintenance.
- k) Pre-dredging and Post dredging survey is the mode of survey and after dredging every 150 m post dredging survey is to be carried out.
- l) Contractor will have to provide their own security for carry out effective dredge operation.

15.0 Normal barge and vessels / crafts movement in the channel shall not be interrupted by the dredging operation. The hindrance to movement of barges to be minimized as much as feasible during dredging operation in consultation with EIC.

16.0 No idle time charges will be paid to the contractor on any account. The only compensation provided limited to Rs. 25.00 lakh per dredging unit in case IWAI does not ensure to provide minimum dredged quantity per working season as per Clause 29.9.

17.0 The contractor shall arrange the transits, buoys, lights, mooring etc. at their own cost as required for dredging and also for cautioning other vessels in the waterway.

18.0 The Engineer-in-charge or his representative will inspect, co-ordinate, measure and certify the dredging work and will have the right to inspect at any time during the contract period for which contractor's authorized agent shall be available at site during such inspection.

19.0 The contractor may execute the dredging work on all working days except National Holidays subject to such restriction as may be imposed by State Govt. / local body.

20.0 If the contractor's personnel or any outside labour employed in the work for execution of contract, breaks or damages / destroys any vessel, craft or property of any third party during the period of agreement, the same shall be made good by the contractor at his own expenses or in default, the IWAI may cause the same to be made good by other sources and deduct the expenses from any sums that may be then or at any time thereafter may become due to the contractor.

21.0 The rate of dredging quoted per cu.m. will squarely and totally include all the charges to be paid to the contractor by the Authority.

22.0 The contractor will submit to authority a bill in triplicate for shoal dredged corresponding to a length and quantity to the Engineer-in-Charge, which could be decided after the pre-dredging survey depending on length of each shoal to be dredged. The running bills for dredging shall be accompanied with 3 sets each of pre and post dredging survey charts and also detailed calculations of dredging quantity (both area and volume).

23.0 The CSD unit is to be kept ready for operation in period of lean season from 1st October to 31st May of the succeeding year. All major repairs to be completed in the flood season from 1st June to 30th September. The working season will generally comprise of 180 days during which dredgers are to be kept in operational condition. The statutory manpower shall be deployed on board CSD unit for operation of the dredger in lean season. Full complement for workboat(s) will be kept year around. The minimum required manpower for the cutter suction dredger for the safe keeping as well as repairs of the dredger to be deployed during the remaining period.

24.0 All defects as and when arising are to be quickly attended by the contractor, to ensure that the dredger does not remain idle for more than 72 hours during the lean season.

25.0 The contractor will have to maintain or ensure.

- a) Attendance Register(s) of the crew deployed.
- b) Log Books (both Engine & Deck log) separately for Cutter Suction Dredger, Tug/ Workboat and Accommodation boats.
- c) The incoming quantity of HSD to be entered into the log books.
- d) HSD to be procured in bulk from nearest IOCL/BPCL Depot or from authorized outlet designated by nearest IOCL/BPCL Depot.
- e) The replenishment of Fuels or Lubricants shall be so arranged that it does not affect the normal operation of CSD unit.
- f) All running stores, consumables and miscellaneous items including bulbs, fuses cotton rags waste, soap, fresh water etc. will have to be provided by the contractor.

26.0 No structural modifications or changes to be made to CSD unit. Minor changes necessary from increasing operational efficiency will be carried out only with prior approval of the Owner (IWAI). The cost/ expenditure on this account will be borne by the contractor.

27.0 PAYMENT TO THE CONTRACTOR:

All the cost towards the operation of the CSD units will be borne by the contractor and IWAI will make payment on the following basis:

- a) Monthly Fixed Payment of Rs. 4.00 lakh will be paid to the contractor for each CSD unit and the same will be adjusted from the running bills claimed by the contractor based on

the actual quantity dredged.

- b) On Completion of the dredging in a particular shoal location, the payment based on the actual quantity dredged and multiplied by the rate per cu.m. quoted by the contractor will become payable. After adjustment of the monthly fixed payment mentioned above, the balance amount would be released to the contractor.
- c) The price variation on account of POL will be applicable as follows:

Payment for escalation in fuel cost could be only for the quantity dredged and as per the standard formula applicable in that regard as below;

Price for dredging will be subjected to adjustment on account of variation of price of diesel according to the formula given below;

$$V = \frac{(P - P_0) \times R \times Q}{P_0}$$

Where,

V= Variation in price on account of diesel during the month under consideration

P₀= Price of diesel at the project area at the time opening of tender

P= Price of diesel for the month under consideration

Q= Diesel element factor in the unit rate and taken as 0.30

R= Value of the dredging work for the shoal dredged under consideration during the month under consideration as per relevant measurement records.

- d) The payments will be released within one month of claim of bills.
- e) Rs. 4.00 lakh will be paid monthly only & same would be adjusted thereafter from monthly claims during working season.
- f) There will be no increase from the specified Rs. 4.00 lakh per month per CSD unit paid during non-working season.
- g) Dredging units to be manned as per the statutory and safe manning as per relevant rules and regulation during flood season also for safety, annual repair and maintenance. etc.
- h) IWAI will withdraw the tug only during emergent needs if at all it arises and for such idle time, compensation will be payable if only minimum guaranteed dredging quantity is not made available to the contractor. Expenditure on HSD will be borne and paid by IWAI.
- i) The payment will released on actual dredged quantity basis.
- j) Mobilization advance is not considered. The contractor has to ensure availability of adequate funds for operation of the dredgers.
- k) For the price variation on account of POL the diesel element factor in the unit rate and is now revised and taken as 0.30.

28.0 SUPERVISION & MONITORING:.

- i) The details of the dredging i.e. commencement & completion of dredging, no. of anchor

shifting, pipe line assembling & shifting, obstructions if any, advancement, sweep/swing, average depth of cut, current/velocity on daily basis to be recorded in a separate register with duly certified by the supervisor or site in charge.

ii) In case it is necessary for carrying out dredging operation through jetting, the same is to be recorded with justification and certified by the supervisor or site in charge.

iii) The running hour of main engine and auxiliaries shall be recorded on the log books which shall be checked and certified by the supervisor or Site in charge.

iv) The purpose of running of the machineries is to be recorded on each occasion.

v) The measurement of the running hours of the main & auxiliary engines shall be carried out with the help of tachometer if installed. The tachometer shall be maintained and calibrated on each occasion. In case tachometer has not been installed, measurement of the running hours shall be with the help of Marine clock with proper maintenance.

vi) A digital monitoring device (through online basis) for vessel tracking and engine log data is to be installed on each vessel of dredging units. The data as obtained for each engine for a month from the digital devices shall be generated & compared with the data on engine running hours as received manually.

vii) The contractor shall be responsible for maintenance and safety of the machines.

viii) Both engine and deck log books as supplied by IWAI shall be maintained on daily basis with all relevant information and data.

ix) The engine log books shall invariably indicate the details of the fuel consumed, transferred and received on daily basis.

x) Both the log books are to be verified and certified by the site engineer on daily basis. In case, any vessel is away from the dredging site, the log books are to be verified and certified by the site engineer on arrival of the vessel.

xi) The Director or his representative must verify the log books once in a week.

xii) Manpower with requisite competency certificate, qualification and experience to be deployed with prior approval of the Director and any change in manpower subsequently will be done on approval of the Director. The manning pattern usually deployed for a dredging unit is indicated below. However, the additional man power for effective repair, maintenance, spare part management, dredging operation etc. the bidder is free to deploy additional manpower. Compliance of IV Act and Rules applicable to be strictly followed.

1) **Dredger** : a) Dredger Master ; b) DCO; c) Licensed Engine Driver; d) Driver 1st Class; e) Greaser; f) Lascar- 2nos ; g) Pipeline in-charge; h) Pipeline Assistant ,
2) **Workboat** : a) Master 2nd Class; b) Driver 1st Class ; c) Greaser ; d) Lascar; e) Cook ,
3) **Acco boat & Anchor Pontoon**: a) Greaser; b) Lascar ; c) Lascar; d) Cook

xiii) Effective supervision and monitoring mechanism to be in place for recording the details of the dredging i.e. commencement and completion of dredging, no. of anchor shifting, assembling and shifting of pipelines, no. of spud hoisting and lowering, advancement of the dredger every hour to be recorded and maintained by the supervisors posted by IWAI on the dredger.

29.0 DISPUTE RESOLUTION MECHANISM

29.1 The payment to be effected on actual quantity dredged and post dredging survey to be carried out once in 3 days. The frequency of post dredging survey being not more than 72 hours no resiltation will be considered.

29.2 The quantity based on pre dredging survey will be estimated and this has to be intimated to the contractor along with the pre dredging survey chart.

29.3 One JHS will be posted on the dredging site who will be responsible for both pre dredging and post dredging survey. Both pre and post dredging survey to be carried out jointly with the contractor, to avoid disputes as far as possible.

29.4 One FRP survey boat, will be given at the disposal of the contractor, who will be responsible for its upkeep and maintenance, to facilitate post dredging survey. The contractor will have to man, operate and maintain the FRP boat at his own cost. The equipments for survey, laptop etc. will be provided by IWAI.

29.5 Quantity dredged over the estimated dredging quantity for each shoal will be checked and settled by Field Director will settle all claims in this regard up to 10% excess dredged quantity.

29.6 In case, the dredged time for dredging a particular shoal is abnormally high and not an any delay on part of the contractor, the Field Director will ensure that any dispute arising on this account is settled expeditiously.

29.7 In case the dredged quantity is in excess of 10% of the estimated quantity in pre dredging survey, the report of the same along with all relevant details are to be referred to a committee comprising of Chief Engineer (P&M), concerned Field Director and one Senior Hydrographic Surveyor. This Reporting and referring to the committee to be within 15 days of part completion or completion of the shoal. No dispute, whatsoever arising thereafter will be entertained by the Dispute Resolution Committee. The Dispute Resolution Committee will be empowered to settle any dispute till 20% excess of the estimated quantity in pre dredging survey. The quantity in excess above 20% will require approval of Member (Technical).

29.8 The dredged quantity assessed for dredging is 2,80,000 cu.m.. However in case the quantity is lower by 20% of the assessed quantity in a dredging season is till 2,24,000 cu.m. No compensation whatsoever will be payable by IWAI on account of reduced quantity. The assessed quantity of dredging per month working hours and effective dredging hours for each CSD unit has been mentioned and this can be accomplished in single extended shift of 10 hours operation in a day.

29. IWAI will therefore ensure that minimum available dredged quantity will not fall below the assured quantity of 2,24,000 cu.m. in Patna-Buxar stretch. The Resiltation factor has not been considered and to avoid as much as possible both resiltation or scouring, the post dredging survey will be carried out frequently after 72 hours. No compensation whatsoever will be considered on account of resiltation. The post dredging survey will be carried out expeditiously and no compensation for delay of survey will be considered as survey is joint responsibility of IWAI and successful bidder. In case the quantity falls below the assured quantity of 2,24,000 cu.m than the compensation & limit of compensation payable. In case the quantity falls below the assured quantity of 2,24000 cu.m. say 25% less than the assessed quantity of 2,80,000 cu.m. than the compensation payable will be calculated on 5% and not on 25%. Thus the targeted quantity is 2,80,000 cu.m. and 80% of this is 2,24,000 cu.m. Compensation is payable once the quantity for dredging is less than 2,24,000 cu.m.

30.0 The IWAI may at its own discretion utilize the tug during dredging season (working season) for emergent purpose as and when required. Similarly the tug can also be utilized for other purposes during flood season (non -working season) as and when required by IWAI. IWAI will suitably compensate the contractor for the consumables and HSD during such utilization of tug by IWAI. The compensation for withdrawal of tug will be only applicable if less than the minimum dredged quantity is not made available for the entire working season for each contract.

31.0 IWAI at its own option have the flexibility in deployment of dredgers from one stretch to another depending on the requirement for attending any critical shoal within the stretch or within the National Waterway No.1. The prime objective/ requirement is to maintain the specified LAD for movement of inland vessel. The Field Director in-charge will have the powers to exercise this flexibility of deployment of dredgers. The dredged quantity will be considered for payment purposes.

32.0 IWAI will provide the vessel tracking devices along with on/ off control for engine to record time of running of engines.

33.0 With regard to the above tender certain general clarifications are given below:

Operation related

- a) All operations are to be done by the contractor at his own cost.
- b) There are no customs and emigration formalities to be followed as only Indian Crew is to be deployed. No berth charges/ port charges/ light due are applicable.
- c) No approvals for dredging are required & if needed it will be IWAI's responsibility.

Spares related

All details as available are provided as **Annexure II**. However, the bidders are to assess the exact quantity in this regards after their examination and inspection of the dredging units' machineries, equipment etc. The information particularly for the dredging quantity, fuel consumption are only for reference purpose only. Details of spare parts available will be given to successful bidders.

Equipment related

IWAI to take effort for supplying the manuals to the successful bidders.

Price Bid related

The bidders has to quote the rate per cu.m. and this will be fixed for first three years. 5% increase for fourth year and 10% increase for fifth year on the awarded rate for first three years will be considered as fixed on the rate per cu.m. quoted, in case extension on satisfactory performance is given as already mentioned in clarification given Sl. 1 of Technical and Special Condition of contract.

SECTION-VII

ANNEX

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 Deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No. 1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years.

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 _____

2) Name & 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 not withstanding 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 filed 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.....201...
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	Overlapping 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 imitiation 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

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

Date:

To,
THE CHIEF ENGINEER (P&M)
INLAND WATERWAYS AUTHORITY OF INDIA,
A-13, Sector – 1, Noida - 201 301,
Distt.- Gautam Budh Nagar; (U.P.)

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: IWAI/MD/226/2015-16/001

Name of Tender / Work: - Deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No.1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years.

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the _____ web _____ site(s) _____ namely:

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(s), 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 corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. In case any provisions of this tender are found violated by us, then your department/ organisation 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.

6. 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.

7. I am tendering for the work mentioned in the table below and submitting the EMD in the form of demand draft in favour of IWAI Fund payable at Noida at Nationalised / schedule bank as per the details given therein or as prescribed.

Demand draft No. & Date and Bank Guarantee details	EMD (Rs.)	Details of Bank (Name of Bank, Branch and address)

8. I/ We agree to abide by this tender. I/ We agree to keep the tender open for a period of 120 days from the last date of submission of bid or extension thereto as required by the IWAI and not to make any modifications in its term and conditions.

9. 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 any other 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.

10. 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.

11. 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.

12. If my/ our tender is accepted, I/We am/are to be jointly and severally 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.

13. 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.

14. 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.

Yours Faithfully,

Date

(Signature of the Bidder, with Official Seal)

Name

Designation

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

M/s

.....

Telephone nos.....FAX No.....

**BANK GUARANTEE PROFORMA FOR FURNISHING
EARNEST MONEY DEPOSIT**

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

WHEREAS, contractor..... (Name of contractor) (hereinafter called "the contractor") has submitted his tender dated (date) for the work of (name of work) (hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we (name of bank) having our registered office at (hereinafter called "the Bank") are bound unto (Name and division of Executive Engineer) (hereinafter called "the Engineer-in-Charge") in the sum of Rs. (Rs. in words) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this day of 20... . THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required; OR
 - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor, OR
 - (c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor, OR
 - (d) fails or refuses to submit fresh Bank Guarantee/Demand draft of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Engineer-in-Charge up to the above amount upon receipt of his first written demand, without the Engineer-in-Charge having to substantiate his demand, provided that in his demand the Engineer in-Charge will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date* after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE

SIGNATURE OF THE BANK WITNESS

SEAL

(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

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

(TO BE FURNISHED BY THE BIDDER ON ITS 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 give 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 I 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.

Signature of Authorized Signatory

Date:

BANK CERTIFICATION

It is certified that above mentioned beneficiary holds a bank account No _____ with our branch and the bank particulars mentioned above are correct.

Date

Authorized Signatory
Authorization No. _____
Name: _____
Official Seal/Stamp



TENDER for Deployment of CSD Tapi unit and CSD Tizu unit in Patna-Buxar stretch of National Waterway No.1 (River Ganga) on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years.

PART – II

PRICE BID

PRICE BID

Tender Inviting Authority: Inland Waterways Authority of India

Name of Work: Deployment of CSD Tapi unit and CSD Tizu unit in Patna- Buxar stretch of NW-1 on contract on dredged quantity basis for three years and extendable on yearly basis on satisfactory performance for another two years

Contract No: IWA/MD/226/2015-16/001

Bidder Name :						
PRICE SCHEDULE						
(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)						
NUMBER	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1.01	Dredging in all type of soil such as sand, silt, coarse sand or mixture of above materials to be dredged for a width of 45 m and depth of 2.5m from the datum level and disposed on to the flanks of the waterway or to the locations away from the navigational channel as per the directions of Engineer in-charge. The rate shall include mobilization & de – mob charges, shifting charges from one shoal to another, excise duty, taxes and all other charges/ expenditure etc. excluding service tax.	840000	Cu.m.		0.00	INR Zero Only
1.02	Service Tax @ 14.00%	840000	Cu.m.		0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words				INR Zero Only		