

**BANGLADESH INLAND WATER TRANSPORT
AUTHORITY (BIWTA)**

141-143 Motijheel C/A, Dhaka-1000, Bangladesh.

**T E N D E R D O C U M E N T
FOR THE PROCUREMENT OF GOODS (International)**

Tender Document
for
Procurement of 01 (One) No. Pontoon-mounted Grab
Dredger with Dredge-Material Carrying Barges.

Invitation for Tender No: 18.11.0000.311.14.024.2019/2589

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Tender Package No: GD19

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Section 1. Instructions to Tenderers

A. General

- 1. Scope of Tender**
 - 1.1 The Purchaser named in the Tender Data Sheet (TDS) (hereinafter referred to as the “Purchaser”) wishes to issues these Tender Documents for the supply of Goods, and Related Services incidental thereto, as specified in the TDS and as detailed in Section 6: Schedule of Requirements.
 - 1.2 The name of the Tender and the number and identification of its constituent lot(s) are stated in the TDS.
 - 1.3 The successful Tenderer will be required to complete the delivery of the goods and related services (when applicable) as specified in the GCC Clause **18**.
- 2. Interpretation**
 - 2.1 Throughout this Tender Document
 - (a) the term “in writing” means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail;
 - (b) if the context so requires, singular means plural and vice versa; and
 - (c) “day” means calendar days unless otherwise specified as working days;
 - (d) “Person” means and includes an individual, body of individuals, sole proprietorship, partnership, company, association or cooperative society that wishes to participate in Procurement proceedings;
 - (e) “Tenderer” means a Person who submits a Tender;
 - (f) "Tender Document ", means the Document provided by a Purchaser to a Tenderer as a basis for preparation of its Tender;
 - (g) "Tender ", depending on the context, means a Tender submitted by a Tenderer for delivery of Goods and Related Services to a Purchaser in response to an Invitation for Tender ;
- 3. Source of Funds**
 - 3.1 The Purchaser has been allocated public funds from the source as indicated in the TDS and intends to apply a portion of the funds to eligible payments under the contract for which this Tender Document is issued.
 - 3.2 For the purpose of this provision, “public funds” means any funds allocated to a Purchaser under Government budget, or loan, grants and credits placed at the disposal of a Purchaser through the Government by the development partners or foreign states or organizations.
 - 3.3 Payments by the development partner, if so indicated in the TDS, will be made only at the request of the Government and upon approval by the development partner in accordance with the applicable Loan/Credit/Grant Agreement, and will be subject in all respects to the terms and conditions of that Agreement.

4. Corrupt, Fraudulent, Collusive or Coercive Practices

- 4.1 The Government requires that Procuring Entities, as well as Tenderers shall observe the highest standard of ethics during implementation of procurement proceedings and the execution of Contracts under public funds.
- 4.2 The Government requires that Procuring Entities, as well as Tenderers and Suppliers shall, during the Procurement proceedings and the execution of Contracts under public funds, ensure-
- (a) strict compliance with the provisions of Section 64 of the Public Procurement Act 2006 (Act 24 of 2006);
 - (b) abiding by the code of ethics as mentioned in the Rule 127 of the Public Procurement Rules, 2008;
 - (c) that neither it's any officer nor any staff or any other agents or intermediaries working on its behalf engages in any practice as detailed in ITT Sub Clause 4.3.
- 4.3 For the purposes of ITT Sub-clause 4.2 the terms set forth as bellows:
- (a) **corrupt practice** means offering, giving or promising to give, receiving, or soliciting, either directly or indirectly, to any officer or employee of a Purchaser or other public or private authority or individual, a gratuity in any form; employment or any other thing or service of value as an inducement with respect to an act or decision or method followed by a Purchaser in connection with a Procurement proceeding or contract execution;
 - (b) **fraudulent practice** means the misrepresentation or omission of facts in order to influence a decision to be taken in a Procurement proceeding or Contract execution;
 - (c) **collusive practice** means a scheme or arrangement between two (2) or more Persons, with or without the knowledge of the Purchaser, that is designed to arbitrarily reduce the number of Tenders submitted or fix Tender prices at artificial, non-competitive levels, thereby denying a Purchaser the benefits of competitive price arising from genuine and open competition; or
 - (d) **coercive practice** means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in a Procurement proceeding or the execution of a Contract, and this will include creating obstructions in the normal submission process used for Tenders.
 - (e) **“obstructive practice”** (applicable in case of Development Partner) means deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and /or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation.

- 4.4 Should any corrupt, fraudulent, collusive or coercive practice of any kind come to the knowledge of the Purchaser, it will, in the first place, allow the Tenderer to provide an explanation and shall, take actions only when a satisfactory explanation is not received. Such exclusion and the reasons thereof, shall be recorded in the record of the procurement proceedings and promptly communicated to the Tenderer concerned. Any communications between the Tenderer and the Purchaser related to matters of alleged fraud or corruption shall be in writing.
- 4.5 If corrupt, fraudulent, collusive or coercive practices of any kind determined by the Purchaser against any Tenderer alleged to have carried out such practices, the Purchaser shall -
 - (a) exclude the concerned Tenderer from further participation in the particular Procurement proceeding; or
 - (b) reject any recommendation for award that had been proposed for that concerned Tenderer or;
 - (c) Declare, at its discretion, the concerned Tenderer to be ineligible to participate in further Procurement proceedings, either indefinitely or for a specific period of time.
- 4.6 The Tenderer shall be aware of the provisions on corruption, fraudulence, collusion and coercion in Section 64 of the Public Procurement Act, 2006 and Rule 127 of the Public Procurement Rules, 2008 and others as stated in GCC Clause 3.

5. Eligible Tenderers

- 5.1 This Invitation for Tenders is open to eligible Tenderers from all countries, except for any specified in the TDS. A Tenderer will be eligible if it is a citizen, or is constituted, registered and operates in conformity with the provisions of the laws of that country.
- 5.2 A Tenderer may be a physical or juridical individual or body of individuals, or company, association invited to take part in public procurement or seeking to be so invited or submitting a Tender in response to an Invitation for Tenders.
- 5.3 Government-owned enterprises in Bangladesh shall be eligible only if they can establish that they (i) are legally and financially autonomous, (ii) operate under commercial law, and (iii) are not a dependent agency of the Purchaser.
- 5.4 Tenderers shall have the legal capacity to enter into the Contract. A Tenderer that is under a declaration of ineligibility by the Government of Bangladesh in accordance with applicable laws at the date of the deadline for Tender submission or thereafter shall be disqualified.
- 5.5 Tenderers and all parties constituting the Tenderer shall not have a conflict of interest pursuant to Rule 55 of the Public Procurement Rules, 2008.
- 5.6 Tenderers in its own name or its other names or also in the case of its

Persons in different names, shall not be under a declaration of ineligibility for corrupt, fraudulent, collusive, coercive practices as stated under ITT Sub Clause 4.3 (or obstructive practice, in case of Development Partner) in relation to the Development Partner's Regulation/Guidelines in projects financed by Development Partner.

- 5.7 Tenderers are not restrained or barred from participating in public Procurement on grounds of execution of defective supply in the past under any Contract.
- 5.8 Tenderers are not under a declaration of ineligibility by an international financing agency such as World Bank, Asian Development Bank or any other international agency.
- 5.9 Tenderers shall not be insolvent, be in receivership, be bankrupt, be in the process of bankruptcy, be not temporarily barred from undertaking business and it shall not be the subject of legal proceedings for any of the foregoing.
- 5.10 Tenderers shall have fulfilled its obligations to pay taxes and social security contributions under the provisions of laws and regulations of the country of its origin. In the case of foreign Tenderers, a certificate of competent authority in that country of which the Tenderer is citizen shall be provided.
- 5.11 Tenderers shall provide such evidence of their continued eligibility satisfactory to the Purchaser, as the Purchaser will reasonably request.
- 5.12 These requirements for eligibility will extend, as applicable, to Sub-contractor proposed by the Tenderer.

6. Eligible Goods and Related Services

- 6.1 All goods and related services to be supplied under the contract are eligible, unless their origin is from a country specified in the TDS.
- 6.2 For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, transportation, installation, and commissioning, training, and initial maintenance.
- 6.3 For purposes of this clause, "origin" means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.
- 6.4 The origin of goods and services is distinct from the nationality of the Tenderer. The nationality of the firm that produces, assembles, distributes, or sells the goods shall not determine their origin.

7. Site Visit

- 7.1 For goods contracts requiring installation/ commissioning/ networking or similar services at site, the Tenderer, at the Tenderer's own

responsibility and risk, is encouraged to visit and examine the Site and obtain all information that may be necessary for preparing the Tender and entering into a contract for the supply of goods and related services.

7.2 The Tenderer should ensure that the Purchaser is informed of the visit in adequate time to allow it to make appropriate arrangements.

7.3 The costs of visiting the Site shall be at the Tenderer's own expense.

B. Tender Document

8. Tender Document: General

8.1 The Sections comprising the Tender Document are listed below and should be read in conjunction with any addendum issued under ITT Clause 11.

- Section 1 Instructions to Tenderers (ITT)
- Section 2 Tender Data Sheet (TDS)
- Section 3 General Conditions of Contract (GCC)
- Section 4 Particular Conditions of Contract (PCC)
- Section 5 Tender and Contract Forms
- Section 6 Schedule of Requirements
- Section 7 Technical Specifications
- Section 8 Drawings

8.2 The Purchaser shall reject any tender if the Tender Document was not purchased directly from the Purchaser, or through its agent as stated in the TDS.

8.3 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document as well as addendum to Tender Documents.

9. Clarification of Tender Documents

9.1 A prospective Tenderer requiring any clarification of the Tender Document shall contact the Purchaser in writing at the Purchasers address indicated in the TDS before **two-third** of time allowed for preparation and submission of Tender elapses.

9.2 A Purchaser is not obliged to answer any clarification received after that date requested under ITT Sub-Clause 9.1.

9.3 The Purchaser shall respond in writing within five (5) working days of receipt of any such request for clarification received under ITT Sub-Clause 9.1

9.4 The Purchaser shall forward copies of its response to all those who have purchased the Tender Document, including a description of the enquiry but without identifying its source.

9.5 Should the Purchaser deem it necessary to amend the Tender Document as a result of a clarification, it shall do so following the procedure under ITT Clause 11.

10. Pre-Tender Meeting

- 10.1 To clarify issues and to answer questions on any matter arising in the Tender Document, the Purchaser may, if stated in the TDS, hold a Pre-Tender Meeting at the place, date and time as specified in the TDS. All Potential Tenderers are encouraged to attend the meeting, if it is held.
- 10.2 Minutes of the pre-Tender meeting, including the text of the questions raised and the responses given, together with any responses prepared after the meeting, will be transmitted within one week (7 days) after holding the meeting to all those who purchased the Tender Document and even those who did not attend the meeting.
- 10.3 Any amendment to the Tender Document listed in ITT Sub-Clause 8.1 that may become necessary as a result of the pre-Tender meeting shall be made by the Purchaser exclusively through the issue of an Addendum as stated under ITT Sub-Clause 11 and not through the minutes of the pre-Tender meeting.
- 10.4 Non-attendance at the pre-Tender meeting will not be a cause for disqualification of a Tenderer.

11. Addendum to Tender Documents

- 11.1 At any time prior to the deadline for submission of Tenders, the Purchaser on its own initiative or in response to a clarification request in writing from a Tenderer, having purchased the Tender Document or as a result of a Pre-Tender meeting, may revise the Tender Document by issuing an addendum pursuant to Rule 95 of the Public Procurement Rules, 2008.
- 11.2 The addendum issued under ITT Sub-Clause 11.1 shall become an integral part of the Tender Document and shall have a date and an issue number and shall be circulated by fax, mail or e-mail, to Tenderers who have purchased the Tender Documents within five (5) working days of issuance of such addendum, to enable Tenderers to take appropriate action.
- 11.3 The Tenderer shall acknowledge receipt of an addendum.
- 11.4 Tenderers who have purchased the Tender Documents but have not received any addendum issued under ITT Sub-clause 11.1 shall inform the Purchaser of the fact by fax, mail or e-mail before **two-third** of the time allowed for the submission of Tenders has elapsed.
- 11.5 Procuring Entities shall also ensure posting of relevant addenda with the reference number and date on their website.
- 11.6 To give a prospective Tenderer reasonable time in which to take an amendment into account in preparing its Tender, the Purchaser may, at its discretion, extend the deadline for the submission of Tenders, pursuant to Rule 95(6) of the Public Procurement Rule, 2008 and under ITT Clause 36.

11.7 If an addendum is issued when time remaining is less than one-third of the time allowed for the preparation of Tenders, a Purchaser shall extend the deadline by an appropriate number of days for the submission of Tenders, depending upon the nature of the Procurement requirement and the addendum. The minimum time for such extension shall not be less than seven (7) days.

C. Qualification Criteria

12. General Criteria

12.1 The Purchaser requires the Tenderer to be qualified by meeting predefined, precise minimum requirements, which entails setting pass/fail criteria, which if not met by the Tenderer, will result in rejection of its Tender.

12.2 In addition to meeting the eligibility criteria, as stated in ITT Clause 5, the Tenderer must satisfy the other criteria stated in ITT Clauses 13 to 15 inclusive.

12.3 To qualify for a multiple number of lots in a package for which tenders are invited in the Invitation for Tenders, The Tenderer shall demonstrate having resources and experience sufficient to meet the aggregate of the qualifying criteria for the individual lot. The requirement of overall experience and specific experience under ITT Sub-Clause 14.1 (a) and 14.1 (b) shall not be separately applicable for individual lot.

13. Litigation History

13.1 The maximum number of arbitration awards against the Tenderer over a period shall be as specified in the TDS.

14. Experience Criteria

14.1 Tenderers shall have the following minimum level of supply experience to qualify for supplying the Goods and Related Services under the contract:

- (a) A minimum number of years of overall experience in the supply of goods and related services as specified in the TDS;
- (b) Specific experience of satisfactory completion of supply of Goods similar to the proposed goods in at least a number of contract(s) and, each with a minimum value, over the period, as specified in TDS; and
- (c) A minimum supply and/or production capacity of Goods as specified in the TDS.

15. Financial Criteria

15.1 Tenderers shall have the following minimum level of financial capacity of qualify for the supply of goods under the contract:

- (a) Availability of minimum liquid assets or working capital or credit facilities from a Bank, as specified in the TDS.

- 16. Appointment of Subcontractor**
- 16.1 Tenderer, pursuant to Rule 53 of the PPR2008, is allowed to sub-contract a portion of the Supply.
- 16.2 The Tenderer shall specify in its Tender all portion of the Goods that will be Subcontracted, if any, including the entity(ies) to whom each portion will be subcontracted to, subject to the maximum allowable limit for subcontracting of Goods specified in the TDS.
- 16.3 All subcontracting arrangement must be disclosed at the time of Tendering, and subcontractors must be identified in the Tender submitted by Tenderer.
- 16.4 A Subcontractor may participate in more than one Tender, but only in that capacity.
- 16.5 Subcontractors must comply with the provision of ITT Clause 5. For this purpose contractor shall complete the Subcontractor's information in Form PG4-2A for submission with tender.
- 16.6 If the Purchaser determines that a subcontractor is ineligible, the subcontracting of such portion of the Goods assigned to the ineligible subcontractor shall be disallowed.

D. Tender Preparation

- 17. Only One Tender**
- 17.1 If a Tender for Goods is invited on 'lot-by-lot' basis, each lot shall constitute a Tender. A Tenderer shall submit only one (1) Tender for each lot, A Tenderer who submits or participates in more than one (1) Tender for each lot will cause all the Tenders with that Tenderer's participation to be rejected.
- 18. Cost of Tendering**
- 18.1 Tenderers shall bear all costs associated with the preparation and submission of its Tender, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.
- 19. Issuance and Sale of Tender Document**
- 19.1 A Purchaser, pursuant to Rule 94 of the Public Procurement Rules, 2008 shall make Tender Documents available immediately to the potential Tenderers, requesting and willing to purchase at the corresponding price if the advertisement has been published in the newspaper pursuant to Rule 90 of the Public Procurement Rules,2008.
- 19.2 Full contact details with mailing address, telephone and facsimile numbers and electronic mail address, as applicable, of those to whom Tender Documents have been issued shall be recorded with a reference number by the Purchaser or its agent.
- 19.3 There shall not be any pre-conditions whatsoever, for sale of Tender Document and the sale of such Document shall be permitted up to the day prior to the day of deadline for the submission of Tender.

- 20. Language of Tender**
- 20.1 Tenders shall be written in English language. Supporting documents and printed literature furnished by the Tenderer may be in another language provided they are accompanied by an accurate translation of the relevant passages into the English language, in which case, for purposes of interpretation of the Tender, such translation shall govern.
- 20.2 Tenderers shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.
- 21. Contents of Tender**
- 21.1 The Tender prepared by the Tenderer shall comprise the following:
- (a) Tender Submission Letter (Form PG4-1) as furnished in Section 5: Tender and Contract Forms;
 - (b) Tenderer information sheet (Form PG4-2) and Subcontractor Information (Form PG4-2A) as furnished in Section 5: Tender and Contract Forms;
 - (c) The completed Price Schedule for Goods and Related Services (Form PG4-3A, 3B, 3C and PG4-3D) as furnished in Section 5: Tender and Contract Forms as stated under ITT Clauses 23 and 24;
 - (d) Tender Security as stated under ITT Clause 29,30 and 31;
 - (e) The completed Specifications Submission and Compliance Sheet (Form PG4-4) as furnished in Section 5: Tender and Contract Forms as stated under ITT clause 25.2;
 - (f) Alternatives, if permitted, as stated under with ITT Clause 22;
 - (g) Written confirmation authorising the signatory of the Tender to commit the Tenderer, as stated under ITT Sub-Clause 34.3;
 - (h) The completed eligibility declarations, to establish its eligibility as stated under ITT Clause 5, in the Tender Submission Sheet (Form PG4-1), as furnished in section 5: Tender and Contract Forms;
 - (i) An affidavit confirming the legal capacity stating that there are no existing orders of any judicial court that prevents either the Tenderer or employees of a Tenderer entering into or signing a Contract with the Purchaser as stated under ITT clause 5;
 - (j) An affidavit confirming that the Tenderer is not insolvent, in receivership or not bankrupt or not in the process of bankruptcy, not temporarily barred from undertaking their business for financial reasons and shall not be the subject of legal proceedings for any of the foregoing as stated under ITT Clause 5;
 - (k) A certificate issued by the competent authority stating that the Tenderer is a Tax payer having valid Tax identification Number (TIN) and VAT registration number or in lieu any other document acceptable to the Purchaser demonstrating that the Tenderer is a genuine Tax payer and has a VAT registration number as a proof of fulfillment of taxation obligations as stated under ITT Clause 5. In the case of foreign Tenderers, a certificate of competent

authority in that country of which the Tenderer is citizen shall be provided ;

- (l) Documentary evidence demonstrating that they are enrolled in the relevant professional or trade organizations registered in Bangladesh or in case of foreign tenderer in their country of origin or a certificate concerning their competency issued by a professional institution in accordance with the law of the country of their origin, as stated under ITT Clause 5;
- (m) The country of origin declarations, to establish the eligibility of the Goods and Related Services as stated under ITT Clause 6, in the Price Schedule for Goods and Related Services (Form PG4-3B, 3C and PG4-3D) as, applicable, furnished in Section 5: Tender and Contract Forms;
- (n) Documentary evidence as stated under ITT Clauses 25, that the Goods and Related Services conform to the Tender Documents;
- (o) Documentary evidence as stated under ITT Clause 26 that the Tenderer's qualifications conform to the Tender Documents;
- (p) Documents establishing legal and financial autonomy and compliance with commercial law, as stated under ITT Sub-clause 5.3 in case of government owned entity; and
- (q) Any other document as specified in the TDS.

21.2 The Tenderer shall submit the Tender Submission Letter (Form PG4-1) as furnished in Section 5: Tender and Contract Forms. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

21.3 The Tenderer shall submit the completed Price Schedule for Goods and Related Services (Form PG4-3A, 3B, 3C and PG4-3D), according to their origin as appropriate as furnished in section 5: Tender and Contract Forms.

22. Alternatives

22.1 Unless otherwise stated in the TDS, alternatives shall not be considered.

23. Tender Prices, Discounts

23.1 The prices and discounts quoted by the Tenderer in the Tender Submission Letter (Form PG4-1) and in the Price Schedule (Form PG4-3A, 3B, 3C and PG4-3D) shall conform to the requirements specified below.

23.2 All lots or items as listed in Section 6: Schedule of Requirements must be listed and priced separately on the Price Schedule following the Form PG4-3A, 3B, 3C and PG4-3D as applicable.

23.3 Tenders are being invited either for a single lot or for a number of lots on 'lot-by-lot' basis, as specified in the TDS.

23.4 Each lot shall constitute a Tender, If Tenders for Goods are invited on 'lot-by-lot' basis.

- 23.5 Tenders being invited for a single lot or for a number of lots on ‘lot-by-lot’ basis, price quoted shall correspond to 100% of the items specified for each lot and to 100% of the quantities specified for each item of that particular lot and shall correspond to 100% of the total offered lot value, unless otherwise stated in the TDS
- 23.6 A Lot Tender not offering minimum number of items of those being priced based on percentage of the total number of items, and, the corresponding minimum value based on percentage of the total lot value, as specified in the ITT Sub-Clause 23.5 shall also be considered non-responsive.
- 23.7 Subject to ITT Sub-Clause 23.5, a Lot tender not offering a particular item which represents more than fifty percent (50%) of the estimated lot value identified by the Purchaser and specified in the TDS, even if it complies with the requirement of minimum number of items based on percentage of the total number of items as stated under ITT Sub Clause 23.5, shall be considered non-responsive.
- 23.8 The price to be quoted in Tender Submission Letter (Form PG4-1) shall be the total price of the Tender, excluding any discounts offered, only **in case of being awarded more than one lot**, by the Tenderer
- 23.9 a) Tenderers shall quote any unconditional discount in the Tender Submission Letter as stated under ITT Sub Clause 23.9 (b);
b) Tenderers wishing to offer any unconditional discount shall be equally applicable on all the items of price schedule after arithmetical correction.
- 23.10 Prices shall be quoted as specified in each Price Schedule (Form PG4-3A, 3B, 3C and PG4-3D) as applicable. The dis-aggregation of price components is required solely for the purpose of facilitating the comparison of tenders by the Purchaser. This shall not in any way limit the Purchaser’s right to contract on any of the terms offered. In quoting prices, the Tenderer shall be free to use transportation through carriers registered in any eligible Countries. Similarly, the Tenderer may obtain insurance services from any eligible country. Prices shall be entered in the following manner:
- 23.11 For Goods, manufactured within Bangladesh, the prices in the Price schedule (Form PG4-3A) shall be entered separately in the following manner:
- (a) the price of the Goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and import vat and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;
- (b) VAT payable on account of supplier, if the contract is awarded; and

- (c) the price for inland transportation, insurance, and other local costs for the delivery of the Goods to their final destination (Project Site) specified in the TDS.

23.12 For Goods, manufactured outside Bangladesh, to be imported, the prices in the Price schedule (Form PG4-3B) shall be entered separately in the following manner:

- (a) the price of the Goods, quoted CIP (named place of destination, in the Bangladesh) or CIF (named port of destination, in Bangladesh) as specified in the TDS;
- (b) VAT payable on account of supplier, if the contract is awarded; and
- (c) the price for inland transportation, insurance, and other local costs for the delivery of the Goods to their final destination (Project Site) specified in the TDS;
- (d) in addition to the CIP/CIF prices specified in 23.12(a) above, the price of the Goods to be imported may be quoted in other *INCOTERM* and shall be governed by the rules prescribed in the current edition of *INCOTERM* published by the International Chamber of Commerce, Paris, if so specified in the TDS;

23.13 For Goods, manufactured outside Bangladesh, already imported, the prices in the Price schedule (Form PG4-3C) shall be entered separately in the following manner:

- (a) the price of the Goods, including the original import value of the Goods; plus any mark-up ; plus any other related local cost, and custom duties, import VAT and other import taxes already paid on the Goods already imported.
- (b) the custom duties, import VAT and other import taxes already paid (need to be supported with documentary evidence) on the Goods already imported;
- (c) the price of the Goods, obtained as the difference between (a) and (b) above;
- (d) VAT payable on account of supplier, if the contract is awarded; and
- (e) the price for inland transportation, insurance, and other local costs for the delivery of the Goods to their final destination (Project Site) specified in the TDS.

[For previously imported Goods, the quoted price shall be distinguishable from the original import value of these Goods declared to customs and shall include any rebate or mark-up of the local agent or representative and all local costs except import duties and taxes, which have been paid. For clarity the tenderers are asked to quote the price including import duties, and additionally to provide the import duties and the price net of import duties

which is the difference of those values.]

23.14 for Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements, the prices in the price schedule (Form PG4-3D) shall be entered in the following manner :

(a) the price of each item comprising the Related Services (inclusive of any applicable taxes).

**24. Tender
Currency**

24.1 For expenditures that will be incurred in Bangladesh, the Tenderer shall quote the prices in Bangladeshi Taka (BDT).

24.2 Suppliers offering Goods manufactured or assembled in Bangladesh, are permitted to submit their Tender in a combination of local and foreign currencies.

24.3 For expenditures that will be incurred outside Bangladesh, the Tenderer may quote the prices in USD or GBP or EUR or JPY as specified in TDS.

**25. Documents
Establishing
the
Conformity
of the Goods
and Related
services**

25.1 To establish the conformity of the Goods and Related Services to the Tender Documents, the Tenderer shall furnish as part of its Tender the documentary evidence that the Goods and Related services conform to the technical specifications and standards in Section 7, Technical Specifications.

25.2 Documentary evidence of conformity of the Goods and services to the Tender Documents may be in the form of literature, drawings, and data, and shall consist of:

(a) a detailed description of the essential technical and performance characteristics of the Goods;

(b) if so required in TDS, tenderer shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified in the TDS, following commencement of the use of the Goods by the Purchaser ; and

(c) an item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the Goods and Related services to those specifications, or a statement of deviations and exceptions to the provisions of Section 7. Technical Specifications.

**26. Documents
Establishing
Qualifications
of the**

26.1 The documentary evidence of the Tenderer's qualifications to perform the contract if its Tender is accepted shall establish to the Purchaser's satisfaction:

(a) that the Tenderer meets each of the qualification criterion specified in

Tenderer	<p>Sub-Section C, Qualification Criteria of the ITT;</p> <p>(b) that, if required in the TDS, a Tenderer that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization Letter (Form PG4-5) furnished in Section 5: Tender and Contract Forms, to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply the Goods to Bangladesh.; and</p> <p>(c) that, if required in the TDS, in case of a Tenderer not doing business within Bangladesh, the Tenderer is or will be (if awarded the contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance.</p> <p>(d) Adequacy of minimum liquid assets i.e. working capital substantiated by Audit Reports or Bank Statement or credit line(s) substantiated in the format as specified (Form PG4-6A), without alteration as stated under ITT Sub Clause 15.1(a);</p>
27. Validity Period of Tender	<p>27.1 Tender validities shall be determined on the basis of the complexity of the Tender and the time needed for its examination, evaluation, approval of the Tender and issuance of the Notification of Award pursuant to Rule 19 and 20 of the Public Procurement Rules,2008.</p> <p>27.2 Tenders shall remain valid for the period specified in the TDS after the date of Tender submission deadline prescribed by the Purchaser, as stated under ITT Clause 36. A Tender valid for a period shorter than that specified will be rejected by the Purchaser as non- responsive.</p>
28. Extension of Tender Validity and Tender Security	<p>28.1 In justified exceptional circumstances, prior to the expiration of the Tender validity period, the Purchaser following Rule 21 of the Public Procurement Rules, 2008 may solicit, not later than ten (10) days before the expiry date of the Tender validity, compulsorily all the Tenderers' consent to an extension of the period of validity of their Tenders.</p> <p>28.2 The request for extension of Tender validity period shall state the new date of the validity of the Tender.</p> <p>28.3 The request from the Purchaser and the responses from the Tenderers will be made in writing.</p> <p>28.4 Tenderers consenting in writing to the request made by the Purchaser under ITT Sub-Clause 28.1 shall also correspondingly extend the validity of its Tender Security for twenty-eight (28) days beyond the new date for the expiry of Tender validity.</p> <p>28.5 Tenderers consenting in writing to the request under ITT Sub-Clause 28.1 shall not be required or permitted to modify its Tender in any circumstances.</p> <p>28.6 If the Tenderers are not consenting in writing to the request made by the Purchaser under ITT Sub-Clause 28.1, its Tender will not be considered for</p>

subsequent evaluation.

29. Tender Security

- 29.1 The Tender Security and its amount shall be determined sufficient to discourage the submission of frivolous and irresponsible tenders pursuant to Rule 22 of the Public Procurement Rule, 2008 and shall be expressed as a rounded fixed amount and, shall not be stated as a precise percentage of the estimated total Contract value.
- 29.2 The Tenderer shall furnish as part of its Tender, in favour of the Purchaser or as otherwise directed on account of the Tenderer as specified in TDS.
- 29.3 Amount of the Tender security may be determined on the basis of different percentages for each lot, but the amount in fixed and currency as specified in TDS, if so indicated that the Tenders are invited on lot-by-lot basis under ITT Sub Clause 23.3

30. Form of Tender security

- 30.1 The Tender Security shall be in the form of an irrevocable bank guarantee issued by an internationally reputable bank and shall require to be endorsed by its any correspondent bank located in Bangladesh, to make it enforceable, in the format (Form PG4-6) furnished in Section 5: Tender and Contract Forms;
- 30.2 be payable promptly upon written demand by the Purchaser in the case of the conditions listed in ITT Clause 33 being invoked; and
- 30.3 remain valid for at least twenty-eight (28) days beyond the expiry date of the Tender Validity in order to make a claim in due course against a Tenderer in the circumstances detailed under ITT Clause 33 and pursuant to Rule 25 of the Public Procurement Rules,2008.

31. Authenticity of Tender Security

- 31.1 The authenticity of the Tender security submitted by a Tenderer shall be examined and verified by the Purchaser in writing from the Bank issuing the security, prior to finalization of the Evaluation Report pursuant to Rule 24 of the Public Procurement Rule, 2008.
- 31.2 If a Tender Security is found to be not authentic, the Tender which it covers shall not be considered for subsequent evaluation and in such case the Purchaser shall proceed to take punitive measures against that Tenderer as stated under ITT Sub-Clause 4.6, pursuant to Rule 127 of the Public Procurement Rules, 2008 and in accordance with Section 64(5) of the Public Procurement Act, 2006.
- 31.3 Tender not accompanied by a valid Tender Security as stated under Sub-Clause 29, 30 and 31, shall be considered as non-responsive.

32. Return of Tender Security

- 32.1 No Tender security shall be returned by the Tender Opening Committee (TOC) during and after the opening of the Tenders pursuant to Rule 26 of the Public Procurement Rules 2008.
- 32.2 No Tender security shall be returned to the Tenderers before contract signing, except to those who are found non-responsive.

- 32.3 Tender securities of the non-responsive Tenders shall be returned immediately after the Evaluation Report has been approved by the Purchaser.
- 32.4 Tender securities of the responsive Tenderers shall be returned only after the lowest evaluated responsive Tenderer has submitted the performance security and signed the contract , that being even before the expiration of the validity period specified in Clause 27.
- 32.5 Tender Securities of the Tenderers not consenting within the specified date in writing to the request made by the Purchaser under ITT Sub-Clause 28.1 in regard to extension of its Tender validity shall be discharged or returned forthwith.
- 33. Forfeiture of Tender Security**
- 33.1 The Tender security pursuant to Rule 25 of the Public Procurement Rules,2008 may be forfeited if a Tenderer:
- (a) withdraws its Tender after opening of Tenders but within the validity of the Tender as stated under ITT Clauses 27,and 28, pursuant to Rule 19 of the Public Procurement Rules 2008; or
 - (b) refuses to accept a Notification of Award as stated under ITT Sub-Clause 62.3, pursuant to Rule 102 of the Public Procurement Rules 2008; or
 - (c) fails to furnish performance security as stated under ITT Sub-Clause 63.2, pursuant to Rule 102 of the Public Procurement Rules 2008; or
 - (d) refuses to sign the Contract as stated under ITT Sub-Clause 67.2 pursuant to Rule 102 of the Public Procurement Rules 2008; or
 - (e) does not accept the correction of the Tender price following the correction of arithmetic errors as stated under ITT Clause 49, pursuant to Rule 98(11) of the Public Procurement Rules 2008
- 34. Format and Signing of Tender**
- 34.1 The Tenderer shall prepare one (1) original of the documents comprising the Tender as described in ITT Clause 21 and clearly mark it “ORIGINAL”. In addition, the Tenderer shall prepare the number of copies of the Tender, as specified in the TDS and clearly mark each of them “COPY”. In the event of any discrepancy between the original and the copies, the original shall prevail.
- 34.2 Alternatives, if permitted under ITT Clause 22, shall be clearly marked “Alternative”.
- 34.3 The original and each copy of the Tender shall be typed or written in indelible ink and shall be signed by a person duly authorised to sign on behalf of the Tenderer. This authorisation shall consist of a written authorisation and shall be attached to the Tender Submission Letter (Form PG4-1).
- 34.4 The name and position held by each person signing the authorisation must

be typed or printed below the signature.

- 34.5 All pages of the original and of each copy of the Tender, except for un-amended printed literature, shall be numbered sequentially and signed or initialled by the person signing the Tender.
- 34.6 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialled by the person(s) signing the Tender.
- 34.7 Person(s) signing the Tender shall describe his or her name, address, position.

E. Tender Submission

35. Sealing, Marking and Submission of Tender

- 35.1 The Tenderer shall enclose the original in one (1) envelope and all the copies of the Tender, including the alternative , if permitted under ITT Clause 22 in another envelope, duly marking the envelopes as “ORIGINAL” “ALTERNATIVE” (if permitted) and “COPY.” These sealed envelopes will then be enclosed and sealed in one (1) single outer envelope.
- 35.2 Tenders shall be properly marked by Tenderers in order not be confused with other types of correspondence which may also be hand-delivered or posted by mail or courier service. The inner and outer envelopes shall:
 - (a) bear the name and address of the Tenderer ;
 - (b) be addressed to the Purchaser as stated under ITT Sub-Clause 36.1;
 - (c) bear the specific identification of this tendering process indicated in ITT Sub-Clause1.2 and any additional identification marks as specified in the TDS; and
 - (d) bear a statement “DO NOT OPEN BEFORE...” the time and date for Tender opening, as stated under ITT Sub- Clause 42.2
- 35.3 The Tenderer is solely and entirely responsible for pre-disclosure of Tender information if the envelope(s) are not properly sealed and marked.
- 35.4 Tenders shall be delivered by hand or by mail, including courier services to location as designated in the ITT Sub-Clause 36.1.
- 35.5 Tenders shall be submitted on the basis of this Tender Document issued by the Purchaser.
- 35.6 The Purchaser will, on request, provide the Tenderer with a receipt showing the date and time when it’s Tender was received.
- 35.7 When so specified in the TDS, tenderers shall have the option of submitting their tenders electronically.
- 35.8 Tenderers submitting tenders electronically shall follow the electronic tender submission procedures specified in the TDS.

- 36. Deadline for Submission of tenders**
- 36.1 Tenders shall be delivered to the Purchaser at the address specified in the TDS and no later than the date and time specified in the TDS.
- 36.2 The Purchaser may, at its discretion on justifiably acceptable grounds duly recorded, extend the deadline for submission of Tender as stated under ITT Sub Clause 36.1, in which case all rights and obligations of the Purchaser and Tenderers previously subject to the deadline will thereafter be subject to the new deadline as extended.
- 37. Late tender**
- 37.1 Any Tender received by the Purchaser after the deadline for submission of Tenders as stated under ITT Sub-Clause 36.1, shall be declared LATE, rejected, returned unopened to the Tenderer.
- 38. Modification, Substitution or Withdrawal of Tenders**
- 38.1 A Tenderer may modify, substitute or withdraw its Tender after it has been submitted by sending a written notice duly signed by the authorised signatory properly sealed, and shall include a copy of the authorisation (the power of attorney), confirmed by an affidavit duly authenticated as stated under ITT Clause 34.3, provided that such written notice including the affidavit is received by the Purchaser prior to the deadline for submission of Tenders as stated under ITT Sub-Clause 36.1.
- 39. Tender Modification**
- 39.1 The Tenderer shall not be allowed to retrieve its original Tender, but shall be allowed to submit corresponding modification to its original Tender marked as “MODIFICATION”.
- 40. Tender Substitution**
- 40.1 The Tenderer shall not be allowed to retrieve its original Tender, but shall be allowed to submit another Tender marked as “SUBSTITUTION”.
- 41. Withdrawal of Tender**
- 41.1 The Tenderer shall be allowed to withdraw its Tender by a Letter of Withdrawal marked as “WITHDRAWAL”.

F. Tender Opening and Evaluation

- 42. Tender Opening**
- 42.1 Tenders shall be opened pursuant to Rule 97 following steps in Part D of Schedule IV of The Public Procurement Rule, 2008.
- 42.2 Tenders shall be opened in public immediately after the deadline for submission of Tenders at the place, date and time as specified in the TDS but no later than **ONE HOUR** after expiry of the submission deadline. Tender opening shall not be delayed on the plea of absence of Tenderers or his or her representatives.
- 42.3 Any specific electronic Tender opening procedures required if electronic tendering is permitted under ITT Sub-Clause 35.7, shall be as specified in the TDS.
- 42.4 Persons not associated with the Tender may not be allowed to attend the public opening of Tenders.

- 42.5 The Tenderers' representatives shall be duly authorized by the Tenderer. Tenderers or their authorised representatives will be allowed to attend and witness the opening of Tenders, and will sign a register evidencing their attendance.
- 42.6 The authenticity of withdrawal or substitution of, or modifications to original Tender, if any made by a Tenderer in specified manner, shall be examined and verified by the Tender Opening Committee based on documents submitted under ITT Sub Clause 38.1.
- 42.7 Tenders will be opened in the following manner:
- (a) firstly, envelopes marked "Withdrawal" shall be opened and "Withdrawal" notices read aloud and recorded, and the envelope with the corresponding Tender shall not be opened, but returned unopened to the Tenderer by the Purchaser at a later time immediately after preliminary examination by the Tender Evaluation Committee (TEC) as stated under ITT Sub-Clause 45.1. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and in such case the Tender shall be read aloud at the Tender opening ;
 - (b) secondly, the remaining Tenders will be sorted out and those marked "substitutes" or "modified" will be linked with their corresponding "original"(O) Tender;
 - (c) Next, envelopes marked "Substitution"(S) shall be opened and read aloud and recorded, and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned unopened to the Tenderer by the Purchaser at a later time immediately after preliminary examination by the Tender Evaluation Committee (TEC) as stated under ITT Sub-Clause 45.1 . No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and in such case the Tender shall be read aloud at the Tender opening.
 - (d) Next envelopes marked "Modification" (M) shall be opened and read aloud with the corresponding Tender and recorded. No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and in such case the Tender shall be read aloud at the Tender opening.
 - (e) thirdly, if so specified in this Tender Document, the envelopes marked " Alternative "(A) shall be opened and read aloud with the corresponding Tender and recorded.
- 42.8 Ensuring that only the correct (M), (S), (A),(O) envelopes are opened, details of each Tender will be dealt with as follows:
- (a) the Chairperson of the Tender Opening Committee will read aloud each Tender and record in the Tender Opening Sheet (TOS)
 - (i) the name and address of the Tenderer;

- (ii) state if it is a withdrawn, modified, substituted , or original tender;
- (iii) the Tender price;
- (iv) the number of initialled corrections;
- (v) any discounts;
- (vi) any alternatives;
- (vii) the presence or absence of any requisite Tender Security; and
- (viii) such other details as the Purchaser, at its discretion, may consider appropriate.

(b) only discounts and alternative read aloud at the Tender opening will be considered in evaluation;

(c) all pages of the original version of the Tender, except for un-amended printed literature, will be initialled by members of the Tender Opening Committee.

42.9 Upon completion of Tender opening, all members of the Tender Opening Committee and the Tenderers or Tenderer’s duly authorised representatives attending the Tender opening shall sign by name, address, designation and their national Identification Numbers the Tender Opening Sheet, copies of which shall be issued to the Head of the Purchaser or an officer authorised by him or her and also to the members of the Tender Opening Committee and any authorised Consultants and, to the Tenderers immediately.

42.10 The omission of a Tenderer’s signature on the record shall not invalidate the contents and effect of the record under ITT Sub-Clause 42.8.

42.11 No Tender will be rejected at the Tender opening stage except the LATE Tenders. .

42.12 A copy of the record shall be distributed to all Tenderers who submitted tenders in time, and posted online when electronic tendering is permitted.

43. Evaluation of Tenders

43.1 Purchaser’s Tender Evaluation Committee (TEC) shall examine, evaluate and compare Tenders that are responsive to the mandatory requirements of Tender Documents in order to identify the successful Tenderer.

43.2 Tenders shall be examined and evaluated only on the basis of the criteria specified in the Tender Document.

44. Evaluation process

44.1 The TEC may consider a Tender as responsive in the Evaluation, only if it is submitted in compliance with the mandatory requirements set out in the Tender Document. The evaluation process should begin immediately after tender opening following four steps:

- (a) Preliminary Examination;
- (b) Technical Examinations and Responsiveness;
- (c) Financial evaluation and price comparison;

(d) Post-qualification of the lowest evaluated responsive Tenders.

45. Preliminary Examination

45.1 Compliance, adequacy and authenticity of the documentary evidences for meeting the qualification criterion specified in the corresponding section of the Tender document shall have to be preliminarily examined and verified.

45.2 The TEC shall firstly examine the Tenders to confirm that all documentation requested in ITT Clause 21 has been provided. Examination of the compliance, adequacy and authenticity of the documentary evidence may follow the order below:

- (a) Verification of the completeness of the eligibility declaration in the Tender Submission Letter (Form PG4-1), to determine the eligibility of the tenderer as stated under ITT Sub-Clause 21(h). Any alterations to its format, filling in all blank spaces with the information requested, failing which the tender may lead to rejection of the Tender;
- (b) verification of that the Tenderer is enrolled in the relevant professional or trade organisations as stated under ITT Clause 21(l);
- (c) verification of the eligibility in terms of legal capacity and fulfilment of taxation obligation by the tenderer in accordance as stated under ITT Sub-Clause 21(i) and 21(k);
- (d) verification of eligibility that the tenderer is not insolvent, in receivership, bankrupt, not in the process of bankruptcy, not temporarily barred as stated under ITT Sub-Clause 21(j);
- (e) verification of eligibility of Tenderer's country of origin as stated under ITT Sub-Clause 21(b);
- (f) verification of the written authorization confirming the signatory of the Tenderer to commit the Tender has been attached with Tender Submission Letter (Form PG4-1) as stated under ITT Sub-Clause 21(g); in order to check the authenticity of Tender and Tenderer itself;
- (g) verification of the Tender Security as stated under ITT Sub-Clause 21(d); and
- (h) Verification of that the written notice for 'WITHDRAWL' and 'SUBSTITUTION of' or MODIFICATION to, the corresponding Tender is proper and authentic, if the tender is "WITHDRAWN", "SUBSTITUTION" or "MODIFICATION", as stated under ITT Sub-Clause 38.1

45.3 The TEC shall confirm that the above documents and information have been provided in the Tender and the completeness of the documents and compliance of instructions given in corresponding ITT Clauses shall be verified, failing which the tender shall be considered as non-responsive.

46. Technical Examinations

46.1 Only those Tenders surviving preliminary examination need to be examined in this phase.

**&
Responsiveness**

- 46.2 Secondly, the TEC will examine the adequacy and authenticity of the documentary evidence which may follow the order below:
- (a) verification of the completeness of the country of origin declaration in the Price Schedule for Goods and Related Services (Form PG4-3B, 3C and PG4-3D) as furnished in Section 5: Tender and Contract Forms to determine the eligibility of the Goods and Related Services as stated under ITT Sub Clause 21(m).
 - (b) verification and examination of the documentary evidence and completed Specification Submission Sheet (Form PG4-4) as furnished in Section 5: Tender and Contract Forms to establish the conformity of the Goods and Related Services to the Tender Documents as stated under ITT Sub Clause 21(e) and 21(n).
 - (c) verification and examination of the documentary evidence that the Tenderer's qualifications conform to the Tender Documents and the Tenderer meets each of the qualification criterion specified in Sub-Section C, Qualification Criteria as stated under ITT Sub Clause 21(o).
 - (d) verification and examination of the documentary evidence that Tenderer has met all the requirements in regards to scope of Supply as stated under Section 6, Schedule of Requirements, without any material deviation or reservation.
- 46.3 TEC may consider a Tender as responsive in the evaluation, only if comply with the mandatory requirements as stated under Clause 46.2.
- 46.4 The TEC's determination of a Tender's responsiveness is to be based on the documentary evidence as requested in Clause 46.2 without recourse to extrinsic evidence.
- 46.5 Information contained in a Tender, that was not requested in the Tender Document shall not be considered in evaluation of the Tender.
- 46.6 If a Tender is not responsive to the mandatory requirements set out in the Tender Document it shall be rejected by the TEC and shall not subsequently be made responsive by the Tenderer by correction of the material deviation, reservation.
- 46.7 A material deviation or reservation is one-
- (a) which affects in any substantial way the scope, quality, or performance of the Goods and Related Services and Tenderer's qualifications mentioned in the Tender Document.
 - (b) which limits in any substantial way, inconsistent with the Tender Documents, the Purchaser's rights or the Tenderer's obligations under the Contract; or
 - (c) whose rectification would anyway affect unfairly the competitive position of other Tenderers presenting responsive Tenders.
- 46.8 During the evaluation of Tender, the following definitions apply:

- (a) “Deviation” is a departure from the requirements specified in the Tender Document;
- (b) “Reservation” is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Tender Document;

46.9 A TEC may regard a Tender as responsive, even if it contains-

- (a) minor or insignificant deviations, which do not meaningfully alter or depart from the technical specifications, characteristics and commercial terms and conditions or other requirements set out in the Tender Document;
- (b) errors or oversights, which if corrected, would not alter the key aspects of the Tender.

47. Clarification on Tender

- 47.1 The TEC may ask Tenderers for clarifications of their Tenders, including breakdowns of unit rates, in order to assist the examination and evaluation of the Tenders, provided that, Tender clarifications which may lead to a change in the substance of the Tender or in any of the key elements of the Tender as stated under ITT Sub-Clause 46.7, shall neither be sought nor permitted by the TEC.
- 47.2 Change in the tender price shall not be sought or permitted, except to confirm correction of arithmetical errors discovered by the Purchaser in the evaluation of the Tender, as sated under ITT Clause 49.
- 47.3 Any request for clarifications by the TEC shall not be directed towards making an apparently non-responsive Tender responsive and reciprocally the response from the concerned Tenderer shall not be articulated towards any addition, alteration or modification to its Tender.
- 47.4 If a Tenderer does not provide clarifications of its Tender by the date and time set in the TEC’s written request for clarification, its Tender shall not be considered in the evaluation.
- 47.5 Requests for clarification shall be in writing and shall be signed only by the Chairperson of the TEC.

48. Restrictions on the Disclosure of Information Relating to the Procurement Process

- 48.1 Following the opening of Tenders until issuance of Notification of Award no Tenderer shall, unless requested to provide clarification to its Tender or unless necessary for submission of a complaint, communicate with the concerned Purchaser pursuant to Rule 31 of the Public Procurement Rule,2008.
- 48.2 Tenderers shall not seek to influence in anyway, the examination and evaluation of the Tenders.
- 48.3 Any effort by a Tenderer to influence a Purchaser in its decision concerning the evaluation of Tenders, Contract awards may result in the rejection of its Tender as well as further action in accordance with Section 64 (5) of the Public Procurement Act 2006.
- 48.4 All clarification requests shall remind Tenderers of the need for confidentiality and that any breach of confidentiality on the part of the

Tenderer may result in their Tender being disqualified.

48.5 Information relating to the examination, evaluation, comparison, and post qualification of the tender or contract award, shall not be disclosed to tenderers or any other persons not officially concerned with such process.

**49. Correction of
Arithmetical
Errors**

49.1 The TEC shall correct any arithmetic errors that are discovered during the examination of Tenders, and shall promptly notify the concerned Tenderer(s) of any such correction(s) pursuant to Rule 98(11) of the Public Procurement Rule, 2008.

49.2 Provided that the Tender is responsive, TEC shall correct arithmetical errors on the following basis:

- (a) If there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the TEC there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted will govern and the unit price will be corrected;
- (b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.

49.3 Any Tenderer that does not accept the correction of the Tender amount following correction of arithmetic errors as determined by the application of ITT Sub-Clause 49.2 shall be considered as non-responsive.

**50. Conversion to
Single
Currency**

50.1 For evaluation and comparison purpose, TEC shall convert all Tender prices expressed in the amounts in various currencies into an amount in Bangladeshi BDT currency, using the **selling exchange rates** established by the Bangladesh Bank, on the date of **Tender opening**.

**51. Domestic
Preference**

51.1 **Domestic preference** shall be a factor in tender evaluation, unless otherwise specified in the **TDS**

51.2 If **domestic preference shall be a tender-evaluation factor**, the Purchaser will grant a margin of fifteen percent (15%) domestic preference to Goods manufactured in Bangladesh during the evaluation of its Tender while comparing the same with those of other Tenderers under the classification set out in ITT Sub-Clause 51.3. The evaluation will be carried out in accordance with the provisions set out in ITT Clause 54.

51.3 Tenders will be classified in one of two groups, as follows:

- (a) **Group A:** Tender offering goods manufactured in Bangladesh, for which:
 - (i) labour, raw materials, and components from within the Bangladesh account for more than thirty (30) percent of the

EXW price; and

- (ii) the production facility in which they will be manufactured or assembled has been engaged in manufacturing or assembling such goods at least since the date of tender submission.

- (b) **Group B:** Tenders offering Goods manufactured outside Bangladesh that have been already imported or that will be imported.

51.4 To facilitate this classification by the Tenderer, the Tenderer shall complete whichever Form of the Price Schedule furnished in the Tender Document is appropriate.

51.5 Completion of an inappropriate Form of the Price Schedule by the Tenderer shall not result in rejection of its tender, but merely in the Purchaser's reclassification of the tenderer into its appropriate tender group.

52. Financial Evaluation

52.1 Thirdly the TEC, pursuant to Rule 98 of the Public Procurement Rules, 2008 shall evaluate each Tender that has been determined, up to this stage of the evaluation, to be responsive to the mandatory requirements in the Tender Document.

52.2 To evaluate a Tender in this stage, the Purchaser shall consider the following:

- (a) Verification and examination of the Price Schedule for Goods and Related Services (Form PG4-3A, 3B, 3C and PG4-3D) as furnished by the Tenderer and checking the compliance with the instructions provided under ITT Clause 23;
- (b) Evaluation will be done for Items or lot by lot as stated under ITT Clause 23 and the Total Tender Price as quoted in accordance with Clause 23;
- (c) Adjustment for correction of arithmetical errors as stated under ITT Sub-Clause 49.2;
- (d) Adjustment for price modification offered as stated under ITT Clause 38;
- (e) Adjustment due to discount as stated under ITT Sub-Clauses 23.8, 23.9 and 52.3;
- (f) Adjustment due to the application of economic factors of evaluation as stated under ITT Sub-Clause 52.5 if any;
- (g) Adjustment due to the assessment of the price of unpriced items as stated under ITT Clause 53 if any;
- (h) Adjustment due to the application of a margin of preference (domestic preference), in accordance with ITT Clause 54 if applicable

52.3 If Tenders are invited for a single lot or for a number of lots as stated under ITT Sub-clauses 23.3, TEC shall evaluate only lots that that have included

at least the percentage of items per lot as stated under ITT Sub-Clause 23.5 and 23.6. The TEC shall evaluate and compare the Tenders taking into account:

- (a) Lowest evaluated tender for each lot ;
- (b) The price discount/reduction per lot;
- (c) Least cost combination for the Purchaser, considering discounts and the methodology for its application as stated under ITT Sub-clauses 23.8 and 23.9 offered by the Tenderer in its Tender.

52.4 Only those spare parts and tools which are specified as a item in the List of Goods and Related Services in Section 6, Schedule of Requirement or adjustment as stated under ITT Sub-clause 52.5, shall be taken into account in the Tender evaluation. Supplier-recommended spare parts for a specified operating requirement as stated under ITT Sub-clause 25.2(b) shall not be considered in Tender evaluation.

52.5 The Purchaser's evaluation of a tender may require the consideration of other factors, in addition to the Tender Price quoted as stated under ITT Clause 23. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of tenders. The factors, methodologies and criteria to be used shall be as specified in TDS. The applicable economic factors, for the purposes of evaluation of Tenders shall be:

- (a) Adjustment for Deviations in the Delivery and Completion Schedule
- (b) Cost of major replacement components, mandatory spare parts, and service

52.6 Variations, deviations, and alternatives and other factors which are in excess of the requirements of the Tender Document or otherwise result in unsolicited benefits for the Purchaser will not be taken into account in Tender evaluation.

53. Assessing the Price of Unpriced Items

53.1 If it is so permitted under ITT Clause 23 , any Tenderer offered only eighty percent (80%) or minimum percent of the items of a lot as stated under ITT Sub-Clause 23.5, the TEC shall calculate the total lot value by adding up the average prices offered by other responsive Tenderers for the missing items to the lot value to establish the winning lot Tender. If the Tenderer offered less than the specified, the Tender shall be evaluated as sated under ITT Clause 23.

53.2 If the winning lot is missing some items as stated under ITT Sub Clause 53.1, comprising less than twenty percent (20%), the Purchaser may procure the missing items from the Tenderer offering the least cost for those remaining items.

54. Evaluation of Domestic Preference

54.1 If the Tender document so specifies, the Tenderer will grant a margin preference to goods manufactured in Bangladesh as stated in ITT Caluse 51 for the purpose of Tender comparison, in accordance with the procedure

outlined below:

- 54.2 The Purchaser will first review the tenders to confirm the appropriateness of, and to modify as necessary, the tenderer group classification to which Tenderers assigned their tenders in preparing their Tender Forms and Price Schedules.
- 54.3 All evaluated tenders in each group will then be compared to determine the lowest evaluated tender of each group. Such lowest evaluated tenders shall be compared with each other and if as a result of this comparison a tenderer from Group A and the Tenders offering Goods manufactured in Bangladesh is the lowest, it shall be selected for the award.
- 54.4 If, as a result of the preceding comparison, the lowest evaluated tender is from Group B,
 - (a) all Group B tenders will then be further compared with the lowest evaluated tender from Group A, after adding to the evaluated tender price of goods offered in the tender for Group B, for the purpose of further comparison only an amount equal to fifteen (15) percent of the CIF/CIP (named place of destination or named port of destination) tender price.
 - (b) The lowest-evaluated tender determined from this last comparison shall be selected for the award.

55. Price Comparison

- 55.1 The TEC shall compare all responsive Tenders to determine the lowest-evaluated Tender, as stated under ITT Clause 54.
- 55.2 In the extremely unlikely event that there is a tie for the lowest evaluated price, the Tenderer with the superior past performance with the Purchaser shall be selected, whereby factors such as delivery period, quality of Goods delivered, complaints history and performance indicators could be taken into consideration.
- 55.3 In the event that there is a tie for the lowest price and none of the Tenderers has the record of past performance with the Purchaser, then the Tenderer shall be selected, subject to firm confirmation through the Post-qualification process described in ITT Clause 57, after consideration as to whether the quality of Goods that is considered more advantageous by the end-users.
- 55.4 The successful Tenderer as stated under ITT Sub Clauses 55.1, 55.2 and 55.3 shall not be selected through lottery under any circumstances.

56. Negotiation

- 56.1 No negotiations shall be held during the Tender evaluation or award with the lowest or any other Tenderer pursuant to Rule 99 of the Public Procurement Rules, 2008.

57. Post-qualification

- 57.1 After determining the lowest-evaluated responsive tender as stated under ITT Sub-Clause 55.1, the Purchaser's TEC pursuant to Rule 100 of the Public Procurement Rules, 2008, shall carry out the Post-Qualification of the Tenderer, using only the requirements specified in Sub-Section C, Qualification Criteria.

- 57.2 The TEC shall contact the references given by Tenderers about their previous Supply experiences to verify, if necessary, statements made by them in their Tender and to obtain the most up-to-date information concerning the Tenderers.
- 57.3 The TEC may visit the premises of the Tenderer as a part of the post-qualification process, if practical and appropriate, to verify information contained in its Tender.
- 57.4 The TEC shall determine to its satisfaction whether the Tenderer that is selected as having submitted the lowest evaluated responsive Tender is qualified to perform the Contract satisfactorily.
- 57.5 The objective of any visit under ITT Sub-Clause 57.3 shall be limited to a general and visual inspection of the Tenderer's facilities and its plant and equipment, and there shall be no discussion concerning the Tender or its evaluation with the Tenderer during such visit(s).
- 57.6 In the event that the Tenderer with lowest evaluated cost fails the post-qualification, the TEC shall make a similar determination for the Tenderer offering the next lowest evaluated cost and so on from the remaining responsive Tenders, provided that,
 - (a) such action shall only be taken if the evaluated costs of the Tenders under consideration are acceptable to the Purchaser;
 - (b) when the point is reached whereby the evaluated costs of the remaining responsive Tenders are significantly higher than that of the official estimate, or the market price, the Purchaser may take action pursuant to Rule 33 and may proceed for re-Tendering, using a revised Tender Document designed to achieve a more successful result.

58. Rejection of All Tenders

- 58.1 The Purchaser may, in the circumstances as stated under ITT Sub-Clause 58.2 and pursuant to Rule 33 of the Public Procurement Rules 2008, reject all Tenders following recommendations from the Evaluation Committee only after the approval of such recommendations by the Head of the Purchaser.
- 58.2 All Tenders can be rejected, if -
 - (a) the price of the lowest evaluated Tender exceeds the official estimate, provided the estimate is realistic; or
 - (b) there is evidence of lack of effective competition; such as non-participation by a number of potential Tenderers; or
 - (c) the Tenderers are unable to propose completion of the delivery within the stipulated time in its offer, though the stipulated time is reasonable and realistic; or
 - (d) all Tenders are non-responsive; or
 - (e) evidence of professional misconduct, affecting seriously the Procurement process, is established pursuant to Rule 127 of the Public Procurement Rules, 2008.

- 58.3 Notwithstanding anything contained in ITT Sub-Clause 58.2 Tenders may not be rejected if the lowest evaluated price is in conformity with the market price.
- 58.4 A Purchaser may pursuant to Rule 35 of the Public Procurement Rules, 2008, on justifiable grounds, annul the Procurement proceedings prior to the deadline for the submission of Tenders.
- 58.5 All Tenders received by the Purchaser shall be returned unopened to the Tenderers in the event Procurement proceedings are annulled under ITT Sub-Clause 58.4.
- 59. Informing Reasons for Rejection**
- 59.1 Notice of the rejection, pursuant to Rule 35 of the Public Procurement Rules, 2008, will be given promptly within seven (7) days of decision taken by the Purchaser to all Tenderers and, the Purchaser will, upon receipt of a written request, communicate to any Tenderer the reason(s) for its rejection but is not required to justify those reason(s).

G. Contract Award

- 60. Award Criteria**
- 60.1 The Purchaser shall award the Contract to the Tenderer whose offer is responsive to the Tender Document and that has been determined to be the lowest evaluated Tender, provided further that the Tenderer is determined to be Post-Qualified as stated under ITT Clause 57.
- 60.2 A Tenderer shall not be required, as a condition for award of contract, to undertake obligations not stipulated in the Tender Document, to change its price, or otherwise to modify its Tender.
- 61. Purchaser's Right to Vary Quantities**
- 61.1 The Purchaser reserves the right at the time of Contract Award to increase or decrease the quantity, per item, of Goods and Related Services originally specified in Section 6: Schedule of Requirements, provided this does not exceed the percentages indicated in the TDS, and without any change in the unit prices or other terms and conditions of the Tender and the Tender Document.
- 62. Notification of Award**
- 62.1 Prior to the expiry of the Tender validity period and within seven (7) working days of receipt of the approval of the award by the Approving Authority, the Purchaser pursuant to Rule 102 of the Public Procurement Rules, 2008, shall issue the Notification of Award (NOA) to the successful Tenderer
- 62.2 The Notification of Award, attaching the contract as per the sample (Form PG4-7) to be signed, shall state:
- (a) the acceptance of the Tender by the Purchaser;
 - (b) the price at which the contract is awarded;
 - (c) the amount of the Performance Security and its format;
 - (d) the date and time within which the Performance Security shall be submitted; and

- (e) the date and time within which the contract shall be signed.
- 62.3 The Notification of Award shall be accepted in writing by the successful Tenderer within seven (7) working days from the date of issuance of NOA.
- 62.4 Until a formal contract is signed, the Notification of Award shall constitute a Contract, which shall become binding upon the furnishing of a Performance Security and the signing of the Contract by both parties.
- 62.5 The Notification of Award establishes a Contract between the Purchaser and the successful Tenderer and the existence of a Contract is confirmed through the signature of the Contract Document that includes all agreements between the Purchaser and the successful Tenderer.
- 63. Performance Security**
- 63.1 The Performance Security shall be determined sufficient to protect the performance of the Contract pursuant to Rule 27 of the Public Procurement Rules, 2008.
- 63.2 Performance Security shall be furnished by the successful Tenderer in the amount specified in the TDS and **denominated in the currencies** in which the Contract Price is payable pursuant to Rule 102 (8) of the Public Procurement Rules, 2008.
- 63.3 The proceeds of the Performance Security shall be payable to the Purchaser unconditionally upon first written demand as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 64. Form and Time Limit for furnishing of Performance security**
- 64.1 The Performance Security shall be in the form of irrevocable Bank Guarantee in the format (Form PG4-9) as stated under ITT Clause 63, **shall be issued by an internationally reputable bank and it shall have correspondent bank located in Bangladesh, to make it enforceable** pursuant to Rule 27(4) of the Public Procurement Rules, 2008..
- 64.2 Within twenty-eight (28) days from issue of the Notification of Award, the successful Tenderer shall furnish the Performance Security for the due performance of the Contract in the amount specified under ITT Sub Clause 63.2.
- 65. Validity of Performance Security**
- 65.1 The Performance Security shall be required to be valid until a date twenty-eight (28) days beyond the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations.
- 65.2 If under any circumstances date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations is to be extended, the Performance Security shall correspondingly be extended for the extended period.
- 66. Authenticity of**
- 66.1 The Purchaser shall verify the authenticity of the Performance Security submitted by the successful Tenderer by sending a written request to the

- performance Security** branch of the bank issuing irrevocable Bank Guarantee in specified format.
- 66.2 If the Performance Security submitted under ITT Sub Clause 63.2 is not found to be authentic, the Purchaser shall proceed to take measures against the Tenderer in accordance with Section 64 of the Act and pursuant to Rule 127 of the Public Procurement Rules, 2008.
- 67. Contract Signing**
- 67.1 At the same time as the Purchaser issues the Notification of Award, the Purchaser shall send the draft Contract Agreement and all documents forming the Contract pursuant to Rule 102 of the Public Procurement Rule, 2008, to the successful Tenderer.
- 67.2 Within twenty-eight (28) days of the issuance of Notification of Award, the successful Tenderer and the Purchaser shall sign the contract provided that the Performance Security submitted by the Tenderer is found to be genuine.
- 67.3 If the successful Tenderer fails to provide the required Performance Security, as stated under ITT Clause 63 or to sign the Contract, as stated under ITT Sub-Clause 67.2, Purchaser shall proceed to award the Contract to the next lowest evaluated Tenderer, and so on, by order of ranking pursuant to Rule 102 of the Public Procurement Rules, 2008.
- 68. Publication of Notification of Award of Contract**
- 68.1 Notification of Awards for Contracts of BDT 10(ten) million and above shall be notified by the Purchaser to the Central Procurement Technical Unit within 7(seven) days of issuance of the NOA for publication in their website, and that notice shall be kept posted for not less than a month pursuant to Rule 37 of the Public Procurement Rules, 2008.
- 68.2 Notification of Award for Contracts below BDT 10(ten) million, shall be published by the Purchaser on its Notice Board and where applicable on the website of the Purchaser and that notice shall be kept posted for not less than a month pursuant to Rule 37 of the Public Procurement Rules, 2008..
- 69. Debriefing of Tenderers**
- 69.1 Debriefing of Tenderers by Purchaser shall outline the relative status and weakness only of his or her Tender requesting to be informed of the grounds for not accepting the Tender submitted by him or her pursuant to Rule 37 of the Public Procurement Rule, 2008, without disclosing information about any other Tenderer.
- 69.2 In the case of debriefing confidentiality of the evaluation process shall be maintained.
- 70. Right to Complain**
- 70.1 Any Tenderer has the right to complain if it has suffered or likely to suffer loss or damage due to a failure of a duty imposed on the Purchaser to fulfil its obligations in accordance with Section 29 of the Public Procurement Act 2006 and pursuant to Part 12 of Chapter Three of the Public Procurement Rules, 2008.
- 70.2 Circumstances in which a formal complaint may be lodged in sequence by a

potential Tenderer against a Purchaser pursuant to Rule 56 of the Public Procurement Rules, 2008, and the complaints, if any, be also processed pursuant to Rule 57 of the Public Procurement Rules 2008.

- 70.3 The potential Tenderer shall submit his or her complaint in writing within seven (7) calendar days of becoming aware of the circumstances giving rise to the complaint.
- 70.4 In the first instance, the potential Tenderer shall submit his or her complaint to the Purchaser who issued the Tender Document.
- 70.5 The place and address for the first stage in the submission of complaints to the Administrative Authority is provided in the TDS.
- 70.6 The Tenderer may appeal to a Review Panel only if the Tenderer has exhausted all his or her options of complaints to the administrative authority as stated under ITT Sub-Clause 70.2.

Section 2. Tender Data Sheet

Instructions for completing the Tender Data Sheet are provided, as needed, in the notes in italics and under lined mentioned for the relevant ITT clauses.

ITT Clause	Amendments of, and Supplements to, Clauses in the Instruction to Tenderers
A. General	
ITT 1.1	<p>The Purchaser is: Chairman, BIWTA represented by Chief Engineer (Dredging Department), BIWTA.</p> <p>The Name and identification number of Tender are:</p> <p>Name of the Tender: Procurement of 01(One) No. Pontoon-mounted Grab Dredger with Dredge-Material Carrying Barges.</p>
ITT 1.2	<p>The number of Lot: 01(One)</p> <p>Identification number of Tender is: 18.11.0000.311.14.024.2019/2589</p> <p>Name of Lot: Procurement of 01(One) No. Pontoon-mounted Grab Dredger with Dredge-Material Carrying Barges.</p>
ITT 3.1	The source of public fund is <i>Government of Bangladesh (GoB)</i> .
ITT 3.3	The name of the Development Partner is: None
ITT 5.1	Tenderers from the following countries are not eligible: ISRAEL.
ITT 6.1	Goods and Related Services from the following counties are not eligible: ISRAEL
B. Tender Document	
ITT 8.2	<p>The following are the offices of the Purchaser or authorised agents for the purpose of providing the Tender Document:</p> <p>(a) Accounts Department, BIWTA Bhaban (level-9), 141-143 Motijheel C/A, Dhaka-1000, Bangladesh</p> <p>(b) Social Islami Bank Ltd. (SIBL), Foreign Exchange Branch (Ground Floor), 141-143 Motijheel C/A, Dhaka-1000, Bangladesh</p>

ITT 9.1	<p>For clarification of Tender purposes only, the Purchaser's address is: Attention: Chief Engineer (Dredging) Address: Dredging Dept. BIWTA Bhaban (level-7), 141-143 Motijheel C/A, Dhaka-1000, Bangladesh. Telephone: +88-02-9552127 Fax number: +88-02-9551072, +88-02-9571453 and +88-02-9552127 Electronic mail address: mamatin77@gmail.com</p>
ITT 10.1	<p>The Pre- Tender meeting shall be held at Office of Chief Engineer (Dredging). Address: Dredging Dept. BIWTA Bhaban (level-7), 141-143 Motijheel C/A, Dhaka-1000, Bangladesh. Telephone: +88-02-9552127 Fax number: +88-02-9551072, +88-02-9571453 and +88-02-9552127 Electronic mail address: mamatin77@gmail.com Time and Date : 19/02/2020 on 11:00 AM</p>
C. Qualification Criteria	
ITT 13.1	<p>The maximum 3 (three) number of arbitrations against the Tenderer over a period of 5 (five) years.</p>
ITT 14.1(a)	<p>The Tenderer shall have a minimum of 5 (five) years of overall experience in the supply of goods and related services.</p>
ITT 14.1(b)	<p>(i) The minimum specific experience as Supplier in supply of similar Goods (Grab Dredger/ Grab crane/ Crane Barge) of at least 1 (One) contract successfully completed within the last 5 (five) years. (i.e. years counting backward from the date of publication of IFT in the newspaper), each with a value of at least BDT 1620.00 (One thousand Six hundred Twenty) million or US\$ 19.00 (Nineteen) million.</p> <p style="text-align: center;">Or</p> <p>The minimum specific experience as Supplier in supply of similar Goods (Grab Dredger/ Grab crane/ Crane Barge) of at least 2 (Two) contract(s) successfully completed within the last 5 (five) years. (i.e. years counting backward from the date of publication of IFT in the newspaper), each with a value of at least BDT 810.00 (Eight hundred Ten) million or US\$ 10.00 (Ten) million.</p> <p>(ii) The foreign reputed dredger manufacturer must submit of its at least 15 (fifteen) years of experience in manufacturing & overseas supply of Class Grab crane/ Class Grab Dredgers/ Class Crane Barge (with proven documentary evidences).The dredger manufacturer must submit proven satisfactory performance certificate of its Class Grab crane/ Class Grab Dredgers/ Class Crane Barge which is issued by its client (s) supplied.</p>

ITT 14.1(c)	<p>The minimum supply and/or production capacity of Goods is/ are:</p> <p>The tenderer must submit a statement with layout plan to show their production/supply capacity sufficient of equal of the goods for which tender has been invited for procurement.</p>
ITT 15.1(a)	<p>The minimum amount of liquid asset or working capital or credit facility is BDT 2025.00 (Two thousand and twenty-five) million or equivalent US\$ 24.00 (Twenty-four) million.</p>
ITT 16.2	<p>The maximum of percentage 20 (Twenty) of Goods & related services allowed to be subcontracted as following:</p> <p>The foreign tenderer may appoint a local (Bangladesh) tenderer as subcontractor for Self-Propelled Dredge material carrying hopper barge and Self-propelled Dredge material carrying barge only having following qualifications:</p> <p>(a) It must have at least 3 (Three) years' experience in manufacturing of class dredgers/class vessels. The satisfactory completion certificate of supply shall have to be submitted with the offer in support of manufacturing class dredgers/class vessels.</p> <p>(b) It shall have liquid asset or working capital or credit facility of worth BDT 100% (hundred percent) cost of concerned subcontracting goods & related services.</p> <p>(c) Subcontractor must comply with the provision of ITT clause 5. For this purpose contractor shall complete the Subcontractor's information in Form PG4-2A for submission with tender.</p>
D. Preparation of Tender	
ITT 21.1(q)	<p>The Tenderer shall submit with its Tender the following additional documents:</p> <ol style="list-style-type: none"> I. Tender document purchase receipt (Original); II. Attested copy of valid Trade Licence or equivalent certificate(s) as applicable in the Tenderer's Country; III. Manufacturer's certificate (if applicable); IV. Authorization of Local Agent for foreign tenderer is mandatory. V. G.A plan of Pontoon-mounted Grab Dredger, Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge, Self-Propelled Dredge-Material Carrying Barge. VI. Midship section, lines plan & stability booklet of Pontoon-mounted Grab Dredger, Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge, Self-Propelled Dredge-Material Carrying Barge. VII. Speed calculation of Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge, Self-Propelled Dredge-Material Carrying Barge VIII. Brochures (Main Engine, auxiliary engine, generator, hydraulic pump, grab crane, winch, bucket and other machinery & equipment etc).

	<p>IX. Documentary evidences of the yard facilities, infrastructures, machineries, equipment etc.;</p> <p>XI. A list of human resources including class Welders, class Fitters, Technician etc. shall be provided.</p> <p>XII. Other documents described in ITT clause 21.1, ITT clause 21.2 and ITT clause 21.3.</p>
ITT 22.1	Alternative tender shall not be permitted.
ITT 23.3	Not Applicable
ITT 23.5	No instruction other than in ITT is applicable.
ITT 23.7	The following particular item represents more than fifty percent (50%) of the estimated lot value is: <i>None</i>
ITT 23.11(c) ITT 23.12 (c) ITT 23.13 (e)	“Final destination (Project Site)”: Dredger Base, BIWTA, Narayanganj, Bangladesh.
ITT 23.12 (a)	Place of Destination: Dredger Base, BIWTA, Narayanganj, Bangladesh.
ITT 23.12 (d)	In addition to the CIF/CIP price specified in ITT 23.12(a), the price of the Goods manufactured outside Bangladesh shall be quoted: Dredger Base, BIWTA, Narayanganj, Bangladesh.
ITT 24.3	Name of the foreign currency: USD or GBP or EUR or JPY.
ITT 25.2(b)	Spare parts are: Required as mention in Section-7 (Technical Specification).
ITT 26.1(b)	<p>Manufacturer’s Authorisation Letter is required for main engine, auxiliary engine, gear box, generator, hydraulic pump, grab crane, winch, bucket and spare parts etc. for pontoon mounted grab dredger and barges.</p> <p>Manufacturer’s Authorisation Letter shall be submitted from manufacturer or authorized dealer/agent/distributor of manufacturer.</p>
ITT 26.1(C)	After sales service is: The period of time that after sales service is expected to be available shall be 20 (twenty) years.
ITT 27.2	The Tender validity period shall be 180 (One Hundred & Eighty) days.
ITT 29.2	In favour of BIWTA.
ITT 29.3	The amount of the Tender Security shall be BDT 21.00 (Twenty-one) million or equivalent US\$ 247.00 (Two Forty-Seven) thousand.

ITT 34.1	Original copy and 1 (one) photocopies of tender document of which each page shall be numbered, signed & sealed by the Tenderer.
E. Submission of Tender	
ITT 35.2(c)	<p>The inner and outer envelopes shall bear the following additional identification marks:</p> <p>The tenderer shall seal the original and each copy of the tender in separate envelopes, duly marking the envelopes as “ORIGINAL” and “COPY”.</p> <p>The inner and outer envelopes shall:</p> <ul style="list-style-type: none"> (a) bear the name and address of the Tenderer; (b) be addressed to the Purchaser at the address; (c) bear the name of the Tender and the Tender Number and bear a statement “DO NOT OPEN BEFORE 12-03-2020 at 14:30 hours.
ITT 35.7	Tenderer shall not have the option of submitting their tender electronically.
ITT 35.8	If bidders shall have the option of submitting their bids electronically, the electronic bidding submission procedures shall be: Not Applicable.
ITT 36.1	<p>For <u>Tender submission purposes</u>, the Purchaser’s address is:</p> <p>Primary: Office of the Chief Engineer (Dredging) and Project Director, Dredging Department, BIWTA Bhaban (level-7), 141-143 Motijheel C/A, Dhaka, Bangladesh.</p> <p>Secondary:</p> <ul style="list-style-type: none"> (a) Office of the Divisional Commissioner, 1st 12 storied govt. office bhaban, 2nd floor, Room no. 303, Segunbagicha, Dhaka, Bangladesh. (c) Office of the Police Commissioner, Dhaka Metropolitan Police Headquarters, Ramna, Dhaka-1000, Bangladesh. <p>The deadline for submission of Tenders is 12:00 hours on 12-03-2020.</p>
F. Opening and Evaluation of Tenders	
ITT 42.2	<p>The Tender opening shall take place at:</p> <p>Office of the Chief Engineer (Dredging) and Project Director, Dredging Department, BIWTA Bhaban (level-7), 141-143 Motijheel C/A, Dhaka, Bangladesh.</p> <p>Time & Date: 14:30 hours on 12-03-2020.</p>
ITT 42.3	If electronic tender submission is permitted as sated under ITT sub-clause 34.8, the specific tender opening procedures shall be: Not Applicable
ITT 51.1	Domestic preference shall be a tender evaluation factor.

ITT 52.5	The applicable economic factors, for the purposes of evaluation of Tenders shall be: No factor shall be allowed.
G. Award of Contract	
ITT 61.1	The maximum percentage by which quantities per item may be increased is: Not applicable. The maximum percentage by which quantities per item may be decreased is: Not applicable.
ITT 63.2	The amount of Performance Security shall be 10% (ten percent) of the Contract Price.

Section 3. General Conditions of Contract

1. Definitions

1.1 The following words and expressions shall have the meaning hereby assigned to them. Boldface type is used to identify the defined term:

- (a) **Completion Schedule** means the fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract;
- (b) **Contract Agreement** means the Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein;
- (c) **Contract Documents** means the documents listed in the Contract Agreement, including any amendments thereto;
- (d) **Contract Price** means the price stated in the Notification of Award and thereafter as adjusted in accordance with the provisions of the Contract;
- (e) **Day** means calendar days unless otherwise specified as working days;
- (f) **Delivery** means the transfer of ownership of the Goods from the Supplier to the Purchaser in accordance with the terms and conditions set forth in the Contract;
- (g) **GCC** mean the General Conditions of Contract;
- (h) **Goods** means raw materials, products and equipment and objects in solid, liquid or gaseous form, electricity, and related Services if the value of such Services does not exceed that of the Goods themselves;
- (i) **Government** means the Government of the People's Republic of Bangladesh;
- (j) **Procuring Entity/Purchaser** means a Entity having administrative and financial powers to undertake Procurement of Goods, Works or Services using public funds, as specified in the PCC;
- (k) **Related Services** means Services linked to the supply of Goods contracts.;
- (l) **PCC** means the Particular Conditions of Contract;
- (m) **Subcontractor** means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier;
- (n) **Supplier** means a Person under contract with a Purchaser for the supply of Goods and related Services under the Act;

- (o) **Site** means the point(s) of delivery named in the PCC
- (p) **Writing** means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail.
- (q) **Verified Report** means the report submitted by the Purchaser to the Head of the Purchaser setting forth its findings as to the existence of grounds or causes for termination and explicitly stating its recommendation for the issuance of a Notice to Terminate.

2. Contract Documents

2.1 Subject to the order of precedence set forth in the GCC Sub-Clause 5.1, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

3. Corrupt, Fraudulent, Collusive or Coercive Practices

3.1 The Government requires that Purchaser, as well as Suppliers, shall observe the highest standard of ethics during the implementation of procurement proceedings and the execution of contracts under public funds.

3.2 The Government requires that Procuring Entities, as well as Suppliers shall, during the execution of Contracts under public funds, ensure-

- (a) strict compliance with the provisions of Section 64 of the Public Procurement Act 2006 (Act 24 of 2006);
- (b) abiding by the code of ethics as mentioned in the Rule 127 of the Public Procurement Rules, 2008;
- (c) that neither it nor any other member of its staff or any other agents or intermediaries working on its behalf engages in any practice as detailed in GCC Sub -Clause 3.3

3.3 For the purpose of GCC Sub-clause 3.2 the terms –

- (a) **corrupt practice** means offering, giving or promising to give, receiving, or soliciting, either directly or indirectly, to any officer or employee of a Purchaser or other public or private authority or individual, a gratuity in any form; employment or any other thing or service of value as an inducement with respect to an act or decision or method followed by a Purchaser in connection with a Procurement proceeding or contract execution;
- (b) **fraudulent practice** means the misrepresentation or omission of facts in order to influence a decision to be taken in a Procurement proceeding or Contract execution;
- (c) **collusive practice** means a scheme or arrangement between two (2) or more Persons, with or without the knowledge of the Purchaser, that is designed to arbitrarily reduce the number of Tenders submitted or fix Tender prices at artificial, noncompetitive levels, thereby denying

a Purchaser the benefits of competitive price arising from genuine and open competition; or

- (d) **coercive practice** means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in a Procurement proceeding or the execution of a Contract, and this will include creating obstructions in the normal submission process used for Tenders.

3.4 Should any corrupt, fraudulent, collusive or coercive practice of any kind come to the knowledge of the Purchaser, it will, in the first place, allow the Supplier to provide an explanation and shall, take actions only when a satisfactory explanation is not received. Such exclusion and the reasons thereof, shall be recorded in the record of the procurement proceedings and promptly communicated to the Supplier concerned. Any communications between the Supplier and the Purchaser related to matters of alleged fraud or corruption shall be in writing.

3.5 If corrupt, fraudulent, collusive or coercive practices of any kind determined by the Purchaser against the Supplier alleged to have carried out such practices, the Purchaser shall proceed under GCC Clause 42.4

3.6 The Supplier shall permit the Purchaser to inspect the Supplier's accounts and records and other documents relating to the submission of the Tender and Contract performance.

4. Interpretation

4.1 In interpreting the GCC, singular also means plural, male also means female or neuter, and the other way around. Headings in the GCC shall not be deemed part thereof or be taken into consideration in the interpretation or construction thereof or of the Contract. Words have their normal meaning under the English language unless specifically defined.

4.2 Entire Agreement

- (a) The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract Agreement; except those stated under GCC Sub Clause 5.1(i) .

4.3 Amendment

- (a) No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorised representative of each party thereto.

4.4 Non-waiver

- (a) Subject to GCC Sub-Clause 4.4(b), no relaxation,

forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

- (b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorised representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.5 Severability

- (a) If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Documents Forming the Contract in order of precedence

- 5.1 The following documents forming the Contract shall be in the following order of precedence, namely:
 - (a) the signed Contract Agreement;
 - (b) the Notification of Award;
 - (c) The Tender and the appendices to the Tender;
 - (d) Particular Conditions of Contract;
 - (e) General Conditions of Contract;
 - (f) Technical Specifications;
 - (g) Drawings;
 - (h) Priced Schedule and schedule of requirements and;
 - (i) Other Documents including correspondences listed in the PCC forming part of the Contract.

6. Eligibility

- 6.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.
- 6.2 All Goods and Related Services to be supplied under the Contract shall have their origin in Eligible Countries.
- 6.3 For the purpose of the GCC Clause 6.2, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that

differs substantially in its basic characteristics from its components.

- 7. Governing Language**
- 7.1 The Contract shall be written in English language. Correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser shall be written in English .Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in English language, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- 7.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.
- 8. Governing Law**
- 8.1 The Contract shall be governed by and interpreted in accordance with the laws of the People’s Republic of Bangladesh.
- 9. No fees/Gratuities**
- (a) No fees, gratuities, rebates, gifts, commissions or other payments, other than those shown in the Tender or the contract, shall be given or received in connection with the procurement process or in the contract execution.
- 10. Use of Contract Documents & Information**
- 10.1 The Supplier shall not, except for purposes of performing the obligations in this Contract, without the Purchaser’s prior written consent, disclose this Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Purchaser. Any such disclosure shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.
- 10.2 Any document, other than this Contract itself, enumerated in GCC Clause 10.1 shall remain the property of the Purchaser and shall be returned (all copies) to the Purchaser on completion of the Supplier’s performance under this Contract if so required by the Purchaser.
- 11. Communications & Notices**
- 11.1 Communications between Parties (notice, request or consent required or permitted to be given or made by one party to the other) pursuant to the Contract shall be in writing to the addresses specified in the PCC.
- 11.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.
- 11.3 A Party may change its address for notice hereunder by giving the other Party notice of such change to the address.
- 12. Trademark, Patent and Intellectual Property Rights**
- 12.1 The Purchaser should not be liable for any infringement of intellectual property rights arising from use of the goods procured. In case there are third-party claims of such infringement of patent, trademark, or industrial design rights, the supplier must indemnify and hold the Purchaser free and harmless against such claims and

shall not be in contravention of The **Trademark Act, 2009** and The **Patents and Designs Act, 1911**.

- 13. Copyright** 13.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.
- 14. Assignment** 14.1 The Supplier shall not assign his rights or obligations under the Contract, in whole or in part, except with the Purchaser's prior written consent.
- 15. Sub contracting** 15.1 Any subcontracting arrangements made during contract implementation and not disclosed at the time of the Tendering shall not be allowed.
- 15.2 Subcontracting of any portion of the Goods shall not relieve the Tenderer from any liability or obligations that may arise from its performance.
- 15.3 Supplier shall retain full responsibility for the contract and can not pass any contractual obligations to the subcontractor and under no circumstances assignment of the contract to the subcontractor be allowed.
- 15.4 Subcontractors shall comply with the provisions of GCC Clause 3 and 6.
- 16. Supplier's Responsibilities** 16.1 The Supplier shall supply all the Goods and Related Services specified in the Scope of Supply as stated under GCC Clause 18 and the Delivery and Completion schedule, as stated under GCC Clauses 23 and 24 in conformity with the provisions of the Contract Agreement.
- 17. Purchaser's Responsibilities** 17.1 Whenever the performance of the obligations in this Contract requires that the Supplier obtain permits, approvals and other license from local public authorities, the Purchaser may, if so needed by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner. However, the supplier shall bear the costs of such permits and/or licenses. On the other hand, the Purchaser shall pay all costs involved in the performance of its responsibilities, in accordance with the contract.
- 17.2 The Purchaser shall pay the Supplier, in consideration of the provision of Goods and Related Services, the Contract Price under the provisions of the Contract at the times and manner prescribed in the Contract Agreement.
- 18. Scope of Supply** 18.1 Subject to the PCC, the Goods and Related Services to be supplied

shall be as specified in Section 6: Schedule of Requirements.

18.2 Unless otherwise stipulated in the Contract, the Scope of Supply shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Delivery and Completion of the Goods and Related Services as if such items were expressly mentioned in the Contract.

19. Amendment to Order

19.1 The Purchaser may make an amendment to Order for necessary adjustment within the general scope of the contract in any one or more of the following aspects in order to fully meet the requirement of the Contract:

- (a) Drawing, design or specifications of the goods, provided that:
 - i. The goods to be furnished are to be specifically manufactured for the government in accordance therewith;
 - ii. The change is an improvement of the goods and advantageous to the Government;
 - iii. It is done at no extra cost; and
 - iv. It is not prejudicial to the losing Tenderers in the sense that such change/s could not have been foreseen during the conduct of the tendering and would have significantly affected the other tenderer's tender;
- (b) The place of delivery;
- (c) The place of performance of the services;
- (d) Additional items needed and necessary for the protection of the goods procured, which were not included in the original contract.

19.2 Such amendment may or may not result to an increase or a decrease of the contract price, and/or an extension or reduction of the delivery period. However, the amendment should not have the result of changing the subject matter of the contract or the specifications of the goods or services, in any material aspect and to such an extent that, if introduced during the Tendering stage, may have had a significant effect on other Tenderer's tender, because this situation would actually require another tendering activity.

20. Instances When Amendment to Order May be Issued

- 20.1 The Purchaser may issue amendments order at any time during contract implementation, through a notice as stated under GCC Clause 11, provided that such adjustment is required to fully meet the requirements of the contract. Any of the following circumstances may serve as basis for such amendment/s:
- (a) Emergency cases, fortuitous events or unforeseen contingencies arising during contract implementation, and such contingencies have an impact on the procurement at hand, such as:
 - i. Changes in the conditions affecting the contract, e.g., a change in the place of delivery;
 - ii. Time is of the essence in the implementation of the contract, and any changes require immediate implementation; and
 - iii. Additional requirements have been identified as necessary for the protection of the goods procured, such as changes in the packaging of the goods, or additional items have become necessary to ensure that the goods are sufficiently protected from the elements;
 - (b) When the contract does not reflect the real intention of the parties due to mistake or accident, and the amendment is necessary to reflect the party's intention; and
 - (c) Other analogous circumstances that could affect the conditions of the procurement at hand

21. Adjustments in Contract Price and/or Delivery Schedule in Amendment to Order

- 21.1 If an amendment to order increases or decreases the cost of, or the time required for executing any part of the delivery under the original contract, an equitable adjustment in contract price and/or delivery schedule should be mutually agreed upon between parties concerned, and the contract should be modified as stated under GCC Clause 46
- 21.2 If the amendment to order consists of additional items, the price adjustment shall be based on the unit price in the original contract for items of goods similar to those in the original contract. If the contract does not contain any rate applicable to the additional items, then suitable prices shall be mutually agreed upon between the parties, based on prevailing market prices.
- 21.3 It is required, however, that any increase in contract price must not exceed ten percent (10%) of the original contract price.

22. Packing and Documents

- 22.1 The Supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract and in accordance with existing industry standards. The packing shall be sufficient to withstand, without limitation, rough handling and exposure to

extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

22.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract as stated under GCC Clause 22.1, including additional requirements, if any, specified in the PCC, and in any subsequent instructions ordered by the Purchaser.

22.3 The outer packaging must contain a "Packing List" which must reflect the actual contents of the package.

23. Delivery and Documents

23.1 Subject to GCC Sub-Clause 19, the Delivery of the Goods and completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Section 6: Schedule of Requirements.

23.2 The details of shipping and other documents to be furnished by the Supplier shall be specified in the PCC, and shall be received by the Purchaser at least one week before arrival of the Goods and, if not received the Supplier shall be responsible for consequent expenses.

24. Acceptance

24.1 Acceptance by the Purchaser shall be completed not later than fourteen (14) days from receipt of the goods at final destination in the form of an **Acceptance Certificate**, unless any defects in the supply, any damage during transportation or any failure to meet the required performance criteria of the supply are identified and reported to the Supplier as stated under GCC Clause 31 and GCC Clause 32. In such cases the Acceptance Certificate will be issued only for those parts of the contract supplies which are accepted. The Acceptance Certificate for the remaining supplies will only be issued after the Supplier has remedied the defects and/or any non-conformity under GCC Clause 31 and GCC Clause 32.

24.2 The appropriate Technical Inspection and Acceptance Committee of the Purchaser must commence the inspection and acceptance process within two (2) days from delivery of the goods, and shall complete the same as soon as practicable.

25. Contract Price

25.1 The Contract Price shall be specified in the PCC.

- 25.2 During evaluation, tender has excluded and not taken into account:
- (a) In the case of Goods manufactured in Bangladesh, VAT payable on account of Supplier, which will be payable on the goods if a contract is awarded to the Tenderer;
 - (b) in the case of Goods manufactured outside the Bangladesh, already imported or to be imported, customs duties, import VAT and other import taxes levied on the imported Good, VAT, which will be payable on the Goods if the contract is awarded to the Tenderer.
- 25.3 The Contract price will include all the costs paid or payable as stated under GCC Clause 25.2.
- 25.4 Prices charged by the Supplier for the Goods delivered and the Related Services performed under the Contract shall not vary from the price as stated under GCC Sub-Clause 25.1, with the exception of any change in price resulting from a Change Order issued under GCC Clause 19.

26. Transportation

- 26.1 The Supplier is required under the Contract to transport the Goods to a specified place of destination as specified in Section 6: Schedule of Requirements, defined as the Site, transport to such place of destination, including insurance, other incidental costs, and temporary storage, if any. These costs shall be included in the Contract Price.
- 26.2 If not in accordance GCC Clause 26.1, responsibility for transportation of the Goods shall be as specified in the *INCOTERM* indicated in the Price Schedule or any other trade terms specify the responsibilities of the Purchaser and Supplier as specified in PCC.

27. Terms of Payment

- 27.1 The Contract Price, including any Advance Payments, if applicable, shall be paid in the manner as specified in the PCC.
- 27.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Related Services performed, and accompanied by the documents as stated under GCC Clause 23 and 24 and upon fulfilment of any other obligations stipulated in the Contract.
- 27.3 Payments shall be made promptly by the Purchaser, but in no case later than the days indicated in the PCC after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.
- 27.4 The currencies in which payments shall be made to the Supplier under this Contract shall be those in which the tender price is

expressed.

27.5 In the event that the Purchaser fails to pay the Supplier any payment by its respective due date or within the period set forth in the PCC, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the PCC, for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.

28. Insurance

28.1 The Goods supplied under this Contract shall be fully insured by the Supplier in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery. The Goods remain at the risk and title of the Supplier until their final acceptance by the Purchaser.

28.2 If not in accordance GCC Clause 28.1, the insurance coverage shall be as specified in the *INCOTERM* indicated in the Price Schedule or any other insurance provisions as specified in PCC.

29. Taxes and Duties

29.1 For Goods Manufactured within Bangladesh, the Supplier shall be entirely responsible for all taxes, duties, VAT, license fees, and other such levies imposed or incurred until delivery of the contracted goods to the Purchaser.

29.2 For Goods manufactured outside Bangladesh, the Supplier shall be entirely responsible for all taxes, duties and other such levies imposed outside Bangladesh.

29.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in Bangladesh, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.

30. Performance Security

30.1 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

30.2 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than Thirty (30) days following the date of Completion of the Supplier's performance obligations under the Contract and the issuance of certification to that effect by the Purchaser, including any warranty obligations as stated under GCC Clause 33, provided that there are no claims filed against the supplier.

31. Specifications and Standards

31.1 The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section 7, Technical Specification and in Section 8, Drawings, if any.

31.2 If there is no applicable standard, the goods must conform to the authoritative standards appropriate to the good's country of origin. Such standards must be the latest issued by the concerned institution.

- 31.3 Subject to the GCC Clause 19, the Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
- 31.4 Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Technical Specification. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated under GCC Clause 19.

32. Inspections and Tests

- 32.1 The Purchaser shall have the right to test the Goods to confirm their conformity to the Contract specifications. The PCC and Technical specifications shall specify what tests the Purchaser requires and where they are to be conducted. The supplier shall at its own expense and at no cost to the Purchaser, carry out all such tests of the Goods and related services as are specified in the Contract.
- 32.2 The Supplier shall provide the Purchaser with a report of the results of any such test.
- 32.3 The Purchaser may engage external agents for the purpose of conducting inspection or pre-shipment inspection of Goods, provided that the Purchaser shall bear all of its costs and expenses.
- 32.4 The Purchaser or its designated representative as specified shall be entitled to attend the tests and/or inspections under GCC Clause 32.1, provided that the Purchaser shall bear all of its own costs and expenses incurred in connection with such attendance.
- 32.5 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
- 32.6 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract, but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications, codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impede the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and

Completion Dates and the other obligations so affected.

- 32.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice under GCC Sub-Clause 32.5.
- 32.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report as stated under GCC Sub-Clause 32.2, shall relieve the Supplier from any warranties or other obligations under the Contract.

33. Warranty

- 33.1 The Supplier warrants that all the Goods supplied under the Contract are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, except when the design and/or material required by the Purchaser provides otherwise under GCC Clause 19.
- 33.2 The Supplier further warrants that the all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in Bangladesh.
- 33.3 In order to assure that manufacturing defects shall be corrected by the Supplier, manufacturer, or distributor, as the case may be, a warranty shall be required from the Supplier for a minimum period of three (3) months in the case of supplies, and one (1) year in the case of equipment, or other such period as may be specified in the PCC, after the Goods, or any portion thereof as the case may be, have been delivered to and accepted in the form of an **Acceptance Certificate** as indicated in the GCC Clause 24.1 at the final destination indicated in the PCC
- 33.4 The warranty periods may vary among the various items and lots. The warranty for Goods delivered ahead will lapse earlier than the succeeding deliveries.
- 33.5 The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.
- 33.6 Upon receipt of such notice, the Supplier shall, within the period specified in the PCC, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 33.7 If the Supplier, having been notified, fails to remedy the defect(s) within the period as stated under GCC Sub Clause 33.6, the Purchaser may proceed to call upon the Performance security without prejudice to any other rights which the Purchaser may have

against the Supplier under the Contract and under the applicable law.

- 33.8 Performance Security under GCC Clause no 30 shall only be released after the lapse of the warranty period, provided that the goods supplied are free from patent and latent defects and all the conditions imposed under the contract have been fully met.
- (a) A patent defect, which is one that is apparent to the buyer on normal observation. It is an apparent or obvious defect.
 - i. For example, a ball pen that does not write is patently defective.
 - (b) A latent defect, which is one that is not apparent to the buyer by reasonable observation. A latent defect is “hidden” or one that is not immediately determinable.
 - i. For example, a ball pen that writes .75 kilometres instead of the expected 1.5 kilometres, has a latent defect.

**34. Delays in
Delivery and
Extensions of
Time**

- 34.1 The Supplier must deliver the Goods or perform the services procured within the period prescribed by the Purchaser, as specified in the Contract.
- 34.2 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services as stated under GCC Clause 23, the Supplier shall promptly notify the Purchaser in writing. It must state therein the cause/s and duration of the expected delay. The Purchaser shall decide whether and by how much to extend the time. In all cases, the request for extension should be submitted before the lapse of the original delivery date.
- 34.3 Within twenty-one (21) days of receipt of the Supplier’s notice, the Purchaser shall evaluate the situation and may grant time extensions, if based on justifiable grounds, without liquidated damages.
- 34.4 The Procuring may extend up to twenty percent (20%) of the original contract time, above 20% of the original contract time approval of Head of Purchaser (HOPE) shall be required, in which case the extension shall be ratified by the Parties by amendment of the Contract as stated under GCC Clause 46.
- 34.5 Except in the case of Force Majeure, as provided under GCC Clause 38, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages as stated under GCC Clause 35, unless an extension of time is agreed upon, under GCC Sub-Clause 34.3.

**35. Liquidated
Damages**

- 35.1 Subject to GCC Clause 34 and 38, if the , if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery and/or perform the Related Services within the period specified in the

Contract as stated under GCC Clause 23, the Purchaser shall, without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the PCC of the Contract price of the delayed Goods or unperformed / Related Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those PCC. Once the maximum is reached, the Purchaser may terminate the Contract as stated under GCC Clause 42.

36.Limitation of Liability

36.1 Except in cases of criminal negligence or wilful misconduct, and in the case of infringement of patent and intellectual property rights, if applicable, the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, the aggregate liability of the Supplier to the Purchaser shall not exceed the total Contract Price, provided that this limitation shall not apply, to the cost of repairing or replacing defective equipment or, to any obligation of the Supplier to pay liquidated damages to the Purchaser.

37.Change in Laws and Regulations

37.1 Unless otherwise specified in the Contract, if after the Contract, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in Bangladesh (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract.

38.Definition of Force Majeure

38.1 In this Clause, “Force Majeure” means an exceptional event or circumstance:

- (a) which is beyond a Party’s control;
- (b) which such Party could not reasonably have provided against before entering into the Contract;
- (c) which, having arisen, such Party could not reasonably have avoided or overcome; and
- (d) which is not substantially attributable to the other Party.

38.2 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:

- (i) war, hostilities (whether war be declared or not), invasion, act of foreign enemies;
- (ii) rebellion, terrorism, sabotage by persons other than the Contractor’s Personnel, revolution, insurrection, military or usurped power, or civil war;

- (iii) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel;
- (iv) munitions of war, explosive materials, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and
- (v) natural catastrophes such as cyclone, hurricane, typhoon, tsunami, storm surge, floods, earthquake, landslides, fires, epidemics, quarantine restrictions, or volcanic activity;
- (vi) freight embargoes;
- (vii) acts of the Government in its sovereign capacity.

39. Notice of Force Majeure

- 39.1 If a Party is or will be prevented from performing its substantial obligations under the Contract by Force Majeure, then it shall give notice to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given within 14 days after the Party became aware, or should have become aware, of the relevant event or circumstance constituting Force Majeure.
- 39.2 The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.
- 39.3 Notwithstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.

40. Duty to Minimise Delay

- 40.1 Each Party shall at all times use all reasonable endeavours to minimise any delay in the performance of the Contract as a result of Force Majeure.
- 40.2 A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.

41. Consequences of Force Majeure

- 41.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 41.2 The Purchaser may suspend the delivery or contract implementation, wholly or partly, by written order for a certain period of time, as it deems necessary due to force majeure as defined in the contract.
- 41.3 Delivery made either upon the lifting or the expiration of the suspension order. However, if the Purchaser terminates the contract as stated under GCC clause 42, resumption of delivery cannot be done.

- 41.4 Head of Purchaser determines the existence of a force majeure that will be basis of the issuance of suspension of order.
- 41.5 Adjustments in the delivery or contract schedule and/or contract price, Including any need to modify contract under GCC Clause 46.

42. Termination for Default

- 42.1 The Purchaser shall terminate this Contract for default when any of the following conditions attends its implementation:
 - (a) Outside of force majeure, the Supplier fails to deliver or perform any or all of the GOODS within the period(s) specified in the contract, or within any extension thereof granted by the Purchaser pursuant to a request made by the Supplier prior to the delay;
 - (b) As a result of force majeure, the Supplier is unable to deliver or perform any or all of the GOODS, amounting to at least ten percent (10%) of the contract price, for a period of not less than sixty (60) calendar days after receipt of the notice from the Purchaser stating that the circumstance of force majeure is deemed to have ceased; or
 - (c) The Supplier fails to perform any other obligation under the Contract;
 - (d) If the Supplier, in the judgment of the Purchaser has engaged in corrupt, fraudulent, collusive or coercive practices, as stated under GCC Clause 3, in competing for or in executing the Contract;
 - (e) When deductible amount due to liquidated damage reaches its maximum as stated under GCC Clause 35.
- 42.2 Termination of a contract for default is without prejudice to other remedies available to the Purchaser for breach of contract, such as payment of liquidated and other damages, if there are grounds for the latter.
- 42.3 In the event the Purchaser terminates the Contract in whole or in part, as stated under GCC Clause 42.1, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.
- 42.4 In the event as stated under GCC Clause 42.1(d), the Purchaser shall,
 - (a) terminate the Supplier's employment under the Contract and cancel the contract, after giving 14 days' notice to the

Supplier and the provisions of Clause 42 shall apply as if such expulsion had been made under Sub-Clause 42.1

- (b) declare, at its discretion, the concerned Person to be ineligible to participate in further Procurement proceedings, either indefinitely or for a specific period of time.

43. Termination for insolvency

43.1 The Purchaser shall terminate this Contract if the Supplier is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser and/or the Supplier.

44. Termination for Convenience

44.1 The Purchaser, by written notice sent to the supplier, may terminate this Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that the termination is for the Purchaser's convenience, the extent to which performance of the supplier under the contract is terminated, and the date upon which such termination becomes effective.

44.2 Any of the following circumstances may constitute sufficient grounds to terminate a contract for conveniences :

- (a) If Physical and economic conditions have significantly changed so as to render the contract no longer economically, financially or technically feasible, as determined by the Head of Purchaser;
- (b) The Head of Purchaser has determined the existences of conditions that make contract implementation impractical and/or unnecessary, such as, but not limited to , fortuitous event/s, change in laws and government policies;
- (c) Funding for the contract has been withheld or reduced;
- (d) Any circumstances analogous to the foregoing.

44.3 The GOODS that have been delivered and/or performed or are ready for delivery or performance within thirty (30) calendar days after the Supplier's receipt of Notice to Terminate shall be accepted by the Purchaser at the contract terms and prices. For GOODS not yet performed and/or ready for delivery, the Purchaser may elect:

- (a) to have any portion delivered and/or performed and paid at the contract terms and prices; and/or
- (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed and/or performed goods and for materials and parts previously procured by the Supplier.

45. Procedures for Termination of Contracts

- 45.1 The following provisions shall govern the procedures for termination of this Contract as stated under GCC Clauses 42,43 and 44:
- (a) Upon receipt of a written report of acts or causes which may constitute ground(s) for termination as aforementioned, or upon its own initiative, the Purchaser shall, within a period of seven (7) calendar days, verify the existence of such ground(s) and cause the execution of a Verified Report, with all relevant evidence attached;
 - (b) Upon recommendation by the Purchaser, the Head of the Purchaser shall terminate this Contract only by a written notice to the Supplier conveying the termination of this Contract. The notice shall state:
 - i. that this Contract is being terminated for any of the ground(s) afore-mentioned, and a statement of the acts that constitute the ground(s) constituting the same;
 - ii. the extent of termination, whether in whole or in part;
 - iii. an instruction to the Supplier to show cause as to why this Contract should not be terminated; and
 - iv. special instructions of the Purchaser, if any.
 - (c) The Notice to Terminate shall be accompanied by a copy of the Verified Report;
 - (d) Within a period of seven (7) calendar days from receipt of the Notice of Termination, the Supplier shall submit to the Head of the Purchaser a verified position paper stating why this Contract should not be terminated. If the Supplier fails to show cause after the lapse of the seven (7) day period, either by inaction or by default, the Head of the Purchaser shall issue an order terminating this Contract;
 - (e) The Purchaser may, at any time before receipt of the Supplier's verified position paper, withdraw the Notice to Terminate if it is determined that certain items or works subject of the notice had been completed, delivered, or performed before the Supplier's receipt of the notice;
 - (f) Within a non-extendible period of ten (10) calendar days from receipt of the verified position paper, the Head of the Purchaser shall decide whether or not to terminate this Contract. It shall serve a written notice to the Supplier of its decision and, unless otherwise provided, this Contract is deemed terminated from receipt of the Supplier of the notice of decision. The termination shall only be based on the ground(s) stated in the Notice to Terminate; and

- (g) The Head of the Purchaser may create a Contract Termination Review Committee (CTRC) to assist him in the discharge of this function. All decisions recommended by the CTRC shall be subject to the approval of the Head of the Purchaser.

**46. Contract
Amendment**

- 46.1 Subject to applicable laws, no variation in or modification of the terms of this Contract shall be made except by written amendment signed by the parties.
- 46.2 The Purchaser, in accordance with their Delegation of Financial Powers, as required, may amend the Contract to reflect the changes introduced to the Original terms and Conditions of the Contract.

**47. Settlement of
Disputes**

47.1 **Amicable Settlement:**

- (a) The Purchaser and the Supplier shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.

47.2 **Adjudication**

- (a) If the Supplier /Purchaser believe that amicable settlement of dispute is not possible between the two parties, the dispute shall be referred to the Adjudicator within fourteen (14) days of first written correspondence on the matter of disagreement;
- (b) The Adjudicator named in the PCC is jointly appointed by the parties. In case of disagreement between the parties, the Appointing Authority designated in the PCC shall appoint the Adjudicator within fourteen (14) days of receipt of a request from either party;
- (c) The Adjudicator shall give its decision in writing to both parties within twenty-eight (28) days of a dispute being referred to it;
- (d) The supplier shall make all payments (fees and reimbursable expenses) to the Adjudicator, and the Purchaser shall reimburse half of these fees through the regular progress payments;
- (e) Should the Adjudicator resign or die, or should the Purchaser and the Supplier agree that the Adjudicator is not functioning in accordance with the provisions of the Contract; a new Adjudicator will be jointly appointed by the Purchaser and the Supplier. In case of disagreement between the Purchaser and the Supplier the Adjudicator shall be designated by the Appointing Authority designated in the PCC at the request of either party, within fourteen (14) days of receipt of a request from either party.

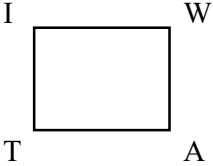
47.3 **Arbitration**

- (a) If the Parties are unable to reach a settlement under GCC Clause 47.1(a) within twenty-eight (28) days of the first written correspondence on the matter of disagreement, then either Party may give notice to the other party of its intention to commence arbitration in accordance with GCC Sub-Clause 47.3(b);
- (b) The arbitration shall be conducted in accordance with the rules of procedure specified in the PCC.

Section 4. Particular Conditions of Contract

Instructions for completing the Particular Conditions of Contract are provided, as needed, in the notes in italics mentioned for the relevant GCC clauses.

GCC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
GCC 1.1(j)	The Purchaser is Chairman, BIWTA, BIWTA Bhaban (Level-6), 141-143 Motijheel C/A, Dhaka-1000, Bangladesh
GCC 1.1(o)	The site(s)/ point(s) of delivery is/are: Dredger Base, BIWTA, Narayanganj, Bangladesh.
GCC 5.1(i)	The following documents shall also be part of the Contract: 1. Tender Submission Letter 2. Copy of Bank Guarantee for Performance Security
GCC 11.1	<p>For <u>notices</u>, the Purchaser's contact details shall be: Attention: Chief Engineer (Dredging) and Project Director Address: Dredging Department, BIWTA Bhaban (level-7), 141-143, Motijheel C/A, Dhaka-1000, Bangladesh. Telephone: +88-02-9552127 Facsimile number: +88-02-9551072, +88-02-9552127 Electronic mail address: mamatin77@gmail.com</p> <p>For <u>notices</u>, the Supplier's contact details shall be: Attention: Address: Telephone: Facsimile number: Electronic mail address:</p>

<p>GCC 18.1</p>	<p>The scope of Supply shall be defined in:</p> <table border="1"> <thead> <tr> <th>Item No.</th> <th>Description of Item</th> <th>Unit of Supply</th> <th>Qty.</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Pontoon Mounted Grab Dredger</td> <td>No.</td> <td>01</td> </tr> <tr> <td>2.</td> <td>Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge</td> <td>No.</td> <td>01</td> </tr> <tr> <td>3.</td> <td>Self-propelled Dredge material carrying barge</td> <td>No.</td> <td>01</td> </tr> <tr> <td>4.</td> <td>Spare parts for Grab Dredger</td> <td>L.S</td> <td>-</td> </tr> </tbody> </table>	Item No.	Description of Item	Unit of Supply	Qty.	1.	Pontoon Mounted Grab Dredger	No.	01	2.	Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge	No.	01	3.	Self-propelled Dredge material carrying barge	No.	01	4.	Spare parts for Grab Dredger	L.S	-
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3.	Self-propelled Dredge material carrying barge	No.	01																		
4.	Spare parts for Grab Dredger	L.S	-																		
<p>GCC 22.2</p>	<p>The packing, marking and documentation within and outside the packages shall be:</p> <p>A packing list indicating the content of each package, shall be enclosed in a water proof envelope and shall be secured to the outside of the packing case. All materials used for packing shall be environmentally neutral.</p> <p>In addition, each package shall be clearly marked with indelible ink/paint in bold letters on four sides, with the following:</p> <div style="text-align: center;">  </div> <p>The outer packing may be clearly marked on at least four slides as follows:</p> <ol style="list-style-type: none"> (a) Name and address of the Purchaser; (b) Name of the Supplier; (c) Contract Description; (d) Final Destination/Delivery Point; (e) Gross weight; (f) Package number of total number of packages; (g) Brief description of the content; (h) Special lifting instructions, if any. (i) Special handling instructions, if any. 																				

<p>GCC 23.2</p>	<p>Details of shipping and documents to be furnished by the Supplier shall be:</p> <p><u>“For Goods supplied from abroad as per INCOTERM CIF or CIP:</u></p> <p>Upon shipment, the Supplier shall notify the Purchaser and the Insurance Company by telex or fax the full details of the shipment, including Contract number, description of Goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge etc. The Supplier shall send the following documents to the Purchaser, with a copy to the Insurance Company:</p> <ul style="list-style-type: none"> (a) 6 (six) copies of the Supplier’s invoice showing the description of the Goods, quantity, unit price, and total amount (including freight and insurance); (b) original and 6 (six) copies of the negotiable, clean, on-board bill of lading marked “freight prepaid” and 6 (six) copies of non-negotiable bill of lading; (c) 6 (six) copies of the packing list identifying contents of each package; (d) Insurance certificate-- 3 copies; (e) Manufacturer’s or Supplier’s warranty certificate-3 copies; (f) inspection certificate, issued by the nominated inspection agency, and the Supplier’s factory inspection report (if applicable)-3 copies; (g) Certificate of origin-6 copies. (h) Operation, Maintenance Manual & Parts Catalogue of dredgers, Barges, installed engines, generators, grab crane & hydraulic system - 4 copies. (i) As built drawings mentioned in the technical specification of dredger and barges – 4 copies. <p>The Purchaser shall receive the above documents at least one week before arrival of the goods at the port or place of arrival and, if not received, the Supplier will be responsible for any consequent expenses.</p>
	<p><u>For Goods from within the Purchaser’s country as per INCOTERM EXW:</u></p> <p>Upon delivery of the Goods to the transporter, the Supplier shall notify the Purchaser and send the following documents to the Purchaser:</p> <ul style="list-style-type: none"> (a) 6 (six) copies of the Supplier’s invoice showing the description of the Goods, quantity, unit price, and total amount; (b) Delivery note, railway receipt, or truck receipt- 3 copies; (c) Manufacturer’s or Supplier’s warranty certificate- 3 copies; and (d) Certificate of origin- 6 copies. <p>The Purchaser, shall receive the above documents before the arrival of the Goods at the place of destination and, if not received, the Supplier shall be responsible for any consequent expenses.</p>
<p>GCC 25.1</p>	<p>The Contract price is: -----</p>

GCC 26.2	Responsibility of the Purchaser and Supplier is: As stated in GCC clause 26.1
GCC 27.1	The method and conditions of payment to be made to the Supplier under this.
	<p>Contract shall be as follows:</p> <p>Payment for Goods supplied from abroad:</p> <p>(a) Payment shall be made through an irrevocable confirmed letter of credit opened in favour of the Supplier or authorized representatives of supplier's in a scheduled bank of Bangladesh.</p> <p>(b) Payment of local currency portion shall be made in <i>Bangladeshi Taka (BDT)</i>.</p> <p>(c) Payment of foreign currency portion shall be made in contracted currency.</p> <p>(d) The payment shall be in the following manner:</p> <p><u>(i) For Pontoon Mounted Grab Dredger:</u></p> <p>1st Stage : 10 (ten) percent of the Contract Price of the goods shall be paid within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards approval of drawing, preparation & laying of keel of dredger which shall be supported by inspection certificates issued by the Classification Society and upon submission of claim along with a bank guarantee for equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination and in the form provided in the Tender Document (PG4-10).</p> <p>2nd Stage 20 (twenty) percent of the Contract Price of the goods shall be paid within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards completion of main hull of dredger at the factory of manufacturer's yard (s) which shall be supported by inspection certificates issued by BIWTA's 02 (Two) Technical Personnel who will be deputed to the manufacturer's yard along with inspection certificates issued by Classification Society and one representative of Consultants and upon submission of Bank Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination.</p> <p>3rd Stage 20 (twenty) percent of the Contract Price of the goods shall be paid within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards inspection of engine and generator at the factory of manufacturer's yard (s) which shall be supported by inspection certificates issued by the Purchaser's representative (s) and upon submission of Bank Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination.</p>

	<p>4th Stage : 20 (twenty) percent of the Contract Price of the goods shall be paid within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards inspection of Grab Crane and winch at the factory of manufacturer's yard (s) which shall be supported by inspection certificates issued by the Purchaser's representative (s) and upon submission of Bank Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination.</p> <p>5th Stage : 20 (twenty) percent of the Contract Price of the goods shall be paid within 30 (thirty) days upon presentation of Supplier's invoice, Test & Trial Certificates of Dredger which shall be supported by inspection certificates issued by the Purchaser's representative (s), Classification Society as well as Consultants and other documents as specified in PCC against the Clauses GCC 32.1. The Test & Trial shall be inspected by a team consisting of 4 (four) persons including representative of consultants having at least 3 (three) technical personnel of the Purchaser and/or its representative (s) at the manufacturer's yard (s). The total period of inspection at each stage shall be minimum 7 (seven) days excluding traveling & transit time. All expenses for these inspections & training including travel, food, boarding etc. shall be borne by the Supplier. A Bank Guarantee of equivalent amount shall be submitted which must be valid until the Goods are delivered to the Final Destination. All cost for test & trial shall be borne by the supplier.</p> <p>6th Stage : 10 (ten) percent of the Contract Price of the goods shall be paid within 30 (thirty) days of issuance of Final Acceptance Certificate issued by the Purchaser's representative (s), Classification Society as well as Consultants upon presentation of Supplier's invoice and on submission of certificates/documents as per Clause GCC 23.2 of PCC.</p> <p>All the above Bank Guarantees shall be issued from a scheduled bank of Bangladesh or from any foreign bank duly endorsed by any schedule bank of Bangladesh.</p> <p>Charges for the establishment or amendment of letter of credit shall be borne by the Purchaser. However, if amendment is made at the specific request of the supplier, charges for such amendment of the letter of credit shall be borne by the supplier.</p> <p><u>(ii) For Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge and Self-Propelled Dredge Material Carrying Barge:</u></p> <p>1st Stage : 10 (ten) percent of the Contract Price of the goods shall be paid (applicable for each barge) within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards approval of drawing, preparation & laying of keel of above vessels which shall be supported by inspection certificates issued by the Classification Society and upon submission of claim along with a bank guarantee for equivalent amount. The bank guarantee shall be valid until the</p>
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	<p>goods are delivered to the Final Destination in the form mentioned in the Tender Document (PG4-10).</p> <p>2nd Stage 20 (twenty) percent of the Contract Price of the goods shall be paid (applicable for each barge) within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards completion of main hull of above vessels at the factory of manufacturer's yard (s) which shall be supported by inspection certificates issued by Purchaser's representative (s), Classification Society as well as Consultants and upon submission of Bank Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination.</p> <p>3rd Stage : 20 (twenty) percent of the Contract Price of the goods shall be paid (applicable for each barge) within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards inspection of engine and generator of above vessels at the factory of manufacturer's yard (s) which shall be supported by inspection certificates issued by the Purchaser's representative (s) and upon submission of Bank Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination.</p> <p>4th Stage : 40 (forty) percent of the Contract Price of the goods shall be paid (applicable for each barge) within 30 (thirty) days upon presentation of Supplier's invoice, Test & Trial Certificates which shall be supported by inspection certificates issued by the Purchaser's representative (s), Classification Society as well as Consultants and other documents as specified in PCC against the Clauses GCC 32.1. The Test & Trial shall be inspected by a team consisting of 4 (four) persons including representative of consultants having at least 3 (Three) technical personnel of the Purchaser and/or its representative (s) at the manufacturer's yard (s). The total period of inspection for this stage shall be minimum 7 (seven) days excluding traveling & transit time. All expenses for these inspections & training including travel, food, boarding etc. shall be borne by the Supplier. A Bank Guarantee of equivalent amount shall be submitted which must be valid until the Goods are delivered to the Final Destination. All cost for test & trial shall be borne by the supplier.</p> <p>5th Stage : 10 (ten) percent of the Contract Price of the goods shall be paid (applicable for each barge) within 30 (thirty) days of issuance of Final Acceptance Certificate issued by the Purchaser's representative (s), Classification Society as well as Consultants, upon presentation of Supplier's invoice and on submission of certificates/documents as per Clause GCC 23.2 of PCC.</p>
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All the above Bank Guarantees shall be issued from a scheduled bank of Bangladesh or from any foreign bank duly endorsed by any schedule bank of Bangladesh.

Charges for the establishment or amendment of letter of credit shall be borne by the Purchaser. However, if amendment is made at the specific request of the supplier, charges for such amendment of the letter of credit shall be borne by the supplier.

(iii) Spare parts for Grab Dredger:

100 (one hundred) percent of the Contract Price of the goods shall be paid within 30 (thirty) days of issuance of Final Acceptance Certificate issued by the Purchaser's representative (s) upon presentation of Supplier's invoice and on submission of certificates/documents as per Clause GCC 23.2

(iv) For classification Society:

Payment of classification society shall be made at the following stages:

a) For Dredger:

1st Stage : 10 (Ten) percent of the Contract Price of inspection shall be paid within 30 (thirty) days towards approval of related drawings & keel Laying of dredger which shall be supported by drawings & Inspection Certificates issued by the classification society.

2nd Stage : 20 (twenty) percent of the Contract Price of inspection shall be paid within 30 (thirty) days upon submission of hull related approved basic drawings and completion of main hull of dredger which shall be supported by inspection certificates issued by the classification society.

3rd Stage : 20 (twenty) percent of the Contract Price of inspection shall be paid within 30 (thirty) days on Placement of Engine, generator and winch at maker's premises of dredger which shall be supported by class certificates issued by the classification society.

4th Stage : 20 (Twenty) percent of the Contract Price of shall be paid within 30 (thirty) days upon submission of superstructure, piping, electrical & outfitting related approved basic drawings and installation of Engine, generator, Grab crane, winch on Board of dredger which shall be supported by inspection certificates issued by the classification society.

5th Stage : 20 (twenty) percent of the Contract Price of inspection shall be paid within 30 (thirty) days of successful completion of Test trail of dredger which shall be supported by inspection certificates issued by the classification society.

6th Stage : 10 (Ten) percent of the Contract Price of inspection shall be paid within 30 (thirty) days upon issuance of as built all approved drawings, completion of specification survey and issuance of Final Acceptance Certificate along with issuance of final class certificate issued by the classification society.

b) For Self-Propelled Barges:

- 1st Stage** : 10 (Ten) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days towards approval of related drawings & keel Laying which shall be supported by drawings & Inspection Certificates issued by the classification society.
- 2nd Stage** : 20 (twenty) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days upon submission of hull related approved basic drawings and completion of main hull which shall be supported by inspection certificates issued by the classification society.
- 3rd Stage** : 20 (twenty) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days upon submission of superstructure, piping, electrical & outfitting related approved basic drawings and Placement of Engine and generator at maker's premises which shall be supported by class certificates issued by the classification society.
- 4th Stage** : 20 (Twenty) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days on installation of Engine, generator & other equipment on Board which shall be supported by inspection certificates issued by the classification society.
- 5th Stage** : 20 (twenty) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days of successful completion of Test trail which shall be supported by inspection certificates issued by the classification society.
- 6th Stage** : 10 (Ten) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days upon issuance of as built all approved drawings, completion of specification survey and issuance of Final Acceptance Certificate along with issuance of final class certificate issued by the classification society.

c) For Spare parts of Grab Dredger:

100 (One Hundred) percent of the Contract Price of Spare parts of Grab Dredger shall be paid upon completion of specification survey and issuance of specification survey certificate issued by the classification society.

Payment for Goods manufactured in Bangladesh:

(a) Payment shall be made through an irrevocable confirmed letter of credit opened in favour of the Supplier or authorized representatives of supplier's in a scheduled bank of Bangladesh.

(b) Payment of local currency portion shall be made in ***Bangladesh Taka (BDT)***.

(c) Payment of foreign currency portion shall be made in contracted currency.

(d) The payment shall be in the following manner:

(i) For Pontoon Mounted Grab Dredger:

1st Stage : 10 (ten) percent of the Contract Price of the goods shall be paid within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards approval of drawing, preparation & laying of keel of dredger which shall be supported by inspection certificates issued by the Purchaser's representative (s), Classification Society as well as Consultants and upon submission of claim along with a bank guarantee for equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination and in the form provided in the Tender Document (PG4-10).

2nd Stage 20 (twenty) percent of the Contract Price of the goods shall be paid within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards completion of main hull of dredger at the factory of manufacturer's yard (s) which shall be supported by inspection certificates issued by the Purchaser's representative (s), Classification Society as well as Consultants and upon submission of Bank Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination.

3rd Stage 20 (twenty) percent of the Contract Price of the goods shall be paid within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards inspection of engine and generator at the factory of manufacturer's yard (s) which shall be supported by inspection certificates issued by the Purchaser's representative (s) and upon submission of Bank Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination.

4th Stage : 20 (twenty) percent of the Contract Price of the goods shall be paid within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards inspection of Grab Crane and winch at the factory of manufacturer's yard (s) which shall be supported by inspection certificates issued by the Purchaser's representative (s) and upon submission of Bank

	<p>Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination.</p> <p>5th Stage : 20 (twenty) percent of the Contract Price of the goods shall be paid within 30 (thirty) days upon presentation of Supplier's invoice, Test & Trial Certificates of Dredger which shall be supported by inspection certificates issued by the Purchaser's representative (s), Classification Society as well as Consultants and other documents as specified in PCC against the Clauses GCC 32.1 and upon submission of Bank Guarantee for an equivalent amount valid until the Goods are delivered to the Final Destination. All cost for test & trial shall be borne by the supplier.</p> <p>6th Stage : 10 (ten) percent of the Contract Price of the goods shall be paid within 30 (thirty) days of issuance of Final Acceptance Certificate issued by the Purchaser's representative (s), Classification Society as well as Consultants upon presentation of Supplier's invoice and on submission of certificates/documents as per Clause GCC 23.2 of PCC.</p> <p>All the above Bank Guarantees shall be issued from a scheduled bank of Bangladesh or from any foreign bank duly endorsed by any schedule bank of Bangladesh.</p> <p>Charges for the establishment or amendment of letter of credit shall be borne by the Purchaser. However, if amendment is made at the specific request of the supplier, charges for such amendment of the letter of credit shall be borne by the supplier.</p> <p><u>(ii) For Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge and Self-Propelled Dredge Material Carrying Barge:</u></p> <p>1st Stage : 10 (ten) percent of the Contract Price of the goods shall be paid (applicable for each barge) within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards approval of drawing, preparation & laying of keel of above vessels which shall be supported by inspection certificates issued by the Purchaser's representative (s), Classification Society as well as Consultants, and upon submission of claim along with a bank guarantee for equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination and in the form provided in the Tender Document (PG4-10).</p> <p>2nd Stage : 20 (twenty) percent of the Contract Price of the goods shall be paid (applicable for each barge) within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 on completion of main hull of above vessels at the factory of manufacturer's yard (s) which shall be supported by inspection certificates issued by the Purchaser's representative (s) Classification Society as well as Consultants, and upon submission of Bank Guarantee for an</p>
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	<p>equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination.</p> <p>3rd Stage : 20 (twenty) percent of the Contract Price of the goods shall be paid (applicable for each barge) within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards inspection of engine and generator of above vessels at the factory of manufacturer yard (s) before shipment which shall be supported by inspection certificates issued by the Purchaser's representative (s), and upon submission of Bank Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination.</p> <p>4th Stage : 40 (Forty) percent of the Contract Price of the goods shall be paid (applicable for each barge) within 30 (thirty) days upon presentation of Supplier's invoice towards completion of installation of engines and other accessories and test-trial certificates of above vessels which shall be supported by inspection certificates issued by the Purchaser's representative (s), Classification Society as well as Consultants and other documents as specified in PCC against the Clauses GCC 32.1 and upon submission of Bank Guarantee for an equivalent amount valid until the Goods are delivered to the Final Destination.</p> <p>5th Stage : 10 (ten) percent of the Contract Price of the goods be paid (applicable for each barge) within 30 (thirty) days of issuance of Final Acceptance Certificate issued by the Purchaser's representative (s), Classification Society as well as Consultants, upon presentation of Supplier's invoice and on submission of certificates/documents as per Clause GCC 23.2.</p> <p>All the above Bank Guarantees shall be issued from a scheduled bank of Bangladesh or from any foreign bank duly endorsed by any schedule bank of Bangladesh.</p> <p>Charges for the establishment or amendment of letter of credit shall be borne by the Purchaser. However, if amendment is made at the specific request of the supplier, charges for such amendment of the letter of credit shall be borne by the supplier.</p> <p><u>(iii) Spare parts for Grab Dredger:</u></p> <p>100 (one hundred) percent of the Contract Price of the goods shall be paid within 30 (thirty) days of issuance of Final Acceptance Certificate issued by the Purchaser's representative (s) upon presentation of Supplier's invoice and on submission of certificates/documents as per Clause GCC 23.2</p> <p>(iv) For classification Society: Payment of classification society shall be made at the following stages:</p> <p>a) For Dredger:</p> <p>1st Stage : 10 (Ten) percent of the Contract Price of inspection shall be paid within 30 (thirty) days towards approval of related drawings & keel Laying of dredger which shall be supported by drawings & Inspection Certificates issued by the classification society.</p>
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	<p>2nd Stage : 20 (twenty) percent of the Contract Price of inspection shall be paid within 30 (thirty) days upon submission of hull related approved basic drawings and completion of main hull of dredger which shall be supported by inspection certificates issued by the classification society.</p> <p>3rd Stage : 20 (twenty) percent of the Contract Price of inspection shall be paid within 30 (thirty) days on Placement of Engine, generator and winch at maker's premises of dredger which shall be supported by class certificates issued by the classification society.</p> <p>4th Stage : 20 (Twenty) percent of the Contract Price of shall be paid within 30 (thirty) days upon submission of superstructure, piping, electrical & outfitting related approved basic drawings and installation of Engine, generator, Grab crane, winch on Board of dredger which shall be supported by inspection certificates issued by the classification society.</p> <p>5th Stage : 20 (twenty) percent of the Contract Price of inspection shall be paid within 30 (thirty) days of successful completion of Test trail of dredger which shall be supported by inspection certificates issued by the classification society.</p> <p>6th Stage : 10 (Ten) percent of the Contract Price of inspection shall be paid within 30 (thirty) days upon issuance of as built all approved drawings, completion of specification survey, issuance of Final Acceptance Certificate along with issuance of final class certificate issued by the classification society.</p> <p>b) For Self-Propelled Barges:</p> <p>1st Stage : 10 (Ten) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days towards approval of related drawings & keel Laying which shall be supported by drawings & Inspection Certificates issued by the classification society.</p> <p>2nd Stage : 20 (twenty) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days upon submission of hull related approved basic drawings and completion of main hull which shall be supported by inspection certificates issued by the classification society.</p> <p>3rd Stage : 20 (twenty) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days upon submission of superstructure, piping, electrical & outfitting related approved basic drawings and Placement of Engine and generator at maker's premises which shall be supported by class certificates issued by the classification society.</p>
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	<p>4th Stage : 20 (Twenty) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days on installation of Engine, generator & other equipment on Board which shall be supported by inspection certificates issued by the classification society.</p> <p>5th Stage : 20 (twenty) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days of successful completion of Test trail which shall be supported by inspection certificates issued by the classification society.</p> <p>6th Stage : 10 (Ten) percent of the Contract Price of inspection (applicable for each barge) shall be paid within 30 (thirty) days upon issuance of as built all approved drawings, completion of specification survey and issuance of Final Acceptance Certificate along with issuance of final class certificate issued by the classification society.</p> <p>c) For Spare parts of Grab Dredger:</p> <p>100 (One Hundred) percent of the Contract Price of Spare parts of Grab Dredger shall be paid upon completion of specification survey and issuance of specification survey certificate issued by the classification society.</p>
GCC 27.3	<p>Payments shall be made in no case later than the 45 (forty-five) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.</p>
GCC 27.5	<p>The payment-delay period after which the Purchaser shall pay interest to the supplier shall be [-----] days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.</p> <p>The interest rate that shall be applied is 0% percent.</p> <p>Not Applicable</p>
GCC 28.2	<p>The insurance coverage shall be: The insurance shall be in an amount equal to 110% percent of the CIP value of the goods from “Warehouse” to “Warehouse” on “All Risks” basis, including war risk and strikes.</p>

GCC 32.1

The inspections and tests shall be:

For Goods manufactured in abroad:

a) For the Pontoon Mounted Grab Dredger complete:

The construction work shall be inspected in the following manner :

1st Stage Inspection	:	The Pre-Shipment Inspection of engine and generator at the factory of manufacturer's yard (s); This stage shall be inspected by a team consisting of 4 (four) persons having at least 3 (three) technical personnel of the Purchaser and/or its representative (s).
2nd Stage Inspection	:	The Pre-Shipment Inspection of Grab crane and winch at the factory of manufacturer's yard (s); This stage shall be inspected by a team consisting of 4 (four) persons having at least 3 (three) technical personnel of the Purchaser and/or its representative (s).

The total period of inspection at each stage shall be minimum 5 (Five) days excluding traveling & transit time. All expenses for these inspections & training including travel, food, boarding etc. shall be borne by the Supplier.

Other than the above inspections, the purchaser shall depute 02(two) technical personnel at the manufacturer's yard (s) for 01(one) month to supervise the construction work on following stages:

- (a) Before completion of Main hull of dredger.**
- (b) Installation of Grab crane.**
- (c) During test & trials.**

All expenses for these inspections including travel, food, boarding, etc. shall be borne by the Supplier.

b) For the Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge and Self-Propelled Dredge Material carrying barge complete:

In addition to the inspections by the Class and consultants all the following stages shall be inspected by a team consisting of 4 (four) persons having at least 3 (three) technical personnel of the Purchaser and/or its representative (s) to the manufacturer's yard (s) or supplier's premises at the following stages:

1st Stage Inspection	:	On completion of main hull of above vessels at the manufacturer's yard (s).
2nd stage inspection	:	The Pre-Shipment Inspection of engine and generator for above vessels at the factory of manufacturer's yard (s).

	<p>The total period of inspection at each stage shall be minimum 5 (Five) days excluding traveling & transit time. All incidental expenses for these inspections & training including travel, food, boarding etc. shall be borne by the Supplier.</p> <p>iii) For Spare Parts of Grab Dredger:</p> <p>After 100% delivery of the above items shall be inspected by a team consisting of 5 Officials of the Purchaser and/or its representative(s) to the Khanpur Store, Narayanganj, Bangladesh.</p>
	<p><u>For Goods manufactured in Bangladesh</u></p> <p>a) Foreign Inspection</p> <p>i) For Engine, Generator of Pontoon Mounted Grab Dredger:</p> <p>In addition to the inspections by the Class, Pre-shipment Inspection (PSI) / Factory Acceptance Test (FAT) is mandatory as desired by the procuring Entity and will be conducted by 4 (four) personnel having at least 3 (three) technical personnel to be nominated by Purchaser for a period at least 5 (Five) days excluding the travel period at the cost of supplier at the manufacturer’s yard(s) before shipment. All expenses for these inspections including travel, food, boarding etc. shall be borne by the supplier following latest government order regarding foreign travel allowances.</p> <p>The Purchaser’s right to inspect, test and where appropriate reject the goods after delivery, shall in no way be limited or waived by the reason of goods having previously been inspected, tested or passed by the Purchaser or its representative prior the goods shipment.</p> <p>ii) For Grab Crane, winch of Pontoon Mounted Grab Dredger:</p> <p>In addition to the inspections by the Class, Pre-shipment Inspection (PSI) / Factory Acceptance Test (FAT) is mandatory as desired by the procuring Entity and will be conducted by 4 (four) personnel having at least 3 (three) technical personnel to be nominated by Purchaser for a period at least 5 (Five) days excluding the travel period at the cost of supplier at the manufacturer’s yard (s) before shipment. All expenses for these inspections including travel, food, boarding etc. shall be borne by the supplier following latest government order regarding foreign travel allowances.</p> <p>The Purchaser’s right to inspect, test and where appropriate reject the goods after delivery, shall in no way be limited or waived by the reason of goods having previously been inspected, tested or passed by the Purchaser or its representative prior the goods shipment.</p> <p>(iii) For Engine, Generator of Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge and Self-Propelled Dredge-Material Carrying Barge:</p> <p>In addition to the inspections by the Class, Pre-shipment Inspection (PSI) / Factory Acceptance Test (FAT) is mandatory as desired by the procuring Entity and will be conducted by 4 (four) personnel having at least 3 (three) technical personnel to be</p>

nominated by Purchaser for a period at least 5 (Five) days excluding the travel period at the cost of supplier at the manufacturer's yard (s) of engine, generator before shipment. All expenses for these inspections including travel, food, boarding etc. shall be borne by the supplier following latest government order regarding foreign travel allowances.

The Purchaser's right to inspect, test and where appropriate reject the goods after delivery, shall in no way be limited or waived by the reason of goods having previously been inspected, tested or passed by the Purchaser or its representative prior the goods shipment.

b) Local Inspection and conducting Test-Trials:

(i) For Pontoon Mounted Grab Dredger:

During manufacturing of dredger, in addition to the inspections by the Classification Society and Consultant, the dredgers shall be inspected by a team consisting of 5 officials of the Purchaser and/or its representative(s) to the supplier's premises in the following stages:

1st Stage Inspection	:	Preparation & laying of keel.
2nd Stage Inspection	:	On completion of main hull (before cleaning & painting) of the dredger.
3rd Stage Inspection	:	Placement of engine and generator on board the dredger.
4th Stage Inspection	:	Placement of Grab Crane and winch on board the dredger.
5th Stage Inspection	:	Conduction of test & trials of all machinery and test of dredging works performance of dredger in the Suppliers' premises.

Other than the above local inspections, the representative (s) of the purchaser may inspect the construction work at any time. Moreover, the purchaser shall depute consultants and any other technical personnel to supervise the construction work.

(ii) For Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge and Self-Propelled Dredge-Material Carrying Barge:

During manufacturing of Barge, in addition to the inspections by the Classification Society and Consultant, the Barge shall be inspected by a team consisting of 5 officials of the Purchaser and/or its representative(s) to the supplier's premises in the following stages:

1st Stage Inspection	:	Preparation & laying of keel.
2nd Stage Inspection	:	On completion of hull of above vessels at the manufacturer's yard (s).
3rd stage inspection	:	The Installation of engine and generator of above vessels at the factory of manufacturer's yard (s).

	<p>4th stage inspection : Conduction of test & trials of above vessels at the factory of manufacturer yard (s). All cost for test & trial shall be borne by the supplier.</p>
	<p>Other than the above local inspections, the representative (s) of the purchaser may inspect the construction work at any time. Moreover, the purchaser shall depute consultants and any other technical personnel to supervise the construction work.</p> <p>iii) For Spare Parts of Grab Dredger: After 100% delivery of the above items shall be inspected by a team consisting of 5 Officials of the Purchaser and/or its representative(s) to the Khanpur Store, Narayanganj, Bangladesh.</p>
<p>GCC 33.3</p>	<p>The period of validity of the Warranty shall be: 365 (three hundred sixty-five) days from date of acceptance of the Goods.</p> <p>For purpose of the Warranty, the place(s) of final destination(s) shall be: Dredger Base, BIWTA, Narayanganj, Bangladesh.</p>
<p>GCC 33.6</p>	<p>The Supplier shall correct any defects covered by the Warranty within 28(twenty-eight) days of being notified by the Purchaser of the occurrence of such defects.</p>
<p>GCC 35.1</p>	<p>a) With respect to delay in delivery: The applicable rate for liquidated damages for delay shall be 0.50% (one half of one) of the contract price of the delayed Goods for each week or part thereof of delay until actual delivery.</p> <p><u>b) With respect to technical aspect:</u></p> <p>i) Pontoon Mounted Grab Dredger</p> <p>Draft: In case the dredger draft is in excess of max 2.30m in fully loaded condition, the supplier shall pay liquidated damages to the purchaser at 0.5% for 0.50 centimeter up to a maximum limit of 10% of contract price of dredger.</p> <p>ii) Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge</p> <p>Draft: In case the barge draft is in excess of max 3.30m in fully loaded condition, the supplier shall pay liquidated damages to the purchaser at 0.5% for 0.50 centimeter up to a maximum limit of 10% of contract price of dredger.</p> <p>Speed: In case of failure to achieve the hopper Barge speed of 10.00 knots at maximum continuous power rating (MCR) in fully loaded condition at 3.30m draft, the supplier shall pay liquidated damages to the purchaser at 1% for 0.05 knot reduction up to a maximum limit of 10% of contract price of Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge.</p> <p>iii) Self-Propelled Dredge-Material Carrying Barge</p> <p>Draft: In case the barge draft is in excess of max 3.00m in fully loaded condition, the supplier shall pay liquidated damages to the purchaser at 0.5% for 0.50 centimeter up to a maximum limit of 10% of contract price of dredger.</p>

	<p>Speed: In case of failure to achieve the Barge speed of 10.00 knots at maximum continuous power rating (MCR) in fully loaded condition at 3.00m draft, the supplier shall pay liquidated damages to the purchaser at 1% for 0.05 knot reduction upto a maximum limit of 10% of contract price of Self-Propelled Dredge-Material Carrying Barge.</p>
GCC 47.2(b)	The Adjudicator jointly Appointed by the parties during contract signing.
GCC 47.3(b)	<p>The rules of procedure for arbitration proceedings shall be as follows:</p> <p>(i) Contract with foreign Supplier:</p> <p>Any dispute, controversy or claim arising out of or relating to this Contract, or breach, termination or invalidity thereof, shall be settled by arbitration in accordance with the UNCITRAL Arbitration Rules as at present in force.</p> <p style="text-align: center;">OR</p> <p>All disputes arising in connection with the present Contract shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with said Rules.</p> <p>(ii) Contracts with Supplier national of the Purchaser's country:</p> <p>In the case of a dispute between the Purchaser and a Supplier who is a national of the Bangladesh, the dispute shall be referred to adjudication or arbitration in accordance with the laws of the Bangladesh i.e Arbitration Act (Act No 1 of 2001) of Bangladesh as at present in force.</p>

Section 5. Tender and Contract Forms

Form	Title
Tender Forms	
PG4 – 1	Tender Submission Letter
PG4 – 2	Tenderer Information Sheet
PG4 – 2A	Subcontractor Information
PG4 – 3A,3B & 3C	Price Schedule for Goods
PG4 – 3D	Price Schedule for Related Services
PG4 – 4	Specifications Submission and Compliance Sheet
PG4 – 5	Manufacturer’s Authorisation Letter
PG4 – 6	Bank Guarantee for Tender Security
PG4 – 6A	Bank’s Commitment for Line of Credit (<i>when this option is chosen</i>)
Contract Forms	
PG4 – 7	Notification of Award
PG4 – 8	Contract Agreement
PG4 – 9	Bank Guarantee for Performance Security
PG4 – 10	Bank Guarantee for Advance Payment

Forms PG4-1 to PG4-6 comprises part of the Tender and should be completed as stated in ITT Clause 21.

Forms PG4-7 to PG4-10 comprises part of the Contract as stated in GCC Clause 5.

Tender Submission Letter (Form PG4 – 1)

*[This letter shall be completed and signed by the Authorized Signatory
on the Letter-Head pad of the Tenderer]*

To: <i>[Contact Person]</i> <i>[Name of Purchaser]</i> <i>[Address of Purchaser]</i>	Date:
Invitation for Tender No:	<i>[indicate IFT No]</i>
Tender Package No:	<i>[indicate Package No]</i>
Lot No:	<i>[indicate number of Lots]</i>

We, the undersigned, offer to supply in conformity with the Tender Document the following Goods and related Services:

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In accordance with ITT Clauses 23 and 24, the following prices and discounts apply to our Tender:

The Tender Price is: (ITT Sub-Clause 23.1)	a. BDT <i>[state amount in figures]</i> <i>[state amount in words]</i>
	b. Other Currency(s) <i>[state amount in figures]</i> <i>[state amount in words]</i> <i>as stated in the TDS Sub-Clause 24.3</i>
In Accordance with ITT sub clause 23.9 (a) and 23.9 (b) the unconditional discount offered by us is: (This discount shall be applicable on all the items of Price Schedule after Arithmetical Correction)	_____ <i>[Percentage in figures and words]</i>
The advance payment (when applicable) is: <i>[insert the percentage of the Contract Price]</i> (GCC Sub-Clause 27.1)	_____ <i>[Percentage in figures and words]</i>
and we shall accordingly submit an Advance Payment Guarantee in the format shown in Form PG4-10 .	
Mandatory Spare Parts Price (When Economic Factor applicable) is: (ITT Sub-Clause 52.2 (f) & 52.5 (b))	BDT _____ <i>[in figures]</i>
	BDT _____

	<i>[in words]</i>
and we shall accordingly submit an Advance Payment Guarantee in the format shown in Form PG4 - 10.	

In signing this letter, and in submitting our Tender, we also confirm that:

- a) our Tender shall be valid for the period stated in the Tender Data Sheet (ITT Sub-Clause 27.2) and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- b) a Tender Security is attached in the form of a bank guarantee in the amount stated in the Tender Data Sheet (ITT Clause 29) and valid for a period of 28 days beyond the Tender validity date;
- c) if our Tender is accepted, we commit to furnishing a Performance Security in the amount stated in the Tender Data Sheet (ITT Sub-Clause 63.2) in the form stated in Tender Data Sheet (ITT Sub-Clause 64.1) and valid for a period of 28 days beyond the date of completion of our performance obligations;
- d) we have examined and have no reservations to the Tender Document, issued by you on *[insert date]*;

including Addendum to Tender Documents No(s) *[state numbers]* ,issued in accordance with the Instructions to Tenderers (ITT Clause 11). *[insert the number and issuing date of each addendum; or delete this sentence if no Addendum have been issued]*;
- e) we, including as applicable, subcontractor for any part of the contract resulting from this Tender process, have nationalities from eligible countries, in accordance with ITT Sub-Clause 5.1;
- f) we are submitting this Tender as a sole Tenderer
- g) we are not a Government owned entity as defined in ITT Sub-Clause 5.3
or
we are a Government owned entity, and we meet the requirements of ITT Sub-Clause 5.3];
(delete one of the above as appropriate)
- h) we, declare that we are not associated, nor have been associated in the past, directly or indirectly, with a consultant or any other entity that has prepared the design, specifications and other documents, in accordance with ITT Sub-Clause 5.5;
- i) we, including as applicable subcontractor, have not been declared ineligible by the Government of Bangladesh or the Development Partner, under the laws of Bangladesh or official regulations or by an act of compliance with a decision of the United Nations Security Council on charges of engaging in corrupt, fraudulent, collusive, coercive (or obstructive in case of Development Partner) practices, in accordance with ITT Sub-Clause 5.6;
- j) furthermore, we are aware of ITT Sub Clause 4.3 concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;
- k) we intend to subcontract an activity or part of the Supply, in accordance with ITT Sub-Clause 16.1 to the following Subcontractor(s);

Nature of the Supply or related service	Name and address of Subcontractor
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- l) we, confirm that we do not have a record of poor performance, such as abandoning the Supply, not properly completing contracts, inordinate delays, or financial failure as stated in ITT Sub-Clause 5.8, and that we do not have, or have had, any litigation against us, other than that stated in the Tenderer Information Sheet(Form PG4-2);

- m) we are not participating as Tenderers in more than one Tender in this Tendering process. We understand that your written Notification of Award shall become a binding Contract between us, until a formal Contract is prepared and executed;

- n) we understand that you reserve the right to accept or reject any Tender, to cancel the Tender proceedings, or to reject all Tenders, without incurring any liability to Tenderers, in accordance with ITT Clause 58.1.

Signature:

<i>[insert signature of authorized representative of the Tenderer]</i>
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Name:

<i>[insert full name of signatory with National ID]</i>

In the capacity of:

<i>[insert designation of signatory]</i>
--

Duly authorized to sign the Tender for and on behalf of the Tenderer

[If there is more than one (1) signatory add other boxes and sign accordingly].

Attachment 1: Written confirmation authorizing the above signatory(ies) to commit the Tenderer, in accordance with ITT Sub-Clause 34.3;

<ul style="list-style-type: none"> □ <i>A certificate issued by the competent authority of Bangladesh stating that the Tenderer is a Tax payer having valid Tax identification Number (TIN) and VAT registration number or in lieu any other document acceptable to the Purchaser demonstrating that the Tenderer is a genuine Tax payer and has a VAT registration number as a proof of fulfilment of taxation obligations in accordance with ITT Clause 5 .</i> □ <i>Documentary evidence demonstrating that they are enrolled in the relevant professional or trade organizations registered in Bangladesh in accordance with ITT Clause 5.</i> 	
<p>2. Litigation History: <i>[Number of arbitration awards against the tenderer over the period in accordance the ITT Clause 13.1] if no [state “None”]</i></p>	
<p>3. Qualification Information of the Tenderer:</p>	
3.1	<p><i>Number of years of overall experience of the Tenderer in the supply of goods and related services as stated under ITT Sub-Clause 14.1(a):</i></p>
3.2	<p><i>Number of completed supply contracts in the supply of similar goods and related services of required value within the period mentioned in TDS as stated under ITT Sub-Clause 14.1(b):</i></p> <ul style="list-style-type: none"> ▪ <i>Number of Contracts:</i> ▪ <i>Value of the Contracts:</i> ▪ <i>Period of the Contract:</i>
3.3	<p><i>The supply and/or production capacity of Goods, if applicable, as stated under ITT Sub-Clause 14.(c)</i></p>
3.4	<p><i>Available liquid assets or working capital or credit facility in accordance with ITT Clause 15.1(a)</i></p>

Subcontractor Information (Form PG4-2A)

[This Form should be completed by each Subcontractor, preferably on its Letter-Head Pad]

Invitation for Tender No: [IFT No]
 Tender Package No [Package No]
 Lot No. (when applicable) [Lot No]

1. Eligibility Information of the Subcontractor <i>[ITT Clause 5 and 26]</i>		
1.1	Nationality of Individual or country of Registration	
1.2	Subcontractor's legal title	
1.3	Subcontractor's registered address	
1.4	Subcontractor's legal status <i>[complete the relevant box]</i>	
	Proprietorship	
	Partnership	
	Limited Liability Concern	
	Government-owned Enterprise	
	Other (please describe)	
1.5	Subcontractor's year of registration	
1.6	Subcontractor's authorised representative details	
	Name	
	Address	
	Telephone / Fax numbers	
	e-mail address	
1.7	Subcontractor to attach copies of the following original documents	All documents to the extent relevant to ITT Clause 5 and 26 in support of its eligibility
The following two information are applicable for national Subcontractors		
1.8	Subcontractor's Value Added Tax Registration (VAT) Number	
1.9	Subcontractor's Tax Identification Number(TIN)	

[The foreign Subcontractors , in accordance with ITT Sub Clause 5.1, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]		
2. Key Activity(ies) for which it is intended to be Subcontracted [ITT Sub Clause 16.1]		
2.1	Elements of Activity	Brief description of Activity
2.2	List of Similar Contracts in which the proposed Subcontractor had been engaged	
	Name of Contract and Year of Execution	
	Value of Contract	
	Name of Procuring Entity	
	Contact Person and contact details	
	Type of Good supplied or service provided or Works performed	

Price Schedule for Goods (Form PG4-3A)

[Group A Tenders: Goods Manufactured in Bangladesh]

Invitation for Tender No:		Date:	
Tender Package No:		Package Description:	<i>[enter description as specified in Section 6]</i>
Tender Lot No:		Lot Description:	<i>[enter description as specified in Section 6]</i>

1	2	3	4	5	6	7	8	9	10	
Line Item No.	Description of Item	Unit of Measurement	Quantity	Unit price EXW Excluding VAT <i>[FC or BDT]</i>	EXW price per Line Item (Col. 4 × 5) <i>[FC or BDT]</i>	Inland transportation, Insurance and other local costs for the delivery of the Goods to their destination <i>[BDT]</i>	Cost of local labour, raw materials and components from with origin in Bangladesh	VAT Payable on account of Supplier if the Contract is awarded <i>[BDT]</i>	Total Price per line item (Col. 6+7) FC BDT	
<i>[Insert number of the item]</i>	<i>[Insert name of Goods]</i>	<i>[Insert name of the Unit]</i>	<i>[Insert number of Unit to be supplied]</i>	<i>[Insert EXW unit price, also indicate Currency]</i>	<i>[Insert total EXW price per line item]</i>	<i>[Insert corresponding price per line item]</i>	<i>[Insert cost of local labour, raw material and components as a % of the Col 5]</i>	<i>[Insert Supplier's VAT if Contract is awarded]</i>	<i>[Insert total price per line item]</i>	
1	Pontoon Mounted Grab Dredger	No.	01							
2	Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge.	No.	01							
3	Self-propelled Dredge Material carrying barge	No.	01							
4	Spare parts for Grab Dredger.	L.S	-							

<i>Note : Price offered in foreign currency (FC) & Bangladeshi Taka (BDT)</i>		Total Price for Lot	
Point of Delivery as per Schedule of Requirement:		Period of Delivery as per Schedule of Requirement:	

Name:	<i>[insert full name of signatory]</i>	<i>Signature with Date and Seal</i>
In the capacity of:	<i>[insert designation of signatory]</i>	<i>[Sign]</i>
Duly authorized to sign the Tender for and on behalf of the Tenderer		

Price Schedule for Goods (Form PG4-3B)

[Group B Tenders: Goods Manufactured outside Bangladesh, to be imported]

Invitation for Tender No:		Date:	
Tender Package No:		Package Description:	<i>[enter description as specified in Section 6]</i>
Tender Lot No:		Lot Description:	<i>[enter description as specified in Section 6]</i>

1	2	3	4	5	6	7	8	9	10	
Line Item No.	Description of Item	Country of Origin	Unit of Measurement	Quantity	Unit price CIP <i>[Chattogram port/Mongla port]</i> Or CIP <i>[Chattogram port/Mongla port]</i> [FC]	CIF/CIP price per Line Item (Col. 5 × 6) [FC]	Inland transportation, Insurance and other local costs for the delivery of the Goods to their final destination [BDT]	VAT Payable on account of Supplier if the Contract is awarded [BDT]	Total Price per line item (Col. 7+ Col. 8)	
									FC	BDT
<i>[Insert number of the item]</i>	<i>[Insert name of Goods]</i>	<i>[insert country of origin of the Good]</i>	<i>[Insert name of the Unit]</i>	<i>[Insert number of Unit to be supplied]</i>	<i>[Insert unit price in CIF or CIP, also indicate currency]</i>	<i>[Insert total price per line item]</i>	<i>[Insert corresponding price per line item]</i>	<i>[Insert Supplier's VAT if Contract is awarded]</i> (If applicable as per VAT Act)	<i>[Insert total price per line item]</i>	
1	Pontoon Mounted Grab Dredger		No.	01						
2	Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge		No.	01						

1	2	3	4	5	6	7	8	9	10	
Line Item No.	Description of Item	Country of Origin	Unit of Measurement	Quantity	Unit price CIP [Chattogram port/Mongla port] Or CIF [Chattogram port/Mongla port] [FC]	CIF/CIP price per Line Item (Col. 5 × 6) [FC]	Inland transportation, Insurance and other local costs for the delivery of the Goods to their final destination [BDT]	VAT Payable on account of Supplier if the Contract is awarded [BDT]	Total Price per line item (Col. 7+ Col. 8) FC BDT	
[Insert number of the item]	[Insert name of Goods]	[insert country of origin of the Good]	[Insert name of the Unit]	[Insert number of Unit to be supplied]	[Insert unit price in CIF or CIP, also indicate currency]	[Insert total price per line item]	[Insert corresponding price per line item]	[Insert Supplier's VAT if Contract is awarded] (If applicable as per VAT Act)	[Insert total price per line item]	
3	Self-propelled Dredge Material carrying barge		No.	01						
4	Spare parts for Grab Dredger.		L.S	-						
Note: Price offered in foreign currency (FC) & Bangladesh Taka (BDT)							Total Price for Lot			
Point of Delivery as per Schedule of Requirement:						Period of Delivery as per Schedule of Requirement:				

[Note: The Purchaser may also use other INCOTERMS, if deemed necessary, In such case Form PG4-3B, will require to be customized by the Purchaser]

Name:	[insert full name of signatory]	Signature with Date and Seal
In the capacity of:	[insert designation of signatory]	[Sign]
Duly authorized to sign the Tender for and on behalf of the Tenderer		

Price Schedule for Goods (Form PG4-3C)

[Group B Tenders: Goods Manufactured outside Bangladesh, already imported]

Invitation for Tender No:		Date:	
Tender Package No:		Package Description:	<i>[enter description as specified in Section 6]</i>
Tender Lot No:		Lot Description:	<i>[enter description as specified in Section 6]</i>

1	2	3	3	4	5	6	7	8	9	10	11
Line Item No .	Description of Item	Country of Origin	Unit of Measurement	Quantity	Unit price Including Custom Duties, import VAT & other import taxes already paid [BDT]	Custom Duties, import VAT & other import taxes already paid per unit [BDT]	Unit Price per line item net of Custom Duties, import VAT & other import taxes already paid [BDT] (Col. 5 – Col.6)	Price per line item net of Custom Duties, import VAT & other import taxes already paid [BDT] (Col. 4X Col. 7)	Inland transportation, Insurance and other local costs for the delivery of the Goods to their final destination [BDT]	VAT Payable on account of Supplier if the Contract is awarded [BDT]	Total Price per line item (Col.8+ Col.9) [BDT]
<i>[Insert number of the item]</i>	<i>[Insert name of Goods]</i>	<i>[insert country of origin of the Good]</i>	<i>[Insert name of the Unit]</i>	<i>[Insert number of Unit to be supplied]</i>	<i>[Insert unit price including CD & all import taxes]</i>	<i>[Insert CD, VAT & import taxes paid per unit] to be supported</i>	<i>[insert unit price net of CD, VAT and import taxes]</i>	<i>[insert price per line item net of CD, VAT and import taxes]</i>	<i>[Insert corresponding price per line item]</i>	<i>[Insert Supplier's VAT if Contract is awarded]</i>	<i>[Insert total price per line item]</i>

NOT APPLICABLE

Note : Price offered in Bangladeshi Taka (BDT)

Total Price for Lot

Point of Delivery as per Schedule of Requirement:

Period of Delivery as per Schedule of Requirement:

Name:	<i>[insert full name of signatory]</i>	<i>Signature with Date and Seal</i>
In the capacity of:	<i>[insert designation of signatory]</i>	<i>[Sign]</i>
Duly authorized to sign the Tender for and on behalf of the Tenderer		

Price and Completion Schedule - Related Services (Form PG4-3D)

Invitation for Tender No:		Date:	
Tender Package No:		Package Description:	<i>[enter description as specified in Section 6]</i>
Tender Lot No:		Lot Description:	<i>[enter description as specified in Section 6]</i>

1 Service No.	2 Description of Services (excludes inland transportation and other services required in Bangladesh to convey the goods to their final destination)	3 Country of Origin	4 Unit of Measurement	5 Quantity	6 Unit price of service <i>[FC] or [BDT]</i>	7 Price per line item of service (Col. 5 X Col. 6) <i>[FC] or [BDT]</i>	8 VAT Payable on account of Supplier if the Contract is awarded <i>[BDT]</i>	9 Total Price per line item of service (Col. 7)	
								FC	BDT
01	Plan Approval and Survey Work of Pontoon Mounted Grab Dredger including Supervision by International Classification Society of Lloyds/ABS/NKK/DNV-GL/BV	<i>[insert country of origin of the Service]</i>	JOB	01	<i>[Insert unit price]</i>	<i>[Insert price per line item of service]</i>	<i>[Insert Supplier's VAT if Contract is awarded]</i>	<i>[Insert total price per line item of service]</i>	

02	Plan Approval and Survey Work of Self-propelled split-type dredge material carrying hopper barge including Supervision by International Classification Society of Lloyds/ABS/NKK/DNV-GL/BV	<i>[insert country of origin of the Service]</i>	JOB	01				
03	Plan Approval and Survey Work of Self-Propelled Dredge Material carrying barge including Supervision by International Classification Society of Lloyds/ABS/NKK/DNV-GL/BV	<i>[insert country of origin of the Service]</i>	JOB	01				
04	Specification survey and issuance of Specification survey certificate of Spare parts for Grab Dredger by Classification Society of Lloyds/ABS/NKK/DNV-GL/BV	<i>[insert country of origin of the Service]</i>	JOB	01				
Note Price offered in foreign currency (FC) & Bangladeshi Taka (BDT)						Total Price for Lot		
Point of Delivery as per Schedule of Requirement:					Period of Delivery as per Schedule of Requirement:			

Name:	<i>[insert full name of signatory]</i>	<i>Signature with Date and Seal</i>
In the capacity of:	<i>[insert designation of signatory]</i>	<i>[Sign]</i>
Duly authorized to sign the Tender for and on behalf of the Tenderer		

Specifications Submission and Compliance Sheet (Form PG4-4)

Invitation for Tender No:

Date:

Tender Package No:

Package Description: *[enter description as specified in Section 6]*

Tender Lot No:

Lot Description: *[enter description as specified in Section 6]*

Item No.	Name of Goods or Related Service	Country of Origin	Make and Model (when applicable)	Full Technical Specifications and Standards
1	2	3	4	5
	FOR GOODS			Note 1

[The Tenderer should complete all the columns as required]

Signature:

<i>[insert signature of authorized representative of the Tenderer]</i>
--

Name:

<i>[insert full name of signatory]</i>
--

In the capacity of:

<i>[insert designation of signatory]</i>
--

Duly authorized to sign the Tender for and on behalf of the Tenderer

Manufacturer's Authorisation Letter (Form PG4 - 5)

[The Tenderer shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Tenderer shall include it in its tender, if so indicated in the TDS as stated under ITT Sub-Clause 26.1(b)]

Invitation for Tender No:	Date:
Tender Package No:	
Tender Lot No:	
To: Name and address of Purchaser]	

WHEREAS

We *[insert complete name of Manufacturer]*,

who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby

authorize *[insert complete name of Tenderer]* to supply the following Goods, manufactured by us *[insert name and or brief description of the Goods]*.

We hereby extend our full guarantee and warranty as stated under GCC Clause 33 of the General Conditions of Contract, with respect to the Goods offered by the above Tenderer.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Address: *[insert full address including Fax and e-mail]*

Title: *[insert title]*

Date: *[insert date of signing]*

Bank Guarantee for Tender Security (Form PG4 – 6)

[this is the format for the Tender Security to be issued by a scheduled bank of Bangladesh as stated under ITT Clauses 29 and 30]

Invitation for Tender No:

Date:

Tender Package No:

Tender Lot No:

To:

[Name and address of Purchaser]

TENDER GUARANTEE No:

We have been informed that *[insert name of Tenderer]* (hereinafter called “the Tenderer”) intends to submit to you its Tender dated *[insert date of Tender]* (hereinafter called “the Tender”) for the supply of *[description of goods and related services]* under the above Invitation for Tenders (hereinafter called “the IFT”).

Furthermore, we understand that, according to your conditions, Tenders must be supported by a Bank Guarantee for Tender Security .

At the request of the Tenderer, we *[insert name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of BDT*[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Tenderer is in breach of its obligation(s) under the Tender conditions, because the Tenderer:

- a. has withdrawn its Tender after opening of Tenders but within the validity of the Tender Security ;
or
- b. refused to accept the Notification of Award (NOA) within the period as stated under Instructions to Tenderers (ITT) ; or
- c. failed to furnish Performance Security within the period as stipulated in the NOA; or
- d. refused to sign the Contract Agreement by the time specified in the NOA; or
- e. did not accept the correction of the Tender price following the correction of the arithmetic errors in accordance with the ITT; or

This guarantee will expire:

- (a) if the Tenderer is the successful Tenderer, upon our receipt of a copies of the contract signed by the Tenderer and the Performance Security issued to you in accordance with the ITT; or
- (b) if the Tenderer is not the successful Tenderer, twenty eight (28) days after the expiration of the Tenderer’s Tender validity period, being *[date of expiration of the Tender validity plus twenty eight(28) days]*

Consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature

Seal

Letter of Commitment for Bank's Undertaking for Line of Credit (Form PG4-6A)

[This is the format for the Credit Line to be issued by any internationally reputable bank in accordance with ITT Clause 26.1(d)]

Memo No.:

Date:

Invitation for Tender No:

Date:

Tender Package No:

Lot No (when applicable):

To:

[Name and address of the Procuring Entity]

CREDIT COMMITMENT No: *[insert number]*

We have been informed that *[name of Tenderer]* (hereinafter called "the Tenderer") intends to submit to you its Tender (hereinafter called "the Tender") for the supply of Goods of *[description of Goods and related services]* under the above Invitation for Tenders (hereinafter called "the IFT").

Furthermore, we understand that, according to your conditions, the Tenderer's Financial Capacity i.e. Liquid Asset must be substantiated by a Letter of Commitment of Bank's Undertaking for Line of Credit.

At the request of, and arrangement with, the Tenderer, we *[name and address of the Bank]* do hereby agree and undertake that *[name and address of the Tenderer]* will be provided by us with a revolving line of credit, in case awarded the Contract, for the delivery of Goods and related services viz. *[insert name of supply]*, for an amount not less than *[name of currency(s)]* *[Amount in figure]* (*in words*) for the sole purpose of the supply of Goods and related services under the above Contract. This Revolving Line of Credit will be maintained by us until issuance of "Acceptance Certificate" by the Procuring Entity.

In witness whereof, authorised representatives of the Bank have hereunto signed and sealed this Letter of Commitment.

Name and Signature

Name and Signature

Notification of Award (Form PG4 - 7)

Contract No:

Date:

To:

[Name of Contractor]

This is to notify you that your Tender dated *[insert date]* for the supply of Goods and related Services for *[name of contract]* for the Contract Price of BDT *[state amount in figures and in words]* as corrected and modified in accordance with the Instructions to Tenderers, has been approved by *[name of Purchaser]*.

You are thus requested to take following actions:

- i. accept in writing the Notification of Award within seven (7) working days of its issuance pursuant to ITT Sub-Clause 62.3
- ii. furnish a Performance Security in the specified format and in the amount of BDT *[state amount in figures and words]*, within Twenty-eight (28) days from issue of this Notification of Award but not later than *(specify date)*, in accordance with ITT Clause 64.2
- iii. sign the Contract within twenty eight (28) days of issuance of this Notification of Award but not later than *(specify date)*, in accordance with ITT Clause 67.2

You may proceed with the execution of the supply of Goods and related Services only upon completion of the above tasks. You may also please note that this Notification of Award shall constitute the formation of this Contract, which shall become binding upon you.

We attach the draft Contract and all other documents for your perusal and signature.

Signed

Duly authorized to sign for and on behalf of
[name of Purchaser]

Date:

Contract Agreement (Form PG4 - 8)

THIS AGREEMENT made the *[day]* day of *[month]* *[year]* between *[name and address of Purchaser]* (hereinafter called “the Purchaser”) of the one part and *[name and address of Supplier]* (hereinafter called “the Supplier”) of the other part:

WHEREAS the Purchaser invited Tenders for certain goods and related services, viz, *[brief description of goods and related services]* and has accepted a Tender by the Supplier for the supply of those goods and related services in the sum of BDT *[Contract Price in figures and in words]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract hereafter referred to.
2. The following documents forming the Contract shall be in the following order of precedence, namely :
 - (a) the signed Form of Contract Agreement;
 - (b) the Notification of Award
 - (c) The Tender and the appendices to the Tender
 - (d) Particular Conditions of Contract;
 - (e) General Conditions of Contract;
 - (f) Technical Specifications;
 - (g) Drawings;
 - (h) Price Schedules and Schedule of Requirements and;
 - (i) other document including correspondences listed in the PCC forming part of the Contract
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and related services and to remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and related services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Bangladesh on the day, month and year first written above.

For the Purchaser:

For the Supplier:

Signature

Print Name

Title

In the presence of

Name

Address

Bank Guarantee for Performance Security (Form PG4 – 9)

[This is the format for the Performance Security to be issued by an internationally reputable bank and it shall have correspondent bank located in Bangladesh, to make it enforceable in accordance with ITT Sub-Clause 64.1 pursuant to Rule 27(4) of the Public Procurement Rules, 2008.]

Contract No:

Date:

To:

[Name and address of Purchaser]

PERFORMANCE GUARANTEE No: *[insert Performance Guarantee number]*

We have been informed that *[name of supplier]* (hereinafter called “the Supplier”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”) for the supply of *[description of goods and related services]* under the Contract.

Furthermore, we understand that, according to your conditions, Contracts must be supported by a performance guarantee.

At the request of the Supplier, we *[name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of BDT *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Supplier is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

[Signatures of authorized representatives of the bank]

Signature

Seal

Bank Guarantee for Stage Payment (Form PG4 – 10)

Contract No:

Date:

To:

[Name and address of Purchaser]

STAGE PAYMENT GUARANTEE No:

We have been informed that *[name of supplier]* (hereinafter called “the Supplier”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”) for the supply of *[description of goods and related services]* under the Contract.

Furthermore, we understand that, according to your Particular Conditions of Contract Clause 26.1, Stage Payment(s) on Contracts must be supported by a bank guarantee.

At the request of the Supplier, we *[name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of BDT *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Supplier is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

We further agree that no change, addition or other modification of the terms of the Contract to be performed, or of any of the Contract documents which may be made between the Purchaser and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

[Signatures of authorized representatives of the bank]

Signature

Seal

Section 6. Schedule of Requirements

Invitation for Tender No:
Tender Package No:

Date

A. List of Goods and Delivery Schedule

When completing Form PG4-3A, 3B & 3C the Tenderer shall quote prices and contract delivery dates, as specified in the List of Goods and Delivery Schedule.

Item No.	Description of Item	Unit of Measurement	Quantity	Point of Delivery <i>[Final (Project Site) Destination as specified in TDS]</i>	Delivery Date Required (in months)	
1	2	3	4	5	6	7
1	Pontoon Mounted Grab Dredger	No.	01	Dredger Base, BIWTA, Narayanganj	18 (Eighteen) months from the date of signing of contract.	
2	Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge	No.	01			
3	Self-propelled Dredge Material carrying barge	No.	01			
4	Spare parts for Grab Dredger.	L.S	-			

B. List of Related Services and Completion Schedule

When completing Form PG4-3D, the Tenderer shall quote prices and Completion date for services for each item against each lot

Item No.	Description of Item	Unit of Measurement	Quantity	Place where Services shall be performed	Final Completion Date(s) of Services
1	2	3	4	5	6
01	Plan Approval and Survey Work of Pontoon Mounted Grab Dredger including Supervision by International Classification Society of Lloyds/ABS/NKK/DNV-GL/BV	JOB	01		<i>[insert required Completion Date(s)]</i>
02	Plan Approval and Survey Work of Self-propelled split-type dredge material carrying hopper barge including Supervision by International Classification Society of Lloyds/ABS/NKK/DNV-GL/BV	JOB	01		
03	Plan Approval and Survey Work of Self-Propelled Dredge Material carrying barge including Supervision by International Classification Society of Lloyds/ABS/NKK/DNV-GL/BV	JOB	01		
04	Specification survey and issuance of Specification survey certificate of Spare parts for Grab Dredger by Classification Society of Lloyds/ABS/NKK/DNV-GL/BV	JOB	01		
Lot No 1: [enter description]					
<i>[add as many rows and details as there are individual items in the Lot]</i>					
Lot No 2: [enter description]					
<i>[add as many rows and details as there are individual items in the Lot]</i>					

Notes on Related Services

The Purchaser shall clearly specify the related services/Incidental services, other than inland transportation and other services required to convey the Goods to their final destination, in this Schedule of requirement. In particular, these services may refer to any of the following but not limited to:

- (a) *performance or supervision of on-site assembly and/or start-up of the supplied Goods;*

- (b) *performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time as specified, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and*
- (c) *training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.*

Section 7. Technical Specifications

The Goods shall comply with following Technical Specifications:

Item No	Name of Item or Related Service	Technical Specification and Standards
1	2	3
1	Pontoon Mounted Grab Dredger	Details in Annex-I
2	Self-Propelled Split-Type Dredge-Material Carrying Hopper Barge	
3	Self-propelled Dredge Material carrying barge	
4	Spare parts for Grab Dredger	

Section 8. Drawings

General Arrangement (G.A) Plan of Pontoon Mounted Grab dredger, Self-Propelled Split-Type Dredge Material Carrying Hopper Barge and Self-Propelled Dredge Material Carrying Barge have been attached in ANNEX-III, IV, V.

FORMAT

LOGO

[Insert Full Contact Details of the Procuring Entity]

CONTRACT AMENDMENT

Contract No.	
Amendment No.	
Approval Reference No.	

Contract No. [insert number/year] by and between the [insert Procuring Entity's name] and [insert Supplier's legal title] for the contract named [insert name of the Goods and related services] is amended as follows:

1. GCC Clause [insert clause no], is hereby revised as _____

2. GCC Clause [insert clause no], is hereby revised as _____

and so on.

The effective date of this Amendment is [insert effective date] or upon execution whichever is later.

**ALL OTHER TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT SHALL
REMAIN IN FULL FORCE AND EFFECT**

THIS AMENDMENT, consisting of [insert number] page(s) and [insert number] attachment(s), is executed by the persons signing below who warrant that they have the authority to execute this Amendment under the original Contract.

IN WITNESS WHEREOF, the Procuring Entity and the Supplier have signed this Amendment.

[Supplier's Authorized Signatory]

[Procuring Entity's Authorized Signatory]

Signature

Signature

Title

Date

Title

Date

FORMAT

LOGO

[Insert Full Contact Details of Issuing Authority]

Office Memo no: _____

Date: _____

ACCEPTANCE CERTIFICATE

01	Procuring Entity Details		
	(a) Division	:	
	(b) Circle/Directorate	:	
	(c) Zone/Region	:	
	(d) Others (<i>specify</i>)	:	
02	Name of Supply	:	
03	Contract No	:	
04	Supplier's Legal Title	:	
05	Supplier's Contact Details	:	
06	Supplier's Trade License/Enlistment/Registration Details	:	
07	Reference to NOA with Date	:	
08	Original Contract Price as in NOA	:	
09	Final Contract Price as Delivered	:	
10	Original Contract Period		
	(a) Date of Commencement	:	
	(b) Date of Completion	:	
11	Actual Delivery Period		
	(a) Date of Actual Commencement	:	
	(b) Date of Actual Completion	:	
12	Days/Months Delivery Period Extended	:	
13	Amount of LD for Delayed Delivery	:	
14	Special Note (<i>if any</i>)	:	

Certified that the Goods and related services under the Contract has been delivered and completed in all respects in strict compliance with the provisions of the Contract including all plans, designs, drawings, specifications and all modifications thereof as per direction and satisfaction of the Procuring Entity/Engineer-in Charge/Other (*specify*). All defects in the Goods reported during inspection and tests have been duly rectified or replaced.

Name and Signature of the Issuing Authority with Designation

please turn over

Technical Specification

Annex - I

A brief guideline specification of the Grab Dredger with accessories are given here under. The tenderer has to submit detailed specification of each and every item with its description, drawing, data etc. as required.

Bangladesh is a tropical Country. As such all the equipment to be supplied should be suitable for climate of Bangladesh. The recorded temperature is in the range of 10°C to 40°C and relative humidity is in the range of 60% to 80%.

A. PONTOON MOUNTED GRAB DREDGER, 15 M3 grab capacity

A-1: PARTICULARS OF DREDGER

Principal Particulars		Dimensions/Instructions
1.01	Principal Dimensions	
	Length hull (about)	55 m
	Breadth (about)	22 m
	Depth (about)	4.0 m
	Design draft (maximum)	2.30 m
	Complement	12 persons
	Fuel tank capacity (Approx.)	70,000 liters
	Water tank capacity (Approx.)	35,000 liters
	Capable to work in inland waterways	To withstand 6 knots velocity of water.
1.02	Pedestal mounted Slewing Grab crane	
	Boom length (Approx)	38 m
	Dredging depth (Minimum)	25 meter below water line.
	Grab lifting height (Minimum)	10 meter above water line.
	Slewing Speed (Minimum)	1.5 revolutions per minute, Slewing angle - 360°
	Hoisting Speed (Minimum)	60 meter/min
	Lowering Speed (Minimum)	70 meter/min
	Make	Heavy duty crane of reputed make certified by international reputed classification society which is a full member of IACS.
	Country of Origin of Grab crane	USA/UK/EU countries/Japan/Australia/Canada/South Korea.

	Specifications of Grab crane	Details specification to be mentioned by the tenderer.
1.03	Grab crane capacity	Appropriate capacity minimum 55 ton @ 22.0 m (Grab Mood) to fulfill the crane operation with a grab capacity of 15 Cubic meters. The crane shall be designed to make it possible to lower the boom below horizontal for maintenance & smooth passage of Grab dredger under low height bridges of Bangladesh Inland Waterways.
1.04	A- Frame	The A-frame of the Grab crane shall be rotating type for ensuring smooth passage of Grab dredger under low height bridges of Bangladesh Inland Waterways. The Maximum height to the lowest point of rotation of A-frame from load waterline shall not exceed 09.50 (Nine point five) m.
1.05	Grab Holding Winch	Line Pull- Minimum 55 ton. Number of layers-01 Drum size- To be mentioned. Wire rope length & Size- Sufficient length & size to operate the Grab. Country of origin for Grab Holding winch: USA/UK/EU countries /Japan/ Australia/Canada
1.06	Grab opening/closing Winch	Line Pull- Minimum 55 ton. Number of layers-01 Drum size- To be mentioned. Wire rope length & Size- Sufficient length & size to operate the Grab. Country of origin for Grab opening/closing winch: USA/UK/EU countries /Japan/ Australia/Canada
1.07	Boom Hoist Winch	Line Pull (Minimum)- To be mentioned as per design Number of layers-01 Drum size- To be mentioned. Wire rope length & Size- Sufficient length & size to operate the Grab. Country of origin for Boom Hoist Winch: USA/UK/EU countries /Japan/ Australia/Canada
1.08	Grab buckets	2 pc silt/sand bucket, capacity 15 m3, Weight- 20-25 ton. Type: Transverse Type
1.09	Class	The hull of the grab dredger including its main engines, generator, electro hydraulic installations etc. shall be built and classed for 'Coastal Area' under the rules and regulations of International Classification Society of Lloyds/NKK/ABS/DNV.GL/BV. The appropriate class notations for fully classed hull and fully classed machinery to be mentioned in the offer: Full Class Notation (Hull): Means ship's hull design, hull materials used and constructions done under the proposed Classification society Special Survey in full compliance with the Rules and regulations. Hull notation shall be mentioned at the technical specification, Example- \times 100A1 or Equivalent.

	<p>Full Class Notation (Machinery): Means all propelling and essential auxiliary machinery to be designed, constructed, installed and tested under Special Survey in accordance with proposed Classification society Rules and Regulations.</p> <p>Propelling and essential auxiliary machinery includes machinery, equipment and systems installed for the ship to be under seagoing conditions and that are necessary for the following:</p> <ol style="list-style-type: none"> Maintaining the watertight and weathertight integrity of the hull and spaces within the hull. The safety of the ship, machinery and personnel on board. The functioning and dependability of propulsion, steering and electrical systems. The operation and functioning of control engineering systems for the monitoring and safety of propulsion and steering systems. The operation and functioning of emergency machinery and equipment. <p>Machinery notation shall be mentioned at technical specification, Example- ✕LMC or Equivalent.</p> <p>The cost of the Classification society shall be borne by Purchaser through Supplier and the Classification society will fully responsible to the Purchaser for their work. Details responsibility of the Classification society has been attached in Annex-II. Price for this work shall be quoted in the price schedule for related services (Form PG4-3D). The total contract price shall be inclusive of the price of classification society.</p> <p>The following rules and regulations (if applicable) are to be complied with: Maritime Regulations of Bangladesh; International Convention for the Safety of Life at Sea (SOLAS), 1974 International Convention on Load Lines, 1966 International Convention on Tonnage Measurement of Ships, 1969 Any other regulation for coastal area. On delivery of the vessel the required certificates will be supplied in duplicate. Registration & Survey (with Department of Shipping /Mercantile Marine Department of Bangladesh) must be completed by supplier's own cost`.</p>								
<p>1.10</p>	<p>Vessel design</p> <table border="1"> <tr> <td>Deck</td> <td>The deck is free of obstructions creating a free work deck for maintenance and/or sea fastening of the grab crane and storage spare equipment. The Deck must be properly strengthened for crane base and the place where grab rests.</td> </tr> <tr> <td>Spud installation</td> <td>The spuds can be used for anchoring the vessel during dredging. Each spud is placed in fixed spud housing. Spud structures will be provided with spud guides. The spuds are lifted/ lowered by means of hydraulic driven motors. Number of spuds: Minimum 03 (three).</td> </tr> <tr> <td>Spud dimensions</td> <td>To be mentioned which will be suitable for operation. Length (Approx.): 20 meters. Diameter (Approx.): To be mentioned. System: Tilting.</td> </tr> <tr> <td>Spud carriage</td> <td>Spud carriage installation is to be fitted in complete set. This installation is to</td> </tr> </table>	Deck	The deck is free of obstructions creating a free work deck for maintenance and/or sea fastening of the grab crane and storage spare equipment. The Deck must be properly strengthened for crane base and the place where grab rests.	Spud installation	The spuds can be used for anchoring the vessel during dredging. Each spud is placed in fixed spud housing. Spud structures will be provided with spud guides. The spuds are lifted/ lowered by means of hydraulic driven motors. Number of spuds: Minimum 03 (three).	Spud dimensions	To be mentioned which will be suitable for operation. Length (Approx.): 20 meters. Diameter (Approx.): To be mentioned. System: Tilting.	Spud carriage	Spud carriage installation is to be fitted in complete set. This installation is to
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Spud carriage	Spud carriage installation is to be fitted in complete set. This installation is to								

	installation	be operated by hydraulic rams or any other suitable system which can be controlled from the operating cabin. Any special tools required for assembly and disassembly is to be supplied.
1.11	Main diesel engine	
	Make	Heavy-Duty Diesel Marine Engine of reputed make certified by classification society.
	Power	Sufficient power (Approximate 1500 KW) to operate the crane.
	Diesel engine RPM (maximum)	1800
	Rating	The Heavy-Duty Diesel Marine Engine shall have the capacity to run at rated load and rated speed up to 80% of the time or 10 hours out of 12 hours.
	Country of Origin, Country of Manufacture, Country of Assembly, Country of Shipment	EU Countries/ USA/ UK/ Australia / Canada/ Japan.
	Other Features	Engine shall have the capability of monitoring the engine parameters and percentage of load both from locally and remotely.
1.12	Generators	
	Make	Diesel Marine Generators of reputed make certified by classification society.
	Power	Appropriate power (Minimum 120 KVA x 3 nos.) for on board all the electrical equipment and complying with class requirements.
	Diesel generator engine RPM (maximum)	1500
	Country of Origin, Country of Manufacture, Country of Assembly, Country of Shipment	EU Countries/ USA/ UK/ Australia / Canada/ Japan.
1.13	Flat Dredging Control System	Flat Dredging Control System to be installed for ensuring uniform & precise dredging work.
1.14	GPS Control System	In addition to this, to ensure dredging position close to the planned water depth the following systems should be installed <ol style="list-style-type: none"> 1. Grab dredging track indication 2. Hull position indication 3. Management of tide level 4. Management of heel

1.15	Operators cabin	The Operating Cabin is to be properly insulated with air conditioners fitted, Considering high temperature of Bangladesh. The cabin should be spacious enough for working persons & to be provided with an adjustable chair for operator/dredge Master. All Controls, instrumentation etc., are to be positioned in the operating desk.
1.16	Control room	A control room shall be provided for winch spud & anchor boom with remote control.
1.17	Control consoles and instruments	One navigation control console in the wheelhouse, provided with: - navigation and communication equipment - controls for navigation, dredging and deck lights. - controls for whistle - control unit for general alarm system - GPS control system - Flat Dredging Control System. - Spud control unit: - controls for spud lifting / lowering
1.18	Accommodation space	The accommodation is arranged at upper deck of ship for a total of 12 persons including officer's room, 1 room for master, 1 room for Driver & sufficient room for the accommodation of 09 crew's. A mess room shall be provided. The rooms shall be equipped/ decorated with bed, wardrobe, table with chair & lamps and other items as required.
1.19	Mess room & Galley	<p><u>Mess room</u></p> <ol style="list-style-type: none"> i. A Table sufficient for 12 persons. ii. 12 chairs. iii. 1 freezer (Capacity 200 liters). iv. 1 cup rack v. 1 glass rack vi. 1 clock vii. 1 television. (42 inch LED color tv) viii. Other items as required. <p><u>Galley</u></p> <p>The galley shall be provided with the following:</p> <ol style="list-style-type: none"> i. 1 Stainless steel cooking and frying range. ii. 1 Stainless steel basin. iii. 1 Stainless steel dresser. iv. 1 Stainless steel sink v. Plate, glass sufficient for 12 persons. vi. Other items as required.
1.20	Door, Windows & Bathroom fittings	The bathrooms shall be provided with the following: <ol style="list-style-type: none"> i. 1 Wash basins. ii. 1 Commode. iii. 1 Mirror. iv. 1 Basin. v. 2 Towel holders. vi. 1 Shower with shower curtains.

		<p>vii. Other items as required. Country of origin of above bathroom fittings - EU Countries/ USA/ UK/ Australia/ Canada/ Japan</p>
1.21	Navigation and communication equipment	<ul style="list-style-type: none"> - Magnetic standard compass, with periscope type repeater in ceiling. - Steering control panel. - Auto pilot. - Universal automatic identification system (AIS). - Navigation echo-sounding equipment. - Water track speed log. - Radar installation, 3 cm (9GHz) - Global positioning system (GPS) for navigation purposes. - Radio communication and safety equipment (GMDSS – A2) including: <ul style="list-style-type: none"> - Two 25 Watt simplex/semi duplex VHF radio telephones - One MF/HF radio telephone - One GMDSS battery/ charger/ box/ fuses - One EPIRB bacon - Two Search and rescue transponder (SART) - Three portable GMDSS VHF transceivers - Draught and loading calculator (DLC) - Wind speed and direction measuring system - Navigation lights - Dredging lights - Day signals - Daylight signaling lamp (Aldis) - Whistle, with automatic control unit - Searchlight with 1000W lamp - Other equipment as required. <p>All the Navigational and Communication equipment shall be subjected to classification society requirement. Country of origin of above Navigation and Communication equipment- EU Countries/ USA/ UK/ Australia/ Canada/ Japan.</p>
1.22	Air-conditioning and ventilation	<p>Air-conditioning systems are provided serving the accommodation spaces and Operators cabin. Capacities installed are suitable for the climate conditions of Bangladesh.</p> <p>Ventilation supply and exhaust systems are provided where required for maintaining proper inside conditions or proper functioning of installed equipment.</p>
1.23	Hydraulic system	<p>Hydraulic pump shall be provided for lifting spuds & anchor winch. All components are to be of proven design for trouble free operation. Country of origin of design & components: EU Countries/USA/UK/ Australia/ Canada/ Japan.</p>
1.24	Painting	<p>As per standard. Colors are to be approved by the Owner.</p> <p>Steel Work</p> <p>The steel work shall be rust free by sand blasting/sweeping, clean and dry before painting.</p> <ul style="list-style-type: none"> • Outside <ul style="list-style-type: none"> ➤ Shell plating below the waterline: <ol style="list-style-type: none"> 1. 1 x epoxy primer 1 x 50 µm 2. 2 x epoxy mastic paint 2 x 150 µm

		<p>3. 1 x tie coat 1 x 80 µm</p> <p>4. Anti-fouling paint acc. To paint supplier</p> <p>➤ Shell plating above the waterline:</p> <ol style="list-style-type: none"> 1. 1 x red primer 80 µm 2. 2 x epoxy mastic paint 2 x 150 µm 3. 1 x finish coat (polyurethane) 60 µm <p>➤ Pontoon deck:</p> <ol style="list-style-type: none"> 1. 1 x red primer 80 µm 2. 2 x epoxy mastic paint GF 2 x 200 µm <p>➤ Superstructure, deck equipment, masts:</p> <ol style="list-style-type: none"> 1. 1 x red primer 80 µm 2. 1 x epoxy mastic paint 200 µm 3. 1 x finish coat (polyurethane) 60 µm <p>• Inside</p> <p>➤ Engine room and workshop above floor plates:</p> <ol style="list-style-type: none"> 1. 1 x red primer 50 µm 2. 2 x epoxy mastic paint 150 µm 3. 1 x finish coat (polyurethane) 60 µm <p>➤ Engine room and workshop below floor plates:</p> <ol style="list-style-type: none"> 1. 1 x epoxy primer 50 µm 2. 2 x epoxy mastic paint 2 x 150 µm <p>➤ Store and capstan rooms:</p> <ol style="list-style-type: none"> 1. 1 x red primer 50 µm 2. 1 x epoxy mastic paint 200 µm <p>➤ Accommodation decks below floating floors:</p> <ol style="list-style-type: none"> 1. 1 x epoxy mastic paint 200 µm <p>➤ Accommodation bulkheads behind linings and ceilings:</p> <ol style="list-style-type: none"> 1. 1 x epoxy mastic paint 200 µm <p>➤ Partition bulkheads without linings:</p> <ol style="list-style-type: none"> 1. 1 x red primer 60 µm 2. 2 x epoxy mastic paint 150 µm 3. 1 x finish coat (polyurethane) 60 µm <p>Tanks:</p> <p>➤ Fuel oil tanks:</p> <ol style="list-style-type: none"> 1. Epoxy mastic paint chemical resistance 2 x 150 µm <p>➤ Void spaces, chain lockers:</p>
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		1. Epoxy mastic freshwater tank 1 x 200µm Painted with suitable paints.
1.25	Cathodic Protection	The external hull plating will be fitted with a number of zinc anodes/ aluminium anodes, providing a cathodic protection against corrosion over a period of 5 years. The cathodic protection shall be subjected to classification society requirement.
1.26	Installations and accessories	<ul style="list-style-type: none"> - 2 Bilge/fire/ballast general service pumps - 1 Diesel driven emergency firefighting pump - 1 bilge oily water separator - 1 Fresh water domestic pressure water set - 1 fresh water disinfection installation - 1 calorifier - 1 Sewage treatment unit - 2 Fuel oil transfer pumps - 1 Lubricating oil transfer pump - 1 dirty oil pump - 1 hydraulic oil transfer pump - lubrication oil pumps for the diesel engine, built on the engine - Cooling water pumps for the diesel engines, built on the engine <p>All the pumps shall be subjected to classification society requirement.</p> <ul style="list-style-type: none"> - Box coolers for the diesel engines - 1 Loose shelf spare fresh cooling water pump for both the main diesel engines together - 1 Loose shelf spare lubricating oil pump for both main diesel engines together - Exhaust gas silencer with spark arrestor for each diesel engine. - The main switchboard & emergency switchboard shall be class approved and certified. - Others power distribution boards & Group starter panels shall be class certified. All the electrical cable should be marine quality type & shall be class type approved. Circuit breakers shall be class type approved. All navigation lights shall class type approved. <p>Country of origin of above-mentioned Pumps- EU Countries/ USA/UK/ Australia/ Canada/ Japan.</p>
1.27	Equipment	<p>The following equipment is to be provided:</p> <ul style="list-style-type: none"> - 4 hydraulic anchor winches of which 2 on forecastle deck and 2 on aft deck. Each winch complete with one cable lifter for anchor chain and chain stopper. - 4 stockless anchors of required capacity should be supplied in accordance with the regulations of the classification society. - 4 stud link chain cables, high tensile strength steel - Bollards and fairleads shall be supplied as per requirement of

		<p>classification society.</p> <ul style="list-style-type: none"> - Two (2) vertical electric driven capstans shall be installed on fore of the floating crane pontoon. (as per classification society rules) <p>Windows in wheelhouse for good visibility around the vessel</p> <ul style="list-style-type: none"> -Signal mast on top of the wheelhouse - Store/workshop to be arranged below main deck amidships. This workshop is to be provided with : <ul style="list-style-type: none"> - 1 workbench with vice - 1 tool board above the workbench - 1 steel storage cabinet for storage of tools
1.28	Other Supplies	<p>To be supplied:</p> <p>For dredger</p> <ol style="list-style-type: none"> i. Lifesaving appliances, i.e., Life jackets, life buoys etc. of adequate number as per class requirement. ii. Boatswain’s inventory, iii. Firefighting appliances: The crane shall be supplied with firefighting equipment as per classification society rules and flag requirements. iv. First Aid box. v. This switchboard to be provided with voltmeters, ammeters with selector switches, earth fault indication and miniature circuit breakers in accordance with the regulations of the classification society. vi. Tools for general maintenance and special tools for crane, other dredge equipment, hydraulic system, electric system, engine and other works to be provided. vii. Instruction Manuals and Operation & Maintenance Manuals for hydraulic & electric system, engines, generator and main accessories, fitted on board the dredger in English language-3 sets. viii. Spare parts Catalogue/Books for all components in English language-3 sets. ix. Drawing–General Arrangement (GA) and other relevant drawings-3 sets in English language. x. 1 No. Desktop Computer (latest model) & 1 No. Laptop (latest model) with printer & UPS shall be supplied. Desktop Computer and Laptop shall be configured with the Genuine Windows 10 along with Anti-Virus (Kaspersky). All laptop and PC will have to be supplied with Microsoft Office 365 license for minimum 2 years. xi. 1 No. Photocopier (latest model of Toshiba/Equivalent) shall be supplied. xii. 2 Nos. Smart Cell-Phone (iPhone) of latest model is to be supplied. xiii. 1 No. LED Colour TV (48”) (latest model of Sony/Samsung) shall be supplied.

		xiv. Hand Mike (1 km range) to be supplied.
1.29	FS Wire Rope	For dredger Towing and other works: For Side Winch: 3 Coils For Spud: 3 Coils For dredger Towing: 3 Coils Size: minimum 28 mm Specification: Construction of the Rope: 6 X 19 (12+6+1) FC Normal Tensile Strength: 1670-1770 N/sq.mm Lay of Wire: Right Hand Regular Lay Minimum Breaking Strength for 28 mm: 432-458 kN Minimum Breaking Strength for 42 mm: 714-757 kN Length per coil: 300 meter Grade: A (Galvanized)

1.30. The dredger shall be equipped with following online monitoring system:

a. General Specification:

The system should have RTK (Real Time Kinematic) heading GNSS (Global Navigation Satellite System) with beacon tracking capability; inclinometers/angle sensors and on-board software which should be able to work with a RTK GNSS base station both using radio as well as cellular RTK communication. This system should be able to work with a predefined design surface providing guidance to dredger operator for accurate dredging and should be able to update and store the as-built dredging surface in real time during operation. It should provide requisite software in office to view remote dredger in real time - the views and data will be similar to what the dredge operator is viewing, that is position of dredger and cutter depth relative to the bathymetry survey and the design surface. All parts (sensors, GNSS & software) shall be supplied preferably from one manufacturer. Tenderer shall submit manufacturer Authorization Letter for online monitoring system. This online monitoring system will be installed in the dredgers which are subjected to continuous dredging operation with a dredging depth upto 20 metres. Therefore, the tenderer have to submit their offer with consideration of the above matter. Details Specification has given below:

Sl no	Item	Quantity (unit)	Characteristics	Specification
i	GNSS Rover	1 no.	Satellite Tracking	Should be Capable of tracking, GPS, GLONASS, GALILEO, BeiDou DGNSS Corrections via MSK Beacon Reception , 2 Channel SBAS (WAAS/EGNOS/MSAS/GAGAN)
			Measuring Modes	Real-time Kinematic
			Number of Channels	400 or more
			Real Time Accuracy for Kinematic	
			Horizontal	8 mm + 1 ppm or Better

			Vertical	15 mm + 1 ppm or Better
			Code Differential Accuracy	25 cm + 1 ppm or Better
			GNSS Antenna	2 nos separate antenna with each GNSS Rover for heading. Should be able to work with MSK Beacon. To be supplied with 10 meter antenna cables.
			Memory	6GB Internal memory, Should have expandable facilities through memory stick
			Communication	Should have 3 serial ports or more Mini USB, Ethernet port, pps output or Better Should have inbuilt Wi-Fi, Bluetooth, Radio, cellular in a single housing as GNSS Receiver.
			Physical and Environmental Specification	
			Operating Temperature of GNSS Receiver	-40°C to +65°C or Better
			Storage Temperature of GNSS Receiver	-40°C to +95°C or Better
			Shock	MIL-STD 810F or Better
			Position Update Rate	20 Hz or Better
			Water and Dust	IP67 water proof, Should be Dust proof or Better
			NMEA output	Support for NMEA output.
			RTK Corrections data format input/output	At least RTCM 2.x, 3.x, 3.1 input & output, CMR+ CMRx
			Power	
			Internal	Removable Internal battery for minimum 6 hours rover operation
			External Power	9-36 V DC external power input. Should have Overvoltage protection
			System	
			On-board keyboard and display	OLED display with 4 arrow keys (up, down, left, right) and OK key or Better
ii	Dual Axis Angle Sensors	1 set (Each set consists of 2 nos)	Dual Axis Angle Sensors	
			Sensor Enclosure	E-Coated aluminum 6061 equivalent alloy. Stainless Steel backing or Better
			Connection Port	Minimum 2 x Deutsch DT series 4-pin male compatible

			Signal Output	CAN bus J1939.Pin 1:GND, PIN 2: V+, Pin 3:CAN Low, Pin 4: Can High or more
			Range	+/- 180° pitch, +/- 75° roll, +/- 2 G acceleration, +/- 200°/s rate of rotation
			Output Rate	1, 25, 50, 250 Hz configurable
			Low dynamic tilt accuracy	+/- 0.1° Less than 1.5 meters per second or equivalent.
			High dynamic tilt accuracy	+/- 0.5°
			Dynamic Accuracy Limit	300°/s or Better
			Operating Vibration Limit	5 G peak or Better
			Supply Voltage	9 ~ 30 V DC
			Power Supply Protection	Any polarity up to 36 V
			Environment Protection	IP67 or Better
iii	Rugged Computer to Run On-dredge Marine Software	01 No	Rugged Computer	Rugged vehicle type computer running windows 10 & UPS with a separate screen with OEM specified specification to run on-dredge Marine Software with power cable carrying bag and other related accessories
iv	On Dredge Software	01 No	<p>The software should supports visualization and monitoring of the angle and position of the ladder and cutter head.</p> <p>It also should shows the absolute position of the dredge head in relation to the surveyed and any number of design surfaces.</p> <p>The working surface should be updated with the dredged depths in real time and displayed in plan, profile and 3D views.</p> <p>Over-dredge and under-dredge tolerances can be set and are visible on the profile view of the dredge head.</p> <p>The software should support customizable interface: Multiple monitors, with independent layouts can be tailored to the needs of the dredge operator. A color-coded plan view and 3D rendering highlights high and low spots.</p> <p>The surface Digital Terrain Model (DTM) is updated in real time registering the progress of the dredging work showing depth, differential and production models all updated according to progress of the cutter head.</p> <p>Should support Continuous data logging for as build and volume reports.</p> <p>Should support Dredge tolerance visualization provides guidance for accurate, efficient dredging productivity.</p> <p>Should be configurable by Administrator who can configure the screens for a specific workflow/user and lock it down for the operator, this helping to work on a preconfigured manner</p>	

			without any obstacle.	
			Import or build project design and survey models in the office or field.	
			Should Supports RTK for precise tide and heave calculation.	
v	GNSS Base	01 No	Measurements Specification	
			Satellite Tracking	Should be Capable of tracking, GPS, GLONASS, GALILEO, BeiDou or more
			Measuring Modes	Real-time Kinematic
			Number of Channels	400 or more
			Real Time Kinematic Accuracy	
			Horizontal	8 mm + 1 ppm or Better
			Vertical	15 mm + 1 ppm Better
			Code Differential GPS Positioning	
			Horizontal	25 cm + 1 ppm or better
			Vertical	50 cm + 1 ppm or better
			GNSS Antenna	Modular receiver and antenna
			Others	Tripod, Tribrach with optical plummet and Tribrach Adaptor for Base GNSS- 01 Set to be supplied.
			Communication	Minimum 2 External Power ports (Power ports should not be connected internally), 1 Serial Port, 1 lemo port, Bluetooth, Ethernet. Base Station should be configurable using Ethernet port
				External 35watt UHF radio for RTK Base.
			Physical and Environmental Specification	
			Operating Temperature for GNSS	-40°C to +65°C or Better
			Storage Temperature for GNSS	-40°C to +75°C or Better
			Position Update Rate	upto 20 Hz
			Water/Dust	IP67 1m water immersible/ Should be Dust proof or Better
			Power	
			Internal Battery	at least 10 Hours
			External Power	Cable to connect the system to a 12v battery should be supplied.

b. Software Supply: For Dredger.

i.	Remote Monitoring Software in Office providing real time field information to office when field dredgers are connected to office through Internet using cellular or some other communication	01 No.	<p>Should be able to view a remote dredger operation in real-time</p> <p>The views and data will be similar to what the dredge operator is viewing i.e. position of dredger and cutter depth relative to the bathymetry survey and the design surface.</p> <p>The office software can view individual dredgers as required.</p> <p>Tracking of each Dredgers productivity from Office computer</p>																												
ii	Computers	02 Nos	<p>For monitoring purpose 02 (two) Computers shall be supplied by the supplier. The minimum specifications of each of the computers are as follows:</p> <table border="1"> <thead> <tr> <th colspan="2">Minimum Specifications</th> </tr> </thead> <tbody> <tr> <td>Operating System</td> <td>Windows 10 Professional Version (Genuine)</td> </tr> <tr> <td>RAM</td> <td>8GB</td> </tr> <tr> <td>Hard Drive (GB)</td> <td>512 GB SSD</td> </tr> <tr> <td>Processor (CPU)</td> <td>64-bit processor with 4 parallel threads, Intel 5th Gen i7 or better</td> </tr> <tr> <td>Display</td> <td>Recommended: 1920×1080, Minimum: 1366×768</td> </tr> <tr> <td>Graphic Card</td> <td>DirectX Graphics Card, More than 1 GB graphics memory</td> </tr> <tr> <td>Power</td> <td>9-32 V DC input range</td> </tr> <tr> <td>USB Ports</td> <td>4</td> </tr> <tr> <td>Serial</td> <td>1 × DB9 (RS232)</td> </tr> <tr> <td>Ethernet</td> <td>1 × RJ45</td> </tr> <tr> <td>CAN Bus</td> <td>1 × DB9(M), Compatible with IXXAT (eg. CAN-IB120/PCIe Mini)</td> </tr> <tr> <td>Mounting Bracket</td> <td>VESA 100 mm × 100 mm</td> </tr> <tr> <td>Shock</td> <td>10G Peak Acceleration (11 msec duration)</td> </tr> </tbody> </table> <p>All Computers including Rugged Computers shall be configured with the Genuine Windows 10 along with Anti-Virus (Kaspersky).</p>	Minimum Specifications		Operating System	Windows 10 Professional Version (Genuine)	RAM	8GB	Hard Drive (GB)	512 GB SSD	Processor (CPU)	64-bit processor with 4 parallel threads, Intel 5th Gen i7 or better	Display	Recommended: 1920×1080, Minimum: 1366×768	Graphic Card	DirectX Graphics Card, More than 1 GB graphics memory	Power	9-32 V DC input range	USB Ports	4	Serial	1 × DB9 (RS232)	Ethernet	1 × RJ45	CAN Bus	1 × DB9(M), Compatible with IXXAT (eg. CAN-IB120/PCIe Mini)	Mounting Bracket	VESA 100 mm × 100 mm	Shock	10G Peak Acceleration (11 msec duration)
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Country of origin for online monitoring system- USA/CANADA/JAPAN/EU Countries/Australia/UK/ New Zealand/Mexico

- c. Complete Local Training on GNSS RTK based Real Time Dredge Monitoring Solution for Pontoon Mounted Grab Dredgers is to be arranged for 10 (ten) BIWTA engineers for 10 (ten) days and 3 (Three) days training every 3 (Three) months up to (01) one year by the supplier's own cost through Original Equipment Manufacturer. Accommodation, food, transport and all other allowances for the trainers to be borne by the supplier.

1.31. 01 No. 4K camera standard Drone shall be supplied. Details Technical Specification is given below.

Item No	Name of Item or Related Service	Technical Specification and Standards
1	2	
	Aircraft	
01	Weight (Battery & Propellers Included)	To be Mentioned
02	Diagonal Size (Propellers Excluded)	To be Mentioned
03	Speed	Approx. 70 kph
04	Tilt Angle	Min 42°
05	Flight Time	Min 30 minutes
	Vision System	
06	Vision System	Forward Vision System Backward Vision System Downward Vision System
07	Altitude Range	0-50 feet
	Camera	
08	Sensor	1" CMOS Effective pixels: 20M
09	Image Size	3:2 Aspect Ratio: 5472 × 3648 4:3 Aspect Ratio: 4864 × 3648 16:9 Aspect Ratio: 5472 × 3078
10	Supported SD Cards	Micro SD Min Capacity: 128GB
	App / Live View	
11	Mobile App	To be provided
12	Live View Quality	Min 720P @ 30fps
	Gimbal	
13	Stabilization	3-axis (pitch, roll, yaw)
14	Controllable Range	Pitch: -90° to +30°
15	Infrared Sensing System	To be provided
	Remote Controller	
16	Max Transmission Distance	To be mentioned
17	Battery	Sufficient power for 30 minutes flight time
18	Charger	To be provided
19	Monitor	To be provided
20	Accessories (For each Drone)	
	Battery	2 sets of extra battery to be provided.
	Car charger	1 Pcs
	Charging Hub	1 No
	Power Bank Adapter	1 No

	Propellers	2 Sets (1 set means for 01 complete drone)
	Shoulder Bag	1 No
	Sandisk Extreme SD card	1 No
	Tempered Glass Screen Protectors	2 Nos
	Landing Pad PRO for Drone	1 No
	Drone Care Kit	To be provided

1.32. Tools for general maintenance and special tools for all crane, engines, pump, hydraulic system, electric system and other works to be provided.

All tools must be EU countries/Australia/USA/Canada/Japan origin.

1.33 NAPA Software System and Hardware

Tenderer has to provide NAPA Perpetual License for single user. Software System, which will be used for design and calculation of ships and other floating structures, must include following packages:

Sl. No.	SYSTEM FUNCTIONS
1	Common system functions
1.1	Common System Features
1.2	Hull Form and Basic Geometry (GM)
1.3	Ship Model (SM)
1.4	Links to and from CADMATIC
1.5	Links to FORAN
1.6	NAPA 3D CAD Exchange
2	Naval Architectural subsystems
2.1	Hydrostatics (HD)
2.2	Capacities (CP)
2.3	Loading Conditions (LD)
2.4	Stability Criteria (CR)
2.5	Damage Stability (DA)
2.6	Launching (LN)
2.7	Grain Stability (GS)
2.8	Container Loading (CL)
2.9	Freeboard Calculation (FRB)
2.10	Offshore Structure Stability (OSS)
2.11	Emergency Response (ER)
3	Hydrodynamics subsystems
3.1	Resistance and Propulsion (SH)
3.2	Seakeeping (SHS)
3.3	Maneuvering (SHM)
3.4	Seakeeping 3D Panel Method (SOUR)

In addition to this, tenderer has to arrange training session for at least 10 days. Training have to be provided by software manufacturer company's professional trainer. Training will be provided for minimum 10 engineers from BIWTA. Training session may hold in Bangladesh or abroad.

Additional maintenance and support service will have to be made available for at least one year.

Tenderer also has to provide one computer with necessary components and configuration recommended by software manufacturer. The configuration has to be mentioned while submitting tenders.

A-2: AUXILIARIES AND SERVICES FOR VESSEL

1. Training in Bangladesh

On job training is to be arranged for Engineers & Operators (dredger operation crew, engine room crew and repair & maintenance crew) on all equipment of dredger.

The training period should be at least 10 (ten) days for 10 (ten) persons. The training is to be held within the warranty period.

Accommodation, food, transport and all allowances to be arranged by the supplier for the trainees.

2. Cost of test-trial.

During test-trial, all Cost of operation including diesel fuel, lub oil, gear oil etc. shall be borne by the supplier. Test-trial shall be done for minimum 50 hours.

3. Operation contract for dredgers

Requirement:

Skilled operation crew (Local/Foreign) for operation of the dredgers.

Operation period:

12 (Twelve) months.

Working period-12 hours x 6 days per week.

Skill Level:

1) 2 Nos. Skilled Dredger Master/Operator/Lever man (Local/Foreign) of is to be engaged. The average production output of dredger achieved should be at least 90% of the rated capacity. This may be calculated on weekly basis. Should be capable of planning the dredging operator independently as per project requirement in consultation with the project engineers. Above mentioned manpower Should be able to communicate in English.

2) 1 no. Driver & 2 engine crews (Local/Foreign) shall be provided.

Cost of travel and accommodation etc:

All expenses for operation contract including travel, fooding, boarding, lodging etc. shall be borne by the supplier.

Supporting Crew:

Other Supporting Crew for dredger will be provided by the employer (BIWTA).

Cost of operation:

Cost of fuel, lub oil etc. will be arranged by the BIWTA.

4. Drawing

At the time of tender submission, the following drawings and calculations shall be submitted.

- (a) General Arrangement
- (b) Lines plan with offset table
- (c) Midship section
- (d) Preliminary stability booklet
- (e) Speed-power calculation

Prior to the execution of the work concerned, 2 (two) copies of each of the following plans and booklets shall be submitted to the Purchaser for their approval. Such approval of the Purchaser shall not relieve the supplier of his obligations under this contract. .3D general Arrangement

shall be provided to the owner before starting of construction. All the drawing will be approved by the classification Society.

- i) General arrangement
- ii) Lines & offsets
- iii) Hydrostatic curves
- iv) Cross curves
- v) Capacity plan
- vi) Sounding tables
- vii) Stability booklet
- viii) Mid-ship section
- ix) Construction profile & deck plan
- x) Shell expansion
- xi) Rudder & rudder stock
- xii) Aft ship construction
- xiii) Fore ship construction
- xiv) Hull construction plans
- xv) Painting schedule
- xvi) Welding Schedule
- xvii) Engine room arrangement
- xviii) Main engine specification & assembly
- xix) Diagram of cooling water pipe systems in engine room
- xx) Diagram of bilge, ballast and water service pipe systems in engine room
- xxi) Diagram of lubricating oil pipe system in engine room
- xxii) Diagram of fuel oil pipe system in engine room
- xxiii) Diagram of main electric feeder circuits
- xxiv) Diagram of electric lighting, navigation aids etc., feeder circuits
- xxv) Main switchboard assembly plan & connecting diagram
- xxvi) Fire plan
- xxvii) Any other drawing if necessary
- xxviii) A complete ships' instruction book will be delivered and the owner giving details of all machinery and equipment's

2 (two) copies of each of the following plans and booklets shall be submitted to the Purchaser for their approval after construction of vessel and before test & trial.

- i) Lists of deck inventories
- ii) List of spares, tools and outfit of machinery part
- iii) List of spares and accessories of electric part
- iv) Schedule of inclining test
- v) Schedule of official sea trials
- vi) Schedule of various test and trials to be attested by Purchaser.

Upon the delivery of the vessel, the following final plans (three copies) and booklets (two copies) shall be prepared and delivered to the purchaser.

- a. Capacity plan with tanks & deadweight scales
- b. Final calculation for weight, trim and stability
- c. Final stability booklet
- d. Results of inclining test
- e. Results of official sea trials

- f. Results of various tests and trials for machinery part
- g. Results of various tests & trials for electric part
- h. Docking plan
- i. Arrangement of safety equipment
- j. Generators
- k. Main Engine
- l. G.A and other relevant drawings to be supplied
- m. As built (Finished) drawing (Hard & Soft copy) for dredger shall be provided during delivery.
- n. Instruction catalogue for dredgers, hydraulic & electric system, engines, generator and all other accessories to be supplied in English language.
- o. Instruction catalogue for handling/Controlling the grab crane, Load and Range diagram of the hydraulic crane, detailed drawing and specification of every parts and joints of the grab crane and detailed crane foundation drawing on deck to be supplied in English language.
- p. Opening and closing mechanism with side positioning, the connecting mechanism with bucket teeth and the edge plate of the grab bucket to be supplied in English language.
- q. Spare parts books for all components to be supplied in English language.
- r. All Production Drawing (Hard & Soft copy) shall be provided during delivery.

A prototype model for Pontoon Mounted Grab Dredger to be provided having length approximately 0.75m

B. Self-Propelled Split-Type Dredge-Material carrying Hopper Barge

Part 1: General Particulars

1.1 Intent

A brief guideline specification of the split hopper barge with accessories are given here under. The tenderer has to submit detailed specification of each and every item with its description, drawing, data etc. as required.

Bangladesh is a tropical Country. As such all the equipment to be supplied should be suitable for climate of Bangladesh. The recorded temperature is in the range of 10°C to 40°C and relative humidity is in the range of 60% to 80%.

The intent of these specifications is to describe a Split hopper barge to be used for carrying of spoil to fulfill the requirements of BIWTA.

The Hull of the barge including its machinery shall be built and classed for 'Coastal Area' under the rules and regulations of International Association of Classification Societies (IACS) of Lloyds/ABS/NKK/DNV.GL/BV. The appropriate class notations for fully classed hull and fully classed machinery to be mentioned in the offer:

Full Class Notation (Hull):

Means ship's hull design, hull materials used and constructions done under the proposed class societies Special Survey in full compliance with the Rules and regulations. Hull notation shall be mentioned at the technical specification, Example- ✕100A1 or Equivalent.

Full Class Notation (Machinery):

Means all propelling and essential auxiliary machinery to be designed, constructed, installed and tested under Special Survey in accordance with proposed Classification Societies Rules and Regulations.

Propelling and essential auxiliary machinery includes machinery, equipment and systems installed for the ship to be under seagoing conditions and that are necessary for the following:

- a. Maintaining the watertight and weathertight integrity of the hull and spaces within the hull.
- b. The safety of the ship, machinery and personnel on board.
- c. The functioning and dependability of propulsion, steering and electrical systems.
- d. The operation and functioning of control engineering systems for the monitoring and safety of propulsion and steering systems.
- e. The operation and functioning of emergency machinery and equipment.

Machinery notation shall be mentioned at technical specification, Example- ✕LMC or Equivalent.

The following rules and regulations are to be complied with:

Maritime regulations of Bangladesh; Bangladesh Inland Water Ordinance,
SOLAS 1974 with latest amendments
International convention for the prevention of collision at sea 1972
International convention for load lines, 1966
IMO stability guideline including weather criteria
Other rules and regulations applicable

In addition to the class requirement for hull, machinery and equipment, classification society's standard has been followed in respect of the following:

- a. Subdivision and stability.
- b. Tonnage calculations.
- c. Firefighting appliances.
- d. Doors, windows, hatches and openings.
- e. Navigational Aids (lights and sound signals).
- f. Structural drawings, including material specifications, of the winch and/or towing hook or chain stopper.

Structural drawings, including material specifications, of the attachments to the hull structure.

In case of divergence between specification and the requirements of the classification society and the regulatory bodies, the most rigorous requirement shall prevail.

1.2 Main characteristics

Principal particulars	
Length OA (about)	62.00 m
Breadth (about)	12.50 m
Depth (about)	4.50 m
Draught (maximum)	3.30 m
Trail speed loaded (Minimum)	10 knots
Hopper Capacity (Minimum)	1200 m3
Complement	7 persons
Fresh water tank capacity (Minimum)	25000 liters
Propelling Machinery	
Number of engines	2 nos.
Type	Marine Engines of reputed make.
Country of origin	EU Countries/UK/USA/ Australia/ Canada/Japan.
Power	Appropriate (approx.700KW X 2) power for a loaded barge at a trial speed of 10.00 knots minimum.
RPM	Not exceeding 1800.
Fuel capacity (minimum)	40000 liters

1.3 Vessel Design

- a) Hull and deckhouse are of all welded steel construction.
- b) The vessel is longitudinally divided into two identical watertight sections. Both sections are connected to each other by means of heavily constructed deck hinges and hydraulic cylinders, hinged fitted below deck in special recesses. All hinges are of special designed heavy construction.

- c) Capable to transport sand, silt, clay, gravel.
- d) The hopper has vertical walls and sloped bottom for easy discharge of the cargo, especially with sticky material.
- e) The hopper is fitted with a hopper sealing, which assures sealing in both directions.
- f) Opening and closing of the vessel is affected by means of a hydraulic system.
- g) The hydraulic opening/closing system is electric remote controlled from the wheel house. This system provides for fully positive controlled opening and closing in an automatic sequence for each pre-selected mode.
- h) Air-conditioned accommodation space is arranged above main deck level at aft deck.

1.4 Materials & Workmanship

The Builder shall supply all materials, equipment and machinery required for completion of the vessel. All these materials and equipment supplied shall be new and marine quality and also in accordance with the rules and regulations mentioned above and also other requirements of the regulatory bodies concerned.

Steel materials used for the vessel shall be open-hearth or electric furnace processed mild steel of a good and uniform quality certified by the Classification Society for compliance with its rules. All timber will be free from rots, saps and shakes and reasonably free from knots, and also well-seasoned. All plywood will be of marine quality.

All workmanship and inspection of the construction of the vessel shall be in accordance with the rules and regulations of classification society.

1.5 Plans and Instruction manuals

At the time of tender submission, the following drawings and calculations shall be submitted.

- (a) General Arrangement
- (b) Lines plan with offset table
- (c) Midship section
- (d) Preliminary stability booklet
- (e) Speed-power calculation

Prior to the execution of the work concerned, 2 (two) copies of each of the following plans and booklets shall be submitted to the Purchaser for their approval. Such approval of the Purchaser shall not relieve the supplier of his obligations under this contract. 3D general Arrangement shall be provided to the owner before starting of construction. All the drawing will be approved by the classification Society.

- i) General arrangement
- ii) Lines & offsets
- iii) Hydrostatic curves
- iv) Cross curves
- v) Capacity plan
- vi) Sounding tables
- vii) Stability booklet
- viii) Mid-ship section
- ix) Construction profile & deck plan

- x) Shell expansion
- xi) Rudder & rudder stock
- xii) Aft ship construction
- xiii) Fore ship construction
- xiv) Hull construction plans
- xv) Steering gear arrangements
- xvi) Painting schedule
- xvii) Welding Schedule
- xviii) Engine room arrangement
- xix) Main engine specification & assembly
- xx) Auxiliary engine specification & assembly
- xxi) Hydraulic System specification and assembly plan
- xxii) Diagram of cooling water pipe systems in engine room
- xxiii) Diagram of bilge, ballast and water service pipe systems in engine room
- xxiv) Diagram of lubricating oil pipe system in engine room
- xxv) Diagram of fuel oil pipe system in engine room
- xxvi) Diagram of main electric feeder circuits
- xxvii) Diagram of electric lighting, navigation aids etc., feeder circuits
- xxviii) Main switchboard assembly plan & connecting diagram
- xxix) Fire plan
- xxx) Any other drawing if necessary
- xxxi) A complete ships' instruction book will be delivered and the owner giving details of all machinery and equipment's

2 (two) copies of each of the following plans and booklets shall be submitted to the Purchaser for their approval after construction of vessel and before test & trial.

- i) Lists of deck inventories
- ii) List of spares, tools and outfit of machinery part
- iii) List of spares and accessories of electric part
- iv) Schedule of inclining test
- v) Schedule of official sea trials
- vi) Schedule of various test and trials to be attested by Purchaser.

Upon the delivery of the vessel, the following final plans (three copies) and booklets (two copies) shall be prepared and delivered to the purchaser.

- a. Capacity plan with tanks & deadweight scales
- b. Final calculation for weight, trim and stability
- c. Final stability booklet
- d. Results of inclining test
- e. Results of official sea trials
- f. Results of various tests and trials for machinery part
- g. Results of various tests & trials for electric part
- h. Docking plan
- i. General arrangement
- j. Arrangement of safety equipment
- k. Steering gear arrangement
- l. Main engine
- m. Generators

- n. As built drawing (Hard & Soft copy) shall be provided during delivery- 3 sets.

Part 2: Hull

2.1 Steel Work in General

Steel for hull fabrication including super structures shall be class certified under which class vessel shall be built.

The hull including superstructures shall be constructed of steel throughout on the longitudinal system of framing. Suitable/uniform continuity of structural members in the basic hull structure shall be maintained, and where members are discontinuous, continuity shall be provided with by means of suitable tapers, overlaps, doubler plates and/or brackets. Bulb Profiles (HP) should be used as the stiffeners of barge. All the Bulb Profiles and steel plates must be certified by Classification Society appointed by the supplier. Necessary documents/certificates must be provided to the purchaser for the evidence that all the MS plates and bulb profiles are certified by the above-mentioned class.

The workmanship shall be such as to ensure reasonable fair lines and smooth surfaces, attention shall be given to the neatness of structural connections. Cuts in structures for engineering systems such as ventilating ducts, piping systems and electrical cables shall be made according to standard shipbuilding practice, and portions unduly weakened by cutting such holes shall be suitably compensated.

2.2 Hull Scantlings:

The hull hunting scantlings shall be as per the rules of classification society.

2.3 Welding

All welding consumables shall be particular class type approved under which ship will be built and from a reputed and well-known source.

All welding shall be of excellent quality, homogeneous and adequate strength. Electric arc welding shall be applied to all connections of structural members. Welding of any structural members shall only be made after preparing the edges properly as per shipbuilding practice and as per welding drawing. The materials and the procedure of welding will comply with the requirements of the Classification Society regarding welding.

NDT (Non-destructive Testing) examination shall be carried out for junctures of seam and butt of bottom shell, deck and where necessary. An examination report of NDT shall be approved by the owner's representative.

Non-Destructive test (NDT) for welding.

For detection of surface imperfections visual testing (VT), liquid penetrant testing (PT) and magnetic particle testing (MT) shall be used. For detection of internal imperfections ultrasonic testing (UT) and radiographic testing (RT) shall be used.

2.4 Hopper Details

- a) Hopper Plate Angle: To be Mentioned (For opening & closing).
- b) Hopper Maximum Opening (maximum): 40m X 3m
Hopper Plate Thickness: Minimum 25 mm.

2.5 Split Hydraulic Cylinders

- a) Dimension of Piston, Rod & Stroke (approx.): 2 x f 500mm Piston x f 220mm Rod x 2700 Stroke
- b) Pressure of Split Hydraulic & Mooring: To be Mentioned.

2.6 Hull Fittings

2.6.1 Mast

A steel mast shall be erected on the wheelhouse top to carry mast lamp brackets and a halyard for hoisting flags and spreading antennas. The mast shall be collapsible/foldable type. On the wheelhouse top two steel board light boxes shall be placed for the Port Side and Starboard Board lights.

2.6.2.1 Capstan

The capstan for handling chain cables/mooring ropes shall be subjected to Classification society requirement and approval.

2.6.2.2 Mooring & Anchoring

Double bollards size and thickness shall be provided as per Class standard and shall be arranged on the fore and aft, at port side and starboard side on the main deck.

The mooring & anchoring gear should be subjected to class approval.

The anchors & chains should be subjected to classification society requirement and shall be class certified.

2.6.3 Fender

Steel fender consisting of a welded half-round pipe of 200 mm diameter and 8 mm thickness shall be provided at all around deck level of the vessel. Necessary tire fenders will have to be provided.

2.6.4 Stairways, Ladders and Steps

All stairways shall be of steel. These stairways shall have non-skid treads and galvanized tubular steel handrails. Steel vertical ladders shall be fitted for access to the wheelhouse top, etc.

The minimum width of stairways on the exposed decks subjected to classification society requirements.

2.6.5 Hatches and Manholes

On the main deck and above the engine room, one large watertight hatch shall be fitted for engine removal. The engine room entrance to be situated against the wheelhouse and shall be provided with a watertight hatch on a raised coaming. For the store and the forepeak, watertight hatch shall be provided. Oval manholes shall be provided for access to tanks. Bolted flush steel covers shall close these manholes.

Hatch covers and others manhole covers shall be designed as per classification rules and duly approved by the class and certified as applicable.

2.6.6 Doors

The wheelhouse shall have marine quality hinged aluminum alloy water tight door which shall be class approved and class certified.

2.6.7 Watertight Doors.

All watertight doors should be Marine quality & class approved and class certified.

2.6.8 Windows

All Windows Should be Marine quality & class approved and class certified.

- a. All windows have been made of aluminium alloy frame with toughened safety glass. These are fixed type.
- b. Two sets of clear view screen have been fitted with the front windows of bridge.
- c. Front and aft windows have been fitted with wiper and spray fresh water pipe connected to domestic fresh water line are led over bridge front window for washing the window.

2.6.9 Natural lighting and Ventilation

One ventilation cowl shall be provided for adequate natural ventilation of the engine room. Light alloy framed windows of fixed and hinged up type shall be fitted on walls of the wheelhouse. Extruded aluminum glassed with minimum 8mm thick glass fitted with long bolts and phenol resin washer shall be provided. A clear view screen (Appropriate Dia) shall be provided. Natural lighting and ventilation system will be arranged as per standard shipbuilding practice.

2.6.10 Sound Signal

On the wheelhouse top an air whistle shall be fitted, fed by an air compressor fitted in the steering wheel casing.

2.6.11 Life Saving Appliances

The SOLAS approved lifesaving and signal appliances shall be supplied. Lifesaving appliances should be subjected to classification society type approved and type approved certificates shall be provided. Items for life saving appliances which is required by classification society's plan approval must be supplied by the tenderer.

All the lifesaving appliances should be subjected to classification society requirements and approval or as per IACS 99.

Necessary number of buoys, life jackets, and self-activating water lights have to be provided according to the number of persons.

2.6.12 Fire Fighting Systems and Appliances

Fire main pipeline shall be installed along one side of the main deck. This line shall be fed with river water by the general service pump and the bilge and ballast pump. Hydrants shall be suitably arranged on the fire main line so that any part of the vessel can be reached by a powerful water-jet. Canvas fire hoses of required dia and length, complete with nozzle, shall be supplied and stowed in red paint cases. Portable fire extinguishers shall be supplied as specified elsewhere as per the requirement of the rules and regulations of IACS. Firefighting appliances shall be provided as per approved Fire safety plan by classification society. All FFA items shall be class type approved.

2.6.13 Cathodic Protection

The vessel shall be equipped with a cathodic hull protection system for the underwater portions of the hull and rudder with sufficient anodes as per standard shipbuilding practice.

2.6.14 Markings

The ship's name both in English and Bengali alphabets and the draft marks in numerical in metric scale shall be cut from steel plate and welded on the shell, and painted as directed by the purchaser. Draft marks shall be fitted at the bow, stern and amidships in metric scale.

Names of rooms in English language will be engraved on plastic plates and displayed over the entrance doors to these rooms.

The load line marking should be subjected to class approval as applicable.

2.7 Wheelhouse

The following accessories shall be provided with the vessel.

Sl. no.	Items	Quantity (nos.)
1	Fan	1
2	Compass table	1
3	Steering pedestal	1
4	Foot grating	1
5	Flag rack	1
6	Magnetic compass	1
7	Binocular	1
8	Nav. lamp indicator	1
9	Voice tube	1
10	Thermometer	1
11	Clear view screen	1
12	Engine remote control console	1
13	High chair	1
14	Hand Mike	1
15	Main propulsion engines control console	1

In addition to these 01 (one) Laptop (Latest Model), 01(one) Desktop Computer (Latest Processor and other components with UPS & Printer) shall be provided.

2.8 PIPING

2.8.1 Piping in General:

Pipes, valves, cocks, flange, etc. will be of such qualities and dimensions as to comply with the requirements of the Classification Society and as per approved drawing. Pipes will be efficiently supported or embraced to stand up to probable vibrations. Where pipes pass through watertight bulkheads or decks, bulkhead or deck pieces will be fitted. Where the danger of mechanical damage is expected, pipes will be well protected by means of wooden or steel covering or guards. Sufficient number of sectionals shut-off valves will be provided for all systems so that any section can be shut-off for repair and maintenance.

2.8.2 Pipe Materials:

Pipes will generally be steel pipes of such qualities and dimensions as to comply with the requirements of the Classification Society. In General for all piping system thickness, types and schedule of the pipes shall be maintained as per approved drawing by the class. Galvanized pipes and flanges will be used for piping not coming into contact with oil.

2.8.3 Valves and Connection Pieces:

All the Valves onboard shall be as per classification society requirements.

Country of origin : EU Countries/ UK/USA/ Australia / Canada/ Japan.

2.9 Painting

As per requirement of classification society/ Purchaser's requirement. Colors are to be approved by the Owner.

Floor tiles of marine quality will have to be provided in all living spaces including bridge.

2.9.1 Surface Preparation

Prior to any sand/grit/wet blasting, all sea chests strainer plates shall be removed and all hull openings, transducers, anodes, waster pieces, bearings, stern tube openings, fiber glass covers (over shafts and domes) and propellers shall be plugged, covered, and otherwise protected from damage or contamination during surface preparation and coating application.

All steel surfaces shall be prepared to near white, blasted to SA 2½ standard.

After sand/grit/wet blasting, surfaces shall be brushed with clean brushes, blown off with compressed air, or cleaned by vacuum to remove all traces of blast products and dust.

The surfaces to be painted shall have the specified surface preparation at the time of application of the paint. If the surface is degraded or contaminated subsequent to surface preparation and prior to painting, the surface shall be restored before paint application.

In order to prevent degradation or contamination of the prepared surfaces, the first coat of paint shall be applied as soon as possible after the surfaces have been prepared. The first coat shall always be applied the same day as surface preparation is completed. Succeeding coats shall be applied before contamination of the under surface occurs.

After surface preparation, surfaces shall be brushed with clean brushes, blown off with compressed air, or cleaned by vacuum to remove all traces of blast products and dust.

Whenever sand/grit/wet blasting or spray painting is specified for surface preparation of exterior steel surfaces in places where applicable regulations and laws prohibit release of blast materials and paint into the atmosphere, the surfaces shall be enclosed in a cover adequate to contain the blast materials and paint.

Cleaning and painting shall be so scheduled that detrimental amounts of dust or other contaminants do not fall on wet, newly painted surfaces.

2.10 Deck Inventory

2.10.1 Anchors, Chain Cables, Ropes and Winch

The following deck machinery shall be provided. Anchor, Anchor chain cable, Wire Rope, Anchor Shackle, Joining Shackle, Chain hook shall be provided as per rules of classification society.

2.10.2 Navigation and communication equipment

The following navigation and firefighting equipment shall be provided.

- Magnetic standard compass, with periscope type repeater in ceiling.
- Gyro compass, with repeater in navigation control desk.
- Steering control panel.
- Auto pilot.
- Universal automatic identification system (AIS).
- Navigation echo-sounding equipment.
- Water track speed log.
- Radar installation, 3 cm (9GHz)
- Differential Global positioning system (DGPS) for navigation purposes.
- Radio communication and safety equipment (GMDSS – A2) including:
 - Two 25 Watt simplex/semi duplex VHF radio telephones
 - One MF/HF radio telephone
 - One GMDSS battery/ charger/ box/ fuses
 - One EPIRB bacon
 - Two SART
 - Three portable GMDSS VHF transceivers
 - Draught and loading calculator (DLC)
 - Wind speed and direction measuring system
 - Navigation lights
 - Dredging lights
 - Day signals
 - Daylight signaling lamp (Aldis)
 - Whistle, with automatic control unit
 - Searchlight with 1000W lamp

Country of Origin for Navigation and communication equipment: EU Countries/UK/ USA/ Australia/ Canada/ Japan

All navigational equipment shall be of class type approved.

2.11 Accommodation Space:

2.11.1 Hardware:

All doors will be fitted with hinges, locks, hooks, handles, etc. as necessary. Doors of the toilets will have indicator bolts, and lockers and wardrobe will be fitted with suitable locks. Hardware will be of light alloy, chromium plated brass or equivalent. Keys of each lock will be supplied in duplicate. **AC unit will be provided at officer's cabin. Fire doors and watertight doors subjected to class approved and certified.**

2.11.2 Furniture Application for Living Spaces and Bridge.

Living Spaces and Bridge will be furnished as per standard practice.

Name of Place/Location	Allocated Person	Particulars
Officer's Cabin	01	One double Air-conditioned cabin with attached bathroom, toilet, shower and bed each with drawer, desk, arm chair, wardrobe, book rack, minimum 42 inch smart LED color TV (Samsung/Sony), mirror, file cabinet, clock, ash tray, waste basket, shoe rack etc. One combination shelf of suitable size.
Master and Driver Room	02	Two cabins with bed each with drawer, desk, wardrobe, mirror, filing cabinet, clock, ash tray, waste basket, shoe rack etc. One combination shelf of suitable size.
Crew room	04	Two cabins with 2x two tier beds with drawers, table, armless chair, wardrobe, book rack, mirror, shoe rack, clock, ash tray, waste basket etc.

All the furniture above mentioned should be of reputed make.

2.11.3 Fittings of Sanitary Space:

- a. Wash Basin: Stainless steel wash basins with lever type/ screw down tap, S-trap and rubber ring has been provided.
- b. Water Closet: The water closets are pedestal type for officers and Asian type for crew. Materials of the closets are vitreous china with hard plastic seat and lid. Sea water flush and one fresh water tap has been provided.
- c. Shower: The showers are swivel shoe head type.
- d. Toilet Cabinet: The material of the toilet cabinet has been molded metal with shelf inside and mirror on the hinged door. Mirror lamp will be fitted over toilet cabinet.
- e. Others- Wall mounted lavatory rack and mirror with the wash basins; soap holder, towel rack, hooks, toilet paper holder, sea water tape, etc. have been provided as necessary.

All the sanitary fittings should be of EU Countries/ UK/USA/ Australia / Canada/ Japan/ Malaysia.

2.11.4 Galley

The galley is having facility to cook food for minimum 12 persons. Adequate supply and exhaust blowers will be fitted to have good ventilation. Following equipment and furniture should be provided:

- a. 1 x Stainless steel sink
- b. 1 x Stainless steel working table.
- c. 1 x chopping table.
- d. 2 x Supply fan.
- e. Fresh and sea water tapes as required.
- f. Plates One Dozen
- g. Stainless steel Bowl Half Dozon
- h. Jug 3 nos.
- i. Glass Two Dozen
- j. Gas stove 2 nos. (Double Burner)
- k. Cutlery Set 2 nos.
- l. Kitchen Rack 2 Nos.
- m. Knife Set 2 nos.
- n. Sitting metal knife (Boti) 3 nos.
- o. Water preserving Drum (150 Litres) 2 nos.
- p. Shelves, cupboards etc .
- q. Others item as required.

Provision for sufficient ventilation will be made including one number electric motor driven exhaust fan of adequate capacity.

2.11.5 Mess Room

The mess room shall be provided with the following items:

- i. A Dining Table with chairs sufficient for 12 persons.
- ii. 1 Refrigerator (Minimum 200 liters).
- iii. 1 LED color TV (42 inch) of latest model.
- iv. 1 Glass rack
- v. 1 Wall clock
- vi. 1 Basin
- vii. 1 Wall Cabinet
- viii. 2 Waste Basket
- ix. 2 Serving Tray
- x. Other items as required.

Part 3: Machinery

3.1 General Description

The whole machinery, installations and supply of spare parts will comply with the requirements of the Classification Society and other rules and regulations concerned.

All such machinery shall be new and of reputed make, popular and well known in World and have proven satisfactory after sales service and spare parts facilities.

All necessary auxiliary machinery, heat exchangers, tanks and other miscellaneous equipment will be installed for satisfactory operation of the vessel according to the requirements of the Classification Society and other governing bodies concerned.

3.2 Shafting and Propellers

The propeller diameter, pitch and other particulars specified by the propulsion design to achieve maximum fuel efficiency and to keep cavitation as low as possible (should not exceed 5%) with minimum vibration. The propeller shaft will be of high-quality duplex stainless steel and covered with proper material in way of after bearing. The propulsion calculation shall be submitted with the offer. Propeller Shafts shall be of class certified materials and designed shall be class approved. Propeller shall be class certified materials and designed shall be class approved.

3.3 Hydraulic system

All Hydraulic pump & motor of proven design to be used for operation of opening/closing of hopper. All components are to be of proven design for trouble free operation.
Country of origin : EU Countries/USA/ UK/ Australia/ Canada/ Japan.

3.4 Steering Gear

One hydraulic steering system shall be provided with steering stand in wheelhouse. In case of failure of the system, alternative (Manual steering) arrangement shall be provided. The steering gear system should be subjected to class approval.

Country of Origin- EU Countries/USA/UK/Australia/ Canada/Japan.

3.5 Pumps

All pumps and valves shall be class certified. And country of origin will be EU Countries/USA/UK/Australia/ Canada/Japan.

The Type , Quantity, & capacity of pumps shall be submitted with the offer.

3.6 Air-conditioning and ventilation

Air-conditioning systems are provided serving the accommodation spaces and wheel house. Capacities installed are suitable for the climate conditions of Bangladesh. Ventilation supply and exhaust systems are provided where required for maintaining proper inside conditions or proper functioning of installed equipment.

3.7 Engine Room Ventilation

For adequate natural ventilation of the engine room one ventilation cowl shall be provided.

3.8 Engine Exhaust

Insulated exhaust pipes with silencers shall be provided as required for end exhaust.

3.9 Control and Alarms

In wheel house, fuel & running hour meter to be provided.

3.10 Navigational Panel

All the wooden works of bridge deck including navigational panel should be of marine quality plywood/wood.

Country of origin of plywood/wood - To be mentioned.

Navigation light panels shall be class certified. Navigation lights shall be of class type approved.

3.11 Generators

Generators of reputed make and class certified.

Appropriate Power (Minimum 40 KW X 2, 220/400V, 50 Hz) to suite necessary requirement for operation of Split Hopper Barge.

RPM (Maximum): 1500

Country of Origin: EU countries/UK/USA/Australia/Canada/Japan

3.12 Tools

Special tools for overhauling, control, adjustment and maintenance of engine, shafting, pumps, etc. shall be supplied in accordance with the normal standards.

All tools must be EU countries/UK/USA/Australia/Canada/Japan origin

Part 4: Electrical Installation

The whole electrical installations shall comply with the requirements of the Classification Society and other rules and regulations concerned. Machinery, equipment and their accessories shall be of good designs and substantial makes, assuring long life and easy handling and maintenance.

Main Switch board shall be class certified.

Country of Origin- EU Countries/USA/UK/Australia/ Canada/Japan /Malaysia

4.1 Clear view Screen

One standard clear view screen shall be fitted in one of the front windows of the wheelhouse.

4.2 Switchboard

The main switchboard & emergency switchboard shall be class approved and certified.

Country of origin: EU Countries/ UK/USA/ Australia / Canada/ Japan.

5.0 Communication Equipment:

DGPS, Navigational Echo sounder, VHF Radio, SSB Set and RADAR shall be provided. All navigational equipment shall be as per class requirement and class type approved.

Country of Origin: USA/UK/Canada/ EU Countries/ Japan/Australia

C: Self-propelled Dredge material carrying Barge:

Part 1: General Particulars

1.1 Intent

A brief guideline specification of the Self-propelled Dredge material carrying Barge with accessories are given here under. The tenderer has to submit detailed specification of each and every item with its description, drawing, data etc. as required.

Bangladesh is a tropical Country. As such all the equipment to be supplied should be suitable for climate of Bangladesh. The recorded temperature is in the range of 10°C to 40°C and relative humidity is in the range of 60% to 80%.

The intent of these specifications is to describe a Self-propelled barge to be used for carrying of Dredge material to fulfill the requirements of BIWTA.

The Hull of the barge including its machinery shall be built and classed under the rules and regulations of International Association of Classification Societies (IACS) of Lloyds/ABS/NKK/DNV.GL/BV. The appropriate class notations for fully classed hull and fully classed machinery to be mentioned in the offer:

Full Class Notation (Hull):

Means ship's hull design, hull materials used and constructions done under the proposed class societies Special Survey in full compliance with the Rules and regulations. Hull notation shall be mentioned at the technical specification, Example- ✕100A1 or Equivalent.

Full Class Notation (Machinery):

Means all propelling and essential auxiliary machinery to be designed, constructed, installed and tested under Special Survey in accordance with proposed call societies Rules and Regulations.

Propelling and essential auxiliary machinery includes machinery, equipment and systems installed for the ship to be under seagoing conditions and that are necessary for the following:

- a. Maintaining the watertight and weathertight integrity of the hull and spaces within the hull.
- b. The safety of the ship, machinery and personnel on board.
- c. The functioning and dependability of propulsion, steering and electrical systems.
- d. The operation and functioning of control engineering systems for the monitoring and safety of propulsion and steering systems.
- e. The operation and functioning of emergency machinery and equipment.

Machinery notation shall be mentioned at technical specification, Example- ✕LMC or Equivalent.

The following rules and regulations are to be complied with:

Maritime regulations of Bangladesh; Bangladesh Inland Water Ordinance,
SOLAS 1974 with latest amendments

International convention for the prevention of collision at sea 1972

International convention for load lines, 1966

IMO stability guideline including weather criteria

Other rules and regulations applicable

In addition to the class requirement for hull, machinery and equipment, classification society's standard has been followed in respect of the following:

- a. Subdivision and stability.
- b. Tonnage calculations.
- c. Firefighting appliances.
- d. Doors, windows, hatches and openings.
- e. Navigational Aids (lights and sound signals).
- f. Structural drawings, including material specifications of the winch and/or towing hook or chain stopper.

Structural drawings, including material specifications of the attachments to the hull structure.

In case of divergence between specification and the requirements of the classification society and the regulatory bodies, the most rigorous requirement shall prevail.

1.2 Principal Particulars

Length OA (about)	60.00 m
Breadth mld (about)	12.00 m
Depth mld (about)	4.00 m
Draught loaded	3.00 m (maximum)
Hopper Capacity (Minimum)	1200 m ³
Trail speed loaded (Minimum)	10 knots
Complement	7 persons
Fresh water tank capacity (Minimum)	25000 liters
Propelling Machinery	
Number of engines	2 nos.
Type	Marine Engines of reputed make.
Country of origin	EU Countries/UK/USA/ Australia/ Canada/Japan.
Power	Appropriate (approx.700KW X 2) power for a loaded barge at a trial speed of 10.00 knots minimum.
RPM	Not exceeding 1800.
Fuel capacity (minimum)	40000 liters

1.3 General Arrangement

The vessel shall be steel body with a hold to be used for carrying dredge material.

1.4 Materials & Workmanship

The Builder shall supply all materials, equipment and machinery required for completion of the vessel. All these materials and equipment supplied shall be new and marine quality and also in accordance with the rules and regulations mentioned above and also other requirements of the regulatory bodies concerned.

Steel materials used for the vessel shall be open-hearth or electric furnace processed mild steel of a good and uniform quality certified by the Classification Society for compliance with its rules. All timber will be free from rots, saps and shakes and reasonably free from knots, and also well-seasoned. All plywood will be of marine quality.

All workmanship and inspection of the construction of the vessel shall be in accordance with the rules and regulations of classification society.

1.5 Plans and Instruction Books

At the time of tender submission, the following drawings and calculations shall be submitted.

- i. General Arrangement
- ii. Lines plan with offset table
- iii. Midship section
- iv. Preliminary stability booklet
- v. Speed-power calculation

Prior to the execution of the work concerned, 2 (two) copies of each of the following plans and booklets shall be submitted to the Purchaser for their approval. Such approval of the Purchaser shall not relieve the supplier of his obligations under this contract. 3D general Arrangement shall be provided to the owner before starting of construction. All the drawing will be approved by the classification Society.

- i. General arrangement
- ii. Lines & offsets
- iii. Hydrostatic curves
- iv. Cross curves
- v. Capacity plan
- vi. Sounding tables
- vii. Stability booklet
- viii. Mid-ship section
- ix. Construction profile & deck plan
- x. Shell expansion
- xi. Rudder & rudder stock
- xii. Aft ship construction
- xiii. Fore ship construction
- xiv. Hull construction plans
- xv. Steering gear arrangements
- xvi. Painting schedule
- xvii. Welding Schedule
- xviii. Engine room arrangement
- xix. Main engine specification & assembly

- xx. Auxiliary engine specification & assembly
- xxi. Diagram of cooling water pipe systems in engine room
- xxii. Diagram of bilge, ballast and water service pipe systems in engine room
- xxiii. Diagram of lubricating oil pipe system in engine room
- xxiv. Diagram of fuel oil pipe system in engine room
- xxv. Diagram of main electric feeder circuits
- xxvi. Diagram of electric lighting, navigation aids etc., feeder circuits
- xxvii. Main switchboard assembly plan & connecting diagram
- xxviii. Fire plan
- xxix. Any other drawing if necessary
- xxx. A complete ships' instruction book will be delivered and the owner giving details of all machinery and equipment's

2(two) copies of each of the following plans and booklets shall be submitted to the Purchaser for their approval after construction of vessel and before test & trial.

- i. Lists of deck inventories
- ii. List of spares, tools and outfit of machinery part
- iii. List of spares and accessories of electric part
- iv. Schedule of inclining test
- v. Schedule of official sea trials
- vi. Schedule of various test and trials to be attested by Purchaser.

Upon the delivery of the vessel, the following final plans (three copies) and booklets (two copies) shall be prepared and delivered to the purchaser.

- (a) Capacity plan with tanks & deadweight scales
- (b) Final calculation for weight, trim and stability
- (c) Final stability booklet
- (d) Results of inclining test
- (e) Results of official sea trials
- (f) Results of various tests and trials for machinery part
- (g) Results of various tests & trials for electric part
- (h) Docking plan
- (i) General arrangement
- (j) Arrangement of safety equipment
- (k) Steering gear arrangement
- (l) Main engine
- (m) Generators
- (n) As built drawing (Hard & Soft copy) shall be provided during delivery- 3 sets.

Part 2: Hull

2.1 Steel Work in General

Steel for hull fabrication including superstructures shall be class certified under which class vessel shall be built.

The hull including superstructures shall be constructed of steel. Suitable/uniform continuity of structural members in the basic hull structure shall be maintained and where members are

discontinuous, continuity shall be provided with by means of suitable tapers, overlaps, doubler plates and/or brackets. Bulb profiles (HP) should be used as the stiffeners of barge. All the Bulb profiles and steel plates must be certified by the Classification Society appointed by the supplier. Necessary documents/certificates must be provided to the purchaser for the evidence that all the MS plates and bulb profiles are certified by the above mentioned class.

The workmanship shall be such as to ensure reasonable fair lines and smooth surfaces, attention shall be given to the neatness of structural connections. Cuts in structures for engineering systems such as ventilating ducts, piping systems and electrical cables shall be made according to standard shipbuilding practice, and portions unduly weakened by cutting such holes shall be suitably compensated.

2.2 Hull Scantlings:

The hull scantlings shall be as per the rules and regulations of classification society.

2.3 Welding

All welding consumables shall be particular class type approved under which ship will be built and from a reputed and well-known source.

All welding shall be of excellent quality, homogeneous and adequate strength. Electric arc welding shall be applied to all connections of structural members. Welding of any structural members shall only be made after preparing the edges properly as per shipbuilding practice and as per welding drawing. The materials and the procedure of welding will comply with the requirements of the Classification Society regarding welding.

NDT (Non-destructive Testing) examination shall be carried out for junctures of seam and butt of bottom shell, deck and where necessary. An examination report of NDT shall be approved by the owner's representative and classification society.

2.4 Keel

The Keel shall be of flat plate type and properly shaped and secured.

2.5 Bottom Construction

The bottom shall be of Double bottom type.

2.6 Shell Plating

All butts and seams of the shell plating shall be welded. The shell plating in way of large openings shall be properly compensated with doubler plates or by increasing plate thickness.

2.7 Main Deck

The main deck shall be constructed with steel plates. Thicker plates or doubler plates shall be laid at corners of large openings.

2.8 Hull Fittings

2.8.1 Mast

A steel mast shall be erected on the top of superstructure to carry mast lamp brackets and a halyard for hoisting flags and spreading antennas. The mast shall be collapsible/foldable type. On the wheelhouse top two steel board light boxes shall be placed for the Port Side and Starboard Board lights.

2.8.2 Mooring & Anchoring

Double bollards of appropriate size and thickness with insert plate following the Class standard shall be arranged on the fore and aft, at port side and starboard side on the main deck. Mooring lines of appropriate strength shall be arranged on the main deck. The mooring & anchoring gear should be subjected to class approval.

2.8.3 Fender

Steel fender consisting of a welded half-round pipe of required diameter and thickness shall be provided at all around deck level of the vessel. Necessary tire fenders will have to be provided.

2.8.4 Stairways, Ladders and Steps

All stairways shall be of steel. These stairways shall have non-skid treads and galvanized tubular steel handrails. Steel vertical ladders shall be fitted for access to the wheelhouse top, etc.

The minimum width of stairways on the exposed decks subjected to classification society requirements.

2.8.5 Hatches and Manholes

Oval manholes shall be provided for access to void spaces under the main deck. Bolted flush steel covers shall close these manholes. Hatch covers and others man hole covers shall be designed as per classification rules and duly approved by the class and certified as applicable.

2.8.6 Doors

The wheelhouse shall have marine quality hinged aluminum alloy water tight door which shall be class approved and class certified.

2.8.7 Watertight Doors.

All watertight doors should be Marine quality & class approved and class certified.

2.8.8 Windows

All Windows Should be Marine quality & class approved and class certified.

- a. All windows have been made of aluminium alloy frame with toughened safety glass. These are fixed type.
- b. Two sets of clear view screen have been fitted with the front windows of bridge.
- c. Front and aft windows have been fitted with wiper and spray fresh water pipe connected to domestic fresh water line are led over bridge front window for washing the window.

2.8.9 Natural lighting and Ventilation

One ventilation cowl shall be provided for adequate natural ventilation. Light alloy framed windows of fixed and hinged up type shall be fitted on walls. Extruded aluminum glassed with 6mm thick glass fitted with long bolts and phenol resin washer shall be provided. A 300 mm dia clear view screen shall be provided. Natural lighting and ventilation system will be arranged as per standard shipbuilding practice and should be subjected to class approval.

2.8.10 Life Saving Appliances

The SOLAS approved lifesaving and signal appliances shall be supplied.

Lifesaving appliances subjected to classification society approved and type approved certificates shall be provided. Items for life saving appliances which is required by classification society's plan approval must be supplied by the tenderer.

All the lifesaving appliances should be subjected to classification society requirements and approval or as per IACS 99.

Necessary number of buoys, life jackets, and self-activating water lights have to be provided according to the number of persons.

2.8.11 Fire Fighting Systems and Appliances

A deck wash connection and fire main pipeline shall be installed along one side of the main deck. This line shall be fed with river water by the general service pump and the bilge and ballast pump. Hydrants shall be suitably arranged on the fire main line so that any part of the vessel can be reached by a powerful water-jet. Canvas fire hoses of required length, complete with nozzle shall be supplied and stowed in red paint cases. Portable fire extinguishers shall be supplied as specified elsewhere as per the requirement of the rules and regulations of classification society.

Firefighting appliances shall be provided as per approved Fire safety plan by classification society. All FFA items shall be class type approved.

2.8.12 Cathodic Protection

The vessel shall be equipped with a cathodic hull protection system for the underwater portions of the hull and rudder with sufficient zinc anodes as per the requirement of the rules and regulations of classification society.

2.8.13 Markings

The ship's name both in English and Bengali alphabets and the draft marks in numerical in metric scale shall be cut from steel plate and welded on the shell and painted as directed by the purchaser. Draft marks shall be fitted at the bow, stern and amidships in metric scale.

The load line marking should be subjected to class approval as applicable.

2.9 Coating Protection

2.9.1 Surface Preparation

Prior to any sand/grit/wet blasting, all sea chests strainer plates shall be removed and all hull openings, transducers, anodes, waster pieces shall be plugged, covered and otherwise protected from damage or contamination during surface preparation and coating application.

All steel surfaces shall be prepared to near white, blasted to SA 2½ standard.

After sand/grit/wet blasting, surfaces shall be brushed with clean brushes, blown off with compressed air or cleaned by vacuum to remove all traces of blast products and dust.

The surfaces to be painted shall have the specified surface preparation at the time of application of the paint. If the surface is degraded or contaminated subsequent to surface preparation and prior to painting, the surface shall be restored before paint application.

In order to prevent degradation or contamination of the prepared surfaces, the first coat of paint shall be applied as soon as possible after the surfaces have been prepared. The first coat shall always be applied the same day as surface preparation is completed. Succeeding coats shall be applied before contamination of the under surface occurs.

After surface preparation, surfaces shall be brushed with clean brushes, blown off with compressed air, or cleaned by vacuum to remove all traces of blast products and dust.

Whenever sand/grit/wet blasting or spray painting is specified for surface preparation of exterior steel surfaces in places where applicable regulations and laws prohibit release of blast materials and paint into the atmosphere, the surfaces shall be enclosed in a cover adequate to contain the blast materials and paint.

Cleaning and painting shall be so scheduled that detrimental amounts of dust or other contaminants do not fall on wet, newly painted surfaces.

2.10 Deck Inventory for Dredge material Carrying Self-propelled Barge

2.10.1 Anchors, Chain Cables, Ropes and Winch

2(Two) – Anchor of required capacity

2 (Two) - Chain cable, high strength, welded of required capacity

F.S. wire rope of required amount.

1(one) - Spare anchor shackle

2(Two) - Spare joining shackles

1(one) - Chain hook

1(one) - Shackle punch

1(one) -Winch with suitable capacity

2.10.2 Navigation Lights and other Lamps.

Navigational lights and other lamps shall be provided as per class requirement.

Country of origin for Navigation lights and Other Lamps- USA/UK/ Japan /EU countries/ Canada/ Australia

2.10.3 Flags, etc.

1 - Bangladesh ensign

1 - Set-hand signal flags

1 - Set-International Signal flags

1 - International code of signal

Part 3: Superstructure

3.1 Accommodation Space:

3.1.1 Hardware:

All doors will be fitted with hinges, locks, hooks, handles, etc. as necessary. Doors of the toilets will have indicator bolts, and lockers and wardrobe will be fitted with suitable locks. Hardware will be of light alloy, chromium plated brass or equivalent. Keys of each lock will be supplied in duplicate. **AC unit will be provided at officer's cabin. Fire doors and watertight doors subjected to class approved and certified.**

3.1.2 Furniture Application for Living Spaces and Bridge.

Living Spaces and Bridge will be furnished as per standard practice.

Name of Place/Location	Allocated Persons	Particulars
Officer's Cabin	01	One double Air-conditioned cabin with attached bathroom, toilet, shower and bed each with drawer, desk, arm chair, wardrobe, book rack, minimum 42 inch smart LED color TV (Samsung/Sony), mirror, file cabinet, clock, ash tray, waste basket, shoe rack etc. One combination shelf of suitable size.
Master and Driver Room	02	Two cabins with bed each with drawer, desk, wardrobe, mirror, filing cabinet, clock, waste basket, shoe rack etc. One combination shelf of suitable size.
Crew room	04	Two cabins with 2x two tier beds with drawers, table, armless chair, wardrobe, book rack, mirror, shoe rack, clock, ash tray, waste basket etc.

All the furniture above mentioned should be of reputed make.

3.2 Galley

The galley shall be provided with the following:

- a. 1 x Stainless steel sink
- b. 1 x Stainless steel working table.
- c. 1 x chopping table.
- d. 2 x Supply fan.
- e. Fresh and sea water tapes as required.
- f. Plates One Dozen
- g. Stainless steel Bowl Half Dozon
- h. Jug 3 nos.
- i. Glass Two Dozen
- j. Gas stove 2 nos. (Double Burner)
- k. Cutlery Set 2 nos.
- l. Kitchen Rack 2 Nos.
- m. Knife Set 2 nos.
- n. Sitting metal knife (Boti) 3 nos.
- o. Water preserving Drum (150 Litres) 2 nos.
- p. Shelves, cupboards etc.
- q. Others item as required.

Provision for sufficient ventilation will be made including one number electric motor driven exhaust fan of adequate capacity.

3.3 Mess Room

The mess room shall be provided with the following items:

- i. A Dining Table with chairs sufficient for 12 persons.
- ii. 1 Refrigerator (Minimum 200 liters).
- iii. 1 LED color TV (42 inch) of latest model.

- iv. 1 Glass rack
- v. 1 Wall clock
- vi. 1 Basin
- vii. 1 Wall Cabinet
- viii. 2 Waste Basket
- ix. 2 Serving Tray
- x. Other items as required.

3.4 Bathroom

The bathroom shall be provided with the following:

- a. Wash Basin: Stainless steel wash basins with lever type/ screw down tap, S-trap and rubber ring has been provided.
- b. Water Closet: The water closets are Asian type for crew.
Materials of the closets are vitreous china with hard plastic seat and lid. Sea water flush and one fresh water tap has been provided.
- c. Shower: The showers are swivel shoe head type.
- d. Toilet Cabinet: The material of the toilet cabinet has been molded metal with shelf inside and mirror on the hinged door. Mirror lamp will be fitted over toilet cabinet.
- e. Others- Wall mounted lavatory rack and mirror with the wash basins; soap holder, towel rack, hooks, toilet paper holder, sea water tape, etc. have been provided as necessary.

Country of origin of above bathroom fittings - USA/ CANADA/JAPAN/EU Countries /Australia/ UK/Malaysia/ Indonesia/Korea.

All the Door & windows shall be subjected to classification society requirement & approval

Part 4: Machinery

The whole machinery, installations and supply of spare parts will comply with the requirements of the Classification Society and other rules and regulations concerned.

All such machinery shall be new and of reputed make, popular and well known in World and have proven satisfactory after sales service and spare parts facilities.

All necessary auxiliary machinery, heat exchangers, tanks and other miscellaneous equipment will be installed for satisfactory operation of the vessel according to the requirements of the Classification Society and other governing bodies concerned.

4.1 Pumps

All pumps as required shall be supplied by the same manufacturer unless otherwise approved and the supplier should endeavor to supply pumps with interchangeable spares as far as practical.

All pumps shall be equipped with valves of approved quality and type close to the pump both on the suction and discharge side.

Pressure gauges with metric scale with a range closely related to the pressure range of the pump shall be installed.

Unless otherwise approved all pumps and electric motors shall be fitted to a common bed plate and aligned and fitted without shims. Pumps are to be secured by dowels or fitted bolts.

All pumps and valves shall be class certified. And country of origin will be EU Countries/USA/UK/Australia/ Canada/Japan.

Following pumps will must have to be provided. Other necessary pumps may also be added if design requires.

Pump Name	Quantity	Capacity
Bilge Pump or Ballast Pump or Fire Pump or General Service Pump	2	Of required capacity
Fresh Water Transfer Pump	1	Of required capacity
Sewage Pump	1	Of required capacity

4.2 Installation Standard

These are to the rules and regulations of the Classification Society.

4.3 Generator

4.3.1 Main Generator

Class certified Main Generator of required capacity shall be provided.

Country of Origin- EU Countries/USA/UK/Australia/ Canada/Japan

4.3.2 Harbor Generator

Class certified harbor Generator of required capacity shall be provided.

Country of Origin- EU Countries/USA/UK/Australia/ Canada/Japan

4.4 Cables

All cables employed for the vessel shall comply with the requirements of the classification society rules. In general, all cables are to be ERP insulated, PVC sheathed and steel wire braided marine cables. In general, cables are to be arranged and laid in a neat manner adequately supported on cable trays supported by galvanized steel hanger and fitted with supporting clips. Where cables are exposed to weather, they are to be protected by steel pipe (SGP).

4.5 Shafting and Propellers

The propeller diameter, pitch and other particulars specified by the propulsion design to achieve maximum fuel efficiency and to keep cavitation as low as possible (should not exceed 5%) with minimum vibration. The propeller shaft will be of high-quality duplex stainless steel and covered with proper material in way of after bearing. The propulsion calculation shall be submitted with the offer. Propeller Shafts shall be of class certified materials and designed shall be class approved. Propeller shall be class certified materials and designed shall be class approved.

4.6 Steering Gear

One hydraulic steering system shall be provided with steering stand in wheelhouse. In case of failure of the system, alternative (Manual steering) arrangement shall be provided. The steering gear system should be subjected to class approval.

Country of Origin- EU Countries/USA/UK/Australia/ Canada/Japan.

4.7 Engine Room Ventilation

For adequate natural ventilation of the engine room one ventilation cowl shall be provided.

4.8 Engine Exhaust

Insulated exhaust pipes with silencers shall be provided as required for end exhaust.

4.9 Control and Alarms

In wheel house, fuel & running hour meter to be provided.

4.10 Navigational Panel

All the wooden works of bridge deck including navigational panel should be of marine quality plywood/wood.

Country of origin of plywood/wood - To be mentioned.

Navigation light panels shall be class certified. Navigation lights shall be of class type approved.

4.11 Tools

Special tools for overhauling, control, adjustment and maintenance of engine, shafting, pumps, etc. shall be supplied in accordance with the normal standards.

All tools must be EU countries/UK/USA/Australia/Canada/Japan origin

Part 5: Electrical Installation

The whole electrical installations shall comply with the requirements of the Classification Society and other rules and regulations concerned. Machinery, equipment and their accessories shall be of good designs and substantial makes, assuring long life and easy handling and maintenance.

Main Switch board shall be class certified.

Country of Origin of all Electrical Lights - EU Countries/USA/UK/Australia/ Canada/Japan / Malaysia

5.1 Clear view Screen

One standard clear view screen shall be fitted in one of the front windows of the wheelhouse.

5.2 Switchboard

The main switchboard & emergency switchboard shall be class approved and certified.

Country of origin: EU Countries/ UK/USA/ Australia / Canada/ Japan.

6.0 Communication Equipment:

DGPS, Navigational Echo sounder, VHF Radio, SSB Set and RADAR shall be provided. All navigational equipment shall be as per class requirement and class type approved.

Country of Origin: USA/UK/Canada/ European Countries/ Japan/Australia

D: Spare Parts of Grab Dredger:

(a)Crane engine:

Country of origin of Crane engine's Spare Parts: EU Countries/ UK/USA/ Australia / Canada/ Japan.

Sl. No.	Description	Required Quantity	Unit Price	Total Price
1	Cylinder liner with seal	1 set (1 set=1 No. x No. of Cylinder)		
2	Piston ring	2 sets (1 set=1ring group x No. of Cylinder)		

3	Exhaust valve	2 sets (1 set=2 Nos. x No. of Cylinder)		
4	Inlet valve	2 sets (1 set=2 Nos. x No. of Cylinder)		
5	Insert (valve seat) Exhaust	2 sets (1 set=2 Nos. x No. of Cylinder)		
6	Insert (valve seat) inlet	2 sets (1 set=2 Nos. x No. of Cylinder)		
7	Valve guide Exhaust	2 set (1 set=2 Nos. x No. of Cylinder)		
8	Valve guide Inlet	2 set (1 set=2 Nos. x No. of Cylinder)		
9	Valve Spring	1 set		
10	(a) Crank Shaft bearing (Main bearing)- std	1 set (1 set=1 pair x No. of Cylinder)		
	(b) 1 st under bearing for crank shaft	1 set (1 set=1 pair x No. of Cylinder)		
11	(a) Cont. rod bearing (Big-end-bearing)- std	1 set (1 set=1 pair x No. of Cylinder)		
	(b) 1 st under bearing for cont. rod	1 set (1 set=1 pair x No. of Cylinder)		
12	Injector Complete	2 sets (1 set=1 No.x No. of Cylinder)		
13	Plate thrust (Thrust bearing)	2 sets (1 set=1 pair)		
14	Complete engine overhauling gasket Kit	2 sets (1set=2 Nos. for complete engine)		
15	Lub oil filter	15 nos.		
16	Primary filter/water separator	15 nos.		
17	Secondary filter	15 nos.		
18	Air Filter	15 nos.		
19	After Cooler	1 No.		
20	Atmospheric Air Pressure Sensor	1 No.		
21	Lub oil cooler	1 No.		
22	Gear Oil Cooler	1 No.		

**If any items are not required for offered engine then equivalent spares shall be provided.*

(b) Generators:

Country of origin of Generator's spare parts: EU Countries/ UK/USA/ Australia / Canada/ Japan.

Sl. No.	Description0	Required Quantity	Unit Price	Total Price
1	Cylinder liner with seal	3 sets (1 set=1 No.x No. of Cylinder)		
2	Piston ring	3 sets (1 set=1ring group x No. of Cylinder)		
3	Piston Pin (Gudgeon pin)	3 sets (1 set=1 No.x No. of Cylinder)		
4	Valve spring	3 sets		
5	Main bearing	3 sets (1 set=1 pair x No. of Cylinder)		
6	Big-end-bearing	3 sets (1 set=1 pair x No. of Cylinder)		
7	Injector Complete	2 sets (1 set=1 No.x No. of		

		Cylinder)		
8	Lub oil filter	5 Nos		
9	Primary filter/water separator	5 Nos		
10	Secondary filter	5 Nos		
11	Air filter	5 Nos		

**If any items are not required for offered generator then equivalent spares shall be provided.*

(c) Hydraulic System :

Country of origin of Hydraulic System's spare parts: EU Countries/ UK/USA/ Australia / Canada/ Japan.

Sl. No.	Description	Required Quantity	Unit Price
1	Hydraulic driving motor for spud	2 nos.	
2	Hydraulic driving motor for Grab Holding Winch	2 nos.	
3	Hydraulic driving motor for Grab opening/closing Winch	2 nos.	
4	Hydraulic driving motor for Boom Hoist Winch	2 nos.	
5	Pressure Gauge/meter	2 Nos.	
6	Relay (different sizes) (if applicable)	24 Nos.	
7	Electrical fuse (Various Range)	12 Nos.	
8	Flow control valve	2 Nos.	
9	Solenoid valve	2 Nos.	
10	Different types of relief valve	2 Nos.	
11	Hydraulic filter	10 Nos.	
12	Bucket Teeth (if applicable)	4 sets (1 set means total number of teeth for one complete bucket)	

**If any items are not required for offered Hydraulic System then equivalent spares shall be provided.*

(d) Crane spare parts:

Country of origin of Crane spare parts: EU Countries/ UK/USA/ Australia / Canada/ Japan/South Korea.

Sl. No.	Description	Required Quantity	Unit Price
1	Torque Converters	2 Nos.	
2	Grab Bucket Claw	2 sets	
3	Bucket Teeth (if applicable)	4 sets (1 set means	

		total number of teeth for one complete bucket)	
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**If any items are not required for offered Crane spare parts then equivalent spares shall be provided.*

Responsibility of Classification Society

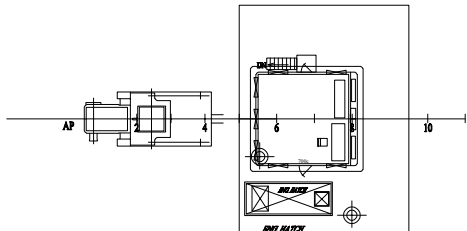
Annex II

The appointed Classification society will discharge services & perform the following responsibilities as per rules and regulation of classification Society:

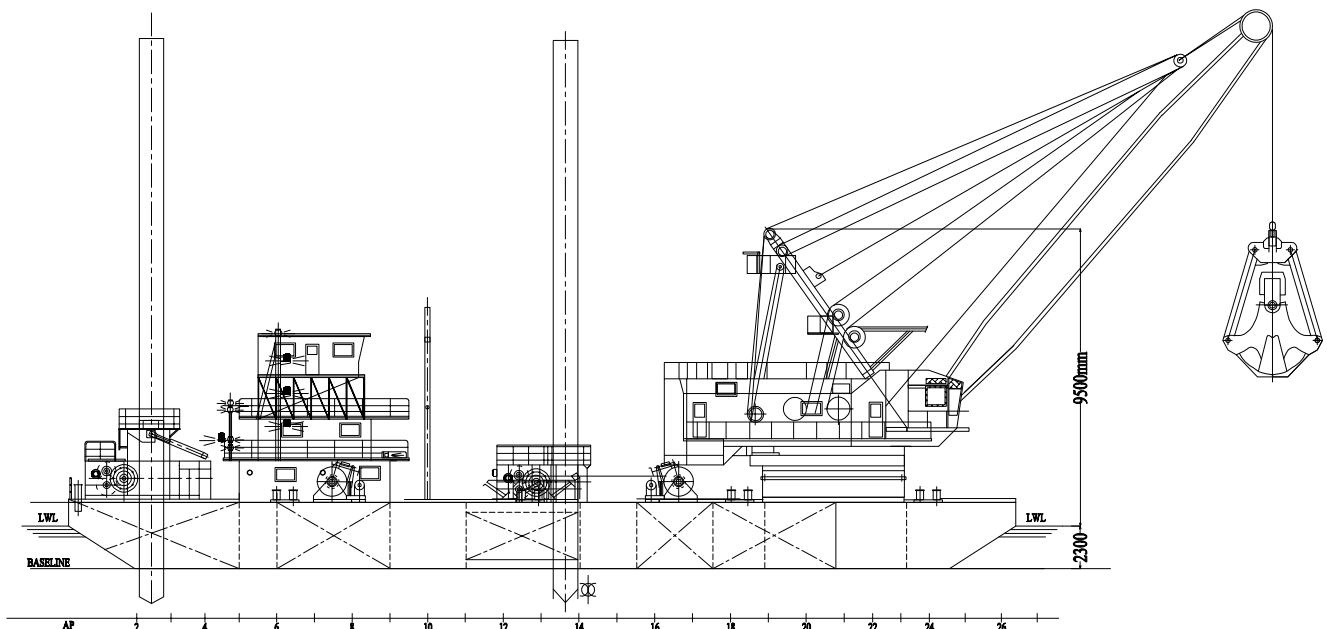
1. Examine the design & drawing for Hull & Machinery Class of Pontoon mounted grab Dredger & Self-propelled Barges.
2. Provide design approval service & the drawing/design must be reviewed as many times as needed.
3. Check stability & conduct inclining experiment and other calculations.
4. Conduct construction supervision.
5. To review specification, quality of works, origin off all materials, equipment, systems, appliances, supplies, required to construct Dredger & Self-propelled Barges.
6. Supervision and monitoring of construction of the dredger and Self-propelled Barges from commencement date until completion. To check detail specifications, standard origin of all machineries to be installed on board including Crane, main engine, pump, hydraulic system etc.
7. To check detail specifications, standard origin of all equipment including deck equipment, engine room equipment, bridge equipment, Navigation equipment, firefighting equipment, galley equipment.
8. To check detail description of all type of systems including steering system, electrical system, control system, cooling system, fire-fighting system, bilge-ballast system, fresh & seas water system, ventilation system, fuel-oil system, exhaust system.
9. To check all type of appliances including electrical appliances, life- saving appliances and accommodation appliances, communication equipment & maintenance tools.
10. Classification society surveyor will attend during inclining experiment, load line survey, test-trial & other experiments in order to ensure quality & performance.
11. Provide Hull and Machinery Certificate as per class rules, Load Line Certification, Safety Construction, intact stability, Damage Stability, Tonnage, cargo gear/lifting gear Certificate whichever applicable and other documents/certificates required to register under DOS as Inland Water Way (I.W.W).
12. Conduct Specification survey as per Purchaser Contract Agreement.
13. To ensure Quality and specification for the equipment installed on the Dredger & Self-propelled Barges.
14. To ensure quality of materials used for construction.
15. To be present during each survey/inspection of Purchaser representative.
16. To monitor the launching of the vessels following standard launching procedure and to carry out tests, trials & supervision of Dredger & Self-propelled Barges.
17. To conduct test trail and to complete acceptance procedure on behalf of BIWTA.
18. Submission of progress report regularly.
19. Any other services as required.
20. To assist the purchaser to receive the dredger, Self-propelled Barges & other accessories as per contract agreement.
21. Finally, Dredger & Self-propelled Barges shall be classed by the classification society & issue class certificate for the vessel to the purchaser.

PRINCIPAL PARTICULARS

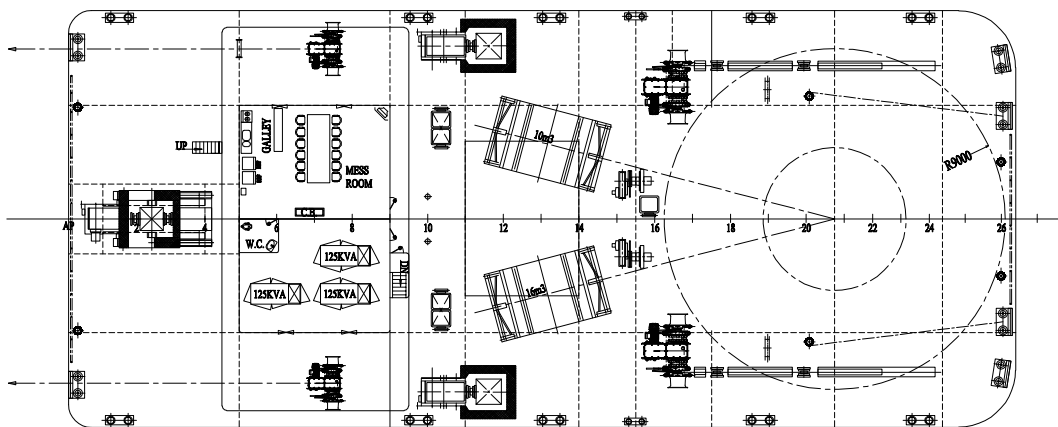
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DEPTH (About)	: 4.00M
DRAFT (max.)	: 2.30M
COMPLEMENT (About)	: 12 Persons



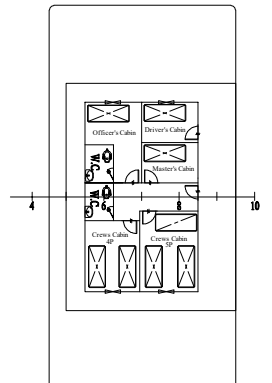
CONTROL DECK



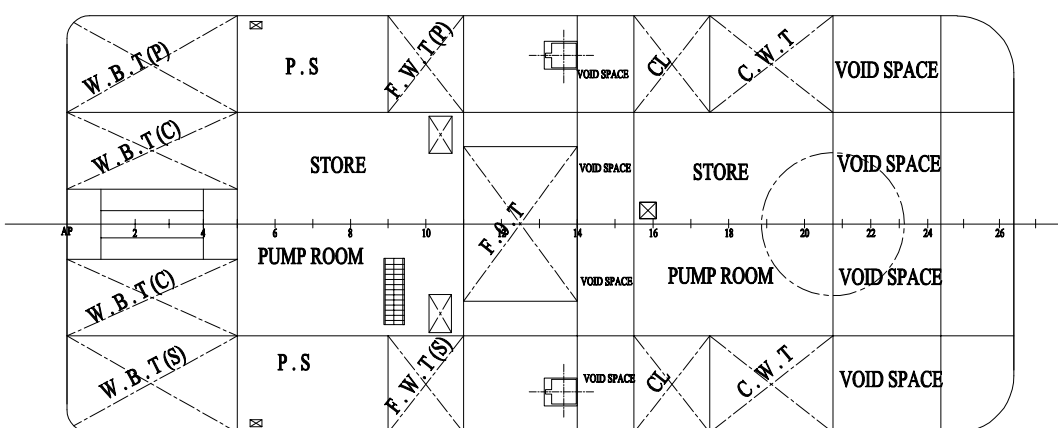
PROFILE



MAIN DECK PLAN



UPPER DECK PLAN



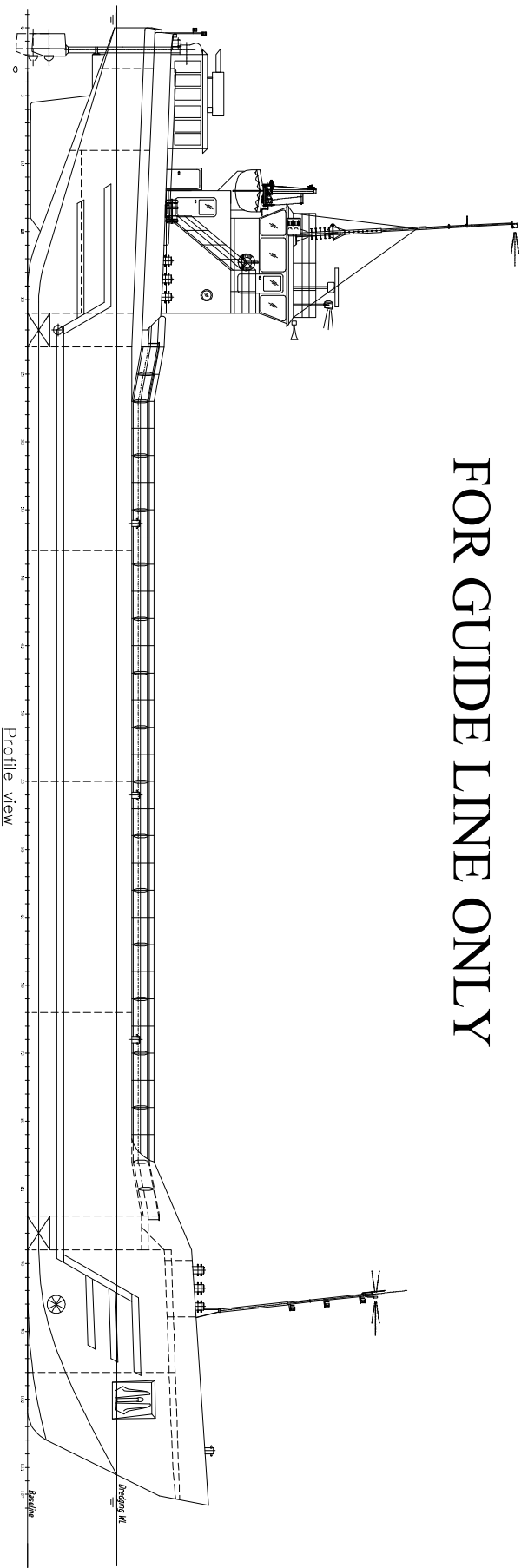
BOTTOM PLAN

GENERAL ARRANGEMENT PLAN PONTON MOUNTED GRAB DREDGER B. I. W. T. A.	
PROJECT	Procurement of 35 nos. Dredger with other ancillary vessel & accessories and Development of necessary infrastructure.
DRAWN BY:	
DATE:	SCALE : NOT IN SCALE

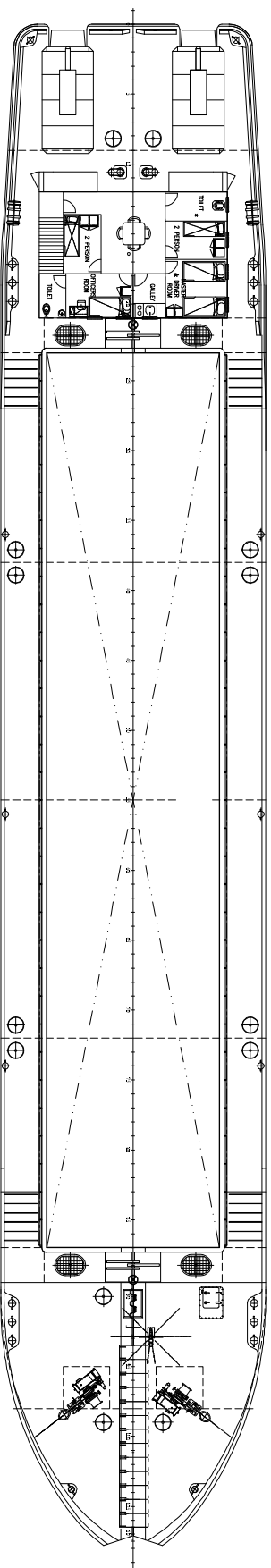
FOR GUIDE LINE ONLY

MAIN DIMENSIONS AND CHARACTERISTICS

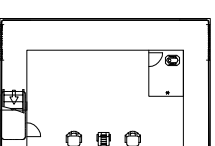
Length O A	L=62.00m
Breadth	B=12.50m
Depth	D=4.50m
Draught(max)	T=3.30m
Hopper capacity	=1200m ³
Complement	= 07 Persons



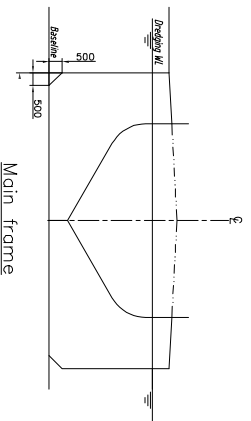
Profile view



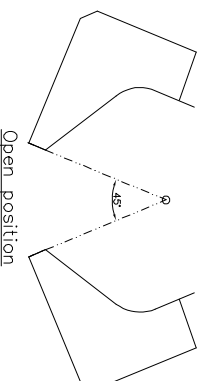
Plan view



Navigation Deck



Main frame



Open position

GENERAL ARRANGEMENT PLAN Self-propelled split-type dredge material carrying hopper barge

B. I. W. T. A.

PROJECT Procurement of 35 nos Dredger with other ancillary
Vessel & accessories and required infrastructure
development

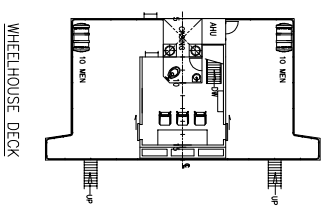
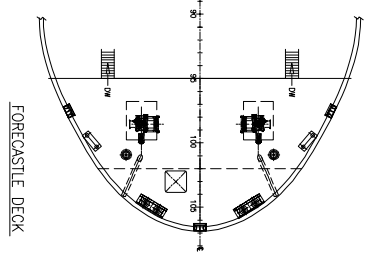
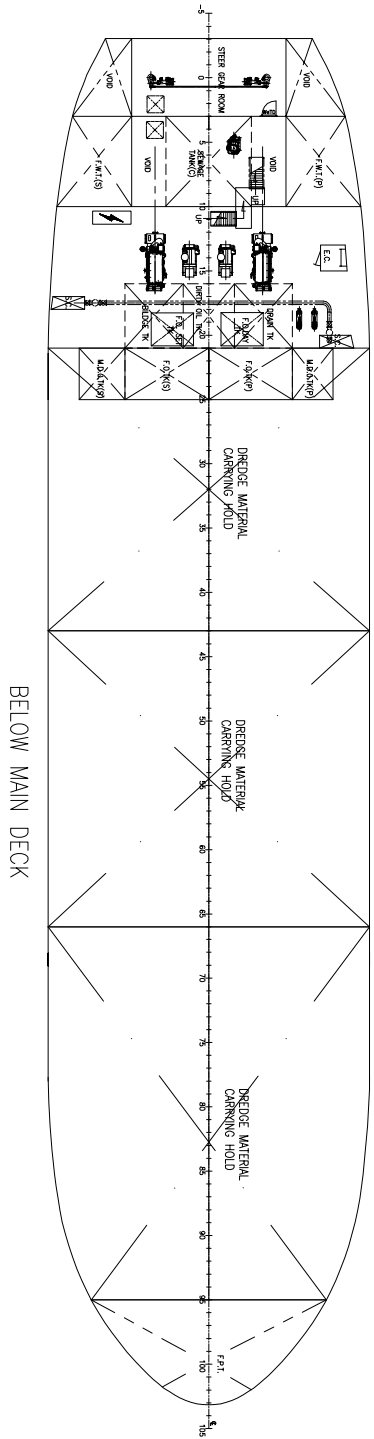
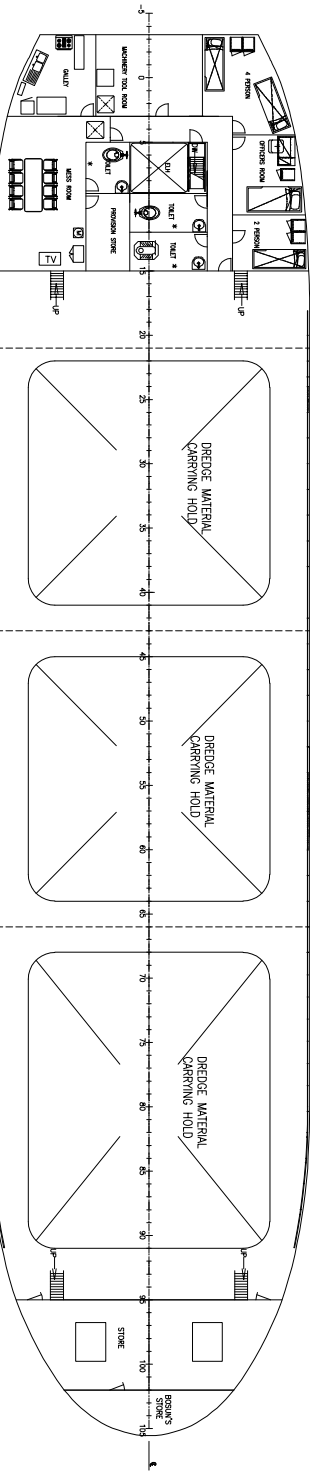
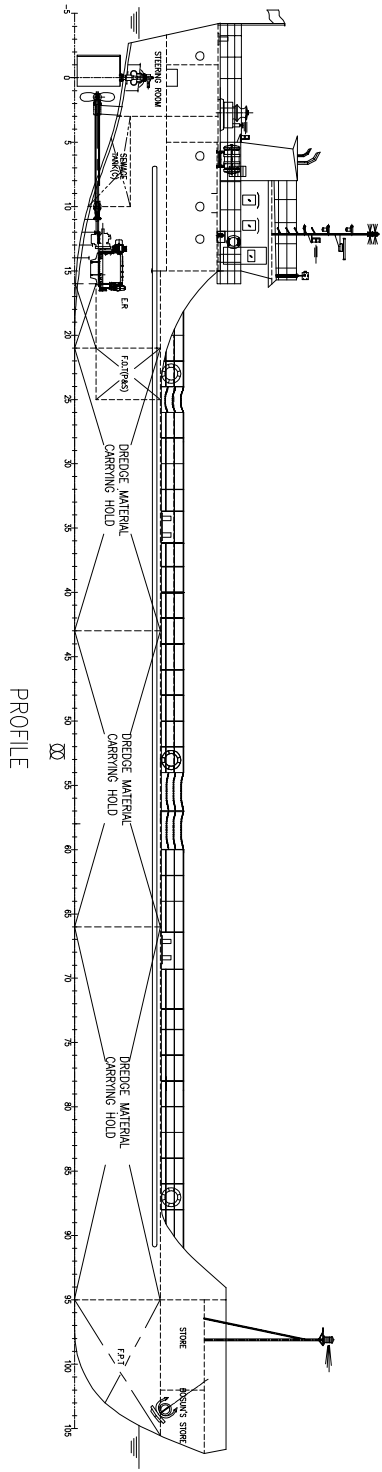
DRAWN BY:

DATE :

SCALE : NOT IN SCALE

PRINCIPAL PARTICULARS

LENGTH LOA (About)	: 60.00M
BREADTH (About)	: 12.00M
DEPTH (About)	: 4.00M
DRAFT (max.)	: 3.00M
COMPLEMENT (About)	: 07 Persons



GENERAL ARRANGEMENT PLAN
Self Propelled Dredge Material Carrying Barge
B. I. W. T. A.

PROJECT
Procurement of 35 nos. Dredger with other ancillary vessel & accessories and Development of necessary infrastructure.

DRAWN BY:
DATE:
SCALE : NOT IN SCALE