



NATIONAL DREDGING & MARINE SERVICES (PVT) LTD

HIRING OF HYDROGRAPHIC SURVEY BOAT

PACKAGE C

Tender Reference No.: Tender 03 /NDMS-TSHD & Hiring of HSB/2025.

**Open Competitive Bidding
Single-Stage, Two-Envelope Procedure**

in accordance with the Public Procurement Rules (PPRA) 2004

December 2025

Employer

National Dredging & Marine Services (NDMS)

BIDDING DOCUMENT

FOR

HIRING OF HYDROGRAPHIC SURVEY BOAT

Package C: Hiring of Fully Equipped Hydrographic Survey Boat, including MBES/SBES equipment, personnel, software & deliverables

December 2025

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TABLE OF ABBREVIATIONS

Abbreviation / Symbol	Full Form / Meaning
≥	Greater than or equal to
≤	Less than or equal to
ACS	Automatic Control System / Area Calculation System
AIS	Automatic Identification System
ARPA	Automatic Radar Plotting Aid
AUT	Automatic Ultrasonic Testing
BDS	Bid Data Sheet
BER	Bid Evaluation Report
BG	Bank Guarantee
BoQ	Bill of Quantities
CAD	Computer-Aided Design
CDR	Call Deposit Receipt
CP	Conditions Precedent
DEM	Digital Elevation Model
DOP / HDOP / VDOP	Dilution of Precision (Horizontal / Vertical)
DXF	Drawing Exchange Format
DWG	Drawing File Format (AutoCAD)
DWT	Deadweight Tonnage
ECDIS	Electronic Chart Display & Information System
EHS	Environment, Health & Safety
EoI	Expression of Interest
ETA	Estimated Time of Arrival
ETD	Estimated Time of Departure
FE	Foreign Exchange
GA	General Arrangement
GIS	Geographic Information System
GNSS	Global Navigation Satellite System
GT / GRT	Gross Tonnage / Gross Registered Tonnage
H&M	Hull & Machinery (Insurance)
HOP	Hopper (TSHD)
HSE	Health, Safety & Environment
IACS	International Association of Classification Societies
IHO	International Hydrographic Organization
IFB	Invitation for Bids
IMO	International Maritime Organization
INS	Inertial Navigation System
ISPS	International Ship & Port Facility Security Code
ISM	International Safety Management Code
ITB	Instructions to Bidders
JV	Joint Venture

Abbreviation / Symbol	Full Form / Meaning
KPT	Karachi Port Trust
LOA	Letter of Acceptance
LOH	Loss of Hire (Insurance)
LS	Lump Sum
MAB	Most advantageous bid
MARPOL	Marine Pollution Convention
MBES	Multi-Beam Echo Sounder
MRU	Motion Reference Unit
NDMS	National Dredging & Marine Services
NLC	National Logistics Corporation
NT	Net Tonnage
O&M	Operation & Maintenance
OSRP	Oil Spill Response Plan
P&C	Particulars & Conditions
P&I	Protection & Indemnity (Insurance)
PC	Particular Conditions
PCAA	Pakistan Civil Aviation Authority
PMSA	Pakistan Maritime Security Agency
PQA	Port Qasim Authority
PPRA	Public Procurement Regulatory Authority
QCBS	Quality & Cost Based Selection
QA/QC	Quality Assurance / Quality Control
RFQ	Request for Quotation
RFP	Request for Proposal
RTK	Real-Time Kinematic
S	Combined QCBS Score
SBES	Single-Beam Echo Sounder
Sf	Financial Score
SOE	State-Owned Enterprise
SOLAS	Safety of Life at Sea Convention
SPM	Single Point Mooring
STCW	Standards of Training, Certification & Watch keeping
SVP	Sound Velocity Profiler
SOPEP	Shipboard Oil Pollution Emergency Plan
TOR	Terms of Reference
TSHD	Trailer Suction Hopper Dredger
TSS	Traffic Separation Scheme
USD	United States Dollar
VTs	Vessel Traffic Service
WGS-84	World Geodetic System 1984
WTI	Work Time Index (dredging productivity)

National Dredging & Marine Services (NDMS)

INVITATION FOR BIDS (IFB)

HIRING OF HYDROGRAPHIC SURVEY BOAT

December 11, 2025

Tender Reference No.: Tender 03 /NDMS-TSHD & Hiring of HSB/2025.

National Dredging & Marine Services (NDMS), invites sealed bids from eligible and reputable firms for the provision of hiring of a fully equipped hydrographic survey boat, as per the details below:

Package C: HIRING OF HYDROGRAPHIC SURVEY BOAT

1. Method of Procurement

Bidding shall be conducted under Open Competitive Bidding using the **Single-Stage, Two-Envelope Procedure**, in accordance with the **Public Procurement Rules (PPRA) 2004**, as amended.

2. Availability of Tender Documents

A complete set of Bidding Documents may be purchased by an interested Bidder upon payment of a non- refundable fee of PKR 20,000 proof of which will be submitted/attached with the technical bid (failure to include proof of payment will render the bid unresponsive) or may be downloaded from the web site.

Director

National Dredging & Marine Services (Pvt) Ltd. (NDMS)
NLC Headquarters, Harding Road,
Rawalpindi, Pakistan
Tel: 051-9052541, 051-9052536

During working hours (Monday–Friday)

3. Submission of Bids

- **Technical and Financial Proposals** must be submitted in **separate sealed envelopes**, clearly marked. Each page of the bidding document shall be signed in ink, duly stamped, and submitted as part of the Technical Proposal.
- Bids must reach the undersigned on or before **11:30 AM, January 10, 2026**

4. Bid Opening

- **Technical Proposals** will be opened immediately after the submission deadline in the presence of bidders' authorized representatives. Technical Bid shall be opened on the same day at 1200 hrs. in presence of parties or their authorized representatives who wish to be present.
- **Financial Proposals** of only technically qualified bidders will be opened at a later date, which will be communicated in writing.

5. Bid Security

All bids (Technical) must be accompanied by a Bid Security in the amount of **PKR 15 million** in the form of a draft or Bank Guarantee drawn on a Pakistan commercial bank.

The bid security must be submitted in accordance with the Instructions to Bidders (ITB).

6. Pre-Bid Meeting

A pre-bid meeting will be held as per the schedule indicated in the Bid Data Sheet (BDS).

All prospective Bidders, or their duly authorized representatives, are encouraged to attend the Pre-Bid Meeting. Attendance is not mandatory; however, Bidders who do not attend shall be deemed to have fully familiarised themselves with the Bidding Documents and with all clarifications or amendments issued subsequently. For security and administrative purposes, all attendee, particularly foreign Bidder representatives who choose to attend in person, must submit complete particulars, including CNIC and/or Passport details, no later than 16 December 2025. Participation via video link will be facilitated for those unable to attend in person.

Venue: Conference Room, NLC Head Quarters, Harding Road, Rawalpindi, Pakistan.

7. Right to Accept or Reject

NDMS reserves the right to **accept or reject bids** in accordance with **PPRA Rule 33**, without assigning any reason and without incurring any liability.

8. Contact for Clarifications

All queries shall be addressed in writing to:

Director

National Dredging & Marine Services (Pvt) Ltd. (NDMS)

NLC Headquarters, Harding Road,

Rawalpindi – Pakistan

NDMS website: www.ndms.pk

Email: procurement@ndms.pk

Tel: 051-9052541, 051-9052536

INSTRUCTIONS TO BIDDERS (ITB) & APPENDICES

INSTRUCTION TO BIDDERS & APPENDICES

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INSTRUCTIONS TO BIDDERS AND APPENDICES

(Note: These Instructions along with Tendering Data will not be part of Contract and will cease to have effect once the Contract is signed).

(A) GENERAL

IB.1 Scope of Bid

- 1.1 The Employer, National Dredging & Marine Services (NDMS), invites sealed bids for the provision of:
- 1.2 **Package C: Hiring of Locally Owned, Fully Equipped Hydrographic Survey Boat, including MBES/SBES equipment, personnel, software & deliverables**
- 1.3 The bidding process shall follow the **Single-Stage, Two-Envelope** Procedure as prescribed under **PPRA Rule 36(b)**.

IB.2 Eligible Bidders

2.2 Eligibility of Bidders

2.2.1 Legal Eligibility

To be eligible for bidding, a bidder must:

- 2.2.1.1 Be a legally registered entity under the relevant laws of Pakistan or the bidder's country of origin.
- 2.2.1.2 Hold valid registrations including NTN, STRN and relevant tax numbers.
- 2.2.1.3 For foreign bidders: provide documentary evidence confirming legal status in their home jurisdiction.
- 2.2.1.4 Comply with all applicable Pakistani laws relating to taxation, marine operations, labour, safety and commercial activities.
- 2.2.1.5 Submit complete legal documentation as listed in the Bid Data Sheet (BDS).

2.2.2 Blacklisting and Ineligibility

- 2.2.2.1 Bidders shall not be eligible if they have been:

- (a) Blacklisted or debarred by any Federal / Provincial Government agency, autonomous body, statutory authority, or international organization;
- (b) Suspended from participation in public procurement;
- (c) Declared ineligible due to fraudulent, corrupt or unethical practices.

- 2.2.2.2 Bidders must submit a **Not-Blacklisted Affidavit** on judicial stamp paper.

2.2.2.3 Bidders engaged in litigation against NDMS that may affect contract performance may be declared ineligible.

2.2.2.4 Submission of falsified or misleading information shall result in immediate rejection.

2.2.3 Conflict of Interest

2.2.3.1 A bidder shall be considered to have a conflict of interest if:

- (a) The bidder or its affiliates submit more than one bid for the same Package;
- (b) The bidder's employees, directors, partners or agents have relationships with NDMS staff that could improperly influence procurement;
- (c) The bidder or its affiliates contributed to the preparation of specifications, TORs or tender documents.

2.2.3.2 Bidders must disclose all potential conflicts in writing.

2.2.3.3 The Employer reserves the right to reject any bid where conflict of interest exists without assigning any reason whatsoever.

2.2.4 Prohibited Practices

2.2.4.1 Bidders shall not engage in:

- Corrupt practices;
- Fraudulent practices;
- Collusive bidding;
- Coercive practices;
- Obstructive practices.

2.2.4.2 Any firm found involved in prohibited practices shall be rejected and may be recommended for blacklisting under **PPRA Rule 19**.

2.2.4.3 Bidders must sign the **Integrity Pact** in accordance with **PPRA Rule 7**.

2.2.5 Joint Ventures / Consortiums

2.2.5.1 Bidders may participate as a Joint Venture (JV), subject to:

- (a) A legally executed and notarized JV Agreement;
- (b) Clear identification of the Lead Partner;
- (c) Joint and several liabilities of all partners;
- (d) Submission of complete documentation for each JV member
- (e) Foreign JV members complying with Pakistani registration and taxation requirements.

2.2.5.2 The JV must collectively meet the technical and financial qualification criteria.

2.2.6 Bid Security (PPRA Rule 25)

2.2.6.1 Bids must include Bid Security as specified in the BDS.

2.2.6.2 A bid shall be **non-responsive** if:

- (a) Bid Security is omitted;
- (b) Bid Security amount is insufficient;
- (c) Bid Security is not in an acceptable form;
- (d) Bid Security validity is shorter than required.

2.2.6.3 Acceptable forms include Call Deposit Receipt (CDR), Bank Guarantee or Pay Order.

2.2.7 Non-Responsive Bidders

A bid will be declared non-responsive if:

- 2.2.7.1 Mandatory eligibility requirements are not met;
- 2.2.7.2 Required documentation is missing or incomplete;
- 2.2.7.3 Bid contains material deviations, reservations, or conditions;
- 2.2.7.4 Technical characteristics do not match the specifications;
- 2.2.7.5 Bid is incomplete, vague, or ambiguous in price or scope.
- 2.2.7.6 Only responsive bids shall proceed to evaluation.

2.2.8 Integrity, Transparency & Fair Dealing

- 2.2.8.1 Bidders shall adhere to the principles of fairness, transparency, and value for money.
- 2.2.8.2 Bidders must not attempt to influence the evaluation process.
- 2.2.8.3 Any violation may lead to rejection and subsequent legal action under PPRA Rules.

2.2.9 Participation of Foreign Bidders

2.2.9.1 Foreign bidders may participate provided they:

- (a) Submit documents in English (or with certified translations);
- (b) Comply with Pakistani customs, immigration, tax, and port regulations
- (c) Operate vessels compliant with MARPOL, SOLAS, STCW, and applicable IMO standards;
- (d) Provide class certificates from IACS-member classification societies.

2.2.9.2 Appointment of a local agent is recommended but not mandatory. Full details and contact person must be explicitly stated of agent along with a letter of authority.

2.2.10 Eligibility Exclusions (PPRA Rules 4, 17, 30)

A bidder shall be excluded if it:

2.2.10.1 Attempts to submit multiple bids under different names;

2.2.10.2 Misrepresents or conceals material information;

2.2.10.3 Attempts to influence the procurement process;

2.2.10.4 Fails to meet any mandatory requirement of the tender.

2.2.11 Employer's Right to Reject (PPRA Rule 33)

2.2.11.1 The Employer reserves the right to accept or reject all bids without assigning any reason.

2.2.11.2 Reasons for rejection shall be recorded in writing in accordance with PPRA Rule 33.

2.2.12 Compliance with PPRA and Marine Regulations

2.2.12.1 Bidders must comply with:

- (a) PPRA Rules 2004;
- (b) Procurement of Services Regulations 2010
- (c) All amendments/notifications issued by PPRA;
- (d) Pakistan Marine and Seafarers' regulations;
- (e) IMO conventions applicable to the vessels;
- (f) Port regulations of KPT, PQA, GPA and PMSA as applicable.

2.2.12.2 Non-compliance shall result in rejection.

IB.3 Cost of Bidding

3.1 Cost of Bidding

3.1.1 The Bidder shall bear all costs associated with the preparation, submission, clarification, and negotiation of its bid.

3.1.2 The Employer shall in no case be responsible or liable for such costs, regardless of the outcome of the bidding process.

(B) BIDDING DOCUMENTS

IB.4 Contents of Bidding Documents

4.1 The Bidding Documents are those stated below and should be read in conjunction with any Addendum issued in accordance with Clause IB-6.

- (1) Instructions to Bidders & Bidding Data Sheet.
- (2) Appendices & Standard Forms:
 - (i) Appendix A: Name of Eligible Countries
 - (ii) Appendix B: Evidence of Bidder's Capability
 - (iii) Signed and stamped copy of the bidding document (each page signed in ink)
 - (iv) Proof of purchase of bidding documents (original receipt and Pay Order copy)
 - (v) Appendix C: Bid Form - Form of Technical Proposal
 - (vi) Appendix D: Bid Form - Form of Financial Proposal
 - (vii) Appendix E: Bid Security Form
 - (viii) Appendix F: Form of Performance Security
 - (ix) Appendix G: Form of Contract Agreement
 - (x) Appendix H: Integrity Pact
 - (xi) Appendix I: Contract Agreement
 - (xii) Appendix J: Time Charter Party Agreement
 - (xiii) Appendix K: Specialized Dredging Insurance
- (3) Terms of Reference (TOR)
- (4) Preamble to Bill of Quantities (BOQ)
- (5) Bill of Quantities (BOQ)

IB.5 Clarification of Bidding Documents (PPRA Rule 31)

- 5.1 A prospective Bidder requiring clarification of the Bidding Documents shall request the Employer in writing at the address indicated in the Bid Data Sheet (BDS).
- 5.2 The Employer shall respond to any request for clarification received not later than seven (7) days before the deadline for bid submission. **Last date for receipt of clarification request is December 31, 2025.**
- 5.3 The Employer's response shall be communicated in writing to all bidders who have purchased the Bidding Documents.
- 5.4 No change in the price or substance of the bid shall be permitted as a result of clarification.

IB.6 Amendment of Bidding Documents

- 6.1 At any time prior to the deadline for bid submission, the Employer may amend the Bidding Documents for any reason, whether to clarify, modify or correct errors.

- 6.2 Any amendment shall be issued as an Addendum and communicated in writing to all bidders who have obtained the Bidding Documents.
- 6.3 The Addendum shall be binding on all Bidders.
- 6.4 The Employer at its sole discretion and without assigning any reason, may extend the bid submission deadline if necessary to allow bidders reasonable time to incorporate the amendment.

(C) PREPARATION OF BID

IB.7 Language of Bid

- 7.1 All documents comprising the Bid and all correspondence shall be written in English.
- 7.2 Documents submitted in another language must be accompanied by a certified English translation; in such cases, the English translation shall prevail.

IB.8 Documents Comprising the Bid

8.1 Technical Proposal

The Technical Proposal shall include (but not be limited to):

- (a) Technical Proposal Submission Form
- (b) Bidder's Eligibility and Legal Documents
- (c) Signed and stamped copy of the bidding document (each page signed in ink)
- (d) Proof of purchase of bidding documents (original receipt and Pay Order copy)
- (e) Compliance with Technical Specifications
- (f) Vessel particulars
- (g) Crew/operational personnel qualifications
- (h) Vessel Class certificates and statutory certificates
- (i) Valid P&I and Hull & Machinery insurances
- (j) HSE Plan and Safety Management System
- (k) Quality Assurance & Quality Control procedures
- (l) Mobilization plan and operational methodology
- (m) Proposed work support arrangements
- (n) FE exposure and currency breakdown has to be provided as per details in IB 9

8.2 Financial Proposal

The Financial Proposal shall include:

- (a) Financial Proposal Submission Form
- (b) Daily Hire Rate(s)
- (c) Mobilization and demobilization cost
- (d) Standby rates
- (e) Any optional items
- (f) Taxes and duties
- (g) Complete price schedule as per prescribed forms

IB.9 Bid Prices and Currency

- 9.1 The Bidder shall quote its prices using the forms prescribed in the Financial Proposal.
- 9.2 All bid prices shall be quoted in Pakistan Rupee (PKR).

- 9.3 Bidders must clearly identify Foreign Exchange (FE) components, if any.
- 9.4 Prices quoted shall be inclusive of all taxes, duties, levies, insurance, mobilization, demobilization, crew, fuel and all associated costs required to perform the services.
- 9.5 The Bidder shall be responsible for the accuracy of all prices quoted.
- 9.6 Prices quoted by the tenderer shall remain fixed during the tenderer's performance of the contract and not subject to variation on any account.

IB.10 Documents Establishing Bidder's Eligibility and Qualifications

10.1 General Requirement

- 10.1.1 The Bidder shall furnish documentary evidence establishing its eligibility to Bid and its qualifications to perform the Contract in accordance with the requirements of this Section and the Bidding Documents.

10.2 Eligibility of Bidder

- 10.2.1 The Bidder shall demonstrate that, at the time of Bid submission:
- (a) it is a legally registered entity in its jurisdiction of incorporation;
 - (b) it is duly registered for taxation and compliant with applicable tax laws;
 - (c) it is not blacklisted, suspended, or debarred by any government, port authority, maritime administration, regulator, or international organization; and
 - (d) it meets all eligibility conditions specified elsewhere in the Bidding Documents.

10.3 General Qualifications

- 10.3.1 The documentary evidence of the Bidder's qualifications to perform the Contract shall establish, to the Employer's satisfaction, that the Bidder:
- (a) possesses the technical, operational, and managerial capability to provide the required dredger time-charter services and/or hydrographic survey services;
 - (b) has established safety, quality, and environmental management systems appropriate for marine operations;
 - (c) maintains (or will maintain) all relevant class, statutory and insurance certifications for the vessels and services offered;
 - (d) employs or has access to qualified marine crew, dredge masters, engineers and survey personnel as required under the Contract; and
 - (e) in the case of a foreign Bidder, will be represented by an agent in Pakistan (if required) for operational coordination and compliance.

10.4 Minimum Experience and Past Performance Requirements

10.4.1 Definition of Relevant Experience

For purposes of qualification, relevant experience means the execution, operation, or management of hydrographic survey of dredging or marine projects in a port, channel, coastal, or offshore environment.

A. Package C — Hiring of Survey Boat

For Package C, the Bidder must provide documentary evidence demonstrating that:

(i) Operation of Survey Boats

The Bidder has operated, owned, hired, at least three (3) survey boats equal to or greater than those required for the respective Package C for a minimum continuous period of six (6) months each within the last five (5) years.

(ii) Relevant Survey Operations

The survey boats offered for the Package have successfully completed similar capital or maintenance dredging assignments under hire or equivalent operational arrangements. The Employer will undertake visit to the successful bidder's selected site to witness the operation and condition of the survey boat after issue of Letter of Award and before final contract signing. All expenses related to this visit will be borne by the Bidder. The Employer, in case of rejection of the Survey boat on inspection, will give the bidder three days to offer an alternate survey boat.

(iii) Contract Value Requirement

The Bidder has successfully completed **at least three (3) surveys of dredging contracts**, each having a contract value of **not less than PKR 100 million, during the last five (5) years.**

Documentation must include contract agreements and client completion certificates.

10.5 Financial Capability Requirements

10.5.1 The Bidder shall demonstrate adequate financial capacity to mobilize and perform the services under the Contract. For this purpose, the Bidder shall submit audited financial statements for the last three (3) financial years, together with evidence of access to sufficient working capital and/or confirmed credit lines.

10.5.2 The minimum annual turnover (per year) requirements are:

(a) Foreign Bidders:

Not applicable

(b) Pakistani Bidders / Companies:

Annual turnover of not less than PKR 1.5 billion per year in each of the last three (3) financial years.

- 10.5.3 Shall also demonstrate adequate financial resources, through internal cash flow or external financing, to mobilize vessels and sustain operations for the entire duration of the Contract.

10.6 Joint Ventures (JV)

- 10.6.1 Bidders may form a Joint Venture (JV) to meet the qualification requirements. In such cases:

- (a) All JV partners must meet the eligibility requirements under Sub-Clause 2.2.5.
- (b) At least one JV partner must fully meet the relevant minimum experience requirements under Sub-Clause 2.2.5.
- (c) The combined financial capacity of the JV shall meet Sub-Clause 2.2.5.
- (d) The Lead Partner must individually meet at least sixty percent (60%) of the required annual turnover.
- (e) All JV partners shall be jointly and severally liable for the execution of the entire Contract.
- (f) A valid and binding JV Agreement must be submitted with the Bid.
- (g) The Lead Partner shall be authorized to act on behalf of the JV in all matters relating to the Bid and the Contract, as evidenced by a Power of Attorney signed by all partners and all JV partners will be jointly and severally liable.
- (h) No amendment to the JV Agreement shall be permitted without prior written consent of the Employer.

10.7 Proof of Experience and Qualification

- 10.7.1 To demonstrate compliance with the above requirements, the Bidder shall submit, as applicable:
- (a) Contract Agreements;
 - (b) Client Completion Certificates;
 - (c) Vessel particulars, class certificates, and statutory certificates;
 - (d) AIS track records or operational logs (if required);
 - (e) Financial statements and audit reports; and
 - (f) Any additional documentation requested by the Employer.

10.8 Non-Responsiveness

- 10.8.1 Failure to submit documentary evidence establishing compliance with any requirement of this Section shall result in the Bid being declared non-responsive, and such Bid shall not be considered further.

IB.11 Documents Establishing Conformity of Vessels, Equipment and Services

11.1 General Requirement

- 11.1.1 The Bidder shall furnish, as part of its Bid, documentary evidence establishing that the survey boat equipment systems, software, personnel and services offered fully conform to the requirements of the Bidding Documents.
- 11.1.2 The Bidder shall clearly identify the survey boat and equipment being proposed, and the documentation submitted shall be sufficiently detailed to enable the Employer to verify technical compliance.

11.2 Conformity of Survey Boat

The Bidder shall submit complete technical documentation for the proposed boat, covering, at a minimum:

- (a) Vessel Identification & Certification
- (i) IMO Number, Flag, Year of Construction, Bidder
 - (ii) Valid Class Certificate from an IACS member society
 - (iii) Valid statutory certificates including, but not limited to:
 - Load Line
 - Safety Construction
 - Safety Equipment
 - Safety Radio
 - MARPOL Annex I and V certificates
 - ISM and ISPS compliance
 - (iv) Proof of valid Hull & Machinery (H&M) and P&I Insurance
 - (v) Draught (light, loaded, dredging condition)
 - (vi) Production curves and indicative output for maintenance and capital dredging
- (b) General Arrangement & Drawings
- (i) General Arrangement (GA)
 - (ii) Profile & Plan Views
 - (iii) Machinery Arrangement
 - (iv) Equipment Layout

- (v) Accommodation Plan (crew capacity not mandatory to show)
- (c) Crew & Competency Requirements
 - (i) Minimum manning plan meeting Flag / Class requirements
 - (ii) List of crew positions (Hydrographic surveyor, survey system operator, seamen etc.)
 - (iii) Evidence of STCW compliance
 - (iv) Evidence of dredging survey experience for key positions (preferred but not mandatory)
- (d) Operational Records (to confirm capability)
 - (i) Historical AIS tracks (if requested)
 - (ii) Operational logs or production summaries from previous dredging survey campaigns
 - (iii) Confirmation of availability during the intended hiring period

11.3 Supporting Documentation

- 11.3.1 The Bidder shall furnish any additional documents necessary to verify full technical compliance, which may include:
- (a) Manufacturer's brochures and datasheets
 - (b) Test certificates and performance curves
 - (c) Maintenance regimes and technical manuals (extracts permitted)
 - (d) Environmental and safety compliance documentation
 - (e) Proposed mobilization / demobilization methodology
 - (f) Declaration of vessel availability for the full Contract period

11.4 Non-Conformity

- 11.4.1 Failure to provide sufficient documentary evidence of conformity with the technical requirements shall render the Bid non-responsive and such Bid shall not be considered further.

IB.12 Bid Validity (PPRA Rule 26)

- 12.1 Bids shall remain **valid for 120 days** from the date of opening of **Technical Proposals**.
- 12.2 A bid with a shorter validity period shall be rejected as non-responsive.
- 12.3 In exceptional circumstances, the Employer may request extension of the bid validity period; a bidder may refuse without forfeiting bid security.

IB.13 Bid Security (PPRA Rule 25)

- 13.1 All bids (Technical) must be accompanied by a Bid Security in the amount of **PKR 10 million** in the form of a draft or Bank Guarantee drawn on a Pakistan commercial bank.
- 13.2 Acceptable forms include:
- (a) Call Deposit Receipt (CDR)
 - (b) Bank Guarantee from a commercial bank confirmed by Pakistani AAA Rating Bank Pay Order
- 13.3 Failure to submit the Bid Security shall render the Bid non-responsive. The Bid Security must be submitted in a separate sealed envelope and included as part of the Technical Proposal only. It shall **not** be placed in, attached to or enclosed with the Financial Proposal. Any Bid in which the Bid Security appears in the Financial Proposal shall be declared non-responsive.
- 13.4 Bid Security shall remain **valid for 28 days** beyond the **bid validity period**.
- 13.5 Bid Security of unsuccessful bidders shall be returned promptly after award of contract.

13.6 Format and Signing of Bid

- 13.6.1 The Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to bind the Bidder.
- 13.6.2 A written Power of Attorney or Board Resolution shall be included with the bid.
- 13.6.3 Any corrections shall be initialed by the authorized signatory.

(D) SUBMISSION OF BID

IB.14 Sealing and Marking of Bids

14.1 Preparation of Bid Packages

14.1.1 Each Bidder shall prepare and submit the following:

(a) Technical Proposal

1 Original + 2 Copies + Bid Security, placed in a sealed envelope clearly marked:
“TECHNICAL PROPOSAL WITH BID SECURITY– ORIGINAL” and
“TECHNICAL PROPOSAL WITH BID SECURITY – COPY”

(b) Financial Proposal

1 Original + 2 Copies, placed in a separate sealed envelope clearly marked:
“FINANCIAL PROPOSAL – ORIGINAL” and **“FINANCIAL PROPOSAL – COPY”**

14.1.2 Technical and Financial Proposals shall be prepared separately and must not be combined in the same envelope under any circumstance. In the event of the proposals being in one envelope, the bid shall immediately be rejected and the Bidder disqualified with no course to grievance redressal as this would be a material breach.

14.2 Inner Envelope Requirements

14.2.1 Each envelope (Technical and Financial) shall:

- (a) be sealed;
- (b) clearly state the Bidder's name and address;
- (c) clearly identify the contents as:
 - “TECHNICAL PROPOSAL” or
 - “FINANCIAL PROPOSAL”;
- (d) be clearly marked with:

Project Title: “HIRE OF SURVEY BOAT”

Employer: National Dredging & Marine Services.

Package C

14.2.2 The Financial Proposal envelope shall additionally bear the warning:

“DO NOT OPEN WITH THE TECHNICAL PROPOSAL”

14.3 Outer Envelope Requirements

14.3.1 The sealed inner envelopes shall be placed in ONE outer sealed envelope, which shall:

- (a) be addressed to the Employer at the address given in the Invitation for Bids;
- (b) bear the Project Title and Contract Number;
- (c) bear the Bidder's name and full address;
- (d) state the date and time of Bid opening;
- (e) bear the clear warning:

“DO NOT OPEN BEFORE THE DATE AND TIME OF BID OPENING”

14.3.2 If the outer envelope is not properly sealed or marked, the Employer shall assume no responsibility for misplacement or premature opening of the Bid.

14.4 Method of Delivery

14.4.1 The Bid shall be delivered:

- (a) by hand, or
- (b) by courier service, or
- (c) by registered mail,

to the address specified in the Invitation for Bids.

14.4.2 Bids delivered with charges payable upon receipt shall not be accepted.

14.4.3 The Employer shall not be responsible for delays, loss or mis-delivery of Bids sent by mail or courier.

14.5 Identification for Late Bids

14.5.1 No late bids shall be accepted.

14.5.2 To enable return of late Bids unopened, the inner Technical Proposal envelope shall clearly indicate the Bidder's name and address.

14.6 Compliance

14.6.1 Non-compliance with the sealing and marking requirements specified in this Clause may result in the Bid being declared non-responsive.

IB.15 Deadline for Submission of Bids (PPRA Rule 27)

15.1 Bids must be received at the address specified in the BDS no later than the deadline stated therein.

15.2 Late bids shall be rejected and returned unopened.

15.3 The Employer may extend the submission deadline by issuing an Addendum.

15.4 Procurement Schedule / Tender Timeline

- 15.4.1 The following procurement schedule shall apply to the SURVEY BOAT. All bidders are required to strictly adhere to the dates listed below. The schedule includes the publication of the tender, pre-bid meeting, deadline for submission of queries, bid opening events, evaluation stages, redressal periods required under PPRA Rules, issuance of the Letter of Acceptance, submission of the Performance Guarantee, contract signing, and mobilization.
- 15.4.2 All milestones are binding and subject to PPRA timelines. Any amendments to these dates, if required, shall be communicated through a formal Addendum issued by the Employer.
- 15.4.3 The mobilization of the Hydrographic boat shall take place on the same date as the signing of the Contract, with the understanding that the vessel, its crew, and all necessary certificates are ready for immediate deployment according to the Contract requirements.

15.5. Survey Boat Procurement Timeline

S. No.	Description	Date	Remarks
1	Tender Published	11 Dec 2025	—
2	Pre-Bid Meeting	11:00 am, 19 Dec 2025	Conference Room, NLC Head Quarters, Rawalpindi All queries must be received in writing no later than December 16, 2025.
3	Last Date for Receipt of Queries	31 Dec 2025	Queries must be submitted in writing
4	Technical Proposal <ul style="list-style-type: none"> • Submission • Opening 	11:30 am, 10 Jan 2026 12:00 hours, 10 Jan 2026	Bidders may attend the technical opening.

IB.16 Late Bids

16.1 Rejection of Late Bids

- 16.1.1 Any Bid received by the Employer after the deadline for submission of Bids prescribed in IB.15 shall be rejected without opening and returned unopened to the Bidder.
- 16.1.2 The Employer's record of the official time of receipt shall be final and binding.

16.2 No Exceptions

- 16.2.1 Delays due to the following shall not be accepted as justification for late submission:
- (a) delays by courier, mail service, or transport;
 - (b) delays caused by the Bidder's internal handling;

- (c) delays due to misdirection, misrouting, or delivery to the wrong office;
- (d) delays caused by weather, traffic, security protocols, or force majeure;
- (e) failure of third parties engaged by the Bidder.

16.2.2 It is solely the Bidder's responsibility to ensure timely delivery, regardless of the delivery method chosen.

16.3 Record and Return of Late Bids

16.3.1 Late Bids shall be:

- (a) recorded in the Employer's bid receipt register as "Late Bid";
- (b) returned unopened to the Bidder at the Bidder's own cost and risk; and
- (c) not considered for evaluation under any circumstances.

16.4 Electronic Bids

16.4.1 Bids submitted by fax, telex, email, WhatsApp, or any electronic means shall be treated as late and non-compliant, and shall not be accepted.

IB.17 Modification, Substitution and Withdrawal of Bids

17.1 A Bidder may modify, substitute, or withdraw its Bid after submission, provided that written notice of the modification, substitution, or withdrawal is received by the Employer prior to the deadline for submission of Bids specified in IB.15.

17.2 Such notice shall be submitted in accordance with the sealing and marking requirements of IB.14, with the envelope clearly marked:

- "MODIFICATION", or
- "SUBSTITUTION", or
- "WITHDRAWAL",

as applicable.

17.3 Only one modification or substitution request will be permitted per Bidder unless otherwise approved by the Employer in writing.

17.4 Conditions for Valid Withdrawal

17.4.1 A Bid withdrawn in accordance with Sub-Clause 16.3 shall not be opened or evaluated.

17.4.2 A Bidder who withdraws its Bid prior to the submission deadline shall not be subject to forfeiture of the Bid Security.

17.5 Withdrawing After Submission Deadline

- 17.5.1 Withdrawal of a Bid after the deadline for submission but before the expiry of bid validity shall result in forfeiture of the Bid Security in accordance with IB.14.
- 17.5.2 Requests for withdrawal received after the submission deadline shall not be accepted. The Bid shall remain sealed and shall be treated as submitted.

17.6 Modification or Substitution after Deadline

- 17.6.1 Requests to modify or substitute a Bid after the submission deadline shall not be accepted.
- 17.6.2 Any modification received after the deadline shall be returned unopened.

17.7 Restrictions on Withdrawal after Opening of Technical Proposals

- 17.7.1 If the Technical Proposals have been opened, any attempt to withdraw the Bid prior to completion of evaluation shall result in:
- (a) Forfeiture of the Bid Security, and
 - (b) Possible disqualification from future tenders of the Employer.

17.8 No Alteration of Financial Proposal after Opening

- 17.8.1 After the Financial Proposals have been opened, no Bidder may modify its Bid, including:
- (a) prices,
 - (b) terms,
 - (c) conditions,
 - (d) offered vessels,
 - (e) lead times or mobilization periods.
- 17.8.2 Any such attempt shall result in immediate rejection and forfeiture of the Bid Security.

17.9 Employer's Rights

- 17.9.1 The Employer reserves the right to reject any modification, substitution, or withdrawal request it considers inconsistent with the integrity of the tender process.

(E) BID OPENING AND EVALUATION

IB.18 Bid Opening (PPRA Rule 28)

- 18.1 The Employer shall open only the Technical Proposals immediately after the bid submission deadline.
- 18.2 Bidder representatives may attend the opening.
- 18.3 Names of Bidders, bid details and inclusion of bid security shall be recorded.
- 18.4 Financial Proposals shall remain sealed until completion of technical evaluation.

18.5 Clarification of Bids (PPRA Rule 31)

- 18.5.1 During evaluation, the Employer may request clarification in writing
- 18.5.2 No changes in the price or substance of the bid shall be permitted.
- 18.5.3 Failure to respond within the stipulated period may result in rejection

18.6 Preliminary Examination of Bids

- 18.6.1 The Employer will examine whether:
 - (a) All required documents have been submitted;
 - (b) Bid Security is valid;
 - (c) The bid is complete;
 - (d) No material deviations exist.
 - (e) Proof of purchase of documents has been attached

- 18.6.2 A materially incomplete bid shall be rejected.

18.7 Evaluation of Technical Proposals (PPRA Rule 29, 30)

- 18.7.1 Technical evaluation shall be conducted strictly as per the scoring criteria in 18.10.
- 18.7.2 Only technically qualified bids shall proceed to Financial Proposal opening.
- 18.7.3 Technical evaluation results shall be announced on the PPRA website as required under PPRA Rule 35.

18.8 Evaluation of Financial Proposals (PPRA Rule 29, 30)

- 18.8.1 Financial Proposals of technically qualified bidders shall be opened publicly.
- 18.8.2 Evaluation shall consider:
 - (a) Daily hiring rates

- (b) Mobilization and demobilization
- (c) Standby rates
- (d) FE exposure
- (e) Inclusion of all duties, provincial and federal taxes and any other charges all to Bidder account.
- (f) Any adjustments specified in BDS

18.8.3 Arithmetical corrections shall follow the rules specified in 18.11.

18.9 Detailed Technical Evaluation Procedures

18.9.1 Evaluation Committee

The Employer shall appoint a Bid Evaluation Committee of technical, marine, operational, financial and procurement specialists. Experts may be consulted as needed.

18.9.2 Verification of Documents

Documents submitted for eligibility and qualification (IB.10) shall be verified, including:

- class certificates
- statutory certificates
- ownership / charter confirmation
- AIS vessel history
- experience certificates
- audited accounts
- P&I / H&M insurance
- client references

The Employer may conduct independent verifications with Class Societies, IMO databases, P&I Clubs, and port authorities.

18.9.3 Vessel Inspection or Virtual Assessment

The Employer may conduct:

- (a) pre-award physical inspection;
- (b) virtual inspection (video, live feed);
- (c) AIS movement checks;
- (d) Seaworthiness confirmation.

Failure to facilitate inspection may lead to rejection.

Failure to meet any mandatory requirement results in Technical Non-Responsiveness.

18.10 Technical Evaluation (35% Weightage)

18.10.1 Evaluation Philosophy

- Technical Evaluation shall account for 35% of the total score.
- Only Bidders achieving a minimum of 65 points out of 100 in the Technical Evaluation shall qualify for opening of Financial Proposals.
- In line with FIDIC and international procurement standards, evaluation shall identify the **Most Advantageous Bid (MAB)**, meaning the bid that offers the **best overall value** based on the disclosed criteria, not necessarily the lowest price.
- **Most Advantageous Bid (MAB):**

The Bid that best meets the Employer's requirements by achieving the highest combined value in terms of technical merit, capability, risk mitigation and price, based strictly on the published evaluation criteria and weightages.

18.10.2 Technical Evaluation Parameters & Scoring

The following core parameters shall be applied:

(1) Experience (30 points)

- a. General SURVEY Experience — 10 points
 - Years of experience in dredging survey, boat construction or chartering and operation of survey boat assets.
- b. Specific Experience — 20 points
 - Demonstrated experience with similar survey of dredging campaigns (maintenance dredging, stiff clay dredging, harbour / channel deepening).
 - Completion of at least three projects of PKR 100 million or above in the last 10 years.
 - Evidence required: LOA, completion certificates, O&M contracts or other verifiable documents.

(2) Vessel Capability & Resources (35 points)

- a. Boat Compliance with Required Specifications — 20 points
 - Size
 - Technical specifications
 - Class, statutory certificates, age profile, AIS records.
 - Backup equipment

b. Manning & Operational Readiness — 10 points

- STCW-compliant crew;
- Availability of specialized surveying and dredging crew;
- Onboard safety systems;
- ISM, ISPS compliance.

c. Mobilization & Operational Plan — 05 points

- Mobilization schedule;
- Work methodology;
- Risk management;
- Fuel handling & bunkering plan;
- Maintenance regime.

(3) Performance Record (15 points)

a. Past performance on previous survey projects — 10 points

- Reliability, claims history, delays, contractual performance.

b. Current Workload & Commitments — 5 points

- Whether the proposed survey boat is free of encumbrances and available.

(4) Financial Soundness (20 points)

- Financial ratios, liquidity, audited accounts.
- Minimum annual turnover requirements:
 - **Pakistani Bidders:** \geq PKR 1.5 billion per year (average last 05 years)

Only Bidders **scoring \geq 65 out of 100 in Technical Evaluation** shall be declared Technically Qualified.

Scoring Guidelines (for information only):

The following scoring scale is provided solely for the Bidder's information. It is intended to illustrate the general evaluation approach; however, the Employer reserves full discretion to apply the criteria in accordance with the Evaluation Methodology.

- 0: Totally non-compliant / Non-responsive
- 1 / 2 / 3: Inadequate
- 4 / 5: Partially compliant
- 6 / 7: Substantially compliant
- 8 / 9: Fully meets the requirements
- 10: Exceeds the requirements

Note: These descriptors reflect relative levels of compliance. Evaluators may assign any pro-rata score within the maximum points allocated to each criterion (e.g., a “Substantially compliant” submission under a 40-point parameter may receive 24–28 points proportionally).

The Employer provides these guidelines **for information only** and retains full discretion to award points in accordance with the Evaluation Methodology.

Financial Proposals of non-qualifying Bidders shall be returned unopened along with their Bid Security.

18.11 Financial Proposal Evaluation (65% Weightage)

18.11.1 Only Financial Proposals of Technically Qualified Bidders shall be opened.

18.11.2 The Financial Score (Sf) shall be calculated using the formula and shall be judged against price reasonableness shall be assessed against the Engineer's Estimate for dredging time-charter hire, taking into account prevailing market rates, vessel capability, mobilization requirements, and operational benchmarks to ensure that proposed prices are commercially realistic and consistent with industry norms. Under the MAB framework, the Financial Score shall continue to be determined through a proportional, price-based formula, while final selection shall be based on the highest Combined Technical and Financial Score in accordance with the disclosed weightages.

$$Sf = (100 \times Fm) / F$$

Where:

Sf = Financial Score

Fm = Lowest evaluated Financial Proposal

F = Financial Proposal of the Bidder

18.12 Combined Technical & Financial Score (Most Advantageous Bid – MAB)

18.12.1 The combined score shall be calculated as:

$$S = (St \times 0.35) + (Sf \times 0.65)$$

Where:

S = Total Combined Score

St = Technical Score

Sf = Financial Score

18.12.2 Under the Most Advantageous Bid (MAB) methodology, final selection shall be based on the highest Combined Technical and Financial Score in accordance with the disclosed weightages. The Bidder achieving the highest Combined Score shall be ranked No. 1 and recommended for award, subject to IB.21.

18.13 Evaluation of Abnormally Low or Unbalanced Bids

18.13.1 If the Financial Proposal of the apparently successful Bidder is:

- abnormally low,

- significantly lower than market benchmarks, or
- internally inconsistent,

the Employer may require detailed price justification.

18.13.2 Following review of justification, the Employer may:

- (a) accept the prices;
- (b) at its sole discretion award extra points on the financial bid evaluation if any bidder offers more favourable terms in taking Pak Rupee payment rather than foreign currency as per a defined criterion.
- (c) reject the Bid; or
- (d) require the Bidder to increase the Performance Security to safeguard against risk of default.

18.14 Final Determination

18.14.1 The Bidder with the highest combined score who has passed all qualification requirements shall be declared the Successful Bidder.

IB.19 Process to be Confidential (PPRA Rule 41)

- 19.1 Subject to Clause 23 heretofore, no Bidder shall contact Employer and/or Consultant on any matter relating to its Bid from the time of the Bid opening to the time the Bid evaluation result is announced by the Employer. The evaluation result shall be announced at least ten (10) days prior to award of Contract. The announcement to all Bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the Bids evaluated.
- 19.2 Any effort by a Bidder to influence Employer and / or Consultant in the Bid evaluation, bid comparison or Contract Award decisions may result in the rejection of his Bid. Whereas any Bidder feeling aggrieved may lodge a written complaint not later than fifteen (15) days after the announcement of the Bid evaluation result; however, mere fact of lodging a complaint shall not warrant suspension of the procurement process.

(F) AWARD OF CONTRACT

IB.20 Basis of Award

20.1 Subject to IB.21, the Employer will award the Contract to the Bidder who:

- (a) has submitted a substantially responsive Bid;
- (b) has achieved the minimum technical qualification score in accordance with IB.20.2;
- (c) has obtained the highest Combined Technical and Financial Score as calculated under IB.20.2; and
- (d) has passed the post-qualification checks under IB.10.

20.2 The award shall be made strictly in accordance with the **Most Advantageous Bid (MAB)**, the bid that offers the **best overall value** based on the disclosed criteria, not necessarily the lowest price using:

- 35% Technical Weightage, and
- 65% Financial Weightage,

and the highest **combined score shall be ranked No. 1.**

IB.21 Award of Contract (PPRA Rule 38)

21.1 The Employer shall award the Contract to the Highest Evaluated Responsive Bidder.

21.2 A Letter of Acceptance (LOA) shall be issued to the successful bidder.

21.3 The bidder shall submit the Performance Guarantee as specified in the BDS.

21.4 The Contract Agreement shall be signed within the time specified in the LOA.

IB.22 Employer's Right to Reject Bids (PPRA Rule 33)

22.1 The Employer may reject all bids at any time prior to acceptance.

22.2 Reasons for rejection shall be recorded in writing.

22.3 No compensation shall be made for bid preparation costs.

The Bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of Bid submission will be at the Bidders own risk. Pursuant to Clauses IB.4, 5 & 6, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

IB.23 Notification of Award

23.1 The Successful Bidder will be notified in writing through a Letter of Acceptance (LOA).

The LOA shall outline:

- (a) the Contract value;
- (b) the accepted scope of services;
- (c) performance security requirements;
- (d) the deadline for signing the Contract Agreement.

23.2 Upon issuance of the LOA, the Bidder becomes bound to:

- (a) furnish the Performance Security in accordance with IB.26;
- (b) sign the Contract Agreement within the period specified;
- (c) The successful bidder shall bear and pay all applicable stamp duty, as required under the laws of the Province of Sindh, on the Contract commence preparations for mobilization as required.
- (d) Commence preparations for mobilization as required.

IB.24 Employer's Right to Vary Scope

24.1 Adjustment of Service Requirements

24.1.1 At the time of Contract award, and throughout the duration of the Contract, the Employer reserves the right to increase or decrease the scope of survey services by up to 365 days from the initial one hundred and twenty (120) planned days, without any change in:

- unit charter rates,
- day-rates,
- mobilization / demobilization rates, or
- other contractual terms and conditions.

24.2 Nature of Permissible Variations

Variations may include, but are not limited to:

- (a) increases or decreases in the number of dredging days;
- (b) expansion or reduction of the dredging areas;
- (c) changes to standby or operational hours;
- (d) extension or reduction of mobilization / demobilization efforts;

24.3 Pricing of Variations

24.3.1 Unit rates quoted in the Contract shall apply uniformly to any increase or decrease in services up to the allowable variation limit.

24.3.2 No additional compensation shall be payable for variations within the permitted percentage range.

24.4 Variations Beyond the Limit

- 24.4.1 Where the Employer wishes to vary the scope by more than the allowable limit, such changes may be negotiated separately with the Bidder or processed as a new procurement, consistent with applicable PPRA Rules.

IB.25 Employer's Right to Accept any Bid and to Reject all Bids

- 25.1 Notwithstanding Clause IB.25, the Employer reserves the right to accept or reject any Bid, and to annul the bidding process and reject all Bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidders or any obligation to inform the affected Bidders of the grounds for the Employer's action except that the grounds for its rejection shall upon request be communicated, to any Bidder who submitted a Bid, without justification of grounds. Rejection of all Bids shall be notified to all Bidders promptly.
- 25.2 No negotiation with the Bidder having been evaluated as lowest responsive or any other Bidder shall be permitted. However, the Employer may have clarification meeting(s) to get clarified any item(s) in the Bid evaluation report.

IB.26 Performance Security

- 26.1 The successful Bidder shall furnish to the Employer a Performance Security in the form and the amount stipulated in the Conditions of Contract within a period of seven (7) days after the receipt of Letter of Acceptance.
- 26.2 Failure of the successful Bidder to comply with the requirements of Sub-Clauses IB.23 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

IB.27 Signing of Contract Agreement

- 27.1 Within seven (7) days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will send to the successful Bidder the Form of Contract Agreement provided in the Bidding Documents, duly filled in and incorporating all agreements between the parties for signing and return it to the Employer.
- 27.2 The formal Agreement between the Employer and the successful Bidder shall be executed within seven (7) days of the receipt of such Form of Contract Agreement by the successful Bidder from the Employer.

(G) ADDITIONAL INSTRUCTIONS

IB.28 Instructions not Part of Contract

- 28.1 Bids shall be prepared and submitted in accordance with the above Instructions to Bidders including Additional Instructions which are provided to assist Bidders in preparing their Bids, and do not constitute part of the Bid or the Contract Documents.

IB.29 Contract Documents

- 29.1 The Documents which will be included in the Contract are listed in the Form of Contract Agreement set out in these Bidding Documents.

IB.30 Sufficiency of Bid

- 30.1 Each Bidder shall satisfy himself before bidding as to the correctness and sufficiency of his Bid and of the rates and prices entered in the Schedule of Prices. Except insofar as it is otherwise expressly provided in the Contract, the rates and prices entered in the Schedule of Price shall cover all his obligations under the Contract and all matters and things necessary for the proper completion of the Works/facility.

IB.31 One Bid per Bidder

- 31.1 Each Bidder shall submit only one Bid either by himself, or as a partner in a joint venture. A Bidder who submits or participates in more than one Bid will be disqualified and Bids submitted by him shall not be considered for evaluation and award.

IB.32 Bidder to inform Himself

- 32.1 The Bidder shall, at his own cost and responsibility, obtain all information necessary for preparing his Bid and entering into the Contract, including all matters relating to dredging vessels, survey vessels, port and terminal facilities, navigational requirements, clearances, customs and import duties, taxes, regulatory obligations, operational conditions, logistics, and any other factors affecting the performance of the Services.
- 32.2 The Bidder shall satisfy himself with all applicable Pakistani laws, marine and port regulations, environmental requirements, taxes, duties, fee structures, navigational restrictions, and any operational constraints relevant to the mobilization, operation, and demobilization of the vessels. The Employer shall bear no responsibility whatsoever for providing or verifying any such information.
- 32.3 All permits, clearances, approvals, exemptions, waivers, authorizations, and licenses required for the mobilization, operation, and demobilization of the dredging vessels, survey vessels, crew, and equipment shall be the sole responsibility of the Bidder and shall be obtained at the Bidder's own cost and risk.

- 32.4 No claim, adjustment, or additional payment shall be entertained at any stage due to the Bidder's failure to obtain, verify, or comply with any information, permission, waiver, or regulatory requirement necessary for the preparation of the Bid or execution of the Services.

IB.33 Alternate Proposals by Bidder (if any)

- 33.1 Bidders shall submit their Bid in full and strict compliance with the Bidding Documents. However, if a Bidder believes that he can offer additional value, operational efficiencies, or technical advantages to the Employer, he may, in addition to his fully compliant Bid, submit an Alternate Proposal clearly marked as such. Any Alternate Proposal shall include all relevant technical details, vessel specifications, operational plans, environmental and safety features, and any other information necessary for proper evaluation. The price entered in the Form of Bid shall correspond strictly to the compliant Bid and shall not include or depend upon any alternate option.
- 33.2 Alternate Proposals, if submitted, shall be considered only in respect of the highest-ranked, responsive, and technically qualified Bidder, and only if the Employer determines that the alternate option provides a clear operational or cost advantage without affecting the fairness or integrity of the procurement process. The Employer shall be under no obligation to accept any Alternate Proposal.

Clarification Note on Alternate Proposals

For the avoidance of doubt, Alternate Proposals (if any) shall be treated strictly as optional value-added offerings and shall not replace, modify, or qualify the Bidder's fully compliant Bid. Alternate Proposals will not be scored or evaluated for the purpose of bid ranking and shall not influence the Bidder's technical or financial score. The Employer will evaluate and rank Bids solely on the basis of the compliant Bid. The Employer may, at its sole discretion, consider the Alternate Proposal of the highest-ranked Bidder only if it provides a clear operational or commercial advantage, and without altering the Bidder's evaluated price or affecting the competitiveness or fairness of the procurement process.

IB.34 Site Visit, Marine Conditions & Dredging Survey Area Familiarization

- 34.1 The Bidder shall, at his own cost and responsibility, visit the Site and the dredging survey area(s) and fully familiarize himself with all marine, operational, environmental, logistical, navigational, and regulatory conditions relevant to the performance of the Services. This includes, without limitation, access channels, berth pockets, turning basins, disposal areas, anchorages, traffic density, pilotage requirements, tidal windows, sea states, weather conditions, and any port or terminal restrictions.
- 34.2 The Bidder shall obtain and verify all information required for planning the mobilization, operation, and demobilization of dredging vessels, survey vessels, support craft, equipment, crew, and materials. This includes information relating to hydrography,

- seabed conditions, soil characteristics, meteorological and oceanographic conditions, port regulations, available facilities, bunkering, freshwater, waste reception, repairs, safe berthing, and communications.
- 34.3 Any information provided by the Employer regarding the Site or dredging area(s) shall be regarded as indicative and provided solely for reference. The Employer shall bear no responsibility for its accuracy or completeness. The Bidder shall conduct his own investigations and shall not rely on any information supplied—whether in writing, verbally, in drawings, plans, surveys, or otherwise—without independent verification.
- 34.4 The Employer shall, where practicable, facilitate access to the Site for inspections; however, such access shall be allowed only upon the express condition that the Bidder, his personnel, and agents release and indemnify the Employer and its personnel from any liability arising from such access. The Bidder shall be solely responsible for the safety of his personnel during Site visits and shall bear all associated risks.
- 34.5 The Bidder shall be responsible for obtaining all permissions, passes, port entry clearances, pilotage approvals, berth allocations, environmental approvals, navigational permissions, and any waivers or exemptions required for visiting or operating within the Site and dredging area(s). All associated costs, delays, duties, and obligations shall rest solely with the Bidder.
- 34.6 Before submitting a Bid, the Bidder shall satisfy himself in all respects regarding the conditions prevailing at the Site and dredging areas, including but not limited to:
- (a) existing facilities, port infrastructure, and local operating conditions;
 - (b) marine traffic patterns and navigational restrictions;
 - (c) hydrographic, tidal, meteorological, climatological, and oceanographic conditions;
 - (d) means of access to and exit from the dredging area(s);
 - (e) marine safety regulations and environmental compliance requirements;
 - (f) availability of tugs, pilots, survey support, and marine services;
 - (g) availability and cost of fuel, water, provisions, labour, transport, and storage;
 - (h) risks, contingencies, and any other circumstances that may influence the Bid;
 - (i) suitability of berths, anchorages, and lay-by areas for the Bidder's proposed vessels.
- 34.7 The Bidder shall make all enquiries and assessments necessary to ensure that the proposed dredger(s), survey vessels, crew, equipment, and operational plans are suitable for the actual conditions at the Site. This includes determining the sufficiency of transport arrangements, vessel draught limits, safe access routes, bar conditions near port entrance, and any seasonal operational restrictions.
- 34.8 No claim, adjustment, extension of time, additional payment, or relief of obligations shall be entertained on account of the Bidder's failure to conduct adequate investigations, obtain required information, or verify existing conditions, nor for any misunderstanding or incorrect assessment of the Site, dredging area(s), or surrounding marine conditions.

- 34.9 By submitting a Bid, the Bidder shall be deemed to have fully inspected the Site and dredging area(s), to have fully acquainted himself with all relevant conditions and risks, and to have included adequate allowances in his Bid for all such conditions.

IB.35 Pre-Bid Meeting

- 35.1 A Pre-Bid Meeting will be held on **19 December 2025 at 10:30 am.at the NLC Headquarters, Rawalpindi**. The purpose of the meeting is to provide clarifications and respond to queries raised by prospective Bidders regarding the Bidding Documents, technical requirements, contractual provisions, and any other matter relevant to the preparation and submission of Bids.
- 35.2 All prospective Bidders, or their duly authorized representatives, are encouraged to attend the Pre-Bid Meeting. Attendance is not mandatory; however, Bidders who do not attend shall be deemed to have fully familiarised themselves with the Bidding Documents and with all clarifications or amendments issued subsequently. For security and administrative purposes, all attendee, particularly foreign Bidder representatives who choose to attend in person, must submit complete particulars, including CNIC and/or Passport details, no later than 16 December 2025. Participation via video link will be facilitated for those unable to attend in person.
- 35.3 Any further details regarding the Pre-Bid Meeting, including confirmation of venue or schedule, shall be communicated by the Employer in writing, as necessary.
- 35.4 All queries in written must be received by the Employer via email no later than three days before the pre-bid meeting (December 16, 2025). No verbal queries will be entertained.

IB.36 Integrity Pact

- 36.1 The Bidder shall sign and stamp the Integrity Pact provided in Schedule-H to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the Bid non-responsive.

IB.37 General Performance of the Bidders

- 37.1 The Employer reserves the right to obtain information regarding performance of the Bidders on their previously awarded contracts / works (Schedule-I to bid). The Employer may in case of consistent poor performance of any Bidder as reported by the employers of the previously awarded contracts, inter alia, reject his bid and/or refer the case to the Pakistan Engineering Council. Upon such reference, PEC in accordance with its rules, procedures and relevant laws of the land take such action as may be deemed appropriate under the circumstances of the case including black listing of such Bidder and debarring him from participation in future bidding for similar works.

(H) BIDDING DATA SHEET (BDS)

Clause Ref.	Description	Data / Requirements
IB.1	Scope of Bid	Hiring of Survey Boat
IB.2	Eligible Bidders	As per PPRA Rule 19. Foreign & local firms allowed except India & Israel. JV permitted.
IB.3	Cost of Bidding	Bidder to bear all costs.
IB.5	Last Date for Clarification (PPRA Rule 31)	31 December 2025 is the last date for receipt of clarifications. Queries will be responded to by 05 Jan 2026
IB.6	Latest Addendum Issuance	05 Jan 2026
IB.7	Language of Bid	English only.
IB.8	Documents Comprising the Bid	Technical Proposal & Financial Proposal — Separate sealed envelopes.
IB.9	Currency	100% PKR
IB.10	Qualification Requirements	Experience, financial turnover, boat capability, survey vessel capability, class certificates, crew.
IB.12	Bid Validity (PPRA Rule 26)	120 days from opening of Technical Bids.
IB.13	Bid Security (PPRA Rule 25)	PKR 15 million ; validity = bid validity + 28 days.
IB.14	Sealing & Marking	Technical & Financial separately sealed; both inside a third outer envelope.
IB.15	Deadline for Submission (PPRA Rule 27)	10 January 2026 – 11:30 AM
IB.15.5	Procurement Timeline	As per tender schedule (published, pre-bid, evaluation, LOA, contract signing).
IB.16	Late Bids	Not accepted.
IB.17	Modification / Withdrawal	Modification not allowed. Bidder can withdraw before Tech meeting
IB.18	Technical Bid Opening (PPRA Rule 28)	10 January 2026 – 12:00 hours
IB.18.7	Technical Evaluation Criteria	35% Weightage (as defined).
IB.18.11	Financial Evaluation Criteria	65% Weightage (MAB formula as defined).
IB.18.12	MAB Formula	$S = (St \times 0.35) + (Sf \times 0.65)$
IB.19	Confidentiality (PPRA Rule 41)	No contact with Employer during evaluation.
IB.20	Award Basis	Highest ranked MAB bidder.

Clause Ref.	Description	Data / Requirements
IB.21	LOA Issuance (PPRA Rule 38)	After technical + financial evaluation.
IB.22	Right to Reject (PPRA Rule 33)	Employer may reject any/all bids.
IB.23	Notification of Award	Through LOA.
IB.24	Variations	Up to 365 days extension at same unit rates.
IB.26	Performance Security	As per Contract Agreement; must be submitted within 07 days of LOA.
IB.27	Contract Signing	Within 07 days after submission of Performance Security.
IB.28–37	Other Conditions	Integrity Pact, JV rules, Alternate Proposals, Site Visit, HSE, Eligibility, Experience, PPRA compliance.

(I) APPENDICES & STANDARD FORMS

The Appendices are as given below:

- Appendix-A: Name of Eligible Countries
- Appendix-B: Evidence of Bidder's Capabilities

Form:

- Appendix-C: Bid Form - Form of Technical Proposal
- Appendix-D: Bid Form - Form of Financial Proposal
- Appendix-E: Bid Security Form
- Appendix-F: Form of Performance Security
- Appendix-G: Form of Contract Agreement
- Appendix H: Integrity Pact
- Appendix I: Contract Agreement
- Appendix J: Time Charter Party Agreement
- Appendix K: Specialized Dredging Insurance

Appendix A: NAME OF ELIGIBLE COUNTRIES

All except India and Israel.

Appendix B: EVIDENCE OF BIDDER'S CAPABILITY

Time Charter of Dredging Vessels

Note:

Bidders shall provide the following information as separate annexures and indicate below the Bid Reference (page / section / annex number) for each requirement.

S. No.	Information to be Supplied (Specific to Survey boat)	Bid Reference
1	Name of Bidder, registered business address, country of incorporation.	
2	Type of firm (sole proprietor, partnership, corporation, JV) and names of owners/partners. For JV: notarized JV Agreement.	
3	Financial Information (MANDATORY): <ul style="list-style-type: none"> Audited financial statements for last 3 years. Projected assets & liabilities for next 2 years. Annual turnover: Local \geq PKR 1.5B/year. Total works in hand. Total works completed in last 3 years. 	
4	Marine Dredging Survey Experience: <ul style="list-style-type: none"> Operated minimum 3 survey boats of required class. Completed minimum 3 contracts \geq PKR 100m in last 5 years. Experience in port/channel/maintenance dredging surveys 	
5	Location and address of vessel ownership/company headquarters or fleet management base.	
6	Description of survey boat	
7	Shipyard/manufacturing/overhaul facilities: testing capacity, dry-dock capability, warranty support, suppliers.	
8	Quality Control & Safety: <ul style="list-style-type: none"> Equipment Calibration Survey QA/QC plan. Strict Standard Operating Procedures (SSOW) Risk Assessments (RAs) Safety Training & Certification ISO certifications (9001/14001/45001). ISM Code compliance. 	
9	Human Resources: <ul style="list-style-type: none"> Names, qualifications, resumes of key personnel Qualified Hydrographer, data operator etc. 	

S. No.	Information to be Supplied (Specific to Survey boat)	Bid Reference
10	Number of years in marine dredging survey operations or maritime construction.	
11	Age, service history & operational record of each survey vessel offered; last dry-dock (≤ 36 months).	
12	Reference list of similar dredging survey & hydrographic projects completed (client, scope, vessel, contract value, certificates).	
13	Details of ongoing projects and contractual commitments (per JV partner if applicable).	
14	Banking Details: <ul style="list-style-type: none"> Banking references with authority for inquiry. Overdraft/credit limits, facility amount & validity. 	
15	Health, Safety & Environmental (HSE) Plans: OSRP, MARPOL compliance, garbage plan, ballast water plan, crew medical certifications.	
16	Detailed Hydrographic survey methodology: production plan, daily logs, survey schedule, mobilization plan, towage plan, and contingency strategy.	
17	Hydrographic Survey Capability: <ul style="list-style-type: none"> Survey boat specifications. MBES/SBES, MRU, RTK/DGPS, SVP. Software licenses (HYPACK / QINSY / EIVA). Calibration & patch test records. 	
18	Vessel Certification: IACS Class Certificate, Load line Certificate, Safety Equipment Certificate, Safety Construction Certificate, Radio Certificate, Flag-state documentation.	
19	Mobilization Plan: Mobilization timeline, towing arrangements, port clearance process, insurance, transit duration, bunkering plan.	
20	Survey & Measurement System: Methodology for pre-, interim- and post-dredge surveys; QA/QC; data processing; deliverables.	
21	Insurance Coverage: P&I, H&M, towage insurance, pollution liability.	
22	AIS Tracking & Reporting: AIS system details, daily production logs, hopper load records, cycle-time monitoring, real-time reporting capabilities.	
23	Local Presence:	

S. No.	Information to be Supplied (Specific to Survey boat)	Bid Reference
	Details of the Pakistani office/agent for operations, spares, permits, regulatory support.	
24	Compliance with Pakistan Laws: Customs clearance capability, tax registration (where applicable), work visas, marine operation permits, port authority approvals.	
25	Subcontractor (if any): Details, roles, experience, subcontracting agreements.	
26	Any additional information demonstrating marine capability, operational readiness, fleet strength, or technical competence.	

Appendix C: Bid Form

FORM OF TECHNICAL PROPOSAL

[On Bidder's Letterhead]

(To Be Submitted in a Separate Sealed Envelope Marked "TECHNICAL PROPOSAL")

To: National Dredging & Marine Services (NDMS)

Subject: Technical Proposal – Package C: Hiring of Locally Owned, Fully Equipped Hydrographic Survey Boat, including MBES/SBES equipment, personnel, software & deliverables

We hereby submit our Technical Proposal in accordance with the requirements of the bidding documents. All information provided is complete, true, and conforms to the evaluation criteria.

We hereby confirm that the Bid Security is included in a sealed envelope in the TECHNICAL proposal submitted.

We confirm that this Bid and the Employer's written acceptance thereof shall constitute a binding contract between us until the formal Contract Agreement is prepared and executed.

Authorized Person:

Name: _____

Designation: _____

Signature + Stamp: _____

Date: _____

Appendix D: Bid Form

FORM OF FINANCIAL PROPOSAL

[On Bidder's Letterhead]

(To Be Submitted in a Separate Sealed Envelope Marked "FINANCIAL PROPOSAL")

Tender Title:

Package C: Hiring of Locally Owned, Fully Equipped Hydrographic Survey Boat, including MBES/SBES equipment, personnel, software & deliverables

Employer:

National Dredging & Marine Services (NDMS)

Tender No.: _____

Bidder's Name: _____

Registered Address: _____

Country of Incorporation: _____

Telephone: _____

Email: _____

Bid Submission Date: _____

DECLARATION

We, the undersigned, hereby submit our **Financial Proposal** for the services described in the Bidding Documents.

This proposal is submitted strictly in accordance with:

- the Instructions to Bidders (ITB),
- the General & Particular Conditions of Contract, and
- all Addenda issued up to the date of submission.

We confirm that:

- All prices are **inclusive of all applicable taxes, duties, insurances, overheads, and costs**, unless stated otherwise.
- All prices are quoted as per the requirements of the pricing schedules contained in the Tender.

- This Financial Proposal is binding upon us and remains valid for the period specified in the Bidding Documents.
- We confirm that this Bid and the Employer's written acceptance thereof shall constitute a binding contract between us until the formal Contract Agreement is prepared and executed.

AUTHORIZED SIGNATORY

Name: _____

Designation: _____

Signature: _____

Date: _____

Company Stamp: _____

Appendix E: BID SECURITY FORM

(Bank Guarantee)

Security Executed on _____
(Date)

Name of Surety (Bank) with Address: _____
(Scheduled Bank in Pakistan)

Name of Principal (Bidder) with Address _____

Penal Sum of Security Rupees _____ (Rs. _____)

Bid Reference No. _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal (Bidder) we, the Surety above named, are held and firmly bound unto _____ (hereinafter called the 'Employer') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying Bid dated _____ for Bid No. _____ for _____ (Particulars of Bid) to the said Employer; and

WHEREAS, the Employer has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the Employer, conditioned as under:

- (1) that the Bid Security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived;
- (2) that the Bid Security of unsuccessful Bidders will be returned by the Employer after expiry of its validity or upon signing of the Contract Agreement; and
- (3) that in the event of failure of the successful Bidder to execute the proposed Contract Agreement for such work and furnish the required Performance Security, the entire said sum be paid immediately to the said Employer pursuant to IB.26 of the Instruction to Bidders for the successful Bidder's failure to perform.

BS-2

NOW THEREFORE, if the successful Bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract with the said Employer in accordance with his Bid as accepted and furnish within twenty-eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the Employer, the said sum upon first written demand of the Employer (without cavil or argument) and without requiring the Employer to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Employer by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the Employer forthwith and without any reference to the principal (Bidder) or any other person.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

SURETY (Bank)

WITNESS:

Signature _____

1. Name _____

Corporate Secretary (Seal)

Title _____
Corporate Guarantor (Seal)

2. _____

Name, Title & Address

Appendix F: FORM OF PERFORMANCE SECURITY

(Bank Guarantee)

Guarantee No. _____

Executed on _____

Expiry date _____

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with address: _____
(Scheduled Bank in Pakistan)

Name of Principal (Bidder) with address: _____

Penal Sum of Security (express in words and figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the Employer)

in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for _____
_____(Name of Contract) for the _____(Name of Project).

NOW THEREFORE, if the Principal (Bidder) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Conditions of Contract are fulfilled.

PS-2

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Bidder) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Guarantor (Bank)

Witness:

1. _____

Signature _____

Name _____

Corporate Secretary (Seal)

Title _____

2. _____

Name, Title & Address

Corporate Guarantor (Seal)

Appendix G: FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the “Agreement”) made on the _____ day of _____ (month) 20 _____ between _____ (hereafter called the “Employer”) of the one part and _____ (hereafter called the “Bidder”) of the other part.

WHEREAS the Employer is desirous that certain Supplies, viz _____ should be provided by the Bidder and has accepted a Bid by the Bidder for the supply and completion of such scope of work therein.

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda / Clarification as agreed or otherwise, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Contract, viz:
 - (a) The Contract Agreement;
 - (b) The Letter of Acceptance;
 - (c) Addendum(s)
 - (d) The completed Form of Bid
(Form of Technical Bid & Form of Financial Bid);
 - (e) The Particular / Special Conditions of Contract;
 - (f) The General Conditions of Contract;
 - (g) The priced Bill of Quantities;
 - (h) The completed Appendices to Bid;
 - (i) The Specifications.
 - (j) _____ (any other)
3. In consideration of the payments to be made by the Employer to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Employer to supply and complete the Works therein in conformity and in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Bidder, in consideration of the supply and completion of the Works as per provisions of the Contract, 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.

CA-2

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Bidder

Signature of Employer

(Seal)

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

(Name, Title and Address)

(Name, Title and Address)

Appendix H: INTEGRITY PACT (PPRA Rule-7)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract Number: _____

Dated: _____

Contract Value: _____

Contract Title: _____

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto. [Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

[Buyer]

[Seller/Supplier]

Appendix I: CONTRACT AGREEMENT

Drafting Note: Items highlighted in green within the contract will be inserted prior to signing.

This time charter Agreement (hereinafter called the “Agreement”) is made the _____ day of _____ 2026, between **National Dredging & Marine Services (Private) Limited**, a company duly organized and existing under the laws of Pakistan, with its registered office at HQ Logistics Services NLC, Near New Haji Camp, Mai Kolachi Road, Sultanabad, Karachi (hereinafter called “the **Employer**”) of the one part, and _____, with its registered office at _____ (hereinafter called the “**Contractor**”) of the other part.

Whereas the Employer desires that the Works known as **HIRING OF HYDROGRAPHIC SURVEY BOAT**

should be executed by the Contractor, and has accepted a bid by the Contractor for the execution and completion of such Works (including providing integrated dredging services, which include making its vessel available and performing the dredging works, on the terms and conditions set forth herein) and the remedying of any defects therein.

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement:
 - (a) Form of contract, dated _____;
 - (b) the Conditions of Contract, including:
 - (i) the General Conditions;
 - (ii) the Particular Conditions Part A - Contract Data; and
 - (iii) the Particular Conditions Part B - Special Provisions;
 - (c) the Specification, including:
 - (i) Specifications Part A – Specific Provisions; and
 - (ii) the Specifications Part B – Technical Provisions;
 - (d) the Drawings;
 - (e) the Bill of Quantities;
 - (f) Conditions of RFP; and

- (g) the Schedules.
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein, in conformity with the provisions of the Contract.
 4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

AS THE EMPLOYER

for and on behalf of **NATIONAL
DREDGING & MARINE SERVICES
(PRIVATE) LIMITED** through its
authorised signatory

}

SIGNATURE

Name:

Designation:

IN THE PRESENCE OF

WITNESSES:

1- Name:

Address:

CNIC No. / Passport No.:

2- Name:

Address:

CNIC No. / Passport No.:

.....

..

SIGNATURES

.....

..

.....

AS THE CONTRACTOR

for and on behalf of through its
authorised signatory

Name:

Designation:

IN THE PRESENCE OF

WITNESSES:

1- Name:

Address:

CNIC No. / Passport No.:

2- Name:

Address:

CNIC No. / Passport No.:

}

SIGNATURE

.....

..

SIGNATURES

.....

..

.....

CONDITIONS OF CONTRACT

The Conditions of Contract comprise two parts:

- (a) General Conditions
- (b) Particular Conditions

GENERAL CONDITIONS

These Conditions are the “General Conditions” which form part of the “*FIDIC Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer Second Edition (2017 Red book, Reprinted 2022 with amendments)*” published by International Federation of Consulting Engineers.

PARTICULAR CONDITIONS

The Particular Conditions (PC) complement the General Conditions (GC) to specify dates, contractual requirements, and special circumstances related to the Works. The PC consists of two parts: Part A - Contract Data and Part B - Special Provisions. The provisions to be found in the Special Provisions (Particular Conditions - Part B) take precedence over the equivalent provisions found under the same Sub-Clause number(s) in the General Conditions, and the provisions of the Contract Data (Particular Conditions - Part A) take precedence over the Special Provisions (Particular Conditions - Part B).

PART A - CONTRACT DATA

SUB-CLAUSE	DATA TO BE GIVEN	DATA
1.1.27	Defects Notification Period (DNP)	No DNP for Dredging Works and one hundred and eighty-three (183) days for all other works.
1.1.31	Employer’s name and address	National Dredging & Marine Services (Pvt.) Ltd. HQ Logistics Services NLC, Near New Haji Camp, Mai Kolachi Road, Sultanabad, Karachi
1.1.35	Engineer’s name and address	Chief Project Officer, National Dredging & Marine Services (Pvt.) Ltd.
1.1.73	Sections	Completion of Works as a whole.
1.1.84	Contract Duration	120 days extendable
1.3(a)(ii)	Agreed methods of electronic transmission	Email at the following address (followed by submission of a hardcopy of such Notice of communication): procurement@ndms.pk
1.3(d)	Address of Employer for communications	NLC Headquarters, Harding Road, Rawalpindi Pakistan
1.3(d)	Address of Engineer for communications	-
1.3(d)	Address of Contractor for communications	

1.4	Contract shall be governed by the law of	The Islamic Republic of Pakistan
1.4	Communication/Ruling language	English
1.8	Number of additional paper copies of the Contractor's Documents	Eight (08)
2.1	The Contractor shall be given right of access to all or part of the Site within:	No later than the Commencement Date
2.4	Employer's financial arrangements	The Employer has sufficient funds for the project.
3.2(e)(ii)	Maximum percentage of the Accepted Contract Amount for which Variation may be instructed by the Engineer without the Employer's consent	One percent (1%) of the Accepted Contract Amount
4.2	Performance Security	Ten (10%) percent of the Accepted Contract Amount in United States Dollars (USD)
4.19	Period of payment for temporary utilities	Each month
4.20	Number of additional paper copies of progress reports	Nine (9) copies
5.1(a)	Maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount)	Thirty percent (30%)
5.1(b)	Part of Works for which subcontracting is not permitted	Dredging works and disposal of dredged material.
6.5	Normal working hours on the Site	Dredging works can be carried out twenty-four (24) hours per day, seven (7) days per week (i.e. 24/7) throughout the Contract period, except as stopped by the Employer/Engineer by giving advance notice to the Contractor in writing.
8.3	Number of additional paper copies of programmes	Eight (8) copies
8.8	Delay Damages payable for each day of delay	0.025% (zero point zero two five percent) of the Accepted Contract Amount for each day of delay in completion of the whole of the Works.
8.8	Maximum amount of Delay Damages	Ten percent (10%) of the Accepted Contract Amount
8.14	Applicability of Incentives for Early Completion	Not Applicable
13.4(b)(ii)	Percentage rate to be applied to Provisional Sums for overhead charges and profit	Twenty-five percent (25%)
14.3	Period of Payment	28 days
14.3(b)	Number of additional paper copies of Statements	Eight (8) copies

14.3(iii)	Percentage of Retention	5% of the amount of the Interim Payment Certificate (IPC).
14.5	Plant and Materials for payment when shipped	Not Applicable
14.6	Interim Payment Certificate (IPC) (Running Bills)	IPC will be raised on Monthly basis
14.7(b)(i)	Period for the Employer to make interim payments to the Contractor under Sub-Clause 14.6 [<i>Issue of IPC</i>]	Within twenty-eight (28) days from the date of receipt of Engineer's Certificate for payment by the Employer
14.7(b)(ii)	Period for the Employer to make interim payments to the Contractor under Sub-Clause 14.13 [<i>Issue of FPC</i>]	Within Sixty-nine (69) days of receipt of the Engineer's Certificate for payment by the Employer
14.7(c)	Period for the Employer to make final payment to the Contractor	Sixty-nine (69) days
14.7(d)	Period for payment of Mobilization Fee to the Contractor	Within twenty-eight (28) days of receipt of the relevant Mobilization Fee Certificate by the Employer
14.8	Financing charges for delayed Payment	Nil
14.11.1(b)	Number of additional copies of the draft Final Statement	Eight (8) copies
14.15	Currencies of payment of Contract Price	Local Currency (Pakistani Rupees (PKR)) and Foreign Currency (United States Dollars (USD))
14.15(a)(i)	Proportions or amounts of Local and Foreign Currencies are	Local Currency (PKR): Fifty percent (50%) of each payment; and Foreign Currency (USD): Fifty percent (50%) of each payment,
14.15(c)	Currencies and proportions for payment of Delay Damages	100% PKR
14.15(f)	Rate of exchange	The TT selling rate of exchange published by the State Bank of Pakistan (SBP), as prevailing on the date of certification of invoice by the Engineer.
17.2(d)	Forces of nature, the risks of which are allocated to the Contractor	Nil
19.1	Periods for submission of: (a) evidence of insurance (b) relevant policies	(a) Not Later than the Commencement Date (b) Within Fourteen (14) days of the Commencement Date
19.1	permitted deductible limits: (i) insurance required for the Works (ii) insurance required for Goods (iii) insurance required for liability for breach of professional duty	(i) Ten percent (10%) of the loss amount on each & every loss (ii) Nil (iii) Nil (iv) Nil (v) Nil (vi) Nil (vii) Nil Note document to be provided

	(iv) insurance required against liability for fitness for purpose (if any is required) (v) insurance required for injury to persons and damage to property (vi) insurance required for injury to employees (vii) other insurances required by Laws and by local practice	
19.2(1)(b)	additional amount to be insured (as a percentage of the replacement value)	15% of the replacement value (Accepted Contract Amount)
19.2.2	(i) extent of insurance required for Goods (ii) amount of insurance required for Goods	(i) from Ex-Works (i.e., works, factory, warehouse, etc.) to delivery at the Site (ii) Full replacement value
19.2.3(a)	amount of insurance required for liability for breach of professional duty	Full replacement value of the Works to be designed by the Contractor
19.2.3(b)	insurance required against liability for fitness for purpose	Yes
19.2.3	period of insurance required for liability for breach of professional duty	Until the date of issuance of the Performance Certificate
19.2.4	amount of insurance required for injury to persons and damage to property	Injury to a person and a fatal case: in accordance with the applicable Workmen Compensation Act Damage to property: Pakistani Rupees One Billion and Five Hundred Million only (PKR 1,500,000,000/-) per incident, without limit to the number of incidents.
19.2.6	other insurances required by Laws and by local practice (give details)	All insurances as applicable, to the extent of execution of the project, under Federal and Provincial laws of the Islamic Republic of Pakistan
19.2.7	Insurance Companies	Insurance policies to be submitted from either National Insurance Company Limited or any other insurance company (minimum AA± rating) operating in Pakistan and acceptable to the Employer.
21.1	Time for appointment of DAB	Within [<i>Number of Days to be Inserted</i>] days after the Commencement Date, unless otherwise agreed by the Parties
21.1	The DAB shall comprise	Three (3) members
21.6	Arbitration	Disputes shall be settled in accordance with the Arbitration Act, 1940, as applicable in Pakistan. The seat of arbitration shall be Karachi, Pakistan.

PARTICULAR CONDITIONS PART B - SPECIAL PROVISIONS

SUB-CLAUSE	AMENDMENT
1.1.4	The definition is deleted and substituted with the following: “ Base Date ” means January 10, 2026
1.1.14	The definition is deleted and substituted with the following: “ Contractor ” means the person named as contractor in the Letter of Intent and/or the Contract Agreement, and the legal successors in title of such person. ”
1.1.51	The following is added after the word “means”: “(if applicable)”
1.1.65A	The following new definition is added as a Sub-Clause 1.1.53(A) after Sub-Clause 1.1.65:
1.1.71	The following is added after the words “included in the Contract”: “including Schedule A (<i>Construction Schedule</i>), Schedule B (<i>Method of Performing the Work</i>), Schedule C (<i>List of Major Equipment</i>), Schedule D (<i>Organization Chart</i>), Schedule E (<i>List of Sub-Contractors</i>), and Schedule F (<i>Construction of Camp and Housing Facilities</i>)”
1.1.76	The following is added at the end of the definition: “and consists of two parts, i.e., i) Part A - Specific Provisions; and ii) Part B - Technical Provisions”.”
1.1.81	The definition is deleted and substituted with the following: “ Tender ” means, if applicable: (a) the RFP floated by the Employer, bid submitted by the Contractor to the Employer in response to the RFP prior to signing of the Contract Agreement; (b) cumulatively, the Letter of Intent, the Contractor’s Proposal, the JV Undertaking (if applicable), and all other document documents which the Contractor submitted with its bid; or (c) such other equivalent documents submitted by the Contractor to the Employer prior to signing of the Contract Agreement, in each case, as included in the Contract”
Priority of Documents	The documents listed at (a) through (k) of this Sub-Clause are deleted and substituted with the following: (a) the Contract Agreement; (b) the form of contract; (c) the Particular Conditions Part A - Contract Data;

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	(d)the Particular Conditions Part B - Special Provisions; (e)the General Conditions; (f) the Specifications Part A – Specific Provisions (g)the Specifications Part B – Technical Provisions (h)the Drawings; (i) the Bill of Quantities; (j) any other documents forming part of the Contract.
1.6 Contract Agreement	In the last line of the first paragraph, the text “shall be borne by the Employer” shall be deleted and substituted by “shall be borne by the Contractor”.
1.12 Confidentiality	After the second paragraph of this Sub-Clause, add: “If any dispute arises as to the necessity of any publication or disclosure for the purpose of the Contract, the same shall be referred to the decision of the Engineer, whose award shall be final.” After the last paragraph of this Sub-Clause, add: “Should the Employer suffer any loss whatsoever due to non-compliance of the obligations provided under this Sub-Clause 1.12 [<i>Confidentiality</i>] by the Contractor, his representative, his office staff, and all other persons employed by him, as well as of his Subcontractors, the Contractor shall fully indemnify the Employer therefore. Beyond this, the Employer retains the right to take any further steps which it deems suitable in this connection.”
2.1 Right of Access to the Site	After the last paragraph of this Sub-Clause, add: “Notwithstanding the foregoing, the respective areas of the Site designated in the Drawings will be handed over to the Contractor in the determined sequence according to the Contract, and/or in accordance with the Contractor’s proposals for execution of the Works as approved by the Employer / Engineer. The Employer (will carry out this handover each time after receipt of the Contractor's application, approved by the Engineer. At the Commencement Date, the Contractor will be handed over by the Employer an adequately large part of the Site, which takes his requirements into account, enabling him to commence the Works and to proceed with the approved programme. Adequate areas as shown on the Drawings and/or as deemed suitable by the Employer (for the setting up of storage and working places including of workshop, provision of berthing facilities for Contractor’s vessels, as well as for the erection of sheds, storage rooms, for the setting up of temporary plant and setup, within Port premises, will be placed at the Contractor's disposal without any charge. Further areas required by the Contractor shall be procured by him at his own expense.

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	<p>The approach to active Port roads, operational areas, and other approaches and roads must be kept clear for general and public traffic during all construction phases by the Contractor.</p> <p>The Contractor shall prepare, improve, and maintain at his own expense all areas placed at his disposal, as well as all roads and approaches used by him inside or outside the area of work.</p>
2.4 Employer's Financial Arrangements	<p>After the last paragraph of Sub-Clause 2.4, add:</p> <p>“The Employer shall not be responsible for the arrangement of additional payment security and any costs, fees, or expenses arising from the Contractor’s demand, including but not limited to:</p> <ul style="list-style-type: none"> (a) Confirmation of Letter(s) of Credit (LC) through a foreign bank or financial institutions; (b) Bank guarantees; (c) Performance bonds; (d) Insurance costs; or (e) Any other financial instruments or arrangements requested by the Contractor to secure their payment.”
2.7 Temporary Importation, Licenses, and Customs Clearance	<p>The following Sub-Clause 2.7 is added after Sub-Clause 2.6:</p> <p>“The Contractor shall remain responsible for the earliest clearance of his plant, material, Contractor’s Equipment, etc., from the customs as per prevailing rules. The Employer shall reasonably assist and facilitate the Contractor for temporary importation and customs clearance of the Contractor’s Equipment (including the relevant vessels and the dredging equipment, machinery, and accessories onboard it). Both Parties shall each appoint in advance a dedicated representative for such purposes.</p> <p>The Contractor shall be responsible for preparing all documentation required for temporary importation and customs clearance. The Employer shall provide all reasonable assistance and support to the Contractor.</p> <p>The Contractor shall be responsible for ensuring that all vessels possess valid statutory and class certificates and are free from any deficiencies that may lead to detention or adverse remarks under Port State Control (PSC) inspections, customs inspections, or coast guard inspections. The Contractor shall promptly rectify any non-conformities so identified.</p> <p>The Contractor shall bear the cost of customs duty, sales tax, and any other applicable tax/duty, in each case, related to the temporary import</p>

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	<p>clearance of the vessel. The amount of such customs duty, sales tax, and all other duties shall correspond to the rate in force at the time of the import into Pakistan. The Contractor shall bear, and the rates and prices under the Contract shall be deemed to include, all expenses in connection with the landing and shipment of all materials, dredging plant, Contractor's Equipment or other things, whether for permanent or temporary works brought into or dispatched from Pakistan through the Port Qasim or any other ports for the purpose of the Works including port and light dues, pilot charges, land in charges, wharfage, demurrage and all other similar charges and dues, where applicable.</p> <p>The Contractor shall obtain all necessary import and export licenses for all Contractor's Equipment. Temporary Works, Plant, and materials of any kind whatsoever required for the execution of the Works. The Contractor shall bear all costs incurred in the acquisition of such licenses and shall be deemed to have satisfied himself with regard to all his liabilities under the Laws governing the processing of the said licenses, and no separate payment will be made to the Contractor in respect of such costs. The Contractor shall ensure that requests for import and export licenses are submitted in sufficient time to complete all formalities before the said licenses are required.</p> <p>The Contractor shall provide the Employer, Port Authorities, and the Engineer with receipts for all articles imported by the Contractor under the Contract, in order to register each individual shipment received at the Site. Each shipment shall be carefully checked omits arrival at the Site by the Contractor.</p> <p>Aside from the cost of customs duty, sales tax, and any other applicable tax/duty, in each case, related to the temporary import clearance of the vessels (which shall also be paid by the Contractor), and subject to the applicable Laws, the Contractor's Equipment, including essential spare parts, imported by the Contractor for the sole purpose of executing the Contract may be temporarily exempt from the payment of import duties and taxes upon initial importation, provided that the Contractor shall post with the customs authorities at the port of entry an approved re-export bond or bank guarantee, valid until the Time for Completion plus six months, in an amount equal to the full import duties and taxes which would be payable on the assessed imported value of such Contractor's Equipment and spare parts, and callable in the event the Contractor's Equipment is not re-exported from the Country on completion of the Contract. A copy of the bond or bank guarantee endorsed by the customs authorities shall be provided by the Contractor to the Employer upon the importation</p>

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	<p>of individual items of the Contractor's Equipment and spare parts. Upon re-export of individual items of Contractor's Equipment or spare parts, or upon the completion of the Contract, the Contractor shall prepare, for approval by the customs authorities, an assessment of the residual value of the Contractor's Equipment and spare part to be re-exported, based on the depreciation scale(s) and other criteria used by the customs authorities for such purposes under the provisions of the applicable Laws. Subject to the applicable Laws, such import duties and taxes shall be due and payable to the customs authorities by the Contractor on:</p> <ul style="list-style-type: none"> (a) the difference between the initial imported value and the residual value of the Contractor's Equipment and spare parts to be re-exported; and (b) on the initial imported value of the Contractor's Equipment and spare parts remaining in the Country after completion of the Contract. <p>If the amounts are not paid upon being invoiced, the security shall be called in the full amount remaining.”</p> <p>The Contractor shall have the right to replace the Contractor’s Equipment with similar equipment exhibiting equivalent or superior performance, as permitted under the Contract, subject to the Employer’s prior written approval and at no additional cost to the Employer, provided that such replacement does not adversely affect the timely completion of the Works. Upon receipt of such approval from the Employer, and arrival and customs clearance (if applicable) of the new Contractor’s Equipment, the Employer shall not be entitled to occupy or detain the Contractor's Equipment being replaced. Furthermore, in the event that the Contractor submits a request for adjustment of its equipment, the Employer shall provide the necessary assistance regarding the relevant vessel's customs entry and exit procedures.</p>
2.8 Use of Employer’s Security Resources/Services	not used
3.2 Engineer’s Duties and Authority	<p>The Engineer shall obtain the consent in writing of the Employer before taking action under the following Sub-Clauses of these Conditions:</p> <ul style="list-style-type: none"> (a) Consenting to the subcontracting of any part of the Works under Sub-Clause 5.1 [<i>Subcontractors</i>]. (b) Any action under Sub-Clauses 8.9 [<i>Employer’s Suspension</i>] and

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	<p>8.12 [<i>Prolonged Suspension</i>].</p> <p>(c) Issuance of “Taking Over Certificate” under Sub-Clause 10.1 [<i>Taking Over the Works and Sections</i>].</p> <p>(d) Issuing the “Performance Certificate” under Sub-Clause 11.9 [<i>Performance Certificate</i>].</p> <p>(e) Sub-Clause 13.1 [<i>Right to Vary</i>]: instructing a Variation, except;</p> <p style="padding-left: 40px;">(i) in an emergency situation as determined by the Engineer, or</p> <p style="padding-left: 40px;">(ii) if such a Variation would increase the Accepted Contract Amount by less than the percentage specified in the Contract Data, provided that such Variations (including Variations that have been previously instructed by the Engineer under this Sub-Clause) do not exceed, in aggregate, five percent (5%) of the Accepted Contract Amount.</p> <p>(f) Sub-Clause 13.3 [<i>Variation Procedure</i>]: approving a proposal for Variation submitted by the Contractor in accordance with Sub-Clause 13.3.2 [<i>Variation by Request for Proposal</i>] or 13.2 [<i>Value Engineering</i>].</p> <p>(g) Certifying release of the second half of the Retention Money under Sub-Clause 14.9 [<i>Release of Retention Money</i>].</p> <p>(h) Issuing Final Payment Certificate under Sub-Clause 14.13 [<i>Issue of FPC</i>].</p> <p>(i) Any action under Sub-Clause 8.5 [<i>Extension of Time for Completion</i>].</p> <p>(j) Certifying additional cost determined under Sub-Clause 4.12 [<i>Unforeseeable Physical Conditions</i>].</p> <p>(k) Any action under Sub-Clause 8.8 [<i>Delay Damages</i>].</p> <p>Any such requirement shall not be applied to any action by the Engineer under Sub-Clause 3.7 [<i>Agreement or Determination</i>], as stated in Sub-Clause 3.2 [<i>Engineer’s Duties and Authority</i>] of the General Conditions.</p> <p>Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer (in consultation with), an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply, despite the absence of approval of the Employer, with any such instruction of the Engineer. The Engineer</p>

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	<p>shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Employer.</p> <p>The following is added after the words “the Employer’s consent is required” in the fourth paragraph:</p> <p>“stating that the Employer’s consent has been obtained for that specified authority”</p> <p>After the end of the last paragraph of this Sub-Clause, add:</p> <p>“Failure of the engineer to disapprove any work or materials shall not prejudice his power subsequently to disapprove such works or materials.”</p>
3.9 Engineer not Liable	<p>The following Sub-Clause 3.9 is added after Sub-Clause 3.8:</p> <p>“Approval, reviews and inspection by the Engineer of any part of the Works does not relieve the Contractor from his sole responsibility and liability for the supply of material, plant and equipment for construction of the Works and their parts in accordance with the Contract and neither the Engineer’s authority to act nor any decision made by him in good faith as provided for under the Contract whether to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Engineer to the Contractor, any Subcontractor, any of their representative, staff or employees or any other person performing any portion of the Works.”</p>
4.2 Performance Security	<p>In the second line of the first paragraph of Sub-Clause 4.2.1, the text “within 28 days after receiving the Letter of Acceptance” shall be deleted and substituted by “no later than the date of signing of the Contract Agreement”.</p> <p>After the end of the first paragraph of Sub-Clause 4.2.1, add:</p> <p>“The Performance Security shall be in the form of an unconditional, irrevocable and on demand Bank Guarantee, from any Scheduled Bank of Pakistan, having its branch in Karachi, Pakistan, and having minimum AAA rating, in favour of the Employer and Port Authority.</p> <p>The Contractor shall ensure that the Port Authority shall be named, together with the Employer, as a co-beneficiary under the Performance Security. The Performance Security shall expressly state that either the Employer or Port Authority may, independently or jointly, demand, draw or encash the Performance Security up to its full value, without reference to or consent from the other, upon occurrence</p>

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	<p>of the events provided under Sub-Clause 4.2.2 [Claims under the Performance Security].”</p> <p>In the first paragraph of Sub-Clause 4.2.2, the text “The Employer shall not make a claim under the Performance Security, except for amounts to which the Employer” shall be deleted and substituted by “The Employer shall not, and shall ensure that Port Authority shall not, make a claim under the Performance Security, except for amounts to which the Employer or Port Authority”.</p> <p>In the second paragraph of Sub-Clause 4.2.2, the text “to the extent that the Employer was not” shall be deleted and substituted by “to the extent that the Employer or Port Authority was not”.</p>
4.4 Contractor’s Document	<p>First paragraph of Sb-Clause 4.4.2 is deleted, and the text in the last paragraph is substituted with the following:</p> <p>“At the completion of the Works under the Contract, the Contractor shall furnish to the Engineer eight (8) copies and one reproducible copy of all Drawings amended to conform with the Works ‘As Built’. The price of such Drawings shall be deemed to be included in the Contract Price.”</p> <p>After Sub-Clause 4.4.3, the following Sub-Clause 4.4.4 and Sub-Clause 4.4.5 are added:</p> <p>“4.4.4 Shop Drawings</p> <p>The Contractor shall submit to the Engineer for review four (4) copies of all shop and erection drawings applicable to this Contract as per the provisions of these Conditions.</p> <p>4.4.5 Engineer’s Review</p> <p>Any review and approval by the Engineer under this Sub-Clause shall not be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory, and the Engineer’s review or approval shall not relieve the Contractor of any of his responsibilities and obligations under the Contract.”</p>
4.6 Co-operation	<p>After the end of the third paragraph of this Sub-Clause, add:</p> <p>“and also shall provide adequate precautionary facilities not to make himself a nuisance to local residents and other contractors on the Site”</p>
4.8 Health and Safety Obligations	<p>The following paragraph is added at the end of the Sub-Clause:</p> <p>“In the event of work being carried out outside the normal working hours and in the event of work being carried out at night, the</p>

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	<p>Contractor shall, at his own cost, provide and maintain such good and sufficient light as will enable the work to proceed satisfactorily and without danger. The approaches to the Site and the Works where the night work is being carried out shall be sufficiently lighted. All arrangements adopted for such lighting shall be to the satisfaction of the Engineer.</p> <p>Due precautions shall be taken by the Contractor, and at his own cost, to ensure the safety of his staff and labour as well as those of the Engineer's Representatives, Engineer's staff, other persons and property, at all times throughout the period of the Contract. The Contractor shall further ensure that suitable arrangements are made for the prevention of epidemics and for all necessary welfare and hygiene requirements."</p>
4.11 Sufficiency of the Accepted Contract Amount	<p>The following paragraph is added at the end of the Sub-Clause:</p> <p>"Notwithstanding the foregoing, the Accepted Contract Amount excludes sales tax."</p>
4.20 Progress Reports	<p>At the end of sub-paragraph (g), the word "and" is deleted, and at the end of sub-paragraph (h), the full stop (.) is replaced with ";", and the following new sub-paragraphs are added as:</p> <p>"(i) a detailed programme for the whole of the Works (in hard colour copy as well as soft copy of Primavera or Equivalent Software Schedule) for the following components:</p> <p>Execution of Works and Equipment deployment schedules;</p> <p>Labour Employment;</p> <p>Local Material Procurement;</p> <p>Material Imports, if any;</p> <p>Other details as required by the Engineer; and</p> <p>Salient Contractual and Project Information.</p> <p>(j) a detailed planned programme for the execution of the Works for the next fifty-six (56) days to enable the Engineer to determine its programme of inspection and testing."</p> <p>The following paragraph is added at the end of the Sub-Clause:</p> <p>"During the period of the Contract, the Contractor, in addition to the requirements of Specifications, shall submit to the Engineer not later than the sixth (6th) day of the following month, nine (9) hard colour</p>

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	<p>copies of the Monthly Progress Reports (along with one (1) soft copy of Primavera or equivalent monitoring software File) covering:</p> <p>A Construction Schedule indicating the monthly progress in percentage;</p> <p>Description of all work carried out since the last report;</p> <p>Description of the work planned for the next 56 days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;</p> <p>Monthly summary of daily job record;</p> <p>Color photographs of required size and quantity advised by the Engineer, so as to illustrate progress (digital and hard copy); and</p> <p>Information about problems and difficulties encountered, if any, and proposals to overcome the same.</p> <p>During the period of the Contract, the Contractor shall keep a daily record of work progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location, quantities constructed, quantities underway, assignment, and working status of all the Contractor's Equipment."</p>
5.1 Subcontractors	<p>The following paragraph is added at the end of the Sub-Clause:</p> <p>"All subcontracts relating to the Works shall include provisions which entitle the Employer to require the subcontract to be assigned to the Employer, or Port Authority, under sub-paragraph (a) of Sub-Clause 15.2.3 [After Termination], including assignment of any Original Equipment Manufacturer (OEM) securities to the Employer.</p> <p>The Contractor shall give reasonable opportunity and preference to contractors from the Islamic Republic of Pakistan for subcontracts for the Works, and endeavor to employ such contractors as Subcontractors, provided that in the case of foreign contractors, the Contractor shall ensure that such contractors are not:</p> <ul style="list-style-type: none"> (a) any person whose primary residence is in or who is incorporated or organized under the laws of a country: <ul style="list-style-type: none"> (i) which is subject to sanctions levied by the United Nations (or the Security Council thereof) pursuant to authority derived from Article 41 of Chapter 7 of the United Nations Charter (Sanctioned Country); or (ii) with which the Government of Pakistan does not

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	<p>have commercial or trade relations or otherwise does not maintain official diplomatic relations (an Unfriendly Country);</p> <p>(b) any national government, or any political subdivision, of any Sanctioned Country or Unfriendly Country;</p> <p>(c) any ministry, department, authority, or statutory corporation of, or any corporation or other entity (including a trust), owned or controlled directly or indirectly by the national government, or any political subdivision, of any Sanctioned Country or Unfriendly Country;</p> <p>(d) any person who has been blacklisted by any federal or provincial government, governmental body, or non-governmental department/ agency, whether in Pakistan or the government or governmental body of any foreign countries and/ or international organizations; or</p> <p>(e) any person that poses a national security risk.</p> <p>The Employer will not recognize the existence of any Subcontractor or supplier in any matter concerning the administration of the Contract.”</p>
6.1 Engagement of Staff and Labour	<p>The following paragraph is added at the end of the Sub-Clause:</p> <p>“The Contractor shall submit to the Employer for approval the names, nationalities, and other details of foreign personnel that he intends to employ in executing the Works.</p> <p>The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labour from sources within Pakistan, keeping in view Pakistan Engineering Council PEC Guidelines for New, Renewal and Upgradation of Constructors – PEC Policy 2017 updated May 2023, Note-1 under Table ‘D’, Page 17. In any case, the Contractor shall be responsible for the return to the place where they were recruited or to their domicile of all such persons as he recruited and employed for the purposes for in connection with the Contract and shall maintain such persons as are to be so returned in a suitable manner until they shall have left the Site or, in the case of persons who are not nationals of and have been recruited outside Pakistan shall have left Pakistan.”</p>
6.3 Recruitment of Persons	<p>In the second line of the first paragraph of Sub-Clause 6.3, the text “amongst the Employers Personnel” shall be deleted and substituted by “amongst the Port Authority’s, the Engineer’s or Employers</p>

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	Personnel, except with the prior written consent of the Employer, Port Authority or the Engineer, as the case may be”.
6.6 Facilities for Staff and Labour	At the end of the first paragraph of this Sub-Clause, add: “including all supervisory staff and labour. Such accommodation and facilities shall include all fencing, electricity supply, sanitation, cookhouses, fire prevention, and other requirements in connection with such housing accommodation or amenities. On completion of the Contract, these facilities shall be handed over to the Employer (or, if opted by the Employer, to Port Authority) or if the Employer (in consultation with Port Authority) so desires, the temporary camps or housing provided by the Contractor shall be removed and the Site reinstated to its original condition at the risk and cost of the Contractor, all at the approval of the Engineer.”
6.7 Health and Safety of Personnel	Delete the existing Sub-Clause and substitute with the following: “In order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan with such modifications thereto as the Engineer may authorize or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose. The Contractor shall also provide all other medical services and appoint a health and safety officer at the Site, responsible for maintaining health, safety, and protection against accidents, and answering all questions regarding such matters. The above compliance shall also be extended to the Engineer, the Engineer’s Representative, and their staff at the Site, and the Port Authority’s engineer. This health and safety officer shall be qualified for this work and shall have the authority to issue instructions and shall take protective measures to prevent accidents. In case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means.
	Due precautions shall be taken by the Contractor, and at his own cost, to ensure the safety of the Contractor’s Personnel, including those of the Engineer’s Representatives and its staff, as well as Port Authority’s staff, employees, and contractors at the Site, at all times throughout the period of the Contract. The Contractor shall further ensure that suitable arrangements are made for the prevention of epidemics and for all necessary welfare and hygiene requirements. In

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	<p>order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan in general and Port Authority's Standard Operating Procedures (SOPs) in particular, with such modifications thereto as the Engineer may authorize or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose.</p> <p>The Contractor shall make, maintain, and submit reports to the Engineer concerning the safety, health, and welfare of persons and damage to property, as the Engineer may from time to time prescribe. During the course of construction, the Contractor shall comply and adhere to all SOPs in place with Port Authority and would be required to obtain in advance all necessary No Objection Certificates (NOCs) and required clearances from the concerned departments of Port Authority."</p>
6.8 Contractor's Superintendence	<p>Insert the following at the end of sub-paragraph (a) of this Sub-Clause:</p> <p>"or, if not, the Contractor shall make competent interpreters available during all working hours, in a number sufficient for those persons to properly perform their superintendence duties. A reasonable proportion of the Contractor's superintending staff shall have a working knowledge of the English language. If the Contractor's superintending staff are not fluent in the English language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer."</p> <p>Insert the following at the end of the last paragraph of this Sub-Clause:</p> <p>"The Contractor's authorized representative and its other engineers working at the Site shall possess valid registration with the Pakistan Engineering Council, and shall be qualified and experienced professionals in marine dredging works. The Contractor's authorized representative at Site shall be authorized to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract."</p>
6.12 Key Personnel	<p>Insert the following at the end of the last paragraph of this Sub-Clause:</p> <p>"If any of the Key Personnel are not fluent in this language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer."</p>

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The following Sub-Clauses 6.13 to 6.25 are added after Sub-Clause 6.12:	
6.13 Foreign Personnel	<p>The Contractor may bring into the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall ensure that these personnel are provided with the required residence visas and work permits. The Employer will, if requested by the Contractor, use all reasonable endeavors in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national, or government permission required for bringing in the Contractor's Personnel.</p> <p>The Contractor shall make any necessary arrangements for the transport, to any place as required for burial, of any of his expatriate employees or members of their families who may die in Pakistan.</p>
6.14 Supply of Foodstuffs	The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.
6.15 Supply of Water	The Contractor at his own cost shall, having regard to local conditions, provide on the Site, to the satisfaction of the Engineer or the Engineer's Representative, an adequate supply of drinking and other water for the use of his staff, labour and those of the Engineer and his Representatives.
6.16 Measures against Insect and Pest Nuisance	The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including the use of appropriate insecticides.
6.17 Alcoholic Liquor or Drugs	The Contractor shall not, otherwise than in accordance with the Laws, statutes, Ordinances and Government Regulations or orders for the time being in force, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal by his Subcontractors, agents, staff or labour.
6.18 Arms and Ammunition	The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.
6.19 Festivals and Religious Customs	The Contractor shall respect the Country's recognized festivals, days of rest, and religious or other customs.
6.20 Funeral Arrangements	The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of its local employees who may die while engaged upon the Works.

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6.21 Forced Labour	The Contractor, including its Subcontractors, shall not employ or engage forced labour which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labour, such as indentured labour, bonded labour, or similar labour-contracting arrangements.
6.22 Child Labour	The Contractor, including its Subcontractors, shall not employ or engage child labour in accordance with relevant Law(s) in force in the Islamic Republic of Pakistan.
6.23 Employment Records of Workers	The Contractor shall keep complete and accurate records of the employment of labour at the Site. The records shall include the names, ages, genders, hours worked, and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [Contractor's Records].
6.24 Non-Discrimination and Equal Opportunity	<p>The Contractor shall not make decisions relating to the employment or treatment of Contractor's Personnel on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment of Contractor's Personnel on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices.</p> <p>Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination. The Contractor shall provide protection and assistance as necessary to ensure non-discrimination and equal opportunity, including for specific groups such as women, persons with disabilities, migrant workers, and children (of working age in accordance with Sub-Clause 6.22).</p>
6.25 Epidemics and Pandemics	<p>In the event of any out-break of illness of epidemic nature, the Contractor shall comply with and carry out such regulations, orders, and requirements as may be made by the Government or the local medical or sanitary authorities for the purpose of overcoming the same.</p> <p>The Contractor confirms that:</p>

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	<p>(a) the Contractor: (i) should be aware of any pandemic situation; (ii) understands the risks related to, and arising from pandemic; and (iii) understands how the pandemic and the associated risks shall impact and/or affect the Contractor's execution of the Works;</p> <p>(b) the Contractor: (i) has accounted for, and (ii) is solely responsible for managing and mitigating any and all risks associated with any pandemic during the Contractor's execution and completion of the Works; and</p> <p>(c) the Contractor acknowledges and accepts the matters described in sub-paragraphs (a) and (b) and confirms that the Contractor shall execute and complete the Works in accordance with the Contract.</p> <p>Without limiting the provisions of sub-paragraphs (a), (b), and (c) above, the Contractor further confirms that:</p> <p>(a) the Programme, and any method the Contractor utilizes to execute the Works, has enough flexibility to account for the adequate HSE measures and other directives/orders issued and/or advised by the Pakistan Authorities from time to time in relation to the pandemic, which includes but is not limited to restricting the movement of human and equipment resources; and</p> <p>(b) the resources required to carry out any Works, including but not limited to any Construction, design, inspection, materials, equipment, and manpower, as specified in the Contract and required for the works, are available and shall be sourced by the Contractor to meet the requirements of the agreed programme of the works.</p> <p>Notwithstanding the provisions of the preceding paragraphs, if the Contractor suffers delays in the execution of the Works due to disruptions caused by undertaking additional HSE measures and directives/orders instructed by the Employer, PQA or any government authority to the Contractor's personnel or affiliated parties, Subcontractors and/or agents, and if such disruptions are out of the Contractor's control, and the Contractor has mitigated such disruptions to the best of his knowledge and experience as a competent professional Contractor, and have caused the Time for Completion to be delayed, then the Contractor shall, subject to approval by Employer:</p> <p>(a) be entitled to request an extension of time for the period that the Time for Completion is delayed by such disruptions;</p> <p>(b) not be entitled to any additional costs, fees, or any increase in the Contractor's fees or payment under this Contract for any extension of time under this Sub-Clause 6.25 [<i>Epidemics and Pandemics</i>]; and</p>

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	<p>(c) give notice to the Employer with all necessary details of the Contractor's request for an extension to the Time for Completion in accordance with this Sub-Clause 6.25 [<i>Epidemics and Pandemics</i>], as may be necessary in the circumstances.</p> <p>Following receipt of such notice, the Employer shall review and provide its assessment of such request in accordance with the provisions of the Contract.</p>
<p>7.1 Manner of Execution</p>	<p>The following paragraph is added at the end of the Sub-Clause:</p> <p>“If, in the reasonable opinion of the Engineer, the Contractor’s progress or performance of the Works is unsatisfactory, including failure to achieve the expected or required levels of productivity, output, or efficiency, the Engineer may issue a written instruction requiring the Contractor to mobilize such additional dredgers, equipment, plant, personnel, or other resources as are necessary to achieve the desired productivity and to maintain the approved programme under Sub-Clause 8.3 [Programme].</p> <p>The Contractor shall comply with such instruction promptly and shall bear all costs and expenses associated with the mobilization, operation, and demobilization of any additional dredgers, equipment, plant, or personnel required under this Sub-Clause. Such compliance shall not entitle the Contractor to any extension of time, adjustment of the Contract Price, or other relief under the Contract.</p> <p>For the avoidance of doubt, an instruction issued by the Engineer under this Sub-Clause shall not constitute a Variation within the meaning of Clause 13 [Variations and Adjustments], nor shall it relieve the Contractor of any of the Contractor’s obligations or liabilities under the Contract, nor shall it entitle the Contractor to any extra payment on account of employing such additional dredgers, equipment, plant, or personnel.”</p>
<p>7.7 Ownership of Plant and Materials</p>	<p>The following is added before the first paragraph of this Sub-Clause:</p> <p>“Except as otherwise provided in the Contract,”</p> <p>Insert at the end of the last paragraph of this Sub-Clause:</p> <p>“All dredging plant, Temporary Works, Plant and Materials shall, when brought on the Site, be deemed to have passed into the possession of the Employer (or at the Employers discretion, possession of the Port Authority), and the Contractor shall not remove them, or any other Plant or material that is the property of the Employer from the Site, either fully or partly, without the written permission of the Engineer. If it becomes necessary to:</p>

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	<p>remove any item of such plant from the Site for the purposes of repair, the Contractor shall give a Notice, with reasons, to the Engineer and Port Authority requesting consent to remove the defective or damaged item from the Site. This Notice shall clearly identify the item of defective or damaged Plant, and shall give details of: the defect or damage to be repaired; the place to which defective or damaged item of Plant is to be taken for repair; the transportation to be used (and insurance cover for such transportation); the proposed inspections and testing off the Site; and the planned duration required before the repaired item of Plant shall be returned to the Site. The Contractor shall also provide any further details that the Employer or Port Authority may reasonably require; or</p> <p>replace any item(s) of such Plant and/or Materials, the Contractor shall give a Notice, with reasons, to the Engineer and Port Authority clearly identifying the item(s) of Plant and/or Materials to be replaced, and giving details of the due date of delivery to the Site of the replacement item(s).</p> <p>The Employer shall, however, accord the Contractor the exclusive use of the dredging plants, Temporary Works, and Materials that are brought on the Site by the Contractor for the construction and completion of the Works, provided that the case does not occur, which gives the Employer the right to expel the Contractor from the Site and to continue with the Works itself. After final dismantling of such dredging plants, Temporary Works or Materials for temporary use with the approval of the Engineer, these shall be deemed to be transferred back to the Contractor's property again. After completion of the Works, the rest of the said dredging Plant and Temporary Works, as well as any unused materials supplied by the Contractor, will likewise be transferred back to the Contractor and shall be removed from the Site by him. The entry and exit of all equipment deployed at Site (including the Contractor's Equipment) shall be subject to Port Authority's prior permission.</p> <p>Where any item of Plant and/or Materials has become the property of the Employer, or Port Authority (as applicable), under this Sub-Clause before it has been delivered to the Site, the Contractor shall ensure that such an item is not moved except for its delivery to the Site.</p> <p>The Contractor shall indemnify and hold the Employer and Port Authority harmless against and from the consequences of any defect in title or encumbrance or charge (except any reasonable restriction arising from the intellectual property rights of the manufacturer or</p>

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	<p>producer) on any item of Plants and/or Materials that has become the property of the Employer, and/or Port Authority (as applicable), under this Sub-Clause.”</p> <p>After the end of the first paragraph of this Sub-Clause, add:</p> <p>“The approved versions of manufacturers' operating and maintenance instructions, warranties, guarantees, inspection sheets, and parts lists, which are to be furnished with certain items of materials incorporated into the Works, shall be delivered to the Engineer, for further handing over to Port Authority, prior to the issue of the Taking-Over Certificate by the Engineer.</p> <p>Should the Employer require, the Employer shall have the right of first refusal to buy all dredging plants and Materials, etc., which will be sold by the Contractor in Pakistan on completion of the Works. If the Employer elects not to exercise such right, the Contractor shall offer the same right of first refusal to Port Authority.</p>
7.9 Use of Pakistani Materials and Services	<p>The following Sub-Clause 7.9 is added after Sub-Clause 7.8:</p> <p>“The Contractor shall, so far as may be consistent with the Contract, make the maximum use of materials, supplies, Plant, and equipment indigenous to or produced or fabricated in Pakistan, and services available in Pakistan, provided such materials, supplies, plant, equipment, and services shall be of the required standard.”</p>
8.1 Commencement of Works	<p>The first paragraph of this Sub-Clause shall be deleted in its entirety and substituted with the following:</p> <p>“After the signing of the Contract by both Parties, the Engineer shall give a Notice to the Contractor stating the Commencement Date, not less than 7 daysdays before the Commencement Date.”</p>
8.2 Time for Completion	<p>The following is inserted after the last paragraph of this Sub-Clause:</p> <p>“Notwithstanding the above, unless otherwise notified by the Engineer, the Contractor shall ensure that the dredging works are commenced as soon as reasonably practicable upon customs clearance of the dredging plant in accordance with the Specification.</p>
8.3 Programme	<p>The following is inserted at the end of the last paragraph of this Sub-Clause:</p> <p>“The revised programme should be in the form of:</p> <p>(a) Critical Path Method (CPM) identifying the critical path/activities along with bar charts.</p> <p>(b) Soft copy of Programme / Schedule on the platform of the Project</p>

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	Management software being employed.”
8.5 Extension of Time of Completion	<p>The following is added at the end of this Sub-Clause:</p> <p>“Notwithstanding anything contained in this clause, the Employer and the Contractor may, at any time, mutually agree in writing to extend the Time for Completion for any reason deemed appropriate by both Parties. Such agreement shall be confirmed by the Engineer, and such extension shall not constitute a Variation.”</p>
11.11 Clearance of Site	<p>The following is added before the first paragraph of this Sub-Clause:</p> <p>“The Contractor shall, within 70 days after the date of issue of the Taking-Over Certificate, remove from the Site all Contractors’ Equipment, Temporary Works, and unused materials that are not required during the Defects Notification Period. The remaining Contractor’s Equipment. Temporary Works and unused materials shall be removed from the Site within 60 days after the date of issue of the Performance Certificate. After the expiration of either of the periods referred to above, the Employer and/or Port Authority will be entitled to levy storage charges for Contractor's Equipment, Temporary Works and unused materials remaining on the Site and, upon serving 14 days’ notice upon the Contractor:</p> <p>(a) sell any such Contractor's Equipment, Temporary Works and materials as aforesaid (to the extent permitted by applicable Laws), and</p> <p>(b) return at the Contractor's expense any Contractor's Equipment held by him under any agreement for hire or hire purchase to the person firm or company from whom it was held by the Contractor, and reinstate and clean the Site (as may be necessary), and after deducting from the proceeds of sale the costs charges and expenses of, and in connection with, such sale, return, reinstatement and cleaning of the Site as aforesaid shall pay the balance (if any) to the Contractor but to the extent that the proceeds of any sale are insufficient to meet all such costs charges and expenses the excess shall be a debt due from the Contractor to the Employer and/or Port Authority and shall be deductible or recoverable by the Employer and/or Port Authority accordingly as aforesaid.”</p>
11.12 Supervisory Assistance during DNP	<p>The following Sub-Clause 11.12 is added after Sub-Clause 11.11:</p> <p>“If provided under the schedule of prices, the Contractor shall provide supervisory assistance to the Employer during the DNP for the Works. Such supervisory assistance shall be as described in the Specification for the purpose of supporting the Employer's operation and maintenance of the Plant for the period specified in the schedule of prices after the Date of Completion.”</p>

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12.2 Method of Measurement	<p>The following paragraph is added at the end of this Sub-Clause</p> <p>“Summary of measured quantity for payment shall be delineated item-wise under four heads, namely: “Schedule of Prices Quantity”, “Quantity Executed To-date”, “Quantity Certified Previously,” and “Net Quantity Executed under this Certificate”.”</p>
12.3 Valuation of the Works	<p>In sub-paragraph (b)(i) of the fourth paragraph of this Sub-Clause, the text “more than 10%” shall be deleted and substituted by “more than 20%”.</p> <p>Sub-paragraph (b)(ii) of the fourth paragraph of this Sub-Clause shall be deleted in its entirety and substituted by “[Not Used]”</p> <p>Sub-paragraph (b)(iii) of the fourth paragraph of this Sub-Clause shall be deleted in its entirety and substituted by “[Not Used]”</p>
13.4 Provisional Sums	<p>The following paragraph is added as the penultimate paragraph of this Sub-Clause:</p> <p>“The Provisional Sum shall be used to cover the Employer’s share of the DAB members’ fees and expenses, in accordance with Clause 21. No prior instruction of the Engineer shall be required with respect to the work of the DAB. The Contractor shall submit the DAB members’ invoices and the satisfactory evidence of having paid 100% of such invoices as part of the substantiation of those Statements submitted under Sub-Clause 14.3 [Application for Interim Payment].”</p>
13.6 Adjustments for Changes in Laws	<p>The following paragraph is added at the end of this Sub-Clause:</p> <p>“Notwithstanding the foregoing, the Contractor shall not be entitled to an Extension of Time if the relevant delay has already been taken into account in the determination of a previous Extension of Time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the Table of Adjustment Data in accordance with the provisions of Sub-Clause 13.7 [Adjustments for Changes in Cost].”</p>
14.1 The Contract Price	<p>The following paragraph is added at the end of this Sub-Clause:</p> <p>“The Contractor shall bear all expenses in connection with the landing and shipment of all plant materials or other items brought into or dispatched from Karachi for the purpose of the Contract including port dues, pilotage charges wharfages etc.</p> <p>Demurrage will be applicable on all imported material, plant, and equipment, which become part of the permanent works, according to the rules and regulations of Port Authority in force at that time.</p>

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	<p>The Contractor will pay to the Employer or the relevant authority (including, if applicable, Port Authority) all port charges gazetted by the Government of Pakistan relating to both vessels and cargo. No port charges would be leviable on the Contractor's vessels which enter the port by passing the fairway buoy while dredging or otherwise working. Such charges include but are not restricted to berth fees, wharfage, hire of port crafts, services provided to vessels either at berth or in the steam, etc. The Contractor will pay to any authorized agent of the Employer, or relevant authority (including, if applicable, Port Authority), the charges levied on handling cargo or hiring equipment. The Contractor shall be, subject to approval of Port Authority, exempted from the use of the Employer's or Port Authority's pilot for the purpose of carrying out this Contract. However, in case any port charges including the pilotage fees are charged, these fees will be reimbursed to the Contractor in his invoice, with the exception of mooring charges, if not used for survey purpose, and the hire of all port craft or other equipment and the supply of water and other services to the Contractor which charges will be paid by the Contractor at the time the service or hire is provided.</p> <p>The Contractor shall pay all the dues, fees, and other charges as may from time to time be in force in connection with the use of the Employer's or Port Authority's floating plant and crafts."</p>
14.1A Mobilization Fee	<p>The following Sub-Clause 14.1A is added after Sub-Clause 14.1:</p> <p>"After receiving a Mobilization Fee Certificate and establishment of the Letter of Credit, the Employer shall make a mobilization fee payment in respect of each of the vessel(s) or boat (as applicable) that has arrived at the Site and has been inspected to be adequate in respect of the technical specifications specified in the Contract, in accordance with Sub-Clause 14.7 [Payment]. The amount of the mobilization fees to be paid for each vessel, and the currencies in which they are to be paid, shall be as stated in the Contract Data.</p> <p>14.1A.1 Mobilization Fee Guarantee</p> <p>The Contractor shall, no later than the date of signing of the Contract, deliver to the Employer (at the Contractor's cost) a Mobilization Fee Guarantee in amounts and currency equal to the total mobilization fee payable (as stated in the Contract Data), with a copy to the Engineer. This guarantee shall be based on the form acceptable to the Employer (but such agreement shall not relieve the Contractor from any obligation under this Sub-Clause), provided that it in the form of an unconditional, irrevocable and on demand Bank Guarantee, from any</p>

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	<p>Scheduled Bank of Pakistan, having its branch in Karachi, Pakistan, and having minimum AAA rating, having minimum AAA rating, in favour of the Employer.</p> <p>The Contractor shall ensure that the Mobilization Fee Guarantee is valid and enforceable until the total mobilization fee has been paid by the Employer, but its amount may be progressively reduced by the amount(s) paid to the Contractor as part of such total mobilization fee, as stated in each Mobilization Fee Certificate, pursuant to Sub-Clause 14.7 [Payment].</p> <p>If the terms of the Mobilization Fee Guarantee specify its expiry date, and the total mobilization fee has not been paid by the Employer by the date 28 days before the expiry date:</p> <ul style="list-style-type: none"> (a) the Contractor shall extend the validity of this guarantee until the total mobilization fee has been repaid; (b) the Contractor shall immediately submit evidence of this extension to the Employer, with a copy to the Engineer; and (c) if the Employer does not receive this evidence 7 days before the expiry date of this guarantee, the Employer shall be entitled to claim under the guarantee the amount of the mobilization fee which has not been paid. <p>As soon as any of the vessels or boats specified in the first paragraph of this Sub-Clause 14.1A arrives at the Site, the Contractor shall make an application for payment of a mobilization fee in respect of each such vessel or boat (as applicable).</p> <p>14.1A.2 Mobilization Fee Certificates</p> <p>The Engineer shall, within fourteen (14) days after the conditions stated below have been fulfilled, issue a Mobilization Fee Certificate in respect of the vessel(s) or boat for which the Contractor has submitted an application for payment:</p> <ul style="list-style-type: none"> (a) the Employer has received both the Performance Security and the Mobilization Fee Guarantee, in the form and issued by an entity in accordance with Sub-Clause 4.2.1 [Contractor's Obligations] and Sub-Clause 14.1A.1 [Mobilization Fee Guarantee] respectively; (b) the Engineer has received a copy of the Contractor's application for the mobilization fee payment under Sub-Clause 14.1A.1 [Mobilization Fee Guarantee]; and (c) such relevant vessel(s) or boat have been inspected to be adequate in respect of the technical specifications specified in the Contract.

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	<p>14.1A.3 Return of the Mobilization Fee Guarantee</p> <p>Notwithstanding anything stated herein to the contrary, if the total mobilization fee has not been paid to the Contractor before termination under Clause 15 [Termination by Employer], Clause 16 [Suspension and Termination by Contractor] or Clause 18 [Exceptional Events] (as the case may be), the Mobilization Fee Guarantee (to the extent it has not been reduced or encashed) shall be returned to the Contractor, without any obligation on the Employer to make any further mobilization fee payments.”</p>
14.2 Advance Payment	<p>At the end of the first paragraph of Sub-Clause 14.2.1, insert:</p> <p>“The Advance Payment Guarantee shall be in the form of an unconditional, irrevocable and on demand Bank Guarantee, as per the given format from any Scheduled Bank of Pakistan, having its branch in Karachi, Pakistan, and having minimum AAA rating, having minimum AAA rating.</p> <p>The Contractor shall ensure that the Port Authority shall be named, together with the Employer, as a co-beneficiary under the Advance Payment Guarantee. The Advance Payment Guarantee shall expressly state that either the Employer or Port Authority may, independently or jointly, demand, draw, or encash the Advance Payment Guarantee up to its full value, without reference to or consent from the other, upon occurrence of the events provided under this Sub-Clause 14.2 [Advance Payment].”</p> <p>The following is added at the end of sub-paragraph (b) of the third paragraph of Sub-Clause 14.2.1:</p> <p>“and the PQA”</p> <p>Sub-paragraph (c) of the third paragraph of Sub-Clause 14.2.1 is deleted in its entirety and substituted with the following:</p> <p>“(c) if the Employer and PQA do not receive this evidence by 7 days before the expiry date of this guarantee, the Employer or PQA shall be entitled to claim under the guarantee the amount of advance payment which has not been repaid;”</p>
14.6 Issue of IPC	<p>In the first line of the first paragraph of Sub-Clause 14.6.1, the words “28 days” are substituted by “30 days”.</p>
14.7 Payment	<p>The following is added at the start of the first paragraph of this Sub-Clause:</p>

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	<p>“Subject to establishment of the Letter of Credit for the purposes of making payments in United States Dollars (USD) under the Contract,”</p> <p>At the end of sub-paragraph (b) in the first paragraph of this Sub-Clause, the word “and” is deleted, and at the end of sub-paragraph (c), the full stop (.) is replaced with “;”, and the following new sub-paragraph is added as sub-paragraph (d):</p> <p>“(d) the amount certified in each Mobilization Fee Certificate within the period stated in the Contract Data after the Employer receives the Mobilization Fee Certificate”</p> <p>The following is added at the end of the last paragraph of this Sub-Clause:</p> <p>“or through a crossed cheque in favour of the Contractor for the portion of local currency (PKR) or through a Letter of Credit for the portion of the foreign currency (USD)”</p>
14.8 Delayed Payment	<p>The entirety of this Sub-Clause 14.8 is deleted in its entirety and substituted with the text “[Not Used]”.</p>
14.11 Final Statement	<p>At the end of sub-paragraph (b), the word “and” is deleted, and at the end of sub-paragraph (c), the full stop (.) is replaced with “; and”, and the following new sub-paragraph is added as:</p> <p>“(d) be approved by PQA as correctly reflecting the amounts to be due, prior to submission to the Engineer.”</p>
15.2 Termination for Contractor’s Default	<p>The following text is added at the end of sub-paragraph (h) of Sub-Clause 15.2.1:</p> <p>“or has violated the Integrity Pact signed by the Contractor. For the purposes of this Sub-Clause, corrupt and fraudulent practices have been defined in Public Procurement Rules 2004.”</p> <p>At the end of sub-paragraph (g) of Sub-Clause 15.2.1, the word “or” is deleted, and at the end of sub-paragraph (h), the full stop (.) is replaced with “; or”, and the following new sub-paragraph is added as:</p> <p>“(i) without reasonable excuse fails to meet three (3) consecutive performance targets, or there is a backlog of twenty-five percent (25%) or more of the target dredged volume.”</p> <p>Insert the following new sub-paragraph at the end of sub-paragraph (b) of Sub-Clause 15.2.3:</p> <p>“(iv) all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 [Employer-Supplied Materials and Employer's Equipment], and”</p>

SUB-CLAUSE	AMENDMENT
16.2 Termination by Contractor	<p>The sub-paragraph (f) in Sub-Clause 16.2.1 is deleted in its entirety and substituted with “[Not Used]”.</p> <p>The sub-paragraph (h) in Sub-Clause 16.2.1 is deleted in its entirety and substituted with “[Not Used]”.</p> <p>The sub-paragraph (j) in Sub-Clause 16.2.1 is deleted in its entirety and substituted with “[Not Used]”.</p>
16.3 Contractor’s Obligations After Termination	<p>Sub-paragraph (c) is deleted and replaced with the following (including the addition of a new sub-paragraph):</p> <p>(c) “deliver to the Engineer all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 [Employer-Supplied Materials and Employer's Equipment]; and</p> <p>(d) remove all other Goods from the Site, except as necessary for safety, and leave the Site.”</p>
17.1 Responsibility for Care of the Works	<p>After the two instances of “Goods” in the last paragraph of this Sub-Clause, the words “, Employer-Supplied Materials and/or Employer's Equipment” are added.</p>
17.7 Use of Employer’s Accommodation/ Facilities/Land	<p>The following Sub-Clause 17.7 is added after Sub-Clause 17.8:</p> <p>“The Contractor shall take full responsibility for the care of the items of the Employer’s and Port Authority’s facilities and/or accommodation, if any, as detailed in the Specification, from the date of use and/or occupation by the Contractor until the date on which such use and/or occupation is re-vested in the Employer or, if applicable, Port Authority.</p> <p>If any loss or damage happens to any of the above items during a time while the Contractor is responsible for its care, arising from any cause other than a cause for which the Employer is responsible or liable, the Contractor shall promptly rectify the loss or damage at the Contractor’s risk and cost.</p> <p>The Employer shall, in consultation and coordination with Port Authority, provide the contractor with the necessary land within the port area free of cost to establish an office and living camp for its foreign nationals.”</p>
18.1 Exceptional Events	<p>The words “or disorder” are replaced with “disorder or sabotage” in sub-paragraph (c) of this Sub-Clause.</p>
18.4 Consequences of an Exceptional Event	<p>Sub-paragraph (b) of this Sub-Clause shall be deleted in its entirety and substituted by “[Not Used]”.</p>
18.5 Optional Termination	<p>In sub-paragraph (c) of the second paragraph of this Sub-Clause, the words “and necessarily” are added after the words “was reasonably”.</p>

SUB-CLAUSE	AMENDMENT
19.1 General Requirements	<p>The following text is added at the end of the first paragraph of this Sub-Clause:</p> <p>“The Contractor shall immediately, on or before the date of signing of the Contract Agreement, submit the draft of insurance policies for the Employer’s consent.”</p> <p>The following text is added at the end of the third paragraph of this Sub-Clause:</p> <p>“The Contractor shall, within the respective periods stated in the Contract Data, submit to the Engineer and the Employer: (a) evidence that the insurances described in this Sub-Clause have been effected; and (b) copies of policies of the insurances described in Sub-Clauses 19.2.1, 19.2.4 and 19.2.5.”</p>
19.2 Insurance to be provided by the Contractor	<p>In the first paragraph of Sub-Clause 19.2.1, the text “joint names of the Contractor and the Employer” shall be deleted and substituted by “joint names of the Contractor, Port Authority, and the Employer”.</p> <p>In the second paragraph of Sub-Clause 19.2.1, the text “shall cover the Employer and the Contractor” shall be deleted and substituted by “shall cover the Employer, Port Authority, and the Contractor”.</p> <p>The following text is added at the end of the second paragraph of Sub-Clause 19.2.1:</p> <p>“For the avoidance of doubt, the Contractor’s insurance shall include cover for liability for the Works and Contractor’s Plant and Equipment deployed at the Site. The coverage shall include war risk, piracy, and collision liability in respect of all vessels, crafts or floating equipment, owned, leased or hired by the Contractor in the performance of the Contract.”</p> <p>In the first paragraph of Sub-Clause 19.2.2, the text “joint names of the Contractor and the Employer” shall be deleted and substituted by “joint names of the Contractor, Port Authority, and the Employer”.</p> <p>In the first paragraph of Sub-Clause 19.2.4, the text “joint names of the Contractor and the Employer” shall be deleted and substituted by “joint names of the Contractor, Port Authority, and the Employer”.</p> <p>In the second paragraph of Sub-Clause 19.2.4, the text “apply to the Contractor and the Employer” shall be deleted and substituted by “apply to the Contractor, Port Authority, and the Employer”.</p> <p>The words “sickness, disease” are deleted in the third line of the first paragraph of Sub-Clause 19.2.5.</p>

SUB-CLAUSE	AMENDMENT						
	<p>The second paragraph of Sub-Clause 19.2.5 shall be deleted in its entirety and substituted with the following:</p> <p>“The Employer, and the Engineer shall also be indemnified under the policy of insurance, except that this insurance may exclude losses and claims to the extent that they arise from any act or neglect of the Employer, or of the Employer’s Personnel.”</p> <p>The following Sub-Clause is added after Sub-Clause 19.2.6 as Sub-Clause 19.2.7:</p> <p>“19.2.7 Insurance Company</p> <p>The Contractor shall be obliged to place all insurances described in this Clause with insurers listed in the Contract Data and rated by PACRA/VIS of rating as provided in the table below:</p> <table border="1"> <tr> <td>Accepted Contract Amount (In Equivalent million PKR)</td><td>Minimum Rating of Insurance Companies</td></tr> <tr> <td>Up to 1,000</td><td>AA</td></tr> <tr> <td>1,001 to no limit</td><td>AA</td></tr> </table>	Accepted Contract Amount (In Equivalent million PKR)	Minimum Rating of Insurance Companies	Up to 1,000	AA	1,001 to no limit	AA
Accepted Contract Amount (In Equivalent million PKR)	Minimum Rating of Insurance Companies						
Up to 1,000	AA						
1,001 to no limit	AA						
21.1 Constitution of the DAB	<p>The word “jointly” is deleted in the second line of the first paragraph of this Sub-Clause.</p> <p>The second and third paragraphs of this Sub-Clause are deleted in their entirety and substituted with the following:</p> <p>“One member shall be selected by each Party, and the third member shall be appointed by the National Hydrographer of Pakistan, who shall be appointed to act as chairperson.”</p>						
21.2 Failure to Appoint DAB Member(s)	<p>Sub-paragraph (b), this Sub-Clause is deleted in its entirety and substituted with the following:</p> <p>“(b) if the DAB is to comprise three persons, and if by the date stated in the first paragraph of Sub-Clause 21.1 [Constitution of the DAB]:</p> <p>(i) either Party fails to select a member; and/or</p> <p>(ii) the National Hydrographer of Pakistan fails to appoint the third member (to act as chairperson) of the DAB;”</p>						
21.4 Obtaining DAB’s Decision	<p>The first paragraph of this Sub-Clause is deleted in its entirety and substituted with the following:</p> <p>“If a Dispute arises between the Parties, then the parties shall first attempt to resolve any Dispute promptly, amicably, and in good faith. Each Party shall designate a representative who shall be entitled to enter into discussions to resolve any Dispute by amicable agreement.</p>						

SUB-CLAUSE	AMENDMENT
	<p>If the Dispute is not finally resolved between the designated representatives of the Parties through amicable and good faith discussions within thirty (30) Days from the date on which both the Parties appoint their respective representatives, then the Parties shall endeavor to settle the Dispute in an amicable manner through discussions between the chairman/chief executive officer or other senior leadership of each of the Parties.</p> <p>If the Dispute is not resolved between the Parties through discussions between the senior leadership of the Parties within sixty (60) Days from the date on which the matter has been referred to them, then either Party may refer the Dispute to the DAB for its decision.”</p> <p>Sub-paragraph (a) of Sub-Clause 21.4.1 is deleted in its entirety and substituted with the following:</p> <p>“(a) subject to sub-paragraph (ii) of Sub-Clause 3.7.3 [Time Limits] and the provisions of the second paragraph of Sub-Clause 21.4 [Obtaining DAB’s Decision], be made by the later of:</p> <p>(i) 42 days of giving or receiving (as the case may be) a NOD under Sub-Clause 3.7.5 [Dissatisfaction with Engineer’s determination]; and</p> <p>(ii) reference by either party of the Dispute to the DAB in accordance with the third paragraph of Sub-Clause 21.4 [Obtaining DAB’s Decision].</p> <p>If the Dispute is not referred to the DAB within this period, such NOD shall be deemed to have elapsed and no longer be valid.”</p>
21.5 Amicable Settlement	The entirety of this Sub-Clause 21.5 is deleted in its entirety and substituted with the text “[Not Used]”.
21.6 Arbitration	<p>The word “international” is deleted in the sixth line of the first paragraph.</p> <p>The text of sub-paragraph (a) is substituted with the following:</p> <p>“the Dispute shall be finally settled in accordance with the Rules of Arbitration/law, and at the seat, each as specified in the Contract Data.”</p> <p>The text of sub-paragraph (b) is substituted with the following:</p> <p>“the Dispute shall be settled by three (3) arbitrators, of which one (1) shall be appointed by each of the Parties, and one shall be appointed jointly by the two (2) arbitrators appointed by the Parties in accordance with these rules or applicable law;”</p>

SUB-CLAUSE	AMENDMENT
21.8 No DAB In Place	<p>The text of sub-paragraph (a) is substituted with the following: “Sub-Clause 21.4 [Obtaining DAB’s Decision] (other than its first two paragraphs) shall not apply;”</p> <p>The text of sub-paragraph (b) is substituted with the following: “the Dispute may be referred by either Party directly to arbitration under Sub-Clause 21.6 [Arbitration] following failure of the senior leadership of the Parties to resolve the Dispute within sixty (60) Days from the date on which the matter has been referred to the senior leadership of the Parties under the second paragraph of Sub-Clause 21.4 [Obtaining DAB’s Decision, without prejudice to any other rights the Party may have.”</p>
22 Anchorage Dues on Floating Equipment, etc.	<p>The following Sub-Clause 22 is added: “‘The Employer shall, subject to instructions of the Port Authority, allow the Contractor's floating Equipment and craft to use specified project area in the Port free of anchorage dues and light dues during the continuance of the Contract until twenty-eight (28) days after the expiry of the Time for Completion or such extended time as may have been granted by the Engineer under the provision of contract. Thereafter, the Contractor shall pay all dues, fees, and other charges in connection with the harbour as may from time to time be in force and shall become payable on such floating Equipment and craft.”</p>
23 Floating Plant, Safety and Security	<p>The following Sub-Clause 23 is added: “‘The Contractor shall comply with the Regulations of the Port Authority and shall obey the orders of the Harbour Master or other authorized and competent authority in respect of navigation of Floating Plant and Craft in the harbour and in the vicinity of the Site, and shall conduct his operations in such a manner that they do not interfere with the use of the waterways, anchorages and wharves in the harbour. In this connection, the Contractor (and his Subcontractors) shall obtain all Standard Operating Procedures (SOPs) in effect at the port, get familiar with them, and comply with them at all times during the execution of works.</p> <p>Only classified vessels fully registered and recently surveyed as per Lloyd / MMD regulations shall be used on the Works. All craft and floating plant shall be manned at all times with enough crew to effectively deal with normal emergencies. In case, if any shipping/handling of cargo is disturbed by the presence of the contractors’ floating crafts/equipment, penalties will be imposed as per the regulations of PQA.</p>

SUB-CLAUSE	AMENDMENT
	<p>The Contractor shall also provide, lay and maintain such buoys, moorings and fastenings as are necessary to secure his floating plant and also such mark buoys as are deemed necessary by the Engineer and/or the Employer to mark the water-sided site area and to warn vessels of the existence of the existence of submerged portions of the Works. Port Authority's Standard Operating Procedures (SOPs) shall be complied with at all times.</p> <p>These buoys, moorings, and fastenings shall be at the sole risk of the Contractor, and he shall be responsible for any accidents arising there or damage caused thereby or thereto or which may arise through the failure of the moorings or fastenings, the breaking adrift of the buoys, or their absence from the position where they should have been moored. The Contractor shall bear all costs and charges, which may incur from time to time in connection with lifting, moving, and relaying of buoys, mooring, and fastenings during the continuance of the Contractor or which may appear necessary or desirable by the Engineer and/or the Employer. The Contractor shall remove and clear away all such buoys, moorings, and fastenings when they are no longer required or as instructed by the Engineer or before the granting of the Final Certificate.</p> <p>The Contractor shall forthwith and with dispatch raise and remove any Plant (floating or otherwise) belonging to him or to any Subcontractor or to any person employed by him, which may be sunk in the course of the construction and completion of the Works or during the remedy of defects therein or during the remedy of defects therein or otherwise deal with the same, as the Employer may direct.</p> <p>Until the same shall be raised and removed, the Contractor shall set all such buoys and display at night such lights and do all such things for the safety of navigation as may be required by the Port Qasim Authority and its SOPs. In the event of the Contractor not carrying out the obligations imposed upon him by this Clause, the Employer may buoy and light such sunken plant and raise and remove the same (without prejudice to the rights of the Employer to hold the Contractor liable), and the Contractor shall refund to the Employer all costs incurred in connection therewith. The fact that the sunken vessel, craft, or plant is insured or has been declared a total loss shall not absolve the Contractor from his obligation under this clause to raise or remove the same."</p>
24 Default of Contractor	The following Sub-Clause 24 is added:

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	<p>“In case of default on the part of Contractor in carrying out instructions within the time specified therein or, if none, within a reasonable time, the Employer shall be entitled to employ and pay other persons to carry out the same and all costs consequent thereon or incidental thereto shall, after due consultation with the Employer and the Contractor, be determined by the Engineer and shall be recoverable from the Contractor by the Employer, and may be deducted by the Employer from any monies due or to become due to the Contractor and the Engineer shall notify the Contractor accordingly, with a copy to the Employer.</p> <p>Provided further that in addition to the action taken by the Employer against the Contractor under this Sub-Clause, the Employer may also refer the case of default of the Contractor to Pakistan Engineering Council for punitive action under the Construction and Operation of Engineering Works Bye-Laws 1987, as amended from time to time.”</p>
25 Restrictions on Eligibility	<p>The following Sub-Clause 25 is added:</p> <p>“(a) Any plant, materials, or services which will be incorporated in or required for the Works, as well as the Contractor's Equipment and other supplies, shall have their origin in any of the countries and territories with which the Government of Pakistan allows import of goods.</p> <p>(b) For the purposes of this Sub-Clause, “origin” means the place where the materials and equipment were mined, grown, produced, or manufactured, or from which the services are provided.</p> <p>(c)The origin of Goods and Services is distinct from the nationality of the Supplier.”</p>
26 Registration & Licensing of Vehicles	<p>The following Sub-Clause 26 is added:</p> <p>“The Contractor shall be responsible for and bear the cost of the registration and licensing of all his vehicles, including those provided under the Contract. The registration shall be in the name of the Employer or Port Authority (if required by the Employer).”</p>
27 Classified Area	<p>The following Sub-Clause 27 is added:</p> <p>“The Contract involves an obligation of secrecy and the commission by the Contractor, his agents, employees, or sub-contractors, or their agents or employees of any offence under the Official Secrets Act 1923 or any statutory modification or re-enactment thereof will, apart from any criminal liability, constitute a breach of the Contract. The port zone is classified as a secret area, and all layout drawings on which port facilities are depicted, as well as photographs of all</p>

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	structures, may be retained by the Contractor and his employees and sub-contractors, only with the express approval of the Employer. The taking of photographs is generally forbidden. The Contractor may not employ any personnel who are viewed as security risks by the Employer, Port Authority, or the Government of Pakistan.”
28 Coordination Meeting	<p>The following Sub-Clause 28 is added:</p> <p>“Shortly after signing of the Contract Agreement, the Engineer shall require a meeting with the Contractor and Port Authority at the Engineer’s head office (or a the Site, as determined by the Engineer), to discuss scheduling of shop and detail drawings, material procurement, progress of work, and other similar problems which may be pertinent for the execution of the Works. The Contractor’s authorized representative at the Site, who will be responsible for execution of the Works, shall be present at this meeting. Should the Employer consider it necessary, a representative of the Employer will also participate in these talks.</p> <p>Meetings for coordination of the progress of the construction works will be held at the Site at the discretion of the Engineer. When the Works at the Site are continuing regularly, these talks will take place once weekly, on the same date and time, in the Site office of the Engineer. A representative of the Employer and/or Port Authority will also be present at these meetings, if the Employer considers it necessary.”</p>
29 Customs Checks	<p>The following Sub-Clause 29 is added:</p> <p>“Customs check posts have been established by the Pakistan Customs Office at all port gates. It shall be the responsibility of the Contractor to make a detailed declaration to the customs officials in every respect when entering or leaving the port area with material or equipment and complete all formalities as per the prevailing Laws, rules, and regulations.”</p>
30 Property in Dredging and Excavated Materials	<p>The following Sub-Clause 30 is added:</p> <p>“All materials and things of any kind obtained from dredging and excavations or found on or under the Site or under any additional site which the Contractor may be allowed to occupy shall remain the property of the Port Authority (or if applicable, the Employer) and shall not be used in the Works or sold or otherwise disposed of without the written authority of the Engineer, unless otherwise expressly provided for in the Specification. No dredging, excavations or demolitions are to be made upon the Site or additional site beyond</p>

SUB-CLAUSE	AMENDMENT
	those shown on The Drawings or described in the Specification without the prior written authority of the Engineer.”
31 Integrity Pact	<p>The following Sub-Clause 31 is added:</p> <p>“If it is found and established at any stage that the Contractor or any of his Subcontractors, agents or servants have violated or are involved in violation of the Integrity Pact signed by the Contractor, then the Employer shall be entitled to:</p> <ul style="list-style-type: none"> (a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder’s fee, or kickback given by the Contractor or any of his Subcontractors, agent, or servants; (b) terminate the Contract; and (c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agents, or servants. <p>The termination under sub-paragraph (b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clauses 15.1 to 15.4, and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the Employer under sub-paragraphs (a) and (c) of this Sub-Clause.”</p>
32 Port Authority’s Instructions	<p>The following Sub-Clause 32 is added:</p> <p>“The Contractor shall comply with all reasonable directions and instructions of Port Authority in undertaking the Works, including in the event of any national emergency or supreme security conditions so declared by Port Authority or GOP, in which case, the Contractor shall not create any hindrance, impediment or obstacle.”</p>

LIST OF SCHEDULES

1. Schedule A: Construction Schedule
2. Schedule B: Method of Performing the Work
3. Schedule C: List of Major Equipment
4. Schedule D: Organization Chart
5. Schedule E: List of Sub-Contractors

SCHEDULE A: SCHEDULE

1 Time for Completion and Work Plan

Description	Time for Completion
Whole Works (Hydrographic Survey)	120 days (extendable)

Prior to the Commencement Date, the Contractor shall provide a detailed work plan to Engineer and a Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works may meet Employer's completion targets in days noted above and counted from the Commencement Date

In addition, the Contractor is to include the following information:

1.1 Project Timeline and Phasing: A detailed project schedule, broken down by phases. The work sequencing should strictly conform to the requirements of the scope of work specified in the document for:

- a. Progressing the Survey of dredging works, the schedule should include key milestones which includes (but not limited to) setting up of Contractor camp, spares and workshop setup, submission of equipment fitness certificates, mobilization including sailing in involving logistics, equipment installation (sonar, GPS, etc.), crew preparation, quayside setup, and rigorous testing to ensure its fully operational and compliant before sailing, ensuring efficient and data-rich project execution during pre-dredge surveys, recurring interim surveys and post-dredge surveys.

1.2 Resource Allocation Plan: Contractor to submit details about the number and type of personnel, equipment, and materials that will be allocated for each activity over the course of the project. This should demonstrate deployment of sufficient resources together with standby boat to overcome any contingencies in case of equipment failure or other delays.

1.3 Performance Assessment:

Performance assessment shall be undertaken immediately (after 30 days), through a joint hydrographic survey of the area where dredging activities were carried out during the preceding 1 month. Results shall be compiled jointly and submitted to the Employer by the end of the second week of the month.

In the event of below target performance following measures shall be taken by the Engineer as deemed appropriate:

- a. The Contractor shall be issued a notice to improve performance and to clear the backlog by the next assessment.

- b. Failure to meet two (2) consecutive targets shall constitute grounds for issuance of a formal notice(s) (warning) to the Contractor. The Contractor shall take tangible remedial measures, which shall include the replacing the boat to achieve the required data output.
- c. Failure to meet three (3) consecutive performance targets, or the existence of a backlog of twenty-five percent (25%) or more of the target, may constitute grounds for termination of the Contract.

SCHEDULE B: METHOD OF PERFORMING THE WORKS

1. PURPOSE

The methodology of using a hydrographic survey boat for dredging involves specific procedures for pre-dredge, during-dredge (monitoring), and post-dredge surveys to determine the seafloor topography, calculate material volumes, and ensure the project meets required depths.

2. SETTING OUT & SURVEY

The Contractor shall be responsible for all setting-out and for carrying out surveys as specified and shall afford to the Engineer all facilities for checking as required. Such checks will not relieve the Contractor of his responsibilities for the accuracy of the setting-out and surveys.

The Contractor shall establish the co-ordinates of sufficient shore stations to provide adequate horizontal control for dredging, disposal and surveying using an approved DGPS/RTK positioning system. All positioning equipment used shall be calibrated and set up to the site grid and datum. Any errors arising through the Contractor failing to refer the setting out of works to the co-ordinate system shall be remedied by the Contractor to the satisfaction of the Employer, at no additional cost to the project and without extension of the construction / dredging programme.

2.1 Dredging Surveys

Survey boat shall be equipped and shall use an approved electronic position fixing device capable of providing onboard a continuously updating fix from remote shore station(s). The type of DGPS/RTK position fixing equipment shall be subject to the approval of the Employer. In order to measure the dredging, the Contractor shall carry out accurate pre-dredging, interim dredging and post-dredging surveys as described below.

The Survey boat should be equipped with all necessary approved surveying equipment (echo sounder latest version), robust survey boat (capable to work in scope of work area), electronic position fixing system, echo sounders, recording, computing and plotting devices and qualified and trained personnel (true copies of qualifications / licenses of the surveyors to be submitted to the Employer prior start of work) to carry out surveys.

Echo sounder shall be Odom latest model or similar approved, and for measurement surveys shall be operated at a frequency of 200-210 kHz. All equipment and survey procedures including the record interval and adjustment, if any, for wave height shall be subject to the prior approval of the Employer. The equipment and procedures shall be such to ensure a readable accuracy of $\pm 100\text{mm}$, and position fixing shall give a repeatable accuracy of $\pm 2\text{m}$ (Differential GPS/ RTK positing system).

The survey boat shall be robust, stable, capable of operating in rough weather equivalent BF scale-4, controlled air conditioning environment, minimum 6 to 8 person survey team etc.

DGPS/RTK Trimble Reference Station is currently installed in the Port area. However, the Contractor shall install and maintain its own reference station as approved by the Employer at a suitable location to cover the entire survey area well before the pre-dredging surveys till completion of the dredging works.

The Survey boat shall provide the Employer at the commencement of the Works with HYPACK MAX software of version as approved by the Employer for data logging, processing, charting and computing the dredged volume, the programme shall operate on the latest computer Intel core i9 under Windows-10 or as approved.

During pre-dredge, interim and post-dredge surveys, maximum 8 knots speed shall be maintained by the survey vessel. All surveys shall include cross-runs to check the accuracy of the main runs. The cross runs shall be undertaken at three times the spacing of the main runs and shall be plotted on the survey Sheets/drawings.

All surveys shall be carried out with reference to Bench Marks and Port Datum as approved by the Employer.

2.2 Pre-Dredging Survey

The pre-dredging survey shall be carried out prior to the start of dredging, as soon as possible after the award of Contract, but not more than 20 days before commencement of dredging within the particular area. It shall comprise a bathymetric survey of the dredging areas.

Magnetometer surveys (if required) shall also be conducted jointly with Employer.

2.3 Interim - Dredging Surveys

Interim surveys shall be carried out and plotted for all progress measurements on 1:6000 scales with a line-spacing of 30m (0.5cm of scale). Interim-dredged survey shall also include 100meter area either side /around of dredging areas to determine occurrence of any siltation due to the contractor's work/fault.

2.4 Progress Monitoring Surveys

Technical Specifications for monitoring the progress of his dredging works during the dredging project period and submit the results of same (xyz sounding data) to Employer on monthly basis. Progress Monitoring Surveys shall have no effect / bearing on the dredged quantities or payments and are required for contractors own dredging progress monitoring / work by his dredging platforms.

2.5 Post-Dredging Surveys

Post-dredging surveys shall be carried out to confirm that dredging profiles formed as part of the Permanent Works are to the required tolerance prior to starting subsequent works. The post-dredging bathymetric survey shall be carried out within 14 days of completion of dredging, subject to fair weather conditions, to confirm the required profile of the dredging has been achieved between levels. Should any part of the area be found to be outside the tolerances specified the Contractor shall re-dredge and re-survey until the tolerances have been achieved. No additional payment will be made for these surveys or for any re-dredging required. Where following works are to be carried out after dredging in a particular area, they shall be programmed so that they commence before changes in the dredged profile occur.

Post dredging survey shall be carried out in a similar manner and accuracy to the pre-dredging surveys. Post-dredged survey shall also include 100M area either side /around of dredging areas to determine occurrence of any siltation due to the contractor's work/fault.

If high spots are found during the Post dredged survey and multi-beam survey, the Contractor shall remove them in a manner as approved by the Employer. The outcome of the post dredging surveys shall decide the demobilization of the platforms subject to removal of any high spots in scope of works area sand desired dredge levels has been achieved up to the satisfaction of the Employer.

2.6 Multi-beam Sonar Survey

In addition to the post-dredging bathymetric survey, the Contractor shall prove that no part of the dredged area protrudes above the required dredged level, by carrying out multi-beam echo sounder survey of the dredged area with the methodology as approved by the Employer.

All the above surveys are to be witnessed and approved by the Employer.

2.7 Final Survey

The final dredging survey shall be carried out at the end of the Contract following a clean-up dredge to all the dredged areas.

2.8 Survey of Dumping Site

No dumping of dredged material shall be carried out outside the designated dumping site. The Contractor shall survey the designated dumping site after every one month in order to monitor a final dumping level as directed by the Employer. The dumping level shall be maintained at 19m in dumping grounds.

2.9 Processing of Survey Data and Printing of Fair Sheets/Charts

Processing of raw data pertaining to all surveys shall be carried out jointly using HYPACK MAX software by the representatives of the Contractor, the Engineer and the Employer. Echo sounder trace is to be consulted to verify soundings or depths where needed.

Printing of survey fair sheet (A0 size) by the contractor / engineer / employer / consultant and signed by each party accordingly.

2.10 Procedure for processing of survey data

Survey data will be jointly collected and written on CDs / DVDs (three sets) at the end of the day which is to be signed by Contractor, Employer / Engineer reps at site. Each set of survey data will be held by Contractor and Engineer.

Survey data will be processed jointly at site office of Engineer on the computer system and associated surveys softwares (Hypack Max latest version) provided by the Contractor. Set of Survey data held with the Employer will be used for joint processing in the Computer system for survey provided by Contractor. The Survey Processing system (PC/ Laptop) will be under lock & key and password applied by the contractor only while said processing system shall be placed at Employer site office.

The Engineer shall be provided with one reproducible copy and three prints of each as soon as possible after completion of the survey. Processed data shall also be provided to the Employer in digital form suitable for use with the HYPACK MAX software provided by the Contractor. Survey drawings in the form of properly formatted computer disc output, compatible with AUTOCAD shall also be provided.

Reproducible copies of surveys used for interim measurement purposes shall be signed by the Engineer, the Contractor and the Employer when agreed.

All survey sheets/drawings including pre-dredging, interim and post-dredging survey sheets shall be signed by the Contractor and Employer when agreed.

2.11 Survey Reports

On completion of each joint survey (pre-dredge, interim, post-dredge and multi-beam), a report of each survey shall be submitted to the Engineer, which will include:

- (a) Techniques adopted/equipment used for survey, accuracy achieved.
- (b) Line spacing, density of sounding, scale of survey, geodetic parameters, tidal correction, calibration data and weather and sea conditions etc.
- (c) Details of dredged volume calculations (pre-dredge, interim and post-dredge surveys)

2.12 Dredge Volume Calculations

Based on the joint bathymetric data collected, quantity to be dredged is estimated. However, the actual quantity to the designed level will be calculated on the basis of joint pre-dredging survey.

The dredged volume for interim payment will be calculated on the basis of interim hydrographic surveys of entire scope of work area. Volume calculations shall be carried jointly by the Contractor and Employer after completion of each interim survey. HYPACK MAX software with cross section method shall be used for dredged volume computation in pre-dredging survey, all interim surveys and post-dredging survey.

The main key tasks, responsibilities and authorities of the key personnel involved in the operations are summarized below:

Role	Responsibilities
Hydrographer / Topographic Surveyor	Responsible for the management of hydrographic and topographic surveys to support dredging and disposal operations, processing and analyzing survey data, preparing survey reports, providing technical support, maintaining, calibrating, and ensuring the survey equipment is in good condition.
HSE Officer	Responsible for HSE on site, including promoting safe working practices, coordinating accident/incident reporting and investigation, document control, and environmental requirements, and reporting to the Project Manager. Additionally, responsible for the dispatching and deployment of vessels and equipment.
QA & QC Officer	Responsible for implementing and overseeing Quality Assurance (QA) and Quality Control (QC) procedures throughout the project lifecycle. Ensures that all materials, workmanship, and construction activities comply with project specifications, industry standards, and regulatory requirements. Conducts regular inspections, testing, and audits; identifies and documents quality issues; and initiates corrective and preventive actions. Collaborates closely with project teams to uphold high-quality standards and supports continuous improvement efforts through detailed quality reporting and performance analysis.

3. RISK ASSESSMENT AND MITIGATION MEASURES

After the identified risks are identified, the HSE Manager or HSE Officer, or Dredging Engineer will conduct the risk assessment and mitigation measures. The template of risk assessment and mitigation measures is shown below:

No.	Activity	Hazards	Existing Safeguards	Initial Risk Class			Additional Safeguards	Mitigated Risk Class			Responsible Person	Remarks
				F	C	Risk Class		F	C	Risk Class		
1	Preparation Works (sample)	a) Workers exposed to the general site hazards 1) Slippery 2) Tripping hazard	<ul style="list-style-type: none"> Induction training should be provided to all workers. Apply for a work permit before the commencement of work. Provide and ensure all workers' use of PPE such as safety helmets, reflective vests, safety shoes, goggles, earplugs, etc. Site safety supervision should be monitored to the compliance with the site. Fence off the workplace. Provide safe access and egress to workers. Provision of good housekeeping. 	A	4	R2	<ul style="list-style-type: none"> Toolbox Training for safe access and egress should be provided to workers. All pipes and rods should be laid flat or secured by wedges. 	C	5	R3	PM/HSE Manager	

4. INTEGRATED RISK MANAGEMENT PLAN

In addition to safety and health hazards, the project also faces other types of risks. We have conducted assessments on these major risks and formulated corresponding mitigation measures.

No.	Risk		Existing Measures	Initial Risk Class			Measures to Be Taken	Mitigated Risk Class			Responsible Person
				F	C	Risk Class		F	C	Risk Class	
1	Potential Delays	Obtaining Permits Delays	1) Invest in the procedure of obtaining all permits for this project 2) Decades of experience in marine projects in Pakistan	B	3	R2	1) Further invest in the procedure and required documents for obtaining all permits for this project. 2) Employ an agent with long-term cooperation to obtain the permit. 3) Launch communication with the relevant Licensing Department	D	5	R4	PM
		Customs Clearance Delay	1) Invest the procedure and document for customs clearance from the agent	B	2	R2	1) Employ an agent with long-term cooperation to undertake customs clearance 2) Launch communication with Custom	E	4	R4	PM

No .	Risk	Existing Measures	Initial Risk Class			Measures to Be Taken	Mitigated Risk Class			Responsible Person
			F	C	Risk Class		F	C	Risk Class	
2	Adverse Weather Conditions	1) Conduct a thorough review of the bidding documents 2) Decades of experience in marine projects in Pakistan 3) Take the adverse condition into the construction schedule 4) Arrange the dredger to construct the Inner Channel as possible during the Monsoon.	A	3	R2	1) A contingency plan will be in place for monsoon and severe weather conditions. 2) Weather forecasts will be monitored daily; warnings will trigger immediate vessel alerts and evacuation of personnel and equipment. 3) During suspension, vessels must maintain a minimum crew, ensure communication, and secure all equipment. Post-weather, the channel will be surveyed and dredged as needed.	B	5	R3	PM

No .	Risk	Existing Measures	Initial Risk Class			Measures to Be Taken	Mitigated Risk Class			Responsible Person
			F	C	Risk Class		F	C	Risk Class	
3	Equipment Breakdowns	1) Deploy the dredger within 10 years. 2) The selected dredger is in excellent condition 3) Take adequate repair time into consideration in the construction schedule.	C	2	R2	1) Vessel equipment will be properly managed, maintained, and repaired to ensure reliable operation and maximize working efficiency. 2) Key equipment (generators, pumps, excavators, pipelines) will be maintained during idle periods to reduce failure risk. 3) Operation and supply plans (fuel, materials, safety items) will be aligned with the maintenance schedule to optimize performance. 4) In case of major equipment failure, backup vessels will be deployed to avoid construction delays.	D	5	R4	PM
4	Public Security	1) Consider employing security after personnel mobilization 2) Install CCTV and AI cameras to monitor the camp	B	2	R2	1) Before the commencement, the Employer is supposed that apply special security measures from the Government both onshore and offshore. 2) Employ security by CHEC as a supplement. 3) The camp area in the port is supposed to be under security management. 4) Install CCTV and AI cameras to monitor the camp.	C	4	R3	PM

SCHEDULE C: LIST OF MAJOR EQUIPMENT

Important Note: Any details provided herein shall be subject to approval of the Engineer prior to the Commencement Date.

Table -E: Details of Survey Boat (Survey boat design, equipment and fittings to be confirmed during Design Review)

Specifications/ details of the survey equipment to be fitted in the boat are given in table below.

Type	Equipment Name
Multibeam Echosounder	Teledyne T20-R / Kongsberg EM 2042 system fully integrated with complete accessories, including motion sensor, sound velocity, and software
Single-Beam Echosounder	Echotrac E20/ Kongsberg EA440 dual channel dual frequency (30-200kHz) echosounder with dual frequency transducer and complete accessories
Positioning System	Trimble R12i RTK / Applanix Pos MV Oceanmaster positioning system, including Telemetric radio link, Controller, software, and accessories. Also requires Center Point RTX Services subscription covering project duration
GNSS Data Processing	Trimble Business Center
Side Scan Sonar	EdgeTech 4125i complete system including tow fish, topside processor, software etc.
Sound Velocity Probes	Valeport / AML Swift SVP (02 sets)
Current meter	Valeport model 106/ AML Models
Tide Gauge	Valeport Tide master / AML Tide gauge (02 Sets)
Magnetometer	Geometrics G-882 Marine Magnetometer
Hydrographic Data Collection / Processing of Software	QINSY, including data acquisition, processing, 3D visualization, analysis, and plotting modules
Motion Sensor	Applanix Pos MV or Seatex MRU 5

Computer & Racks	Associated computers x 02, along with racks and power supply/ backup for running survey software (data acquisition/ processing)
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Following visits/ trainings associated with survey boat construction shall be arranged by the contractor at their own cost (boarding, lodging, ticket, transport, etc.) for the Employer team.

Visit Timeline	Description	Personnel	Duration
Preferably, 14 days of the contract signing	Design review of the boat and layout for survey equipment	04	05 days
Past the midpoint of the boat construction timeline (exact date shall be intimated by the Engineer, 14 days in advance)	Review construction progress and inspect boat machinery and fixtures	04	05 days
Before shipment of the boat to Pakistan (exact date shall be intimated by the Engineer, 14 days in advance)	Training on software and survey equipment by the integrator and SATs	04	05 days

SCHEDULE D: ORGANIZATION CHART

Important Note: Any details provided herein shall be subject to approval of the Engineer prior to the Commencement Date.

***Key Personnel**

- Hydrographer
- Quality Control & Quality Assurance Officer
- HSE Officer
- Data Operator
- Seamen etc. and any other important Key Personnel

Note: In case of any change, the replacement shall be of equal or better qualifications and experience

SCHEDULE E: LIST OF SUB-CONTRACTORS

Part of Works (Give Details)	Subcontractor (With Complete Address)
1	2
/	/
/	/
/	/
/	/
/	/

TERMS OF REFERENCE

TERMS OF REFERENCE

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TERMS OF REFERENCE (TOR)

Hire of Survey Boat

Employer

National Dredging & Marine Services (NDMS)

Date

December 11, 2025

1. Background & Institutional Context

- 1.1 The National Maritime Development & Management Services Company (NDMS) has been established under the directives of the Government of Pakistan to serve as the country's centralized national dredging capability. NDMS is jointly owned by National Logistics Corporation (NLC), Karachi Port Trust (KPT), Port Qasim Authority (PQA) and Gwadar Port Authority (GPA) in accordance with its approved shareholding structure. It operates under the policy oversight of the Ministry of Maritime Affairs and is mandated to undertake and manage dredging requirements at Pakistan's major ports and associated waterways.
- 1.2 As documented in NDMS's progress reports and strategic directives, the organization is required to:
- Develop and maintain national dredging capability.
 - Undertake port maintenance and capital dredging activities.
 - Engage international dredging Bidders where required.
 - Ensure operational readiness to support port expansions, navigational safety, and draft maintenance.
 - Comply with PPRA rules, SOE Act 2023, and all applicable port and maritime regulations.
- 1.3 To fulfil its national mandate and meet near-term operational requirements at KPT, PQA and associated channels, NDMS intends to charter high-capacity TSHD dredging vessels and a dedicated hydrographic survey boat to support continuous monitoring, measurement and validation of dredging outputs.

2. Objective of the Assignment

- 2.1 The objective is to procure, through a competitive and transparent PPRA process, the following:

a. Hiring of Hydrographic Survey Boat

A fully equipped survey vessel capable of daily pre- and post-dredge surveys, validation surveys, area mapping, and as-built delivery.

3. Scope of Services Scope of Services – Hydrographic Survey Boat

3.1 Vessel Specifications

- Seaworthy vessel capable of operating safely in port channels.
- Minimum crew: qualified hydrographer + boat captain + technical assistant.
- Dedicated survey equipment including:
 - Multi-beam / single-beam echo sounder
 - Differential GPS
 - Tide gauge
 - Motion reference unit
 - Survey data processing software

3.2 Responsibilities

- Conduct daily pre- and post-dredge surveys.
- Deliver validated survey datasets, volume calculations and charts.
- Maintain equipment calibration logs.
- Ensure continuous availability with backup arrangements.

4. Evaluation Criteria

4.1 Technical Evaluation (35%)

- Experience (minimum 3 comparable projects).
- Documented production outputs.
- Vessel compliance with required specifications.
- Past performance with global port authorities.
- Survey boat availability, age and condition.
- Survey boat equipment compliance.
- Work-plan, methodology and resource plan.
- HSE and emergency response systems.
- Qualification and experience of key personnel.
- Financial strength and turnover requirements.

4.2 Financial Evaluation (65%)

- Most advantageous based evaluated bidder (Fm/F formula).
- Completeness of pricing schedule.
- Reasonableness of rates and avoidance of unbalanced bids.

5. Deliverables from Bidder

- Mobilized survey boat.
- Daily and weekly operational reports.
- Volume calculations and validated surveys.
- Monthly progress reports.
- Final completion dossier.

6. Deliverables Required from Bidders (with Bid)

- Complete technical proposal.
- Compliance matrices.
- Vessel certificates and class documents.
- Crew Matrix and manning plan.
- Production histories.
- Survey equipment lists.
- Safety, environmental and risk management plans.
- Work-plan and methodology.

7. Governing Standards

- PPRA Rules 2004
- IMO / SOLAS / MARPOL
- ISM Code
- Pakistan Customs regulations
- KPT/PQA operational regulations

SECTION 8 – GENERAL INFORMATION & GUIDANCE TO BIDDERS

8.1 Purpose of This Section

This section provides overarching guidance to Bidders, clarifies the Employer's expectations, and outlines the fundamental principles applicable to the procurement of Survey Boat for NDMS

It is intended to help Bidders understand the operational, technical, regulatory, and contractual framework of this tender.

8.2 Employer's Procurement Mandate

National Maritime Development & Management Services Company (NDMS) are authorized to undertake dredging operations and associated hydrographic survey activities at Pakistan's ports and waterways.

Under this mandate, NDMS seeks to procure:

(1) Hire of Survey Boat

This procurement shall be carried out strictly in accordance with PPRA Rules, ensuring transparency, fairness, and competitiveness.

8.3 General Intent & Expectations

The technical specifications set out the minimum performance, safety, operational and reporting requirements.

It is not the Employer's intention to define every operational detail. Bidders must therefore provide:

- Complete, fully functional dredging hydrographic survey solutions
- Vessels and equipments compliant with internationally recognized standards, including IMO, SOLAS, MARPOL, IHO S-44, and Class Rules
- Vessels capable of continuous commercial operation under hydrological and environmental conditions prevailing in Pakistan

8.4 Mandatory Bidder Responsibilities

All Bidders shall assume full responsibility, at their cost and risk, for:

(a) Vessel & Survey Readiness

- Seaworthiness and valid Class certification
- Competent and certified crew, including Master, Officers, Engineers, Dredge Operators, Hydrographer
- Fuel, lubricants, consumables, spares, and all logistics
- Maintenance and repairs ensuring uninterrupted operations

(b) Regulatory, Financial & Logistical Compliance

Bidders must independently ensure:

- Temporary importation of vessels
- Customs clearances, regulatory approvals, and security passes
- Payment of all port dues, taxes, duties, tariffs, levies
- Visas, crew entry permits, port access permissions
- No disruption to port traffic or navigational safety

The Employer will not be responsible for any permissions, waivers, clearances, demurrage, penalties, delays, or costs.

(c) Survey & Reporting Obligations

- Daily dredging survey production logs
- Joint & Pre-Dredging survey
- Interim Survey
- Weekly and Post Dredging survey results
- Digital datasets in required formats
- Final as-dredged charts and volume computations

8.5 Reliability of Information Provided

Any bathymetric, hydrological or operational data provided by the Employer is **for guidance only**. NDMS Does not guarantee its accuracy or completeness

- Shall not be liable for Bidder conclusions

Bidders shall:

- Conduct independent site visits
- Carry out their own investigations
- Verify all operational constraints and conditions
- Assess risks and contingencies

8.6 Employer's Oversight (Without Assumption of Liability)

The Employer may appoint independent consultants to:

- Review submissions
- Monitor dredging performance
- Validate survey quantities
- Assess contractual compliance

However, such oversight does not replace or reduce the Bidder's contractual responsibilities or liabilities.

8.7 Legal Effect of This Section

This section forms an integral component of the Bidding Documents and shall be read together with:

- Instructions to Bidders (ITB)
- Technical Specifications
- Schedules to Bid
- Conditions of Contract
- Any Addenda issued

SECTION 9 — TECHNICAL SPECIFICATIONS & REQUIREMENTS FOR HIRING OF FULLY-EQUIPPED HYDROGRAPHIC SURVEY BOAT

9.1 General

The Employer requires the hiring of a fully equipped, fully crewed, hydrographic survey vessel capable of supporting:

- Pre-dredge surveys
- Progress surveys (daily/weekly)
- Post-dredge surveys
- Alignment and navigational channel surveys
- Verification and quality-control surveys

All provided equipment, crew, and operating systems must meet:

- IHO S-44 Hydrographic Standards
- IMO, SOLAS, COLREGS, and MARPOL
- Port Authority and national maritime laws
- Internationally accepted hydrographic and marine safety practices

The Bidder is responsible for complete turnkey delivery of vessel, equipment, crew, fuel (if applicable), maintenance, certifications, and data processing.

9.2 Scope of Work

The Bidder shall perform the following:

A. Provision of Survey Vessel

- Fully seaworthy survey boat as per detailed requirements
- All navigation, communication, hydrographic, and safety systems
- Fuel, lubricants, consumables, and maintenance

B. Hydrographic Survey Operations

- Multi-beam (if required), single-beam, side-scan, and supporting surveys
- Establishing horizontal & vertical control
- Daily/weekly dredging progress monitoring
- Pre- and post-dredge volume computations
- Tidal and datum adjustments

C. Data Acquisition & Processing

- Real-time positioning (RTK/INS/MRU)
- Bathymetric data collection
- Backscatter & seabed imaging
- Daily raw & processed deliverables
- Survey charts in CAD & GIS formats

D. Reporting

- Daily survey reports
- Calibration logs
- Metadata sheets
- Final as-surveyed reports

9.3 Technical Specifications of Survey Boat

9.3.1 Vessel Specifications

Specification	Requirement
Length Overall	13 m (minimum) — up to 15 m preferred for enhanced stability
Hull Material	Aluminum or (Fiber-Reinforced Plastic/Fiberglass) FRP
Draft	≤ 0.80 m
Beam	≥ 2.5 m
Sea-Keeping	Capable up to Beaufort Scale 5
Engines	Dual 150–300 HP, fuel-efficient outboards
Endurance	Minimum 8 hours continuous operation
Power Generation	Dedicated marine-grade generator or equivalent battery/inverter backup
Deck Configuration	Adequate structural stability and mounting for MBES/SBES/SSS equipment
Accommodation	Weather-proof cabin; seating for survey crew; basic facilities for up to 10 persons (preferred)
Safety Compliance	SOLAS-compliant lifesaving appliances, fire-fighting systems, navigation lights, anchor gear

9.3.2 Navigation & Communication

- GPS Chart Plotter
- AIS (Class B or higher)
- RADAR (if available)
- VHF Marine Radio (DSC compliant)
- Magnetic compass
- Navigation lights (COLREGS)

9.4 Mandatory Hydrographic Survey Equipment

A. Multi-beam Echo Sounder (MBES) – If Required

- IHO S-44 Special Order or 1A compliance
- Operating frequency 300–400 kHz (shallow water)
- Full seabed coverage
- Real-time beamforming
- Compatible with HYPACK / QINSY

B. Single Beam Echo Sounder (SBES) – Mandatory

- Dual frequency: 33/200 kHz OR 200 kHz
- Accuracy: ± 1 cm
- Depth range: 0.3–100 m

C. Side-Scan Sonar (SSS)

- 100/500 kHz dual-frequency
- Seabed feature identification
- USBL tracking preferred

D. GNSS Positioning

- Two (02) RTK GNSS Systems
- Horizontal accuracy ≤ 5 cm
- Vertical accuracy ≤ 10 –20 mm
- ≥ 10 Hz output

E. Motion Reference Unit (MRU/INS)

- Heave, pitch, roll compensation
- Accuracy: Heave ≤ 2 cm

F. Sound Velocity Systems

- Sound Velocity Profiler (SVP)
- SVS (inline sensor)

G. Tide Gauges

- Minimum four (4) automatic water-level gauges
- For establishing vertical reference, chart datum, and dynamic tidal corrections

H. Magnetometer

- For buried ferrous object detection

I. Survey Software

- Licensed HYPACK/HYSWEEP or QINSy
- Real-time acquisition
- Post-processing & surface modelling
- GIS export support (SHP, GeoTIFF)

9.5 Personnel Requirements

A. Hydrographic Personnel

- Project Hydrographer (IHO Cat-A/B)
 - Minimum 10 years' experience
 - Skilled in MBES/SBES/SSS, data processing, volume computation

- Survey Supervisors / Operators
 - Experience in marine survey operations
- GIS/Data Specialists
 - Experience with GIS, DEM creation, and CAD/GIS deliverables

B. Vessel Crew

- Licensed Boat Captain
- Marine Engineer/Technician
- Deckhand/Assistant

C. Training

All crew must hold valid **STCW certifications**.

9.6 Operational Requirements**A. Mobilization & Readiness**

- Must mobilize within 5–7 days of contract award
- Sea trial and calibration tests must be passed before acceptance

B. Operating Performance

- $\geq 90\%$ vessel uptime throughout charter period
- Daily availability minimum 8 hours
- Backup vessel or equipment replacement within 24 hours

C. Survey Execution

- Bidder must propose line spacing, coverage, and methodology
- Employer may issue revised survey plans depending on dredging progress

D. Regulatory Compliance

- Compliance with:
 - Port State Control
 - SOLAS, MARPOL
 - Environmental and waste disposal laws

E. Safety & Risk Management

- Onboard emergency response plan
- Risk assessment for all survey missions

9.7 Calibration, Documentation & Proof of Experience**A. Calibration Documentation**

- GNSS calibration certificates (≤ 12 months)
- SBES bar check logs (daily)
- MBES patch test logs (if applicable)

- SVP/SVS certificates

B. Technical Documentation

- Vessel drawings, stability book, engine certificates
- Survey equipment serial numbers and manuals

C. Proof of Experience

- Completion certificates for similar hydrographic surveys
- Client references
- Records of past dredging survey campaigns

D. Insurance

- Hull & Machinery Insurance
- P&I coverage
- Employer's liability for crew

9.8 Survey Deliverables

A. Daily Deliverables

- Raw GNSS, SBES, MBES (if used)
- Track lines
- Daily logs
- Calibration checks
- Tide gauge readings

B. Final Outputs

- XYZ point data
- Processed gridded DEMs
- Side-scan mosaics
- CAD DXF/DWG charts
- GeoTIFF (if applicable)
- Metadata
- QA/QC report
- Final hydrographic report

9.8.1 Bidder must submit:

- Three months of previous daily production logs
- Fuel consumption rates:
 - Transit
 - Survey
 - Idle

9.2 HSE & Environmental Requirements

The vessel must comply with:

- ISM Code
- SOLAS
- MARPOL (Annexes I, IV, V, VI)
- SOPEP
- Emergency Response Manual
- Garbage Management Plan
- Waste / Oily water Management Plan

Also required:

- Onboard oil-spill kit
- Confined space entry procedures
- PPE inventory & safety drills logs

9.3 Communication & Reporting

Daily reports must include:

- Volume of survey dredged
- Downtime analysis
- Fuel consumed
- Weather restrictions
- Equipment failures

Weekly reports include:

- Survey-verified quantities
- Progress charts
- Performance KPIs

SECTION 10 – MEASUREMENT, PAYMENT TERMS AND BID PRICING REQUIREMENTS

10.1 General

This Section defines the method of measurement, basis of payment, required schedules of prices, and instructions for Bidder pricing submissions for:

(1) Hiring of Fully-Equipped Hydrographic Survey Boat

- All prices must be firm, fixed, and inclusive of all obligations described in the Bidding Documents.
- No claim for additional payment shall be entertained for any item, provision, or responsibility that is reasonably required to complete the Services.

10.2 Currencies and Exchange Mechanism

10.2.1 Bid Currency

Bidders shall quote:

- All costs in PKR

10.2.2 not used

10.2.3 Taxes & Duties

Bidders shall include:

- Pakistan taxes
- Port dues
- Temporary importation obligations
- Income tax & withholding tax
- All statutory deductions

Employer will make statutory deductions as per law.

10.3 Method of Measurement — Survey Boat Services

Survey boat services shall be measured on:

10.3.1 Daily Operational Hire

Number of actual operational days fulfilling:

- 8 hours minimum daily operation
- Completion of daily logbook & data submission
- Successful acquisition of bathymetry

10.3.2 Off-Hire Periods

Non-payable periods include:

- Equipment failure (GNSS, SBES, MRU, SSS, etc.)
- Vessel breakdown
- Crew non-availability
- Safety non-compliance

10.3.3 Mobilization / Demobilization (Lump Sum)

10.4 Payment Terms

Payments shall be made monthly upon submission of:

- (1) Valid invoice
- (2) Daily log sheets (vessel & survey equipment)
- (3) Production reports (for dredger)
- (4) Survey charts & QC sheets (for survey boat)
- (5) Off-hire record
- (6) Certificate of Satisfactory Performance issued by Employer

10.4.1 Daily Hire Rate (Primary Unit of Payment)

Measured in **calendar days**, from:

- Completion of temporary importation,
- Acceptance Inspection by Employer, and
- Issuance of “Notice of Commencement”.

10.4.2 Off-Hire Periods (Deductions)

The following will be non-payable:

- Mechanical breakdowns
- Class suspensions
- Equipment failure
- Non-availability due to crew shortages
- Failure to comply with HSE or port regulations

Off-hire to be measured in **hours**, deducted from daily rate.

10.4.3 Paid Standby (If Applicable)

Paid standby may be allowed (only if instructed by Employer) and must be quoted separately.

10.4.4 Mobilization / Demobilization (Lump Sum)

Measured as:

- Mobilization = Lump Sum
- Demobilization = Lump Sum

Mobilization payment only after:

- Temporary importation
- Boat acceptance test
- Submission of Class and Statutory certificates

10.5 Mobilization / Demobilization (Lump Sum)

10.5.1 Payment Terms

Payments shall be made monthly upon submission of:

- (1) Valid invoice
- (2) Daily log sheets (vessel & survey equipment)
- (3) Production reports (for dredger)
- (4) Survey charts & QC sheets (for survey boat)
- (5) Off-hire record
- (6) Certificate of Satisfactory Performance issued by Employer

10.5.2 Retention

Five percent (5%) will be applied unless specified in PCC.

10.5.3 Advance Payment

No advance payment.

10.5.4 Deductions

Deductions will apply for:

- Off-hire periods
- Incomplete daily data
- Safety violations
- Failure to meeting KPIs (if applicable)

10.6 Bid Pricing Requirements

Bidders shall submit the following:

10.6.1 Schedule of Prices Lump Sum Components

Item	Description	Currency	Amount
1	Mobilization (LS)	PKR	_____
2	Demobilization (LS)	PKR	_____
3	Temporary Importation Costs	PKR	_____

A. Time-Charter Components

Item	Description	Unit	Currency	Rate
1	Daily Hire Rate	Per Day	PKR	_____
2	Paid Standby Rate (if applicable)	Per Day	PKR	_____
3	Additional Crew (if any)	Per Day	PKR	_____

10.7 Pricing Rules and Conditions

- All rates must be fixed and firm for the entire charter period.
- Bidders must quote all items; incomplete pricing will be treated as non-responsive.
- The charter rate will be inclusive of initial mobilisation, final de-mobilisation, man power, fuel, lubricants, repairs, stores, spares, insurance, ancillary equipment for a 24 hours period operation.
- All consumables, spares, crew costs, fuel, maintenance, repairs, insurance, certifications, dry-docking costs (if any) are included in the daily rate.
- Employer will not be responsible for:
 - Temporary importation delays
 - Port dues, pilotage, towage, customs
 - Crew visas or immigration issues
- All risk of vessel operation remains with the Bidder.

10.8 Bid Submission Format

Bidders shall submit pricing as follows:

- Schedule of
- Summary Price Sheet (Grand Total)
- PKR Breakdown Sheet
- Fuel consumption & efficiency tables (informational)
- Charter inclusions and exclusions list
- Off-hire policy acceptance

All schedules must be:

- Signed & stamped

- Submitted in both hard copy and soft editable Excel format
- Placed in the Financial Proposal Envelope

10.9 Basis of Evaluation (Information Only)

The MAB evaluated cost will be based on:

- Lump Sum Items
- Daily Hire Rates \times estimated duration
- Deductions for exclusions/non-compliance

SECTION 11 — KEY PERFORMANCE INDICATORS (KPIs) & PENALTIES

11.1 General Requirements

This section establishes the Key Performance Indicators (KPIs) applicable to:

Failure to meet KPIs will result in deductions, off-hire, LDs, or termination.

KPI data will be validated by the Employer through:

- AIS logs
- Daily production logs
- Equipment sensor data
- Hydrographic survey results
- Inspections & audits

11.2 KPI Categories

KPI Category	Applies To	Measurement Basis	Consequence
Availability	Survey Boat	% of operational hours	Off-hire & PKR penalties
HSE Performance	Survey Boat	Safety compliance	PKR penalties or suspension
Reporting Compliance	Survey Boat	Timeliness & accuracy	PKR penalties
Operational Readiness	Survey Boat	Crew, equipment, seaworthiness	PKR deductions
Survey Accuracy	Survey Boat	Horizontal/vertical accuracy	PKR penalties or re-survey

11.3 Availability KPIs

11.3.1 Minimum Required Availability

Vessel	KPI Threshold	Measurement
Survey	≥ 90% monthly	Calendar month

11.3.2 Off-Hire Conditions

A vessel is 100% off-hire when:

- Mechanical/electrical failure
- DGPS/Echo sounder/MRU failure (Survey Boat)
- Crew shortage
- HSE non-compliance
- Loss of class, seaworthiness, or certification

- Missing daily reporting

11.4 HSE KPIs

- **0 Lost Time Incidents (LTI)** per month
- Full compliance with MARPOL, SOLAS, ISM
- Mandatory safety drills and toolbox talks
- All crew must hold valid certification

Immediate suspension applies in case of:

- Major accident
- Environmental spill
- Unsafe operations
- Tampering with logs or sensors

11.5 Survey KPIs (Survey Boat)

Parameter	KPI
Horizontal Accuracy	≤ 10 cm
Vertical Accuracy	≤ 5 cm
Line Spacing	As specified by Employer
Coverage	100% of assigned grid
Processed Survey Delivery	Within 24 hours

Incorrect surveys must be repeated **at Bidder's cost**.

11.6 Penalties

11.6.1 Availability Shortfall Penalties

Availability Achieved	Penalty (PKR)
< 90% (Survey Boat)	0.3% of Monthly Hire (PKR) per 1% shortfall
< 75% (Any vessel)	Full off-hire for days below threshold
< 60% (Any vessel)	Employer may terminate charter

11.6.2 Production Shortfall Penalties

Shortfall vs Target	Penalty (PKR)
< 10%	Written warning
10–20%	2% of monthly hire
20–30%	5% of monthly re

Shortfall vs Target	Penalty (PKR)
> 30%	7% of monthly hire + increased Performance Security
> 40%	Employer may terminate charter

11.6.3 Reporting Penalties

Reporting Failure	Penalty (PKR)
Daily report late > 12 hrs.	PKR 75,000 per day
Incorrect data requiring re-submission	PKR 150,000 per instance
Weekly report late > 24 hrs.	PKR 300,000 per report
Missing daily report	PKR 300,000 per day

11.6.4 HSE Penalties

HSE Violation	Penalty (PKR)
Minor HSE violation	PKR 20,000
Repeated minor violations	PKR 30,000
Major HSE violation	PKR 1,500,000
Environmental spill (oil/muck)	PKR 5,000,000 + full cleanup at Bidder's cost
Lost Time Injury (LTI)	PKR 300,000

11.6.5 Survey Boat Operational Penalties

Failure Type	Penalty
Survey equipment offline > 6 hours	Full off-hire
Survey accuracy not achieved	Re-survey at Bidder's cost
Daily report late > 12 hrs	PKR 15,000 per day
Weekly survey data late > 24 hrs	PKR 300,000
Inaccurate survey requiring repeat	PKR 300,000
Unqualified hydrographer/crew	PKR 300,000 + immediate replacement

11.7 KPI Verification Method

KPI compliance will be verified using:

- AIS logs
- Dredger onboard production sensors
- Pump/discharge logs

- Hydrographic survey grids
- Daily/weekly reports
- Inspection and audits
- Employer/Consultant verification surveys

The Employer's determination shall be **final and binding**.

11.8 Repeated Failure

If KPI failure occurs in **two consecutive months**, the Employer reserves the right to:

- Increase Performance Security
- Issue performance warning
- Reduce charter period
- Terminate charter without penalty

PREAMBLE TO BILL OF QUANTITIES (BOQ)

HIRING OF HYDROGRAPHIC SURVEY BOAT

1. GENERAL

- 1.1 The rates entered in the Bill of Quantities shall be **inclusive of all obligations**, equipment, crew, fuel, insurance, mobilization, demobilization, overheads, and profit unless stated otherwise
- 1.2 The Bidder shall provide all resources necessary to complete the dredging and survey works in accordance with the Specifications, Drawings, Instructions of the Engineer, and Contract Conditions.
- 1.3 The Bidder must ensure that the survey vessel are fully operational, class-certified, and seaworthy at all times.

2. HIRING BASIS

- 2.1 The hire rates shall be on a per day (24-hour) or per hour basis as defined in the BOQ.
- 2.2 Time lost due to breakdown, deficiencies, non-availability of crew, or failure to comply with technical requirements will be considered OFF-HIRE and not payable.
- 2.3 Logs (vessel logbook, fuel log, production reports) shall be verified daily by the Employer/Engineer.

3. MOBILIZATION & DEMOBILIZATION

- 3.1 Mobilization includes towing, transit, port clearance, customs, inspections, surveys, pre-deployment tests, and positioning at the site.
- 3.2 Demobilization includes departing the site, towing/transit back, and port clearance.
- 3.3 Payment shall be lump sum, made only upon successful arrival (mobilization) or departure (demobilization).

4. SURVEY VESSEL REQUIREMENTS

- 4.1 The survey boat must be equipped with approved hydrographic equipment.
- 4.2 Equipment owned by the Employer shall be safely mounted on the vessel by the Bidder.
- 4.3 The boat shall operate minimum 24 **hours per day** unless otherwise instructed.

5. TAXES & PPRA COMPLIANCE

- 5.1 All applicable federal and provincial taxes shall be included in rates unless stated otherwise.
- 5.2 PPRA Rules 2004 (as amended) shall apply.
- 5.3 All items in the BOQ must be fully priced; non-priced items will be deemed included.

HIRING OF HYDROGRAPHIC SURVEY BOAT

Item No.	Description	Unit	Qty	Rate (PKR)	Amount (PKR)
C-1	Mobilization of Survey Boat	LS	1		
C-2	Daily Hire (Operator, fuel, Crew included)	Day	120		
C-3	Mounting/Dismounting of Employer Equipment	LS	1		
C-4	Demobilization	LS	1		

A. SURVEY EQUIPMENT

Item No.	Equipment	Unit	Qty	Rate (PKR)	Amount (PKR)
D-1	Multi-beam Echo Sounder	Day	120		
D-2	Single Beam Echo Sounder	Day	120		
D-3	GNSS RTK Receiver	Day	120		
D-4	Motion Reference Unit (MRU / IMU)	Day	120		
D-5	Sound Velocity Profiler (SVP)	Day	20		
D-6	Tide Gauge	Month	4		

B. PERSONNEL

Item No.	Description	Unit	Qty	Rate (PKR)	Amount (PKR)
E-1	Hydrographic Surveyor	Day	120		
E-2	Survey Engineer	Day	120		
E-3	Survey Assistant	Day	120		
E-4	Data Processor	Day	120		

C. CONTINGENCIES / OTHERS

Item No.	Description	Unit	Qty	Rate (PKR)	Amount (PKR)
F-1	Fuel (if paid by Employer)	Liter	Prov.		
F-2	Spare parts / emergency repairs	Prov	Prov		
F-3	Additional equipment not listed	Prov	Prov		

Total BOQ Amount: PKR _____