

Bidding Document
National Competitive Bidding - NCB
(Two-Envelope Bidding Process with e-Procurement)
(Without Prequalification)



**Procurement of EPC Contract
for
Construction of Inter-modal IWT Terminal at
Kalughat, Bihar**

VOLUME-1

BIDDING DOCUMENT

RFB : IN-IWAI- 185377-CW-RFB

Issued on December 2020

**Employer: Inland Waterways Authority of India,
Ministry of Shipping, Government of India
A-13, Sector -1, Noida**

Country: India

Inland waterways Authority of India
(Ministry of Shipping, Govt of India)
Project: Capacity Augmentation of NW-1 (Jal Marg Vikas)

NATIONAL OPEN COMPETITIVE PROCUREMENT

(Engineering, Procurement, Construction (“EPC”) following two envelope Bidding Process with e-Procurement)

File Ref:- IN / IWAI / WB / NW-1 /14/6/2000

RFB No :- IN-IWAI- 185377 - CW- RFB

NAME OF WORK : *Procurement for EPC Contract for Construction of Inter-modal IWT Terminal at Kalughat, Bihar for Capacity Augmentation of National Waterway-1 (River Ganga)*

NIT release date	19.12.2020
DOWNLOADING OF BIDDING DOCUMENT	FROM 19.12.2020 to 04.02.2021 [17:00 Hrs]
TIME AND DATE OF PRE-BID MEETING	Date : - 06.01.2021 at 15.00 hours
LAST DATE AND TIME FOR RECEIPT OF BIDS	Date :- 04.02.2021 TIME 15:00 HOURS
* OPENING OF BIDS – Technical Part	Date :- 04.02.2021 TIME 15:30 HOURS
* OPENING OF BIDS – Financial Part	. The firms that qualify technically shall be notified subsequently for opening of the financial part of their bids.
* Should be the same as the deadline for submission of bids or promptly thereafter	
PLACE OF OPENING OF BIDS	IWAI , A-13 Sector-1 ; Noida
OFFICER INVITING BIDS :- <i>Project Director (JMVP) Inland Waterways Authority of India, A – 13, Sector – 1, Noida – 201301, Uttar Pradesh – INDIA Telephone No. : (91) 0120-2424544 Email. : vc.iwai@nic.in ; rkant.iwai@nic.in ;</i>	

REQUEST FOR BID

(RFB)

REQUEST FOR BIDS (RFB) E-Procurement Notice

(Engineering, Procurement, Construction (“EPC”) Contract following Two-Envelope
Bidding Process with e-Procurement)

NATIONAL OPEN COMPETITIVE PROCUREMENT

Project: Capacity Augmentation of NW-1 (Jal Marg Vikas)

Contract Title :- Procurement for EPC Contract for Construction of Inter-modal IWT Terminal at Kalughat, Bihar for Capacity Augmentation of National Waterway-1 (River Ganga)

loan number: 8752 IN

RFB Reference no :- IN-IWAI-185377-CW-RFB

file ref no: IWAI/WB/NW-1/14/06/2020

1. The Inland Waterways Authority of India, Ministry of Shipping, Government of India has received financing from the International Bank for Reconstruction and Development toward the cost of Capacity Augmentation of National Waterway – 1 (Jal Marg Vikas) and intends to apply a part of the funds to cover eligible payments under the contract for construction of works as detailed below.
2. Bidders from India should, however, be registered with the Government of Bihar .or other State Governments/Government of India, or State/Central Government Undertakings. Bidders from India, who are not registered as above, on the date of bidding, can also participate provided they get themselves registered by the time of contract signing, if they become successful bidders¹.
3. The Inland Water Authorities of India , Govt of India (***Implementing Agency***) invites online bids for the construction of works detailed below in the table. The bidders may submit bids for any or all of the works indicated therein. Interested bidders may obtain further information and inspect the bidding documents at the address given below during office hours.
Bidders are advised to note the clauses on eligibility (Section I Clause 4) and minimum qualification criteria (Section III – Evaluation and Qualification Criteria), to qualify for the award of the contract. In addition, please refer to paragraphs 3.14 and 3.15 of the “Procurement Regulations” setting forth the World Bank’s policy on conflict of interest.
4. Bidding documents are available online on NIC e Procurement (*website*) from ***16.12.2020 to 04.02.2021*** for a non-refundable fee as indicated in the table below, in the form of Demand Draft (DD)² on any Scheduled/Nationalized bank payable at ***IWAI FUND payable at NOIDA*** Bidders will be required to register on the website. The bidders would be responsible for ensuring that any addenda available on the website is also downloaded and incorporated.
5. For submission of the bid, the bidder is required to have Digital Signature Certificate (DSC) from one of the Certifying Authorities authorised by Government of India for issuing DSC.

Aspiring bidders who have not obtained the user ID and password for participating in e-procurement in this Project, may obtain the same from the website: <https://eprocure.gov.in/eprocure/app>. A non-refundable fee of Rs 6000/- (inclusive of tax) is required to be paid. The mode of payment shall be in the form of DD3 drawn in favour of **IWAI FUND payable at NOIDA**, from any Scheduled/ Nationalized Bank. Payment documents are to be submitted along with other documents listed in paragraph 6 below before the bid submission deadline.

6. Bids comprise two Parts, namely the **Technical Part and the Financial Part, and both parts must be submitted simultaneously online on : <https://eprocure.gov.in/eprocure/app> on or before 15.00 hours on 04.02.2021** and the 'Technical Part' of the bids will be publicly opened online on the same day at **15.30 hours**, in the presence of the bidders designated representatives who wish to attend. The "Financial Part" shall remain unopened in the e-procurement system until the second public Bid opening for the financial part. Any bid or modifications to bid (including discount) received outside e-procurement system will not be considered. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened on the next working day at the same time and venue. The electronic bidding system would not allow any late submission of bids.
7. All Bids must be accompanied by a bid security of the amount specified for the work in the table below, drawn in favour of Project Director, JMVP. Bid security will have to be in any one of the forms as specified in the bidding document and shall have to be valid for 45 days beyond the validity of the bid. Procedure for submission of bid security is described in Para 6.
8. The bidders are required to submit (a) original payment documents towards the cost of bidding document; and registration on e-procurement website (if applicable); (b) original bid security or Bid-Securing Declaration in approved form; and (c) original affidavit regarding correctness of information furnished with bidding document with
Project Director
Project Management Unit, Jal Marg Vikas Project
Address: A-13, Sector – 1 Noida, Gautam Buddha Nagar, Uttar Pradesh
PIN: 201301 India
 before the bid submission deadline, either by registered post/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened.
9. **A pre-bid meeting** will be held on **06.01.2021 at 15.00** hours at the office of
Project Director, JMVP
Project Management Unit, Jal Marg Vikas Project
Address: A-13, Sector – 1 Noida, Gautam Buddha Nagar, Uttar Pradesh
ZIP Code: 201301 Country: India
 to clarify the issues and to answer questions on any matter that may be raised at that stage as stated in ITB Clause 7.4 of 'Instructions to Bidders' of the bidding document. Bidders are advised to download the bidding document prior to the pre-bid meeting in order for bidders to have a good understanding of the scope of work under this contract for discussion and clarification at the pre-bid meeting.
10. Other details can be seen in the bidding documents. The Employer shall not be held liable for any delays due to system failure beyond its control. Even though the system will attempt to notify the bidders of any bid updates, the Employer shall not be liable for any

information not received by the bidder. It is the bidders' responsibility to verify the website for the latest information related to this bid.

8. The address referred to above is:

Project Director, JMVP

Project Management Unit, Jal Marg Vikas Project

Address: A-13, Sector – 1 Noida, Gautam Buddha Nagar, Uttar Pradesh

ZIP Code: 201301 Country: India

Telephone: +91 120- 2424544 Electronic mail address: vc.iwai@nic.in.

<p align="center">Inland waterways Authority of India (Ministry of Shipping, Govt of India) PROJECT – Capacity Augmentation of River Ganga (NW-1)</p> <p>File Ref:- IN / IWAI / WB / NW-1/ 14/ 06 /2020.</p> <p>IFB NO IN-IWAI-185377-CW-RFB</p> <p align="center">NATIONAL COMPETITIVE BIDDING</p>				
NAME OF WORK		“Construction of Inter-Modal IWT Terminal at Kalughat – Bihar “		
DOWNLOADING OF BIDDING DOCUMENT		FROM 16.12.2020 to 04.02.2021 [17:00 Hrs]		
TIME AND DATE OF PRE-BID CONFERENCE		Date :- 06.01.2021 at 15.00 hours		
LAST DATE AND TIME FOR BID SUBMISSION / RECEIPT OF BIDS		Date :- 04.02.2021 TIME 15:00 HOURS		
TIME AND DATE OF OPENING : Technical Part		Date :- 04.02.2021 TIME 15:30 HOURS		
Place of Bid Opening		Inland Waterways Authority of India Project Management Unit – JMVP Jal Marg Vikas Project; A-13, Sector -1, Noda [UP]		
OFFICER INVITING BIDS		Project Director [JMVP]		
Package No	Name of Work	Bid Security * Rs.	Cost of Document Rs.	Period of Completion
1	2	3	4	5
IN-IWAI-185377-CW-RFB	“Construction of Inter-Modal IWT Terminal at Kalughat – Bihar “	INR 1,63,44,000.00	INR 6000	2 years

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Part 1 – Bidding Procedures

Section I. Instructions to Bidders

1.

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ABBREVIATIONS		
	GOI	Government of India
	MOS	Ministry of Shipping
	IWA1	Inland Waterways Authority of India
	WB	World Bank
	JMVP	Jal Marg Vikas Project
	PMU / PMC	Project Management Unit./ Project Management Consultant
	NW-1	National Waterways-1 (River Ganga)
	CPPP	Central Public Procurement Portal.
	INR	Indian National Rupee
	NCB	National Competitive Bid.
	ICB	International Competitive Bid
	IFB	Invitation for Bid
	QC /QR	Qualifying Criteria / Qualifying Requirements
	ATO	Annual Turn Over
	NIT	Notice Inviting Tender
	IMT	Inter Modal Terminal
	MMT	Multi Modal Terminal
	IWT	Inland Water Transport.
	RFB	Request for Bid
	ITB	Instruction to Bidder
	BDS	Bid Data Sheet
	EMD	Earnest Money Deposit / Bid Security
	GCC	General Condition of Contract.
	PCC	Particular Condition of Contact.
	ESHS	Environment, Social, Health & Safety
	ESIA	Environment & Social Impact Assessment.
	MSIP	Management Strategies & Implementation Plan
	C-ESMP	Contractor's Environment & Social Management Plan.
	CPG	Contract Performance Guarantee
	JV	Joint Venture
	GBV	Gender Base Violence
	SEA	Sexual Exploitation and Abuse.
	DMP	Dredging Management Plan
	IHO	International Standard for Hydrographic Surveys
	OHSAS	Occupational Health & Safety Assessment Series
	EMS	Environmental Management System
	IADC	International Association of Dredging Companies
	SMC	Safety Management Certificate
	DOC	Document of Compliance
	GST	Goods & Service Tax
	BOCW	Building & Other Construction Worker
	CPI	Consumer Price Index
	WPI	Wholesale Price Index
	EIC	Engineer in charges
	TSSC	Technical Support & Supervisory Consultant.

Section I - Instructions to Bidders

A. General

1. Scope of Bid

- 1.1 In connection with the Specific Procurement Notice - Request for Bids (RFB), **specified in the Bid Data Sheet (BDS)**, the Employer, as **specified in the BDS**, issues this bidding document for the provision of Works as specified in Section VII, Works' Requirements. The name, identification and number of lots (contracts) of this RFB are **specified in the BDS**.
- 1.2 Throughout this bidding document:
 - (a) the term "in writing" means communicated in written form (e.g. by mail, e-mail, and fax, including if **specified in the BDS**, distributed or received through the electronic-procurement system used by the Employer) with proof of receipt;
 - (b) if the context so requires, "singular" means "plural" and vice versa;
 - (c) "Day" means calendar day, unless otherwise specified as "Business Day". A Business Day is any day that is an official working day of the Borrower. It excludes the Borrower's official public holidays; and
 - (d) "ESHS" means environmental, social (including sexual exploitation and abuse (SEA) and gender-based violence (GBV)), health and safety.

2. Source of Funds

- 2.1 The Borrower or Recipient (hereinafter called "Borrower") **specified in the BDS** has received or has applied for financing (hereinafter called "funds") from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called "the Bank") in an amount **specified in the BDS**, toward the project **named in the BDS**. The Borrower intends to apply a portion of the funds to eligible payments under the contract(s) for which this bidding document is issued.
- 2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank, and will be subject, in all respects, to the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, equipment, plant, or materials, if such payment or import is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the

Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).

3. Fraud and Corruption

- 3.1 The Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Section VI.
- 3.2 In further pursuance of this policy, bidders shall permit and shall cause their agents (whether declared or not), subcontractors, sub-consultants, service providers, suppliers, and their personnel, to permit the Bank to inspect all accounts, records and other documents relating to any initial selection process, prequalification process, bid submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

4. Eligible Bidders

- 4.1 A Bidder may be a firm that is a private entity, or a state-owned enterprise or institution subject to ITB 4.6, or any combination of them in the form of a joint venture (JV), under an existing agreement, or with the intent to enter into such an agreement supported by a letter of intent, unless otherwise **specified in the BDS**. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Bidding process and, in the event the JV is awarded the Contract, during contract execution. This authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all members. Unless **specified in the BDS**, there is no limit on the number of members in a JV. The joint venture agreement shall be registered in the place **specified in BDS** so as to be legally valid and binding on members.
- 4.2 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this Bidding process, if the Bidder:
 - (a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or
 - (b) receives or has received any direct or indirect subsidy from another Bidder; or
 - (c) has the same legal representative as another Bidder; or
 - (d) has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the Bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or

- (e) any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the Bid; or
 - (f) any of its affiliates has been hired (or is proposed to be hired) by the Employer or Borrower as Engineer for the Contract implementation;
 - (g) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS ITB 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm;
 - (h) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding document or specifications of the contract, and/or the Bid evaluation process of such contract; or (ii) would be involved in the implementation or supervision of such contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the procurement process and execution of the contract.
- 4.3 A firm that is a Bidder (either individually or as a JV member) shall not participate in more than one Bid, except for permitted alternative Bids. This includes participation as a Subcontractor in other Bids. Such participation shall result in the disqualification of all Bids in which the firm is involved. A firm that is not a Bidder or a JV member may participate as a subcontractor in more than one Bid.
- 4.4 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.8. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or sub-consultants for any part of the Contract including related Services.
- 4.5 A Bidder that has been sanctioned by the Bank, pursuant to the Bank's Anti-Corruption Guidelines, in accordance with its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework as described in Section VI paragraph 2.2 d., shall be ineligible to be prequalified for, initially selected for, bid for, propose for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have

determined. The list of debarred firms and individuals is available at the electronic address **specified in the BDS**.

- 4.6 Bidders that are state-owned enterprises or institutions in the Employer's Country may be eligible to compete and be awarded a Contract(s) only if they can establish, in a manner acceptable to the Bank, that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not under supervision of the Employer.
- 4.7 A Bidder shall not be under suspension from Bidding by the Employer as the result of the operation of a Bid-Securing or Proposal-Securing Declaration.
- 4.8 Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country. When the Works are implemented across jurisdictional boundaries (and more than one country is a Borrower, and is involved in the procurement), then exclusion of a firm or individual on the basis of ITB 4.8 (a) above by any country may be applied to that procurement across other countries involved, if the Bank and the Borrowers involved in the procurement agree.
- 4.9 A Bidder shall provide such documentary evidence of eligibility satisfactory to the Employer, as the Employer shall reasonably request.

5. Eligible Materials, Equipment and Services

- 5.1 The materials, equipment and services to be supplied under the Contract and financed by the Bank may have their origin in any country subject to the restrictions specified in Section V, Eligible Countries, and all expenditures under the Contract will not contravene such restrictions. At the Employer's request, Bidders may be required to provide evidence of the origin of materials, equipment and services.

B. Contents of Bidding Document

6. Sections of Bidding Document

- 6.1 The bidding document consists of Parts 1, 2, and 3, which include all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITB 8.

PART 1 Bidding Procedures

- Section I - Instructions to Bidders (ITB)
- Section II - Bid Data Sheet (BDS)
- Section III - Evaluation and Qualification Criteria
- Section IV - Bidding Forms
- Section V - Eligible Countries
- Section VI - Fraud and Corruption

PART 2 Works' Requirements

- Section VII - Works' Requirements: Conditions of Contract together with Schedules.

PART 3 Drawings

- 6.2 The Specific Procurement Notice - Request for Bids (RFB) issued by the Employer is not part of this bidding document.
- 6.3 Unless obtained directly from the Employer or downloaded from the official website specified in the 'E-Procurement Notice', the Employer is not responsible for the completeness of the bidding document, responses to requests for clarification, the minutes of the pre-Bid meeting (if any), or Addenda to the bidding document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Employer or downloaded from the official website specified in the 'E-Procurement Notice' shall prevail.
- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding document and to furnish with its Bid all information and documentation as is required by the bidding document.

7. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting

- 7.1 The electronic bidding system **specified in the BDS** provides for online clarifications. A Bidder requiring any clarification on the bidding document may notify the *Employer* online or raise its inquiries during the pre-Bid meeting if provided for in accordance with ITB 7.4. Clarifications requested through any other mode shall not be considered by the Employer. The *Employer* will respond to any request for clarification, provided that such request is received prior to the deadline for submission of Bids within a period **specified in the BDS**. Description of clarification sought and the response of the *Employer* shall be uploaded for information of all Bidders without identifying the source of request for clarification. Should the clarification result in changes to the essential elements of the bidding document, the Employer shall amend the bidding document following the procedure under

ITB 8 and ITB 22.2. It is the bidder's responsibility to check on the e-procurement system, for any addendum/ amendment/ corrigendum to the bidding document.

- 7.2 The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.
- 7.3 The Bidder and any of its personnel or agents will be granted permission by the *Employer* to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the *Employer* and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 7.4 If so **specified in the BDS**, the Bidder's designated representative is invited to attend a pre-Bid meeting and/or a Site of Works visit. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 7.5 The Bidder is requested, to submit any questions only through the e-procurement portal, not later than one week before the meeting. Clarifications requested through any other mode shall not be considered by the Employer.
- 7.6 Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be uploaded online on e-procurement system. Any modification to the bidding document that may become necessary as a result of the pre-Bid meeting shall be made by the *Employer* exclusively through the issue of an addendum pursuant to ITB 8 and not through the minutes of the pre-Bid meeting. It is the bidder's responsibility to check on the e-procurement system, for any addendum/ amendment/ corrigendum to the bidding document. Nonattendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

8. Amendment of Bidding Document

- 8.1 At any time prior to the deadline for submission of bids, the *Employer* may amend the bidding document by issuing addenda.
- 8.2 Any addendum issued shall be part of the bidding document and shall be deemed to have been communicated to all the bidders. The addenda will appear on the e-procurement system under "Latest Corrigendum", and Email notification is also automatically sent to those bidders who have started working on the tender, unless otherwise **specified in the BDS**. The Employer shall not be liable for any information not received by the bidder. It is the bidders' responsibility to verify the website for the latest information related to this bid.

- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the *Employer* may, at its discretion, extend the deadline for the submission of Bids, pursuant to ITB 22.2.

C. Preparation of Bids

- 9. Cost of Bidding** 9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the *Employer* shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.
- 10. Language of Bid** 10.1 The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the *Employer*, shall be written in English. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Bid, such translation shall govern.
- 11. Documents Comprising the Bid** 11.1 The Bid shall comprise two Parts, namely the Technical Part and the Financial Part. These two Parts shall be submitted simultaneously.
- 11.2 The Technical Part shall contain the following:
- (a) **Letter of Bid – Technical Part** prepared in accordance with ITB 12 and ITB 14;
 - (b) **Bid Security** in accordance with ITB 19.1;
 - (c) **Alternative Bid – Technical Part**, if permissible, in accordance with ITB 13, the Technical Part of any Alternative Bid;
 - (d) **Authorization:** written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.3, and in accordance with ITB 20.4 in case of a JV;
 - (e) **Bidder's Eligibility:** documentary evidence in accordance with ITB 17 establishing the Bidder's eligibility to Bid;
 - (f) **Qualifications:** documentary evidence in accordance with ITB 17 establishing the Bidder's qualifications to perform the contract if its Bid is accepted;
 - (g) **Conformity:** a technical proposal in accordance with ITB 16;
 - (h) **Construction methodology** as detailed in Para 1.1 of Section III Evaluation Criteria;
 - (i) Contractor Registration certificate (as per RFB), if applicable; and

- (j) any other document and schedules **required in the BDS**.

11.3 The **Financial Part** shall contain the following:

- (a) **Letter of Bid – Financial Part:** prepared in accordance with ITB 12 and ITB 14;
- (b) **Alternative Bid - Financial Part:** if permissible in accordance with ITB 13; and
- (c) any other document required **in the BDS**.

11.4 The Technical Part shall not include any information related to the Bid price. Where material financial information related to the Bid price is contained in the Technical Part the Bid shall be declared non-responsive.

11.5 In addition to the requirements under ITB 11.2, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement.

11.6 The Bidder shall furnish in the Letter of Bid – Financial Part information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid, and to contract execution if the Bidder is awarded the contract.

12. Letters of Bid and Schedules

12.1 The Letter of Bid – Technical Part, Letter of Bid – Financial Part, Schedules, and all documents listed under Clause 11, shall be prepared using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 20.3. All blank spaces shall be filled in with the information requested.

13. Alternative Bids

13.1 Unless otherwise specified **in the BDS**, alternative Bids shall not be considered.

13.2 When alternative times for completion are explicitly invited, a statement to that effect will be included **in the BDS** and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.

13.3 Except as provided under ITB 13.4 below, Bidders wishing to offer technical alternatives to the requirements of the bidding document must first price the *Employer's* design as described in the bidding document and shall further provide all information necessary for a complete evaluation of the alternative by the *Employer*, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the Bidder with the Most Advantageous

Bid conforming to the basic technical requirements shall be considered by the *Employer*.

- 13.4 When specified **in the BDS**, Bidders are permitted to submit alternative technical solutions for specified parts of the Works. Such parts will be identified **in the BDS** and described in Section VII, *Works' Requirements*. The method for their evaluation will be stipulated in Section III, *Evaluation and Qualification Criteria*.

14. Bid Prices and Discounts

- 14.1 The prices and discounts quoted by the Bidder in the Letter of Bid – Financial Part shall conform to the requirements specified below.
- 14.2 Deleted.
- 14.3 The price to be quoted in the Letter of Bid – Financial Part, in accordance with ITB 12.1, shall be the total price of the Bid, including any discounts offered.
- 14.4 Deleted.
- 14.5 Unless otherwise **specified in the BDS** and the Contract, the prices quoted by the Bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract.
- 14.6 Deleted.
- 14.7 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 28 days prior to the deadline for submission of Bids, shall be included in the prices and the total Bid price submitted by the Bidder.
- 14.8 Bidders may like to ascertain availability of tax/duty exemption benefits available in India. They are solely responsible for obtaining such benefits which they have considered in their bid and in case of failure to receive such benefits for reasons whatsoever, the Employer will not compensate the bidder (Contractor). The bidder shall furnish along with his bid a declaration to this effect in the Declaration Format provided in Section IV of the bidding document.

Where the bidder has quoted taking into account such benefits, it must give all information required for issue of certificates in terms of the Government of India's relevant Notifications as per the declaration format. In case the bidder has not provided the required information or has indicated to be furnished later on in the Declaration Format, the same shall be construed that the goods/construction equipment for which certificate is required is Nil.

To the extent the Employer determines the quantities indicated therein are reasonable keeping in view the approved design, work requirements, construction program and methodology, the certificates will be issued within 60 days of signing of the contract and no subsequent changes will be permitted. In case of materials pertaining to Variation items and quantities, the certificate shall be

issued only on request from the Contractor when in need and duly certified by the Engineer-in-charge.

No certificate will be issued for items where no quantity/capacity of equipment is indicated in the statement.

If the bidder has considered the tax/duty exemption for materials/construction equipment to be bought for the work, the bidder shall confirm and certify that the Employer will not be required to undertake any responsibilities of the Government of India Scheme or the said exemptions being available during the contract execution, except issuing the required certificate. The bids which do not conform to the above provisions or any condition by the bidder which makes the bid subject to availability of tax/duty exemption for materials/construction equipment or compensation on withdrawal of any variations to the said exemptions will be treated as non-responsive and rejected.

Any delay in procurement of the construction equipment/machinery/goods as a result of the above shall not be a cause for granting any extension of time.

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| 15. Currencies of Bid and Payment | 15.1 The currency of the bid and the currency of payments shall entirely be Indian Rupees only. |
| 16. Documents Comprising the Technical Proposal | 16.1 The Bidder shall furnish a technical proposal in the Technical Part of the Bid, including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV, Bidding Forms, in sufficient detail to demonstrate the adequacy of the Bidders' proposal to meet the work's requirements and the completion time. |
| 17. Documents Establishing the Eligibility and Qualifications of the Bidder | <p>17.1 To establish Bidder's eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid – Technical Part, included in Section IV, Bidding Forms.</p> <p>17.2 In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract, the Bidder shall provide the information requested in the corresponding information sheets included in Section IV, Bidding Forms.</p> |
| 18. Period of Validity of Bids | <p>18.1 Bids shall remain valid for the period specified in the BDS. The Bid Validity period starts from the date fixed for the Bid submission deadline (as prescribed by the Employer in accordance with ITB 22.1). A Bid valid for a shorter period shall be rejected by the <i>Employer</i> as nonresponsive.</p> <p>18.2 In exceptional circumstances, prior to the expiration of the Bid validity period, the Employer may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB 19, it shall also be extended for forty five (45) days beyond the deadline of the extended validity period. A Bidder may refuse the request without forfeiting its Bid Security.</p> |

A Bidder granting the request shall not be required or permitted to modify its Bid, except as provided in ITB 18.3.

18.3 If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial Bid validity period, the Contract price shall be determined as follows:

- (a) in the case of **fixed price** contracts, the Contract price shall be the Bid price adjusted by the factor **specified in the BDS**;
- (b) in the case of **adjustable** price contracts, no adjustment shall be made; or
- (c) in any case, Bid evaluation shall be based on the Bid price without taking into consideration the applicable correction from those indicated above.

19. Bid Security

19.1 The Bidder shall furnish as part of the Technical Part of its Bid, a Bid Security as **specified in the BDS**, in original form, and for the amount **specified in the BDS**.

19.2 Not used.

19.3 *If a Bid Security is specified pursuant to ITB 19.1*, the Bid Security shall be a demand guarantee in any of the following forms at the Bidder's option:

- (a) an unconditional bank guarantee issued by a Nationalized or Scheduled bank located in India;
- (b) an irrevocable letter of credit issued by a Nationalized or Scheduled bank located in India;
- (c) a cashier's or certified check or demand draft issued by a Nationalized or Scheduled bank located in India;
- (d) another security **specified in the BDS**,

In the case of a bank guarantee, the Bid Security shall be submitted using the Bid Security Form included in Section IV, Bidding Forms. The form must include the complete name of the Bidder. The Bid Security shall be valid for forty-five (45) days beyond the original validity period of the Bid, or beyond any period of extension if requested under ITB 18.2.

19.4 If a Bid Security is specified pursuant to ITB 19.1, any Bid not accompanied by a substantially *responsive* Bid Security in accordance with ITB 19.3 shall be rejected by the Employer as non-responsive.

19.5 If a Bid Security is specified pursuant to ITB 19.1, the Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the Contract and furnishing the Performance Security and if required in the BDS, the Environmental, Social, Health and Safety (ESHS) Performance Security pursuant to ITB 50.

19.6 The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required Performance Security and if required in the BDS, the Environmental, Social, Health and Safety (ESHS) Performance Security pursuant to ITB 50.

19.7 The Bid Security may be forfeited:

- (a) if a Bidder withdraws/modifies/substitutes its Bid during the period of Bid validity specified by the Bidder on the Letter of Bid - Technical Part and repeated in Letter of Bid - Financial Part, or any extension thereto provided by the Bidder; or
- (b) if the Bidder does not accept the correction of its Bid Price pursuant to ITB 36; or
- (c) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB 49; or
 - (ii) furnish a Performance Security and if required in the BDS, the Environmental, Social, Health and Safety (ESHS) Performance Security in accordance with ITB 50.

19.8 The Bid Security of a *JV* shall be in the name of the *JV* that submits the Bid. If the *JV* has not been constituted into a legally enforceable *JV*, at the time of Bidding, the Bid Security shall be in the names of all future members as named in the letter of intent mentioned in ITB 4.1 and ITB 11.2.

20. Format and Signing of Bid

20.1 The Bidder shall prepare the Bid, in accordance with this Instruction, ITB 11 and ITB 21.

20.2 Bidders shall mark as “CONFIDENTIAL” information in their Bids which is confidential to their business.

20.3 The Bid shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as **specified in the BDS** and shall be uploaded along with the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid where entries or amendments have been made shall be signed or initialed by the person signing the Bid.

20.4 In case the Bidder is a *JV*, the Bid shall be signed by an authorized representative of the *JV* on behalf of the *JV*, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives. Documents establishing authority to sign the bid on behalf of the *JV* shall be uploaded along with the bid.

20.5 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

D. Online Submission of Bids

21. Sealing and Marking of Bids

- 21.1 Bids, both Technical and Financial Parts, shall be submitted online on the e-procurement system specified in BDS 7.1. Detailed guidelines for viewing bids and submission of online bids are given on the website. The Request for Bids under this Project is published on this website. Any citizen or prospective bidder can logon to this website and view the Request for Bids and can view the details of works for which bids are invited. A prospective bidder can submit its bid online; however, the bidder is required to have enrolment/registration in the website, and should have valid Digital Signature Certificate (DSC) in the form of smart card/e-token obtained from any certifying agency authorised by the Government of India (for class of DSC **specified in BDS**). The bidder should register in the website using the relevant option available. Then the Digital Signature registration has to be done with the e-token, after logging into the website. The bidder can then login the website through the secured login by entering the password of the e-token & the user id/ password chosen during registration. After getting the bid schedules, the Bidder should go through them carefully and submit the specified documents, along with the bid, otherwise the bid will be rejected. The bidders shall fill up online, the forms that are available for online filling on the e-portal. The rest of the forms shall be download by the bidders and filled up. The filled up pages shall then be scanned and uploaded on the e-procurement portal along with the scanned copies of the supporting documents.
- 21.2 The e-Procurement system will scan the uploaded documents for virus and if a document uploaded by bidder is found to have virus, the system will reject the uploaded file. Bidders shall take due care to ensure that the documents uploaded by them in e-Procurement system are virus free. The e-Procurement system restricts bidders from uploading file attachments larger than the file size **specified in BDS**. Hence, the bidders are informed to restrict the size of file attachments uploaded as part of their bid response to less than this size per file.
- 21.3 The original (a) Bid Security in approved form, (b) Power of Attorney (s), (c) payment documents towards the cost of bid document; and registration on e-procurement website (if applicable), and (d) affidavit regarding correctness of information furnished with bid document, shall be delivered by the Bidder to the office **specified in the BDS** before the bid submission deadline. Hard copy of rest of the bid or any other document are not to be submitted.
- 21.4 In case of non-receipt of these original documents, the bid will be declared non-responsive and will not be opened.
- 21.5 The completed bid comprising of documents indicated in ITB 12, should be uploaded on the e-procurement portal along with scanned copies of requisite certificates as are mentioned in

different sections in the bidding document and scanned copy of the bid security.

21.6 All the documents are required to be signed digitally by the bidder. After electronic online bid submission, the system generates a unique bid identification number which is time stamped as per server time. This shall be treated as acknowledgement of bid submission.

21.7 Physical, e-mail, Telex, Cable or Facsimile bids will be rejected as non-responsive.

22. Deadline for Submission of Bids

22.1 Bids, both Technical and Financial Parts, must be uploaded online no later than the date and time **specified in the BDS**.

22.2 The *Employer* may, at its discretion, extend the deadline for the submission of Bids by amending the bidding document in accordance with ITB 8, in which case all rights and obligations of the *Employer* and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

23. Late Bids

23.1 The electronic bidding system would not allow any late submission of bids after due date & time as per server time.

24. Withdrawal, Substitution, and Modification of Bids

24.1 Bidders may modify their bids by using the appropriate option for bid modification on e-procurement portal, before the deadline for submission of bids. For this the bidder need not make any additional payment towards the cost of bid document. For bid modification and consequential re-submission, the bidder is not required to withdraw his bid submitted earlier. The last modified bid submitted by the bidder within the bid submission time shall be considered as the bid. For this purpose, modification/withdrawal by other means will not be accepted. In online system of bid submission, the modification and consequential re-submission of bids is allowed any number of times. A bidder may withdraw his bid by using the appropriate option for bid withdrawal, before the deadline for submission of bids, however, if the bid is withdrawn, re-submission of the bid is not allowed (or allowed **if specified in BDS**).

24.2 Bids requested to be withdrawn in accordance with ITB 24.1 shall not be available in the system, and shall therefore not be opened.

24.3 No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Letter of Bid or any extension thereof. This will result in the forfeiture of the Bid Security pursuant to ITB 19.7.

E. Public Opening of Technical Parts of Bids

25. Public Opening of Technical Parts of Bids

25.1 The Employer shall publicly open Technical Parts of all Bids received by the deadline, at the date, time and place **specified in the BDS**, in the presence of Bidders' designated representatives and anyone who chooses to attend, and this could also be viewed by the bidders online. The Financial Parts of the bids shall remain

unopened in the e-procurement system, until the subsequent public opening, following the evaluation of the Technical Parts of the Bids. In all cases, original documents submitted as specified in ITB 21 shall be first scrutinized, and Bids that do not comply with the provisions of ITB 21 will be declared non-responsive and will not be opened. Thereafter, bidders' names, the presence or absence of a Bid Security, if one was required, alternative bids – technical parts, if any, and such other details as the Employer may consider appropriate will be notified, online by the Employer at the time of bid opening.

In the event of the specified date of bid opening being declared a holiday for the Employer, the bids will be opened at the appointed time and location on the next working day.

- 25.2 The electronic summary of the bid opening will be generated and uploaded online. The Employer will also prepare minutes of the Bid opening, including the information disclosed and upload the same for viewing online. Only Technical Parts of Bids, and technical parts of Alternative Bids if any, that are opened at technical Bid opening shall be considered further for evaluation.

F. Evaluation of Bids – General Provisions

26. Confidentiality

- 26.1 Information relating to the evaluation of Bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process until information on Intention to Award the Contract is transmitted to all Bidders in accordance with ITB 45. In cases where ITB 45 is not applicable, such information shall not be disclosed until Notification of Award is transmitted in accordance with ITB 47.
- 26.2 Any effort by a Bidder to influence the Employer in the evaluation of the Bids or Contract award decisions may result in the rejection of its Bid.
- 26.3 Notwithstanding ITB 26.2, from the time of Bid opening to the time of Contract award, if a Bidder wishes to contact the *Employer* on any matter related to the Bidding process, it shall do so in writing.

27. Clarification of Bids

- 27.1 To assist in the examination, evaluation, and comparison of the Bids, and qualification of the Bidders, the *Employer* may, at its discretion, ask any Bidder for a clarification of its Bid giving a reasonable time for a response. Any clarification submitted by a Bidder that is not in response to a request by the *Employer* shall not be considered. The *Employer's* request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the *Employer* in the evaluation of the Bids, in accordance with ITB 36.

27.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the *Employer's* request for clarification, its Bid may be rejected.

28. Deviations, Reservations, and Omissions

28.1 During the evaluation of Bids, the following definitions apply:

- (a) "Deviation" is a departure from the requirements specified in the bidding document;
- (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and
- (c) "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.

29. Nonmaterial Nonconformities

29.1 Provided that a Bid is substantially responsive, the *Employer* may waive any nonconformities in the Bid which do not constitute a material deviation, reservation or omission.

29.2 Provided that a Bid is substantially responsive, the *Employer* may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

G. Evaluation of Technical Parts of Bids

30. Evaluation of Technical Parts

30.1 In evaluating the Technical Parts of each Bid, the Employer shall use the criteria and methodologies listed in this ITB and Section III, Evaluation and Qualification Criteria. No other evaluation criteria or methodologies shall be permitted.

31. Determination of Responsiveness

31.1 The *Employer's* determination of a Bid's responsiveness is to be based on the contents of the Bid itself, as defined in ITB 11.

31.2 A substantially responsive Bid is one that meets the requirements of the bidding document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:

- (a) if accepted, would:
 - (i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the bidding document, the Employer's rights or the Bidder's obligations under the proposed Contract; or
- (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.

31.3 The Employer shall examine the technical aspects of the Bid submitted in accordance with ITB 16, in particular, to confirm that all requirements of Section VII, Works' Requirements have been met without any material deviation, reservation or omission.

31.4 If a Bid is not substantially responsive to the requirements of the bidding document, it shall be rejected by the *Employer* and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

32. Qualification of the Bidder

32.1 The *Employer* shall determine to its satisfaction whether the eligible Bidders that have submitted substantially responsive Bid - Technical Parts meet the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

32.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17. The determination shall not take into consideration the qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in the bidding document), or any other firm different from the Bidder.

32.3 If a Bidder does not meet the qualifying criteria specified in Section III, Evaluation and Qualification Criteria, its Bid shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

32.4 Only Bids that are both substantially responsive to the bidding document, and meet all Qualification Criteria shall have the Financial Parts of their Bids opened at the second public opening.

33. Subcontractors

33.1 Unless otherwise stated **in the BDS**, the Employer does not intend to execute any specific elements of the Works by subcontractors selected in advance by the Employer.

33.2 The subcontractor's qualifications shall not be used by the Bidder to qualify for the Works unless their specialized parts of the Works were previously designated by the Employer **in the BDS** as can be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Bidder may be added to the qualifications.

33.3 Bidders may propose subcontracting up to the percentage of total value of contracts or the volume of works as **specified in the BDS**. Subcontractors proposed by the Bidder shall be fully qualified for their parts of the Works.

H. Public Opening of Financial Parts of Bids

34. Public Opening of Financial Parts

34.1 Following the completion of the evaluation of the Technical Parts of the Bids, and the Bank has issued its no objection (if applicable), the Employer shall notify in writing those Bidders whose Bids were considered non-responsive to the bidding

document or failed to meet the Qualification Criteria, advising them of the following information:

- (a) the grounds on which their Technical Part of Bid failed to meet the requirements of the bidding document;
- (b) their Financial Part of Bid shall not be opened; and
- (c) notify them of the date, time, and location for public opening of Financial Parts of the Bids.

34.2 The Employer shall, simultaneously, notify in writing those Bidders whose Technical Part have been evaluated as substantially responsive to the bidding document and met all Qualifying Criteria, advising them of the following information:

- (a) their Bid has been evaluated as substantially responsive to the bidding document and met the Qualification Criteria;
- (b) their Financial Part of Bid will be opened at the public opening of the Financial Parts; and
- (c) notify them of the date, time and location for public opening of the Financial Parts of the Bids, **as specified in the BDS.**

34.3 The opening date should allow Bidders sufficient time to make arrangements for attending the opening. The Financial Part of the Bids shall be opened publicly in the presence of Bidders' designated representatives and anyone who chooses to attend, and this could also be viewed by the bidders online. The bidder's names, the Bid prices, per lot (contract) if applicable, including any discounts and Alternative Bid - Financial Part if any, and such other details as the Employer may consider appropriate, will be notified online by the Employer at the time of bid opening.

In the event of the specified date of bid opening being declared a holiday for the Employer, the bids will be opened at the appointed time and location on the next working day.

34.4 The electronic summary of the bid opening will be generated and uploaded online. The Employer will also prepare minutes of the Bid opening, including the information disclosed and upload the same for viewing online. Only Financial Parts of Bids, Financial Parts of Alternative Bids, and discounts that are opened at Bid opening shall be considered further for evaluation.

I. Evaluation of Financial Parts of Bids

35. Evaluation of Financial Parts

35.1 To evaluate the Financial Part, the Employer shall consider the following:

- (a) the Bid price, excluding Provisional Sums, if any;
- (b) price adjustment for correction of arithmetic errors in accordance with ITB 36.1;

- (c) price adjustment due to discounts offered in accordance with ITB 14.3;
- (d) deleted;
- (e) deleted; and
- (f) the additional evaluation factors as specified in Section III, Evaluation and Qualification Criteria.

35.2 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.

35.3 Deleted.

36. Correction of Arithmetical Errors

36.1 In evaluating the Financial Part of each Bid, the Employer shall correct arithmetical errors on the following basis:

- (a) if in the Letter of Bid – Financial Part, there are errors between the sub-totals and total of the amounts, the former shall prevail and the latter will be corrected accordingly; and
- (b) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) above.

36.2 Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITB 36.1, shall result in the rejection of the Bid and the Bid Security may be forfeited in accordance with ITB Sub-Clause 19.7.

37. Conversion to Single Currency

37.1 Not used.

38. Margin of Preference

38.1 Not applicable.

39. Comparison of Financial Parts

39.1 The *Employer* shall compare the evaluated costs of all responsive and qualified Bids to determine the Bid that has the lowest evaluated cost.

40. Abnormally Low Bids

40.1 An Abnormally Low Bid is one where the Bid price, in combination with other constituent elements of the Bid, appears unreasonably low to the extent that the Bid price raises material concerns as to the capability of the Bidder to perform the Contract for the offered Bid price.

40.2 In the event of identification of a potentially Abnormally Low Bid, the Employer, unless otherwise **specified in the BDS**, shall seek written clarifications from the Bidder, including detailed price analyses of its Bid price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the bidding document.

40.3 After evaluation of the price analyses, in the event that the Employer determines that the Bidder has failed to demonstrate its capability to perform the Contract for the offered Bid Price, the Employer shall reject the Bid.

41. Employer's Right to Accept Any Bid, and to Reject And or All Bids

41.1 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 Contract Award, without thereby incurring any liability to Bidders. In case of annulment, all documents submitted and specifically, Bid securities, shall be promptly returned to the Bidders.

J. Award of Contract

42. Award Criteria

42.1 Subject to ITB 43, the Employer shall award the Contract to the successful Bidder. This is the Bidder whose Bid has been determined to be the Most Advantageous Bid as specified in ITB 42.

43. Notification of Award

43.1 Prior to the expiration of the Bid Validity Period, the Employer shall transmit the Letter of Acceptance to the successful Bidder. The Letter of Acceptance shall specify the sum that the Employer will pay the Contractor in consideration of the execution of the contract (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price").

43.2 Within ten (10) Business Days after the date of transmission of the Letter of Acceptance, the Employer shall publish the Contract Award Notice which shall contain, at a minimum, the following information:

- (a) name and address of the Employer;
- (b) name and reference number of the contract being awarded, and the selection method used;
- (c) names of all Bidders that submitted Bids, and their Bid prices as read out at Bid opening, and as evaluated;
- (d) names of all Bidders whose Bids were rejected either as nonresponsive or as not meeting qualification criteria, or were not evaluated, with the reasons therefor; and
- (e) the name of the successful Bidder, the final total contract price, the contract duration and a summary of its scope.

43.3 The Contract Award Notice shall be published on a National website (GoI website <http://tenders.gov.in> or GoI Central Public Procurement Portal <https://eprocure.gov.in/cppp/>) or on the Employer's website, and on the e-procurement system.

43.4 Until a formal contract is prepared and executed, the notification of award shall constitute a binding Contract.

44. Signing of Contract

44.1 The Employer shall send to the successful Bidder the Letter of Acceptance including the Contract Agreement. The Contract Agreement shall incorporate all agreements between the Employer and the successful Bidder.

44.2 Within twenty-eight (28) days of receipt of the Letter of Acceptance, the successful Bidder shall (a) furnish the performance security and if required in the BDS, the Environmental, Social, Health and Safety (ESHS) Performance

Security in accordance with ITB Clause 50; (b) if the successful bidder is a JV, it shall also furnish the JV agreement duly signed by all the members, if it had submitted only a letter of intent to execute the JV agreement along with the bid; and (c) shall sign, date and return the Agreement to the Employer along with the documents stated at (a) and (b) above.

45. Performance Security

- 45.1 Within twenty-eight (28) days of the receipt of the Letter of Acceptance from the *Employer*, the successful Bidder shall furnish the Performance Security and if required in the BDS, the Environmental, Social, Health and Safety (ESHS) Performance Security in accordance with the General Conditions of Contract, subject to ITB 41.2 (b), using for that purpose the Performance Security and ESHS Performance Security Forms included in Schedule-G. The performance security and if required in the BDS, the Environmental, Social, Health and Safety (ESHS) Performance Security of a Joint Venture shall be in the name of the Joint Venture specifying the names of all members.
- 45.2 Failure of the successful Bidder to submit the above-mentioned Performance Security and if required in the BDS, the Environmental, Social, Health and Safety (ESHS) Performance Security or to sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Employer may award the Contract to the Bidder offering the next Most Advantageous Bid.
- 45.3 Upon the successful Bidder's signing the Agreement and furnishing of the Performance Security and if required in the BDS, the Environmental, Social, Health and Safety (ESHS) Performance Security pursuant to ITB Clause 50.1, the Employer shall promptly notify the name of the winning bidder to each unsuccessful bidder and shall discharge the Bid Securities of the bidders pursuant to ITB Clause 19.5 and 19.6.

46. Adjudicator

- 46.1 The Employer proposes the person **named in the BDS** to be appointed as Adjudicator under the Contract, at the daily fee **specified in the BDS**, plus reimbursable expenses (actual boarding, lodging, travel and other incidental expenses). If the Bidder disagrees with this proposal, the Bidder should so state in his Bid. If, in the Letter of Acceptance, the Employer does not agree on the appointment of the Adjudicator, the Employer will request the Appointing Authority designated in Conditions of Contract Clause 26.2.2 of the Contract Agreement, to appoint the Adjudicator.

ITB Reference	<p style="text-align: center;">Section-II Bid Data Sheet (BDS)</p> <p style="text-align: center;">A. General</p>
ITB 1.1	<p>The number of the Request for Bids is: IN -IWAI-185377-CW-RFB</p> <p>The Employer is: Project Director, Jal Marg ikas Project, Inland Waterways Authority of India, Ministry of Shipping, Government of India A-13, Sector-1 ;Noida - Uttar Pradesh– India vc.iwai@nic.in</p> <p>The reference number of the Request for Bids (RFB) is: IN -IWAI-185377-CW-RFB</p> <p>The name of the RFB is: NCB for “ Procurement of EPC Contract for Construction of IWT Inter - modal Terminal at Kalughat , Bihar ”</p> <p>The number and identification of lots (contracts) comprising this RFB is: the work is not divisible in Lots.</p>
ITB 1.2	The Employer shall use the e-procurement system specified in BDS 7.1.
ITB 2.1	<p>The Borrower is: Government of India. The sub-Borrower is Inland Waterways Authority of India, Ministry of Shipping, Government of India</p> <p>Loan or Financing Agreement amount: <i>USD 375 Million</i></p> <p>The name of the Project is: Capacity Augmentation of National Waterway – 1 (CANW-1)</p>
ITB 4.1	<p>Where Joint Ventures are permitted:</p> <p>(a) Maximum number of members in the Joint Venture (JV) shall be: (3) <i>three</i></p> <p>(b) Place where the agreement to form JV to be registered is NOIDA</p> <p>(c) A statement to the effect that all members of the joint venture shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms, shall be included in the authorization nominating a Representative or member in charge, as well as in the Bid and in the Agreement [<i>in case of a successful bid</i>].</p> <p>(d) The joint venture agreement should define precisely the division of assignments to each member of JV. All members of JV should have active participation in the execution during the currency of the contract. This should not be varied/ modified subsequently without prior approval of the Employer.</p>
ITB 4.5	<p>A list of debarred firms and individuals is available on the Bank’s external website: http://www.worldbank.org/debarr.</p>
B. Contents of Bidding Document	
ITB 6.3	<p>Tender fee is required: Yes</p> <p>A fee of Rs 6,000 (Rs. Six thousand) is to be paid through Demand Draft in favor of IWAI Fund; payable at Noida On or before date of opening of bids, i.e. 04.02.2021</p> <p>The method of payment will be Demand Draft in favor of IWAI Fund payable at Noida / Delhi.</p> <p style="margin-left: 40px;">Name of Account: IWAI Fund (Jal Marg Vikas) Bank Name: Syndicate Bank Bank Address: Sector – 18, Morna Branch, Noida – 201301 Account No.: 87781010014534 IFS Code: SYNB0008778 MICR Code: 110025097</p>

ITB 7.1	<p>Electronic – Procurement System</p> <p>The Employer shall use the following electronic-procurement system to manage this Bidding process: : https://eprocure.gov.in/eprocure/app</p> <p>The electronic-procurement system shall be used to manage the following aspects of the Bidding process , <i>issuing bidding document, submissions of Bids, opening of Bids.</i></p> <p>Requests for clarification should be received by the Employer no later than: <i>the Pre-Bid Conference date.</i></p>
ITB 7.4	<p>A Pre-Bid meeting will be held at the following date,</p> <p>time and place: Date 06.01.2021</p> <p>Time: 14:30 hours IST</p> <p>Place: Inland Waterways Authority of India,</p> <p>A-13, Sector-1, Noida - 201301, Uttar Pradesh, India</p>
ITB 7.6	<p>Minutes of pre-bid meeting and Addendum to Bidding Documents will also be hosted on the Employer’s e-procurement portal, i.e. https://eprocure.gov.in/eprocure/app</p>
ITB 8.1 & 8.2	<p>Addendum to Bidding Documents will also be hosted on the Employer’s e-procurement portal https://eprocure.gov.in/eprocure/app</p> <p>The Addendum/Corrigendum, if any, shall be uploaded on the e-procurement portal and shall be available online. Prospective bidders may keep in touch with the portal for the relevant information.</p>
ITB 8.3	<p>Notification regarding extension of deadline for submission of Bids will also be hosted on the Employer’s e-procurement portal https://eprocure.gov.in/eprocure/app</p>
<p>C. Preparation of Bids</p>	
ITB 10.1	<p>The language of the bid is: English</p> <p>All correspondence exchange shall be in English language.</p> <p>Language for translation of supporting documents and printed literature is English.</p>
ITB 11.2 (j)	<p>The Bidder shall submit the following additional documents in its Bid:</p> <p>A scanned copy of an affidavit that the information furnished with the bid document is correct in all respects.</p> <p><i>The hard copy will be submitted in the envelope containing the original Bid Security, tender fee, JV agreement (if applicable), power of attorney and affidavit that the information furnished with the bid document is correct in all respects.</i></p> <p>The Bidder shall submit the following additional documents in its <i>Bid – Technical Part. The list of additional documents should include the following:</i></p> <p>(i) Contractor Registration certificate on e-procurement system as per RFB, if applicable</p> <p>(ii) Code of Conduct (ESHS)</p> <p>The Bidder shall submit its Code of Conduct that will apply to its employees and subcontractors, to ensure compliance with its Environmental, Social, Health and Safety (ESHS) obligations under the contract. <i>[Note: Complete and include the risks to be addressed by the Code in accordance with Section VII-Works’ Requirements: Conditions of Contract together with Schedules, e.g. risks associated with: labor influx, spread of communicable diseases, sexual harassment, gender-based violence, sexual exploitation and abuse, illicit behavior and crime, and maintaining a safe environment etc.]</i></p> <p>In addition, the Bidder shall detail how this Code of Conduct will be implemented. This will include: how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches.</p>

	<p>The Contractor shall be required to implement the agreed Code of Conduct upon contract award.</p> <p>Management Strategies and Implementation Plans (MSIP) to manage the (ESHS) risks</p> <p>The Bidder shall submit Management Strategies and Implementation Plans (MSIP) to manage the following key Environmental, Social, Health and Safety (ESHS) risks.</p> <ul style="list-style-type: none"> • Construction and <i>Traffic Management Plan to ensure safety of local communities from construction activities, and vehicular traffic owing to the construction activities;</i> • <i>[Water Resource Protection Plan to prevent contamination of surface water and groundwater, including zero discharge of solid and liquid waste from construction of the work];</i> • Construction Zone Safety Management Plan <i>[Boundary Marking and all other required protection actions for mobilization and construction to prevent on-site and offsite adverse impacts;</i> • <i>Strategy for obtaining Consents/Permits prior to the start of relevant works such as opening a quarry or borrow pit.</i> • <i>Gender-based violence and sexual exploitation and abuse (GBV/SEA) prevention and response action plan].</i> <p>The Contractor shall be required to submit for approval, and subsequently implement, the Contractor's Environment and Social Management Plan (C-ESMP), in accordance with the Particular Conditions of Contract Sub-Clause 16.2, that includes the agreed Management Strategies and Implementation Plans described here.</p> <p><i>[Note: The extent and scope of these requirements should reflect the significant ESHS risks or requirements set out in Section VII as advised by Environmental/Social specialist/s. The key risks to be addressed by the Bidder should be identified by Environmental/Social specialist/s, for example, from the Environmental and Social Impact Assessment (ESIA), Environmental and Social Management Plan (ESMP), Resettlement Action Plan (RAP), and/or Consent Conditions (regulatory authority conditions attached to any permits or approvals for the project), up to a maximum of four. The risks may arise during mobilization or construction phases, and may include construction traffic impacts on the community, pollution of drinking water, depositing on private land and impacts on rare species etc. The management strategies and/or implementation plans to address these could include, as appropriate: mobilization strategy, strategy for obtaining consents/permits, traffic management plan, water resource protection plan, bio-diversity protection plan and a strategy for marking and respecting work site boundaries etc.]</i></p>
ITB 11.3 (c)	<p>The Bidder shall submit the following additional documents in its Bid: <i>that must be submitted with the Bid – Financial Part</i></p> <ol style="list-style-type: none"> <i>Scanned copy of Volume-3 – Bill of Quantities (duly filled in)</i> <i>Schedule of Prices</i> <i>Schedule -A</i> <i>Schedule-B</i> <i>Appendix to Bid - Schedule of Adjustment Data.</i>
ITB 13.1	Alternative Bids NOT Applicable .
ITB 13.2	Alternative times for completion NOT Applicable.
ITB 13.3	Not Applicable
ITB 13.4	Alternative technical solutions shall not be permitted for any parts of the Works Not Permitted.
ITB 15.1	The currency(ies) of the bid and the payment currency(ies) shall be in INDIAN RUPES (INR or Rs or Re.)
ITB 14.5	The prices quoted by the Bidder “ <i>shall be</i> ” subject to adjustment during the performance of the Contract.
ITB 18.1	The Bid validity period shall be 120 days

ITB 18.2	<p>The Employer, if required, may request the Bidders to extend validity of their Bid for a specified period prior to expiry of validity period of Bid through registered e-mail id of the Bidder. If a Bidder is interested to extend validity period of his Bid he may do so by submitting a written communication to the Employer under the signature of the authorized person who has signed the original Bid. The said communication along with amendment to the bid security for extension of its validity period shall be delivered by the Bidder to the Employer by 15.00 Hours IST of the last date of validity period of the Bids in his address given in BDS against ITB1.1.</p> <p>Project Director, Jal Marg Vikas Project, Inland Waterways Authority of India, Ministry of Shipping, Government of India A-13, Sector-1 Noida - Uttar Pradesh – India Vc.iwai@nic.in</p>
ITB 18.3 (a)	The Bid price shall be adjusted by the following factor: NA
ITB 19.1	A Bid Security of INR 1,63,44,000.00 (Rs. One Crore sixty three lakhs and forty four thousands only) is required.
ITB 19.3 (d)	<p>Other types of acceptable securities are:</p> <p>Fixed Deposit/Time Deposit certificate issued by a Nationalized or Scheduled Bank located in India for equivalent or higher values are acceptable provided it is pledged in favour of IWAI NOIDA and such pledging has been noted and suitably endorsed by the bank issuing the certificate.</p> <p>Online cash transfer (if applicable, provide full details) Name of Account: IWAI Fund (Jal Marg Vikas) Bank Name: Syndicate Bank Bank Address: Sector – 18, Morna Branch, Noida – 201301 Account No.: 87781010014534 IFS Code: SYNB0008778 MICR Code: 110025097</p>
ITB 20.1	<p>The bidder shall upload the bid at: https://eprocure.gov.in/eprocure/app Possession of valid Digital Signature Certificate (DSC) and enrollment / registration of the contractors / bidders on the eprocurement / etender portal is a prerequisite for e-tendering.</p> <p>In case of non-receipt of these original documents, the bid will be declared non-responsive.</p> <p>The bidders shall submit the following ‘Original Documents’ at the following address before the deadline for bid submission (i.e. up to 13.11.2020 up to 15:00 hours) either by registered post/speed post/courier or by hand, failing which the bids will be declared non-responsive.</p> <p>The Bidder is solely responsible for to ensure submission of the requisite original documents before the stipulated time and date and the Owner will not be responsible for postal or courier delays.</p> <p>a) Original bid security in prescribed format as indicated in ITB 19.1 b) Original written confirmation authorizing the signatory of the Bid to demonstrate the authority of the signatory to sign the bid on behalf of the Bidder as indicated in ITB 20.2 c) JV Agreement (if Any) as indicated in ITB 20.4. c) Original affidavit vouching for the correctness of the information furnished and documents uploaded on the Letter head of the firm;</p>
ITB 20.3	<p>The written confirmation of authorization to sign on behalf of the Bidder shall consist of:</p> <p>a. Legally valid Power of Attorney is required to demonstrate the authority of the signatory to sign the Bid; and</p> <p>b. In the case of Bids submitted by an existing or intended JV, if permitted as per ITB 4.1, the authorization shall be evidenced by a Power of Attorney signed by legally authorized signatories of all the members.”]</p>

D. Online Submission of Bids	
ITB 21.1	<i>Class of DSC required is: Class-II</i>
ITB 21.2	The e-Procurement system restricts bidders from uploading file attachments larger [insert maximum permissible file size e.g. 5MB] per file. [Note: insert any other system functionality, if required]
ITB 21.3	<p>For submission of original documents, the Employer's address is:</p> <p>The Original Documents should be inserted in an envelope and the envelope shall be sealed and addressed to the Owner at the address given below.</p> <p>The envelope shall bear the following identification marks:</p> <p>IFB No. IN-IWAI- 185377 -CW-RFB</p> <p>For Construction of Inter Modal IWT Terminal at Kalughat, Bihar.</p> <p>ii Not to open before: The date and time mentioned above (Date 04.02.2021. Time 03.30 PM.)</p> <p>iii. Addressed to the Owner:</p> <p>The Project Director, Project Management Unit - JMVP A-13, Sector – 1 : Noida, Gautam Buddha Nagar, Uttar Pradesh ZIP Code: 201301 Country: India Telephone: +91 12022424544 Electronic mail address: vc.iwai@iwai.gov.in ,</p> <p>iv. Bear the Name and address of the Bidder:</p> <p>If the above envelope containing the original documents is not sealed and marked as required, the Owner will assume no responsibility for the misplacement or premature opening of the envelope.</p>
ITB 22.1	<p>The deadline for uploading the Bids is:_____</p> <p>The deadline for bid submission is: Date. 04.02.2021 Time: 15:00 Hrs (IST)</p> <p>Bidders have to submit their bids electronically. The documents comprising the Bid shall be digitally signed by the person duly authorized to sign on behalf of the Bidder. The documents comprising the Bid shall then be uploaded on the e-procurement portal https://eprocure.gov.in/cppp/.</p> <p>After electronic on line bid submission, the system generates a unique bid identification number which is time stamped as per server time. This shall be treated as acknowledgement of bid submission.</p>
ITB 24.1	<p>Re-submission of the bid is _is “not allowed”], if withdrawn.</p> <p>Bidders may modify their bids by uploading their request for modification before the deadline for submission of bids on https://eprocure.gov.in/eprocure/app.</p> <p>For modification of bids, the bidder need not make any additional payment towards the cost of tender document. For bid modification and consequential re-submission, the bidder is not required to withdraw his bid submitted earlier. The last modified bid submitted by the bidder within the bid submission time shall be considered as the bid. For this purpose, modification/withdrawal by other means will not be accepted. In online system of bid submission, the modification and consequential re-submission of bids is allowed any number of times.</p> <p>PLEASE NOTE: The bidders may withdraw his bid by uploading their request before the deadline for submission of bids, however, if the bid is withdrawn, the re-submission of the bid is not allowed</p>
E. Public Opening of Technical Parts of Bids	
ITB 25.1	<p>The Electronic Envelope I – containing Technical proposal along with following details shall be opened for only those bidders, whose Original documents stipulated at ITB- 20.1 (a) have been received.</p> <ol style="list-style-type: none"> Bid Security, POA, Affidavit, etc. JV Agreement (if applicable) Qualification Requirements

	<p>d) Technical Proposal</p> <p>Original documents and the Electronic Bids will be opened on 13.11.2020 at 15:30 hrs. at the following address:</p> <p style="text-align: center;">Project Director (JMVP), Inland Waterways Authority of India, A-13, Sector-1, Noida, Uttar Pradesh, India - 201301.</p> <p style="text-align: center;">The Electronic Envelope II – containing Price Proposal</p> <p>The Price proposal will be opened for only those bidders who have fulfilled the Qualification Criteria and Technical requirements & Eligibility Criteria. And has been found meeting all the requirements as stipulated in this document, at a later date.</p> <p>The shortlisted bidders shall be informed about such date.</p> <p style="text-align: center;">Electronic Envelope-II - Price Proposal</p> <p>In the event of the specified date of Bid opening being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.</p>
F. Evaluation of Bids – General Provisions	
ITB 27.2	<p>ITB 27.2 is modified as under:</p> <p>‘If a Bidder does not provide clarifications of its bid by the date and time set in the Employer’s request for clarification, its bid will be evaluated based on the available information and interpretation of the Employer.’</p>
G. Evaluation of Bids - Technical Parts	
ITB 33.1	At this time the Employer “ <i>does not intend</i> ” to execute certain specific parts of the Works by subcontractors selected in advance.
ITB 33.2	The parts of the Works for which the Employer permits Bidders to propose Specialized Subcontractors are designated :- Not – Applicable
ITB 33.3	<p>(a) Contractor’s proposed subcontracting: Maximum percentage of subcontracting permitted is: 25 % of the total contract amount and not whole of Works.</p> <p>(b) Bidders planning to subcontract more than 10% of total volume of work shall specify, in the Letter of Bid, the activity (ies) or parts of the Works to be subcontracted along with complete details of the subcontractors and their qualification and experience. The qualification and experience of the sub-contractors must meet the minimum criteria for the relevant work to be sub-contracted failing which such sub-contractors will not be permitted to participate.</p> <p>(c) Subcontractors’ qualification and experience will not be considered for evaluation of the Bidder. The Bidder on its own (without taking into account the qualification and experience of the sub-contractor) should meet the qualification criteria.</p> <p>[Note-Work should not be split into small parts and sub-contracted].</p>
H. Public Opening of Financial Parts	
ITB 34.2 (c)	<p>Following the completion of the evaluation of the Technical Parts of the Bids, the Employer will notify all Bidders of the date, time, and location of the public opening of Financial Parts.</p> <p>The Price proposal will be opened for only those bidders who have fulfilled the Qualification Criteria and Technical requirements & Eligibility Criteria. And has been found meeting all the requirements as stipulated in this document, at a later date.</p> <p>The shortlisted bidders shall be informed about such date.</p> <p>The online bid opening of Financial Parts of Bids shall take place at:</p> <p style="text-align: center;">Project Director (JMVP), Inland Waterways Authority of India, A-13, Sector-1, Noida, Uttar Pradesh, India - 201301.</p> <p>In the event of the specified date of Bid opening being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.</p>

I. Evaluation of Bids - Financial Parts	
ITB 40.2	Provisions related to Abnormally Low Bids do not apply
ITB 43.1	Insert “or to reduce the scope”, in the first line after the words ‘The <i>Employer</i> reserves the right to accept or reject any Bid’
J. Award of Contract	
ITB . 45.	<p>The successful Bidder shall also be required to submit an Environmental, Social, Health and Safety (ESHS) Performance Security.</p> <p>Throughout this bidding document the term ‘performance security’, unless the context clearly indicates otherwise, means and includes both ‘the performance security and the ESHS performance security’ to be submitted by the successful bidder in the amounts specified in Section VII Conditions of Contract Article 7, Clause 7.1.</p>
ITB 46.	<p>The Adjudicator proposed by the Employer is: Mr S.C. Misra . .</p> <p>The daily fee for this proposed Adjudicator shall be: Rs 10,000/- <i>per day</i>].</p> <p>The biographical data of the proposed Adjudicator is as follows:</p> <p><i>[provide relevant information, such as education, experience, age, nationality, and present position; attach additional pages as necessary]</i></p> <p>“The Adjudicator proposed by the Employer is: Mr S. C. Misra and the daily fee payable to Adjudicator is Rs. 10000/- .”</p>

Brief Biodata of Dr Suresh Chandra Misra

1. **Name:** MISRA SURESH CHANDRA
Date of birth: 12TH SEPTEMBER 1948
2. **Profession:** ACADEMIC and RESEARCH
Present Position: Retired as Professor from IIT Kharagpur
Address:

(a) Official NA	(b) Residential Plot no. 1080, Lane no. 7, Aerodrome Area, Bhubaneswar – 751020, Odisha, India
Phone: NA	Phone: +91 9437477180
	Email: misra1948@gmail.com

3. Degrees Obtained

Degree	Awards	University	Specialization	Hall of Residence	Year
B.Tech(Hons.)	Silver Medal	IIT Kharagpur	Design	Patel	1965-70
Ph.D	National Scholarship	University of Newcastle upon Tyne, UK	Naval Architecture		1973-76

4. Professional Achievements

Period From To	Position Held	Organization/Institution	Role	Remarks
1970 1979	Design Engineer	Hindustan Shipyard Ltd.	Design Engineer	Sponsored for three years to do Ph.D. in UK (1973-1976)
1979 1989 1990 till retirement	Assistant Professor Professor	IIT Khargapur	Teaching, Research and Industrial Consultancy	On British council fellowship for 6 months in Glasgow, univ in 1984., later lien to IIT Madras and NSDRC/ IMU, Visakhapatnam
1998 2000	Visiting Professor (lien)	IIT Madras	Teaching, Research and Industrial Consultancy	
2008 2013	Director (on Lien)	NSDRC and later IMU Visakhapatnam campus	Administration, Teaching, Research and Industrial Consultancy	NSDRC was subsumed to Indian Maritime University in 2009 and he was the first Director of IMU Visakhapatnam campus
2013 till date	Chairman, Naval Research Board, DRDO (an honorary position); Founder and current President, Forum for River and Ocean Scientists and Technologists (FROST), Odisha, registration no. 24010/33 of 2018-19; Visiting faculty at IMU, Visakhapatnam Campus; Advisor to General Consultants for Kochi Water Metro project under KMRL, Kochi.			

5. Record of Contributions to:

(a) Intellectual Property

(Publications/Design/Developments/Patents etc.)

- “Modularised Ship Hull Form”, Inventors: Prof S C Misra and Prof O P Sha of IIT Kharagpur, patents rights belong to: IIT Kharagpur, Ministry of Shipping of Govt. of India, Department of Science and Technology of Govt. of India, AAGL(Gujarat), BSL Mumbai, GSL Goa, LRS Mumbai, IRS Mumbai, Original Patent application no. 0561/Cal/2002 dt. 25.9.2002, patent no. 214274 awarded on 07/02/2008.
- **Books:**
 - S. C. Misra and P. Misra (Ed.), “2020 Lockdown Effects and Future Trends in Water Body Management”, LAP Publishing, Germany, October 2020.
 - S. C. Misra, “Design Principles of Ships and Marine Structures”, CRC Press of Tylor and Francis Group, USA, December 2015.
 - S.C.Misra and O.P.Sha, editors “Computer-Aided Ship design”, under assistance from CEP Cell of IIT Kharagpur, 1989(contributed as author also).
 - M.R.Pranesh and S.C.Misra, “Environmental Hazards and Safety Requirement in the Port sector”, under assistance from Curriculum Dev. Prog., IITMadras, 2000(contributed as author also).

(b) Leadership (Entrepreneurship/ Organizational Development)

- *Converting a ship design organisation, National Ship Design and Research Centre, to a part of a central university, Indian Maritime University, Visakhapatnam Campus*
- *Academic leadership as stated below:*
 - *Started a new multidisciplinary Post Graduate Diploma program in Maritime Operation and Management (PGDMOM) exclusively for professional marine engineers which started at IIT Kharagpur in the academic year 2003-2004.*
 - *Started the Naval Architecture and Ocean Engineering degree programs at both UG and PG levels at IMU Visakhapatnam Campus in its first year of creation, 2009.*
 - *Started a PG program in Dredging and Harbour Engineering at IMU, Visakhapatnam campus in 2010 for the first time in the country.*
- *Developing strong research base at IITs, IISc and in other engineering institutions and generating multi-institutional research programs and developing strong connection between teaching institutions and research organisations in the context of naval research through NRB.*
- *Setting up and establishing FROST, Odisha*

(c) Society

- Invited mentor and speaker of INSPIRE program for development of science interest in school children sponsored by DST at Port Blair Campus of Pondichery University, at IMU Visakhapatnam Campus and at NIT Rourkela during 2012, 2013 and 2015.
- Lectures at schools and colleges in Odisha regarding water awareness.
- Safety of wooden boats moving in rivers and coastal waters for tourism and fishing is a major concern which has been a major concern for me. I have now been involved in modifying an existing wooden boat for higher safety and reduction of pollution. This activity is to continue.

(d) Any other: More than 50 technical papers published

6. Peer Recognition (National/International Honours, Awards, Prizes including honorary degree)

Awarded National Scholarship for Higher Study Abroad by Government of India in 1973 till 1976.

Awarded Silver Medal by IIT Kharagpur in 1970 for securing first position in B.Tech (H) course in Naval Architecture.

Awarded Marine Engineering Division Medal, Institution of Engineers (India), 2001.

Awarded Institution Medal (Col. G.N.Bajpai), Institution of Engineers (India), 2001.

H.S.Rao Memorial Award for Best paper, June 04 issue of Marine Engineers Review (India), 2005 given by Institution of Marine Engineers (India).

Rashtriya Gaurav Award presented by India International Friendship Society in 2004.

Best Citizen of India Award and Citation in the book by the same title, published by International Publishing House, New Delhi, 2004.

7. Membership/Fellowship of National/International Professional Bodies

Founder President, Forum for River and Ocean Scientists and Technologists, Odisha

Fellow of Institution of Engineers (India)

Fellow of Institution of Marine Engineers(India)

Life Member of Institution of Marine Technologists, Mumbai

Life Member of Indian Society for Technical Education

Member of Society of Naval Architects and Marine Engineers, USA.

Member, Indian technical Committee of Class NK, Nippon Kaiji Kyokai, Japan, 2012 onwards.

Member, Technical Committee of IRS, Mumbai.

Member of PMCC for acquisition of 2 coastal research vessels by NIOT funded by MoES.

8. Specific outstanding Accomplishments meriting the award (within 100 words): (Detailed biography may be provided as an annexure)

Apart from teaching naval Architecture to students, Prof Misra has been involved in design of ships and boats and other water based infrastructure including a 600 TEU container vessel and marine engineering laboratory *Ship in Campus*. His book *Design Principles of Ships and Marine Structures* published by Taylor and Fransis Group has been widely appreciated. After his retirement from active service, apart from being the Chairman of Naval research Board, he has formed a think tank FROST. His current interests include safety and sustainability in boats of inland water transportation, increasing water awareness in Odisha and ancient river and coastal transportation system for building shore based temples.

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Section III. Evaluation and Qualification Criteria (Without Prequalification)

This Section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders. In accordance with ITB 30 ; 31 ; 34; 35 and ITB 36, no other factors, methods or criteria shall be used. The Bidder shall provide all the information requested in the forms included in Section IV, Bidding Forms.

The enhancement factors given below shall be multiplied by the Average Annual Turnover values (and other cost of work) of the previous years for converting them to current year (2020-2021) values:

Year	Factor
2020-2021	1.00
2019-2020	1.07
2018-2019	1.16
2017 - 2018	1.25
2016 – 2017	1.35
2015 – 2016	1.46
2014 – 2015	1.55

1. Evaluation

In addition to the criteria listed in ITB 35.2 (a) – (e) the following criteria shall apply:

1.1 Assessment of adequacy of Technical Proposal with Requirements

Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity to mobilize key equipment and personnel for the contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section VII (Works Requirements).

1.2 Multiple Contracts, if permitted under ITB 35.4, will be evaluated as follows: Not applicable

1.3 Alternative Completion Times, ... Not Applicable

1.4 Technical alternatives, N.A.

1.5 Specialized Subcontractors – Deleted

2. Qualification

Attach certificates from Employer for the experience claimed. Experience, where certificates are not provided shall not be considered.

Factor	2.1 Eligibility					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture			
			All partners combined	Each partner	At least one partner (This shall be the Lead Partner)	
2.1.1 Nationality	Nationality in accordance with ITB 4.3.	Must meet requirement	Existing or intended JVA must meet requirement	Must meet requirement	Must meet requirement	Form ELI–1 and 2, with attachments
2.1.2 Conflict of Interest	No- conflicts of interests as described in ITB 4.2.	Must meet requirement	Existing or intended JVA must meet requirement	Must meet requirement	Must meet requirement	Letter of Bid
2.1.3 Bank Ineligibility	Not having been declared ineligible by the Bank as described in ITB 4.4.	Must meet requirement	Existing JVA must meet requirement	Must meet requirement	Must meet requirement	Letter of Bid
2.1.4 Government Owned Entity	Compliance with conditions of ITB 4.5	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Form ELI–1 and 2, with attachments
2.1.5 Ineligibility based on a United Nations resolution or Borrower’s country law	Not having been excluded as a result of the Borrower’s country laws or official regulations, or by an act of compliance with UN Security Council resolution, in accordance with ITB 4.7	Must meet requirement	Existing JVA must meet requirement	Must meet requirement	Must meet requirement	Letter of Bid

actor		2.2 Historical Contract Non-Performance				
Sub-Factor	Requirement	Criteria				Documentation Required
		Single Entity	Bidder			
			Joint Venture			
			All partners combined	Each partner	At least one partner (This shall be the Lead Partner)	
2.2.1 History of non-performing contracts	Non-performance ² of a contract did not occur within the last five (5) years from 1 st April 2015 to 31 st March 2020 prior to the deadline for bid submission, based on all information on fully settled disputes or litigation. (A fully settled dispute or litigation is one that has been resolved in accordance with the Dispute Resolution Mechanism under the respective contract, and where all appeal instances available to the bidder have been exhausted.)	Must meet requirement by itself or as partner to past or existing JVA	Must meet requirements	Must meet requirement by itself or as partner to past or existing JVA	Must meet requirements by itself or as partner to past or existing JVA	Form CON - 2

²Non performance, as decided by the Employer, shall include all contracts where (a) non performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Nonperformance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the applicant have been exhausted.

Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture			
			All partners combined	Each partner	At least one partner (This shall be the Lead Partner)	
2.2.2 Suspension Based on Execution of Bid Securing Declaration by the Employer or withdrawal of the Bid within Bid validity	Not under suspension based on execution of a Bid Securing Declaration pursuant to ITB 4.6 or withdrawal of the Bid pursuant ITB 19.9.	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement ³	Bid Submission Form
2.2.3 Pending Litigation	All pending litigation ³ shall in total not represent more than fifty percent (50%) of the Bidder's net worth and shall be treated as resolved against the Bidder.	Must meet requirement by itself or as partner to past or existing JVA	N / A	Must meet requirement by itself or as partner to past or existing JVA	Must meet requirement itself or as partner to past or existing JVA ³	Form CON – 2
2.2.4 Litigation History	No consistent history of court/arbitral award decisions against the Bidder ⁴ since 1 st January 2015	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Form CON – 2

³The Bidder shall provide accurate information on the related Form about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of awards against the Bidder or any member of a joint venture may result in rejection of Bid

⁴ The Bidder shall provide accurate information on the letter of Bid about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of court/arbitral awards against the Bidder or any member of a joint venture may result in disqualifying the Bidder.

Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture			
			All partners combined	Each partner	At least one partner (This shall be the Lead Partner)	
2.2.5 Declaration: Environment, Social, Health, and Safety (ESHS) past performance	Declare any civil work contracts that have been suspended or terminated and / or performance security called by an employer for reasons related to the non-compliance of any environmental, or social, or health or safety requirements or safeguard in the past five years ⁵ .	Must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration	N/A	Each must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration	Must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration	Form CON-3 ESHS Performance Declaration
5 The Employer may use this information to seek further information or clarifications in carrying out its due diligence. Insert suitable experts as necessary for the following specializations: Social, Environmental, and Health & Safety						

Factor	2.3 Financial Situation					
Sub-Factor	Criteria					
	Requirement	Bidder				
		Single Entity	Joint Venture			
			All partners combined	Each partner	At least one partner (This shall be the Lead Partner)	
2.3.1 Financial Capabilities	(i) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as INR 20.43 Crores for about 6 months cash flow at peak construction period for the subject contract(s) net of the Bidders other commitments	Must meet requirement	Must meet requirement	N/A	N / A	Form FIN –1 and Form FIN – 3 Including attachments where required,
	(ii) The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.	Must meet requirement	Must meet requirement	Should meet 25% of the requirement	Should meet 50% of the requirement	
	(iii) The audited balance sheets or, if not required by the laws of the Bidder’s country, other financial statements acceptable to the Employer, for the last 5 (Five)	Must meet requirement	N/A	Must Meet Requirement	N/A	

Factor	2.3 Financial Situation					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture			
			All partners combined	Each partner	At least one partner (This shall be the Lead Partner)	
	years i.e. from FY 2015-16 to FY 2019-20 shall be submitted and must demonstrate the current soundness of the Bidder's financial position and indicate its prospective long-term profitability. "As a minimum, a Bidder's net worth calculated as the difference between total assets and total liabilities should be positive."					
2.3.2. Average Annual Turnover	Minimum average annual turnover of INR 40.86 Crores calculated as total certified payments received for contracts in progress or completed, within the last five (5) years from 1 st April 2015 to 31 st March 2020	Must meet requirement	Must meet requirement	Must meet Twenty Five percent (25 %) of the requirement	Must meet Fifty percent (50%) of the requirement	Form FIN –2

	2.4 Experience					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture			
			All partners combined	Each partner	At least one partner (This shall be the Lead Partner)	
2.4.1 General Experience	Experience under contracts in the role of contractor, subcontractor, or management contractor for at least the last ten [10] years from 1 st April 2010 to 31 st March 2020 prior to the bid submission deadline	Must meet requirement	N / A	Must meet requirement	Must meet requirement	Form EXP-1
2.4.2 Specific Experience	a) Participation as contractor, joint venture member, management contractor, or subcontractor, in at least one (1) contracts within the last ten (10) years from 1st April 2010 to 31st March 2020 with a value of at least one contract of at least INR 65.37 crores or two contracts each with the value of at least INR 40.86 crores or three contracts each with value of at least INR 32.68 crores that have been successfully and substantially completed and that are similar to the proposed Works with in last ten (10) years . The similarity shall be based on the physical size, complexity, methods / technology or other characteristics as described in Part 2, Employer’s Requirements. Jetty or Harbour with pile foundation in river / sea or construction of bridge in river or construction of RCC dam executed or Construction of elevated viaduct structure (excluding approaches and embankment) shall also be considered as similar works. *Cost of works of previous years shall be increased by 7% per year	Must meet requirement	Must meet requirements	Must meet 25% of requirement	Must meet 50% of requirement	Form EXP 2(a)

Sub-Factor	Criteria					
	Requirement	Bidder				
		Single Entity	Joint Venture			
			All partners combined	Each partner	At least one partner (This shall be the Lead Partner)	
2.4.2 Specific Experience	<p>b) For the above or other contracts executed during the period stipulated in 2.4.2(a) above, a minimum experience in the following key activities:</p> <ul style="list-style-type: none">— Designing of Jetty / Harbour in river /sea or a bridge in river / sea or a RCC Dam of minimum INR 65.37 Crores✓ Marine / River civil works involving minimum 1100 mm diameter or equivalent area piles in marine / river conditions or.✓ RCC well foundation works involving minimum 7000 mm diameter or equivalent area in marine / river conditions.	Must meet requirements	Must meet requirements	Must meet 40% of requirement	Must meet 60% of requirement	Form EXP-2(b)
2.4.3	Registration with ISO 14001/ OSHAS 18000/ equivalent	Must meet requirements	Must meet requirements	NA	NA	Registration Certificate
5.1 Bid capacity	Available Bid Capacity should be More than value of contract/ contracts applied for	Must meet requirements	Must meet requirements	Must meet 25 % of requirement	Must meet 50% of requirement	Form FIN 4 & EXP 1
<p>Bid Capacity= [(A*N*1.5)-B], where</p> <p>A= Maximum value of works executed in any one year during the last five years (updated to the current price level), in INR</p> <p>B= Value at current price level of the existing commitments and ongoing works to be completed concurrently with the works specified up to the period of ‘N’ below</p> <p>N = 2 (No. of years prescribed for completion of works for which bids are invited)</p>						

2.5 Personnel

The Bidder must demonstrate that it has the personnel for the key positions that meet the following requirements:

No.	Position	Total Work Experience (years)	Experience in Similar Works (years)	In case of JV, to be proposed by
1	Project Manager & Team Leader	15	10	Lead Member
2	Asst. Project Manager	10	7	Lead Member
3	Mechanical Engineer	10	7	Lead Member
4	Electrical Engineer	10	8	Lead Member
5	Civil Engineer	8	5	Any Member
6	Planning Engineer	10	5	Any Member
7	Foundation Engineer	10	5	Any Member
8	Billing Engineer	10	5	Any Member
9	Safety Engineer	8	5	Any Member
10	QC/QA Engineer- Mech.	10	5	Any Member
11	QC & QAI Engineer- Civil	10	5	Any Member
12	Surveyor	10	5	Any Member

Note:- All Personnel mentioned above should be having minimum B.E. / B.Tech Degree in Engineering. Only in case of Billing Engineers/Surveyors, Personnel having Diploma may be acceptable whose experience requirement shall be increased by 3 years.

The Project Manager proposed must have experience in construction of jetty / berths in river / marine conditions or construction of bridges in river / marine conditions in at least one project. The Bidder shall provide details of the proposed personnel and their experience records using Form PER-1 and PER-2 included in Section IV, Bidding Forms.

2.6 Equipment

The Bidder must demonstrate that it has the key equipment listed hereafter:

Sl. No.	Equipment Type and Characteristics			Minimum Number required
	Equipment	Minimum Capacity	Max. age (years)	
1*	Crane (Tyre mounted / Crawler)	100T	10	1 No.
2*	Crane (Tyre mounted / Crawler)	50T	10	2 Nos.
3a*	Mobile Piling gantry capable to mount Hydraulic Rotary piling Rig of Minimum 15 Tonne-meter	-	8	1 Nos.
3b*	Hydraulic Rotary Piling Rig of minimum 15 tonne-metre torque capacity.	15 T m	8	2 Nos.
4*	Hydra	10 to 12 T	10	4 Nos.
5*	Trailer	-	10	2 Nos.
6*	Winches	7.5 T	10	2 Nos.
7	Concrete Batching Plant	30 cum/hour		As considered necessary by the Engineer
8	Transit Mixer	5 cum		
9.	Concrete pump with adequate pipelines	30 cum/hour		
*- These equipment must be owned / hired by bidder and by lead member in case of JV				

Notes:

- ✓ Bidders are requested to verify latest position in respect of “Duties on Contractor’s Equipment” from Department of Revenue, Ministry of Finance, Government of India.
- ✓ The Bidder shall furnish the details of proposed equipment using Form EQU included in Section -IV IV.

	Section IV - Bidding Forms		
	Table of Forms		
1	Bid Submission Form / letter of Bid & Technical Proposal Form I. Appendix to Bid Schedule of Adjustment Data		
2.	Technical Proposal Form <ol style="list-style-type: none"> 1. ESHS Management Strategies and Implementation Plans 2. Code of Conduct (ESHS) 3. Site Organizations 4. Method statement 5. Quality Assurance Plan 6. Construction Schedule 7. Mobilization Schedule. 8. Contractor's Equipment 9. Key Personnel Proposed 10. Bidders Qualification's 11. Subcontractors& JV details 12. Others 		
3	format	reference	Content
1.1	Form ELI-1	Section-III QR 2.1	Bidder's Information Form with attachments
1.2	Form ELI-1.1	Section-III QR 1.1 to 1.4	Bidder's JV Information Form with attachment
3.1	Form CON-2	Section-III QR 2.1 - 2.2	Historical Contract Non-performance, pending litigation and Litigation history
3.2	CON – 3 Environmental, Social, Health, and Safety Performance Declaration		
3.3	Form FIN-1	Section-III QR 2.3	Financial Situation and Performance
3.4	Form FIN-2	Section-III QR 2.4	Average Turn Over
3.5	Form FIN-3	Section-III QR 2.4	Financial Resources
3.6	Form FIN-4	Section-III QR 2.4	Current Contracts
3.7	Form EXP-1	Section-III QR 2.4	General Construction Experience
3.8	Form EXP-2	Section-III QR 2.4	Specific Construction Experience
3.9	Form EXP-2-b	Section-III QR 2.4	Specific I Construction Experience in Key Activities
3.10	Under Taking towards ITC – Input Tax Credit in GST (as per Clause GCC 19.22 of PCC)		
4	Bid Security (Bank Guarantee)		
5	JV Agreement		
6	Letter of Bid - Finance Part .		
	Section V. Eligible Countries		
	Section VI. Bank Policy – Corrupt and Fraudulent Practices		

Letter of Bid – Technical Part

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

The Bidder must prepare this Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: All italicized text is to help Bidders in preparing these forms.

Date of this Bid submission: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of RFB process]*

Alternative No⁴: *[insert identification No. if this is a Bid for an alternative]*

To: *[insert complete name of Employer]*

We, the undersigned, hereby submit our Bid, in two parts, namely:

- (a) the Technical Part, and
- (b) the Financial Part

In submitting our Bid, we make the following declarations:

- (a) **No reservations:** We have examined and have no reservations to the bidding document, including Addenda issued in accordance with ITB 8;
- (b) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;
- (c) We have not been suspended nor declared ineligible by the Employer based on execution of a Bid Securing Declaration in the Employer's country in accordance with ITB 4.7;
- (d) **Conformity:** We offer to execute in conformity with the bidding document the following Works: *[insert a brief description of the Works]*;
- (e) **Bid Validity Period:** Our Bid shall be valid for a period specified in BDS ITB 18.1 (or as amended if applicable) from the date fixed for the Bid submission deadline specified in BDS 22.1 (or as amended if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) **Performance Security:** If our Bid is accepted, we commit to obtain a performance security *[and an Environmental, Social, Health and Safety (ESHS) Performance Security, Delete if not applicable]* in accordance with the bidding document;
- (g) **One Bid Per Bidder:** We are not submitting any other Bid(s) as an individual Bidder or as a subcontractor, and we are not participating in any other Bid(s) as a Joint Venture member, and meet the requirements of ITB 4.3, other than alternative Bids submitted in accordance with ITB 13;
- (h) **Suspension and Debarment:** We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Employer's Country laws or official regulations or pursuant to a decision of the United Nations Security Council;
- (i) **State-owned enterprise or institution:** We are not a state-owned enterprise or institution/ We are a state-owned enterprise or institution but meet the requirements of ITB 4.6⁵;
- (j) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;

⁴ Delete if not applicable

⁵ Use one of the two options as appropriate

- (k) **Not Bound to Accept:** We understand that you are not bound to accept the lowest evaluated cost Bid, the Most Advantageous Bid or any other Bid that you may receive;
- (l) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption; and
- (m) **Adjudicator:** We accept the appointment of *[insert name proposed in Bid Data Sheet]* as the Adjudicator.

[or]

We do not accept the appointment of *[insert name proposed in Bid Data Sheet]* as the Adjudicator, and propose instead that *[insert name]* be appointed⁶ as Adjudicator, whose daily fees and biographical data are attached.

Name of the Bidder: **[insert complete name of person signing the Bid]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder: ***[insert complete name of person duly authorized to sign the Bid]*

Title of the person signing the Bid: *[insert complete title of the person signing the Bid]*

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

Date signed *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

**: Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid

⁶ In case appointment of Adjudicator was proposed from the list provided by an Institution in ITB 51, the replacement should also be proposed from the list of the same Institution.

Appendix to Bid Schedule of Adjustment Data

[In Tables A, B, and C, below, the Bidder shall (a) indicate its amount of local currency payment, (b) indicate its proposed source and base values of indices for the different foreign currency elements of cost, (c) derive its proposed weightings for local and foreign currency payment, and (d) list the exchange rates used in the currency conversion. In the case of very large and/or complex works contracts, it may be necessary to specify several families of price adjustment formulae corresponding to the different works involved.]

Table A. Local Currency

Index code*	Index description*	Source of index*	Base value and date*	Bidder's related currency amount	Bidder's proposed weighting
A	Labour	Labour Bureau, Ministry of Labour, GOI	28 days preceding the Bid Submission Date.		As shown in GCC Clause 19.10
B	Cement	Ministry of Industrial Development, GOI			
C	Steel				
D	Bitumen	Official retail price at nearest Indian Oil Corporation refinery			
E	POL (Fuel & Lubricants)	Official retail price of HSD at existing nearest IOC outlet			
F	Plant, Machinery & Spares	Ministry of Industrial Development, GOI			
G	Other Materials				
Total					

Technical Proposal Forms.

- 1. ESHS Management Strategies and Implementation Plans (ESHS – MSIP)**
- 2. Code of Conduct : (ESHS) Environmental, Social, Health and Safety**
- 3. Site Organization**
- 4. Method Statement**
- 5. Quality Assurance Plan (QAP)**
- 6. Construction Schedule**
- 7. Mobilization Schedule**
- 8. Equipment**
- 9. Key Personnel Schedule**
- 10. Bidder's Qualification**
- 11. Sub-contracting elements** or works which in aggregate adds to more than 10% of Bid price *(for each the qualifications and experiences on the identified subcontractor in the relevant field should be given.*

Note: Work should not be split into small parts and sub-contracted; but sub-contracting specialized elements of works is acceptable.

- 12. Others**

**1. ESHS Management Strategies and Implementation Plans
(ESHS-MSIP)**

The Bidder shall submit comprehensive and concise Environmental, Social, Health and Safety Management Strategies and Implementation Plans (ESHS-MSIP) as required by ITB 11.1 (h) of the Bid Data Sheet. These strategies and plans shall describe in detail the actions, materials, equipment, management processes etc. that will be implemented by the Contractor, and its subcontractors.

In developing these strategies and plans, the Bidder shall have regard to the ESHS provisions of the contract including those as may be more fully described in the following:

1. The Works Requirements described in Volume II
2. Environmental and Social Impact Assessment (ESIA)
3. Environmental and Social Management Plan (ESMP)
4. Resettlement Action Plan (RAP)
5. Consent Conditions (regulatory authority conditions attached to any permits or approvals for the project) and
6. Specify any other relevant document/s

2. Code of Conduct: Environmental, Social, Health and Safety (ESHS)

The Bidder shall submit the Code of Conduct that will apply to the Contractor's employees and subcontractors as required by ITB 11.1 (h) of the Bid Data Sheet. The Code of Conduct shall ensure compliance with the ESHS provisions of the contract, including those as may be more fully described in the following:

1. The Works Requirements described in Volume II
2. Environmental and Social Impact Assessment (ESIA)
3. Environmental and Social Management Plan (ESMP)
4. Consent Conditions (regulatory authority conditions attached to any permits or approvals for the project) and

In addition, the Bidder shall submit an outline of how this Code of Conduct will be implemented. This will include: how it will be introduced into conditions of employment/ engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches.

3	Site Organization	Details to be furnished by the bidders separate sheets may be added.
4	Method Statement	Details to be furnished by the bidders separate sheets may be added.
5	Quality Assurance Plan –(QAP)	Details to be furnished by the bidders separate sheets may be added.
6	Construction Schedule	Details to be furnished by the bidders separate sheets may be added.
7	Mobilization Schedule	Details to be furnished by the bidders separate sheets may be added.

8. Form EQU: Equipment

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of equipment		
Equipment information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
	Registration number or any other unique identification number	
Current status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	

Omit the following information for equipment owned by the Bidder.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

9. Key Personnel Schedule

Form PER-1: Proposed Personnel

Bidders should provide the names of suitably qualified personnel to meet the specified requirements stated in Section III. The data on their experience should be supplied using the Form below for each candidate.

1.	Title of position*
	Name
2.	Title of position*
	Name
3.	Title of position*
	Name
4.	Title of position*
	Name
	Title of position - Environmental Specialist
	Name -
	Title of position- Social Specialist
	Name -
	Title of position - Health and Safety Specialist
	Name -

*As listed in Section III.

9.1 Form PER-2: Resume of Proposed Personnel

Name of Bidder

Position		
Personnel information	Name	Date of birth
	Professional qualifications	
Present employment	Name of employer	
	Address of employer	
	Telephone	Contact (manager / personnel officer)
	Fax	E-mail
	Job title	Years with present employer

From	To	Company / Project / Position / Relevant Technical and Management Experience

Summarize professional experience over the last 20 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

10. Bidders Qualification without prequalification

To establish its qualifications to perform the contract in accordance with Section III (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

Form ELI – 1: Bidder's Information Sheet

Bidder's Information	
Bidder's legal name	
In case of JV, legal name of each partner	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)	
Attached are copies of the following original documents. <ul style="list-style-type: none"> <input type="checkbox"/> 1. In case of single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2. <input type="checkbox"/> 2. Authorization to represent the firm or JV named in above, in accordance with ITB 20.2. <input type="checkbox"/> 3. In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1. <input type="checkbox"/> 4. In case of a government-owned entity, any additional documents not covered under 1 above required to comply with ITB 4.5. 	

11. Form ELI – 2: JV Information Sheet / Sub Contractor

Each member of a JV must fill in this form

JV / Specialist Subcontractor Information	
Bidder's legal name	
JV Partner's or Subcontractor's legal name	
JV Partner's or Subcontractor's country of constitution	
JV Partner's or Subcontractor's year of constitution	
JV Partner's or Subcontractor's legal address in country of constitution	
JV Partner's or Subcontractor's authorized representative information (name, address, telephone numbers, fax numbers, e-mail address)	
Attached are copies of the following original documents. <ul style="list-style-type: none"> <input type="checkbox"/> 1. Articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2. <input type="checkbox"/> 2. Authorization to represent the firm named above, in accordance with ITB 20.2. <input type="checkbox"/> 3. In the case of government-owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5. 	

Appendix to Technical Part

Form-ELI -1: Bidder Information Form

Date: *[insert day, month, year]*

NCB No. and title: *[insert NCB number and title]*

Page *[insert page number]* of *[insert total number]* pages

1.1 Bidder Information			
Bidder's legal name			
In case of JV, legal name of each member			
Bidder's country of constitution			
Bidder's year of constitution			
Bidder's legal address in country of constitution			
Bidder's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)			
<p>Attached are copies of the following original documents.</p> <ol style="list-style-type: none"> 1. In case of single entity, articles of incorporation or constitution of the legal entity names above, in accordance with ITB 4.1 and 4.3. 2. Authorization to represent the firm or JV named in above, in accordance with ITB 20.2. 3. In case of JV, letter of intent to form JV or JV agreement: in accordance with ITB 4.1 read with BDS 4. In case of government-owned entity, documents establishing legal and financial authority and compliance with the principles of commercial law in accordance with ITB 4.5 read with Sub-clause 2.1.4 of Qualification Criteria. 5. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. 			

<u>DETAILS OF PARTICIPATION IN THE JOINT VENTURE</u>			
PARTICIPATION DETAILS	FIRM 'A' (Lead Member)	FIRM 'B'	FIRM 'C'
Financial			
Name of the Banker(s)			
Planning			
Construction Equipment			
Key Personnel			
Execution of Work (Give details on proposed contribution of each)			
The Joint Venture should indicate the details of participation as above.			

Appendix to Technical Part

Form-ELI -1.1: JV Information Form& Specialized Subcontractor's

Each member of a JV must fill in this form

Date:[insert day, month, year]

NCB No. and title:[insert NCB number and title]

Page [insert page number] of [insert total number] pages

JV/Specialist Subcontractor Information			
Bidder's legal name			
JV Member's legal name			
JV Member's country of constitution			
JV Member's year of constitution			
JV Member's legal address in country of constitution			
JV Member's authorized representative information (name, address, telephone numbers, fax numbers, e-mail address)			
<p>Attached are copies of the following original documents.</p> <ol style="list-style-type: none"> 1. Articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 read with BDS. 2. Authorization to represent the firm names above, in accordance with ITB 20.2. 3. In the case of government-owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB Sub-Clause 4.5 read with Sub-Clause 2.1.4 of Qualification Criteria. 4. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. 			
Bidder's legal name:			
Specialized Subcontractor's legal name:			
Specialized Subcontractor's country of registration:			
Specialized Subcontractor's year of constitution:			
Specialized Subcontractor's legal address in country of constitution:			
Specialized Subcontractor's authorized representative information			
Name: _____			
Address: _____			
Telephone/Fax numbers: _____		E-mail address: _____	
<p>Attached are copies of original documents of</p> <p><input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.4.</p> <p><input type="checkbox"/> Authorization to represent the Specialized Subcontractor.</p>			

Form CON-2: Historical Contract Non-Performance

[The following table shall be filled in for the Bidder and for each partner of a Joint Venture]

Bidder's Legal Name: _____

Date: _____

Joint Venture Party Legal Name: _____

NCB No. and title: _____

Page _____ of _____ pages

Non-Performing Contracts in accordance with Section III, Qualification Criteria and Requirements			
<input type="checkbox"/> Contract non-performance did not occur during the <i>last five (5)</i> years specified in Section III, Qualification Criteria and Requirements, Sub-Factor 2.1.			
<input type="checkbox"/> Contract(s) not performed during the <i>last five (5)</i> years specified in Section III, Qualification Criteria and Requirements, requirement 2.1			
Year	Non performed portion of contract	Contract Identification	Total Contract Amount INR
		Contract Identification: Name of Employer: Address of Employer: Reason(s) for non-performance:	
Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements			
<input type="checkbox"/> No pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.2.			
<input type="checkbox"/> Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.2 as indicated below.			
Year	Outcome as Percentage of Total Assets	Contract Identification	Total Contract Amount INR
		Contract Identification: Name of Employer:] Address of Employer: Matter in dispute:	

Form CON – 3: Environmental, Social, Health, and Safety Performance Declaration

[The following table shall be filled in for the Bidder, each member of a Joint Venture and each Specialized Subcontractor]

Bidder's Name: _____

Date: _____

Joint Venture Member's or Specialized Subcontractor's Name: _____

RFB No. and title: _____

Page _____ of _____ pages

Environmental, Social, Health, and Safety Performance Declaration in accordance with Section III, Qualification Criteria, and Requirements			
<input type="checkbox"/> No suspension or termination of contract: An employer has not suspended or terminated a contract and/or called the performance security for a contract for reasons related to Environmental, Social, Health, or Safety (ESHS) performance since the date specified in Section III, Qualification Criteria, and Requirements, Sub-Factor 2.2.5.			
<input type="checkbox"/> Declaration of suspension or termination of contract: The following contract(s) has/have been suspended or terminated and/or Performance Security called by an employer(s) for reasons related to Environmental, Social, Health, or Safety (ESHS) performance since the date specified in Section III, Qualification Criteria, and Requirements, Sub-Factor 2.2.5. Details are described below:			
Year	Suspended or terminated portion of contract	Contract Identification	Total Contract Amount (Rs)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for suspension or termination: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for suspension or termination: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
...	...	<i>[list all applicable contracts]</i>	...
Performance Security called by an employer(s) for reasons related to ESHS performance			
Year	Contract Identification		Total Contract Amount (Rs)
<i>[insert year]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for calling of performance security: <i>[indicate main reason(s)]</i>		<i>[insert amount]</i>

Form FIN-1: Financial Situation

Each Bidder or member of a JV must fill in this form

Financial Data for Previous 7 Years [INR]				
Year 1: 2019-20	Year 2: 2018-19	Year 3: 2017-18	Year 4: 2016-2017	Year 5: 2015-2016

Information from Balance Sheet

Total Assets			
Total Liabilities			
Net Worth			
Current Assets			
Current Liabilities			

Information from Income Statement

Total Revenues			
Profits Before Taxes			
Profits After Taxes			

- ☐ Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last five years, as indicated above, complying with the following conditions.
- ✓ All such documents reflect the financial situation of the Bidder or partner to a JV, and not sister or parent companies.
 - ✓ Historic financial statements must be audited by a certified accountant.
 - ✓ Historic financial statements must be complete, including all notes to the financial statements.
 - ✓ Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

Form FIN-2: Average Annual Construction Turnover

Each Bidder or member of a JV must fill in this form

Year	Amount INR
2019-2020	
2018 - 2019	
2017 - 2018	
2016-2017	
2015 - 2016	
Average Annual Turn- Over	

The information supplied should be the Average Annual Turnover of the Bidder or each member of a JV in terms of the amounts billed to clients for each year for work in progress or completed in INR.

Form FIN-3: Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as indicated in Section III (Evaluation and Qualification Criteria)

Financial Resources		
No.	Source of financing	Amount (INR)
1		
2		
3		

Form FIN-4: Current Contract Commitments / Works in Progress

Bidders and each partner to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current Contract Commitments						
No.	Name of Contract	Employer's Contact Address, Tel, Fax	Total value of contract INR	Value of Outstanding Work INR	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months INR/Month
1						
2						
3						
4						
5						

Form EXP–1: General Construction Experience*Each Bidder or member of a JV must fill in this form*

General Construction Experience				
Starting Month Year	Ending Month Year	Years	Contract Identification and Name Name and Address of Employer Brief Description of the Works Executed by the Bidder	Role of Bidder

Form EXP-2(a): Specific Construction Experience

Fill up one (1) form per contract.

Contract of Similar Size and Nature		
Contract No of	Contract Identification	
Award Date		Completion Date
Role in Contract	Contractor	Management Contractor Subcontractor
Total Contract Amount	INR	
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone/Fax Number E-mail		
Description of the similarity in accordance with Criteria 2.4.2(a) of Section III		

Form EXP–2(b): Specific Construction Experience in Key Activities

Fill up one (1) form per contract

Contract with Similar Key Activities		
Contract No of	Contract Identification	
Award Date		Completion Date
Role in Contract	<input type="checkbox"/> Contractor <input type="checkbox"/> Management Contractor <input type="checkbox"/> Subcontractor	
Total Contract Amount	INR	
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone Number Fax Number E-mail		
Description of the key activities in accordance with Criteria 2.4.2(b) of Section III		

Form of Bid Security**(Demand Guarantee)****Beneficiary:**

**Inland Waterways Authority of India,
A – 13, Sector – 1,
Noida – 201301, Uttar Pradesh– INDIA
Telephone No. : (91) 0120-2544004
Fax No. : (91) 0120-2543976 Email. : vc.iwai@nic.in**

Invitation for Bids No:

Date:

BID GUARANTEE No.:

Guarantor:

We have been informed that (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its bid (hereinafter called "the Bid") for the execution of under Invitation for Bids No. ("the IFB").

Furthermore, we understand that, according to the Beneficiary's conditions, bids must be supported by a bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of (.....) upon receipt by us of the Beneficiary's complying supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating either that the Applicant:

- a) has withdrawn its Bid during the period of bid validity specified by the applicant in the Letter of Bid, or any extension thereto provided by the Applicant; or
- b) having been notified of the acceptance of its Bid by the Beneficiary during the period of bid validity, (i) fails to execute the Contract Agreement or (ii) fails or refuses to furnish the Performance Security and, the Environmental, Social, Health and Safety (ESHS) Performance Security, in accordance with the Instruction to Bidders.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the contract agreement signed by the Applicant and the performance security issued to the Beneficiary upon the instruction of the Applicant; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the bidding process; or (ii) twenty-eight days after the Validity Period, i.e. which date shall be established by presentation to us of copies of the Letter of Bid and any extension(s) thereto, accompanied by the bidding document.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758 except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

** : Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid.

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the bid.]

Appendix to Technical Part

FORM OF UNDERTAKING BY THE JOINT VENTURE PARTNERS

THIS JOINT DEED OF UNDERTAKING executed on this..... day of..... Two Thousand and..... by a company incorporated under the laws of and having its Registered Office at(hereinafter called the "Party No.1" which expression shall include its successors, executors and permitted assigns) and M/s.....a company incorporated under the laws of and having its Registered Office at (hereinafter called the "Party No.2" which expression shall include its successors, executors and permitted assigns) and M/s..... a Company incorporated under the laws of and having its Registered Office at (hereinafter called the "Party No.3" which expression shall include its successors, executors and permitted assigns) for the purpose of making a bid and entering into a contract [hereinafter called the "Contract" {in case of award)] against the Specification No..... for ***"Construction of IWT Inter -modal Terminal at Kalughat , Bihar" NCB No IN / IWAI/WB/NW-1/ 14/06/2020 & IFB NO IN-IWAI-185377-CW-RFB of Inland Waterways Authority of India, Ministry of Shipping, Government of India.*** a Company incorporated under the Companies Act of 1956 having its ***registered office at A-13 Sector-1 Noida*** (hereinafter called the "Employer").

WHEREAS the Party No.1, Party No.2 and Party No.3 have entered into an Agreement dated

AND WHEREAS the Employer invited bids as per the above mentioned Specification for the design, manufacture, supply, erection, testing and commissioning of Equipment/ Materials stipulated in the bidding documents under (*insert name of the package alongwith project name*)

AND WHEREAS Clause 9.3, Section-ITB and BDS (documents establishing the Qualification of Bidder) & Qualification Criteria in Annexure-A to BDS forming part of the bidding documents, inter-alia stipulates that an Undertaking of two or more qualified manufacturers as partners, meeting the requirements of Qualification Criteria in Annexure-A to BDS, as applicable may bid, provided, the Joint Venture fulfills all other requirements under Clause 9.3 (c) of ITB and Qualification Criteria in Annexure-A to BDS and in such a case, the Bid Forms shall be signed by all the partners so as to legally bind all the Partners of the Joint Venture, who will be jointly and severally liable to perform the Contract and all obligations hereunder.

The above clause further states that this Undertaking shall be attached to the bid and the Contract performance guarantee will be as per the format enclosed with the bidding document without any restrictions or liability for either party.

AND WHEREAS the bid is being submitted to the Employer vide proposal No.....dated by Party No.1 based on this Undertaking between all the parties; under these presents and the bid in accordance with the requirements of Clause 9.3, Section-ITB and BDS (documents establishing the Qualification of Bidder) & Qualification Criteria in Annexure-A to BDS, has been signed by all the parties.

NOW THIS UNDERTAKING WITNESSETH AS UNDER:

Volume1 of Kalughat Tender Document

In consideration of the above premises and agreements all the parties of this Deed of Undertaking do hereby declare and undertake:

1. In requirement of the award of the Contract by the Employer to the Joint Venture Partners, we, the Parties do hereby undertake that M/s..... the Party No.1, shall act as Lead Partner and further declare and confirm that we the parties to the Joint Venture shall jointly and severally be bound unto the Employer for the successful performance of the Contract and shall be fully responsible for the design, manufacture, supply and successful performance of the equipment in accordance with the Contract:
2. In case of any breach or default of the said Contract by any of the parties to the Joint Venture, the party(s) do hereby undertake to be fully responsible for the successful performance of the Contract and to carry out all the obligations and responsibilities under the Contract in accordance with the requirements of the Contract.
3. Further, if the Employer suffers any loss or damage on account of any breach in the Contract or any shortfall in the performance of the equipment in meeting the performances guaranteed as per the specification in terms of the Contract, the Party(s) of these presents undertake to promptly make good such loss or damages caused to the Employer, on its demand without any demur. It shall not be necessary or obligatory for the Employer to proceed against Lead Partner to these presents before proceeding against or dealing with the other Party(s), the Employer can proceed against any of the parties who shall be jointly and severally liable for the performance and all other liabilities/obligations under the Contract to the Employer.
4. The financial liability of the Parties of this Deed of Undertaking to the Employer, with respect to any of the claims rising out of the performance or non-performance of the obligations set forth in this Deed of Undertaking, read in conjunction with the relevant conditions of the Contract shall, however not be limited in any way so as to restrict or limit the liabilities or obligations of any of the Parties of this Deed of Undertaking.
5. It is expressly understood and agreed between the Parties to this Undertaking that the responsibilities and obligations of each of the Parties shall be as delineated in **Appendix – I (to be suitably appended by the Parties alongwith this Undertaking in its bid)** to this Deed of Undertaking. It is further undertaken by the parties that the above sharing of responsibilities and obligations shall not in any way be a limitation of joint and several responsibilities of the Parties under the Contract.
6. It is also understood that this Undertaking is provided for the purposes of undertaking joint and several liabilities of the partners to the Joint Venture for submission of the bid and performance of the Contract and that this Undertaking shall not be deemed to give rise to any additional liabilities or obligations, in any manner or any law, on any of the Parties to this Undertaking or on the Joint Venture, other than the express provisions of the Contract.
7. This Undertaking shall be construed and interpreted in accordance with the provisions of the Contract.
8. In case of an award of a Contract, we the parties to this Deed of Undertaking do hereby agree that we shall be jointly and severally responsible for furnishing a Contract performance security from a bank in favour of the Employer in the currency/currencies of the Contract.

9. It is further agreed that this Deed of Undertaking shall be irrevocable and shall form an integral part of the bid and shall continue to be enforceable till the Employer discharges the same or upon the completion of the Contract in accordance with its provisions, whichever is earlier. It shall be effective from the date first mentioned above for all purposes and intents.

IN WITNESS WHEREOF, the Parties to this Deed of Undertaking have through their authorised representatives executed these presents and affixed Common Seals of their companies, on the day, month and year first mentioned above.

Common Seal of
has been affixed in my/ our
presence pursuant to Board of
Director's Resolution dated

For Lead Partner (Party No.-1)
For and on behalf of M/s
.....

Name
Designation
Signature

(Signature of the authorized
representative)

WITNESS :

I.
II.

Common Seal of
has been affixed in my/ our
presence pursuant to Board of
Director's Resolution dated

For Party No.-2
For and on behalf of M/s.....

Name
Designation
Signature

(Signature of the authorized
representative)

WITNESS :

I.
II.

Common Seal of
has been affixed in my/ our
presence pursuant to Board of
Director's Resolution dated

For Party No.-3
For and on behalf of M/s.
.....

Name
Designation
Signature

WITNESS :

I.
II.

(Signature of the authorized
representative)

Note :

1. For the purpose of executing the Joint Deed of Undertaking, the non-judicial stamp papers of appropriate value shall be purchased in the name of Joint Venture.
2. The Undertaking shall be signed on all the pages by the authorised representatives of each of the partners and should invariably be witnessed.

Section V. Eligible Countries

Eligibility for the Provision of Goods, Works and Non Consulting Services in Bank-Financed Procurement

c) In reference to ITB 4.7 and 5.1, for the information of the Bidders, at the present time firms, goods and services from the following countries are excluded from this bidding process:

Under ITB 4.7(a) and 5.1: None.

Under ITB 4.7(b) and 5.1: None.

Section VI. Bank Policy – Corrupt and Fraudulent Practices

Guidelines for Procurement of Goods, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011.

“Fraud and Corruption:

It is the Bank’s policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts.⁶ In pursuance of this policy, the Bank:

- a) defines, for the purposes of this provision, the terms set forth below as follows:
 - i) “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;⁷
 - ii) “fraudulent practice” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;⁸
 - d) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;⁹
 - iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;¹⁰
 - v) “obstructive practice” is
 - aa) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or

⁶ In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

⁷ For the purpose of this sub-paragraph, “another party” refers to a public official acting in relation to the procurement process or contract execution. In this context, “public official” includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

⁸ For the purpose of this sub-paragraph, “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.

⁹ For the purpose of this sub-paragraph, “parties” refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other’s bid prices or other conditions.

¹⁰ For the purpose of this sub-paragraph, “party” refers to a participant in the procurement process or contract execution.

bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 1.16l below.

- b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c) will declare mis-procurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank's sanctions procedures,¹¹ including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated¹²;
- e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank."

¹¹ A firm or individual may be declared ineligible to be awarded a Bank financed contract upon: (i) completion of the Bank's sanctions proceedings as per its sanctions procedures, including, inter alia, cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks, and through the application the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption; and (ii) as a result of temporary suspension or early temporary suspension in connection with an ongoing sanctions proceeding. See footnote 14 and paragraph 8 of Appendix 1 of these Guidelines.

¹² A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which has either been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

Part 2 – Work Requirements

Section VII – Conditions of Contract together with Schedules

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	Letter of Acceptance
	Recitals
Article 1	Definitions and Interpretation
PART II - Scope of the Project	
Article 2	Scope of the Project
Article 3	Obligations of the Contractor
Article 4	Obligations of the Employer
Article 5	Representations and Warranties
Article 6	Disclaimer
Part III - Construction and Maintenance	
Article 7	Performance Security
Article 8	Right of Way
Article 9	Utilities and Trees
Article 10	Design and Construction of the Project Highway
Article 11	Quality Assurance, Monitoring and Supervision
Article 12	Completion Certificate
Article 13	Change of Scope
Article 14	Maintenance
Article 15	Supervision and Monitoring During Maintenance
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Article 17	Defects Liability
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Article 21	Force Majeure
Article 22	Suspension of Contractor's Rights
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Part VI - Other Provisions	
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Article 25	Liability and Indemnity
Article 26	Dispute Resolution
Article 27	Miscellaneous
Article 28	Definitions
Appendix	Bank's Policy- Corrupt and Fraudulent Practices
Appendix A	Adjudicator
Appendix B	ESHS Metrics for Progress Reports
Schedules	
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Schedule-B	Development of the Project Highway
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Schedule-F	Applicable Permits
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Schedule-H	Contract Price Weightages
Schedule-I	Drawings
Schedule-J	Project Completion Schedule
Schedule-K	Tests on Completion
Schedule-L	Provisional/ Completion Certificate
Schedule-M	Payment reduction for non-compliance with the Maintenance Requirements
Schedule-N	Selection of Engineer-in-charge
Schedule-O	Forms of Payment Statements
Schedule-P	Insurance
Schedule-Q	Tests on Completion of Maintenance Period
Schedule-R	Taking Over Certificate
Schedule-S	Performance Certificate
Schedule-T	Payment Currencies
	<i>Appointment of Adjudicator</i>

Part I – Preliminary

NOTIFICATION OF AWARD

Letter of Acceptance

[on letterhead paper of the Employer]

[The Letter of Acceptance shall be the basis for formation of the Contract as described in ITB Clause 47. This Standard Form of Letter of Acceptance shall be filled in and sent to the successful Bidder only after evaluation of bids has been completed, subject to any review by the World Bank required under the Loan Agreement.]

..... *[date]*To: *[name and address of the Contractor]*Subject: *[Notification of Award Contract No.]*

This is to notify you that your Bid dated *[insert date]* for execution of the *[insert name of the contract and identification number]* for the Accepted Contract Amount of *[insert amount in numbers and words]*, as corrected and modified⁷ in accordance with the Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish the Performance Security and an Environmental, Social, Health and Safety Performance Security *[Delete ESHS Performance Security if it is not required under the contract]* in the form detailed in ITB Clause 50 for amounts⁸ of Rs., and Rs. specified therein and sign the contract within 28 days of the receipt of this letter of acceptance, failing which action as stated in ITB Clause 50.2 will be taken, in accordance with the Conditions of Contract. The securities shall be valid up to 28 days from the date of completion i.e. up to and shall be as per the Performance Security Form and the ESHS Performance Security Form *[Delete reference to the ESHS Performance Security Form if it is not required under the contract]*, included in Schedule-G: Form of Bank Guarantee.

[Choose one of the following statements:]

We accept that *[insert the name of Adjudicator proposed by the Bidder]* be appointed as the Adjudicator⁹.

[or]

We do not accept that *[insert the name of the Adjudicator proposed by the Bidder]* be appointed as the Adjudicator, and by sending a copy of this Letter of Acceptance to *[insert name of the Appointing Authority]*, the Appointing Authority, we are hereby requesting such Authority to appoint the Adjudicator in accordance with ITB 51.1 and Conditions of Contract Clause 26.2.2 of the Contract Agreement¹⁰.

We note that as per your bid, you do not intend to subcontract any component of work.

[OR]

We note that as per your bid, you propose to employ M/s. as sub-contractor for executing *[Delete whatever is inapplicable]*

Authorized Signature:

Name and Title of Signatory:

Name of Agency:

Attachment: Contract Agreement

⁷ Delete “corrected and” or “and modified” if not applicable. See Notes on Standard Form of Agreement, next page.

⁸ Insert amounts for (i) Performance Security; and (ii) ESHS Performance Security respectively.

⁹ To be used only if the Contractor disagrees in the Bid with the Adjudicator proposed by the Employer in the Instructions to Bidders, and has accordingly offered another candidate.

¹⁰ To be used only if the Contractor disagrees in the Bid with the Adjudicator proposed by the Employer in the ITB, has accordingly offered another candidate, and the Employer does not accept the counterproposal.

ENGINEERING, PROCUREMENT AND CONSTRUCTION AGREEMENT

THIS AGREEMENT is entered into on this the day of, 20.....

BETWEEN

Inland Waterways Authority of India, Ministry of Shipping, Government of India (hereinafter referred to as the “**Employer**” which expression shall, unless repugnant to the context or meaning thereof, include its administrators, successors and assigns) of One Part;

AND

{-----}, means the selected bidder *{single entity or the joint venture which is the selected bidder under the NCB No.....}* having its registered office atand at(in case of JV), (hereinafter referred to as the “**Contractor**” which expression shall, unless repugnant to the context or meaning thereof, include its successors and permitted assigns) of the Other Part.

WHEREAS:

- A) Inland Waterways Authority of India, Ministry of Shipping, Government of India has intended to take up the Capacity Augmentation of National Waterway – 1.
- B) The Employer had resolved to take up the work “**Construction of IWT Inter -modal Terminal at Kalughat , Bihar ”** on Engineering, Procurement, Construction (“**EPC**”) basis in accordance with the terms and conditions to be set forth in an agreement to be entered into.
- C) The Employer had prescribed the technical and commercial terms and conditions, and invited bids IFB No._____ from all bidders having required eligibility and qualification criteria for undertaking the Project.
- D) After evaluation of the bids received, the Employer had accepted the bid of the selected bidder and issued its Letter of Acceptance No. dated (here in after called the “**LOA**”) to the selected bidder for “**Construction of IWT Inter -modal Terminal at Kalughat , Bihar ”** at the contract price specified hereinafter, requiring the selected bidder to inter alia:
 - i) deliver to the Employer a legal opinion from the legal counsel of the selected bidder with respect to the Employer of the selected bidder to enter into this Agreement and the enforceability of the provisions thereof, within 10 (ten) days of the date of issue of LOA; and
 - ii) Execute this Agreement within 28(twenty eight) days of the date of issue of LOA.
- E) The Contractor has fulfilled the requirements specified in Recital (D) above;

NOW THEREFORE in consideration of the foregoing and the respective covenants and agreements set forth in this Agreement, the sufficiency and adequacy of which is hereby acknowledged, the Employer hereby covenants to pay the Contractor, in consideration of the obligations specified herein, the Contract Price or such other sum as may become payable under the provisions of the Agreement at the times and in the manner specified by the Agreement and intending to be legally bound hereby, the Parties agree as follows:

ARTICLE-1

DEFINITIONS AND INTERPRETATION

e) Definitions

The words and expressions beginning with capital letters and defined in this Agreement (including those in Article 28) shall, unless the context otherwise requires, have the meaning ascribed thereto herein, and the words and expressions defined in the Schedules and used therein shall have the meaning ascribed thereto in the Schedules.

1.2 Interpretation

1.2.1 In this Agreement, unless the context otherwise requires,

- a) References to any legislation or any provision thereof shall include amendment or re-enactment or consolidation of such legislation or any provision thereof so far as such amendment or re-enactment or consolidation applies or is capable of applying to any transaction entered into hereunder;
- b) References to laws of India or Indian law or regulation having the force of law shall include the laws, acts, ordinances, rules, regulations, bye laws or notifications which have the force of law in the territory of India and as from time to time may be amended, modified, supplemented, extended or re-enacted;
- c) References to a “person” and words denoting a natural person shall be construed as a reference to any individual, firm, company, corporation, society, trust, government, state or agency of a state or any association or partnership (whether or not having separate legal personality) of two or more of the above and shall include successors and assigns;
- d) The table of contents, headings or sub-headings in this Agreement are for convenience of reference only and shall not be used in, and shall not affect, the construction or interpretation of this Agreement;
- e) The words “include” and “including” are to be construed without limitation and shall be deemed to be followed by “without limitation” or “but not limited to” whether or not they are followed by such phrases;
- f) References to “construction” or “building” include, unless the context otherwise requires, survey and investigation, design, developing, engineering, procurement, supply of plant, materials, equipment, labour, delivery, transportation, installation, processing, fabrication and testing of the terminal, including maintenance during the Construction Period, removing of defects, if any, and other activities incidental to the construction and “construct” or “build” shall be construed accordingly;
- g) References to “development” include, unless the context otherwise requires, construction, renovation, refurbishing, augmentation, up-gradation and other activities incidental thereto during the Construction Period, and “develop” shall be construed accordingly;
- h) Any reference to any period of time shall mean a reference to that according to Indian standard time;
- i) Any reference to day shall mean a reference to a calendar day;
- j) References to a “business day” shall be construed as a reference to a day (other than a Sunday) on which banks in [Delhi] are generally open for business;

- k) Any reference to month shall mean a reference to a calendar month as per the Gregorian calendar;
- l) References to any date, period or Project Milestone shall mean and include such date, period or Project Milestone as may be extended pursuant to this Agreement;
- m) Any reference to any period commencing “from” a specified day or date and “till” or “until” a specified day or date shall include both such days or dates; provided that if the last day of any period computed under this Agreement is not a business day, then the period shall run until the end of the next business day;
- n) The words importing singular shall include plural and vice versa;
- o) References to any gender shall include the other and the neutral gender;
- p) “Lakh” means a hundred thousand (100,000) and “crore” means ten million (10,000,000);
- q) “Indebtedness” shall be construed so as to include any obligation (whether incurred as principal or surety) for the payment or repayment of money, whether present or future, actual or contingent;
- r) References to the “winding-up”, “dissolution”, “insolvency”, or “reorganisation” of a company or corporation shall be construed so as to include any equivalent or analogous proceedings under the law of the jurisdiction in which such company or corporation is incorporated or any jurisdiction in which such company or corporation carries on business including the seeking of liquidation, winding-up, reorganisation, dissolution, arrangement, protection or relief of debtors;
- s) Save and except as otherwise provided in this Agreement, any reference, at any time, to any agreement, deed, instrument, licence or document of any description shall be construed as reference to that agreement, deed, instrument, licence or other document as amended, varied, supplemented, modified or suspended at the time of such reference; provided that this Clause shall not operate so as to increase liabilities or obligations of the Employer hereunder or pursuant hereto in any manner whatsoever;
- t) Any agreement, consent, approval, authorisation, notice, communication, information or report required under or pursuant to this Agreement from or by any Party or the Employer’s Engineer shall be valid and effective only if it is in writing under the hand of a duly authorised representative of such Party or the Employer’s Engineer, as the case may be, in this behalf and not otherwise;
- u) The Schedules and Recitals to this Agreement form an integral part of this Agreement and will be in full force and effect as though they were expressly set out in the body of this Agreement;
- v) References to Recitals, Articles, Clauses, Sub-clauses or Schedules in this Agreement shall, except where the context otherwise requires, mean references to Recitals, Articles, Clauses, Sub-clauses and Schedules of or to this Agreement, and references to a Paragraph shall, subject to any contrary indication, be construed as a reference to a Paragraph of this Agreement or of the Schedule in which such reference appears;
- w) The damages payable by either Party to the other of them, as set forth in this Agreement, whether on per diem basis or otherwise, are mutually agreed genuine pre-estimated loss and damage likely to be suffered and incurred by the Party entitled to receive the same and are not by way of penalty (the “Damages”); and

- x) Time shall be of the essence in the performance of the Parties' respective obligations. If any time period specified herein is extended for the reasons specified in the Agreement, such extended time shall also be of the essence.
- y) References to "World Bank" shall mean the International Bank for Reconstruction and Development (The Bank). The Bank is the financing institution which has provided funds toward a part of the cost of the Project. Payments by the World Bank will be made only at the request of the Recipient (IWAI) of the funds and upon approval by the World Bank in accordance with the terms and conditions of the financing agreement (Loan Agreement) and will be subject in all respects to the terms and conditions of that Loan Agreement. No party other than the Recipient shall derive any rights from the Loan Agreement or have claim to any funds."

1.2.2 Unless expressly provided otherwise in this Agreement, any Documentation required to be provided or furnished by the Contractor to the Employer shall be provided free of cost and in three copies, and if the Employer is required to return any such Documentation with its comments and/or approval, it shall be entitled to retain two copies thereof.

1.2.3 The rule of construction, if any, that a contract should be interpreted against the parties responsible for the drafting and preparation thereof, shall not apply.

1.2.4 Any word or expression used in this Agreement shall, unless otherwise defined or construed in this Agreement, bear its ordinary English meaning and, for these purposes, the General Clauses Act, 1897 shall not apply.

1.3 Measurements and Arithmetic Conventions

All measurements and calculations shall be in the metric system and calculations done to 2 (two) decimal places, with the third digit of 5 (five) or above being rounded up and below 5 (five) being rounded down.

1.4 Priority of agreements and errors/discrepancies

1.4.1 This Agreement, and all other agreements and documents forming part of or referred to in this Agreement are to be taken as mutually explanatory and, unless otherwise expressly provided elsewhere in this Agreement, the priority of this Agreement and other documents and agreements forming part hereof or referred to herein shall, in the event of any conflict between them, be in the following order:

- a) Corrigendum to Conditions of Contract together with Schedules (issued if any)
- b) This Agreement including Conditions of Contract together with Schedules; and
- c) All other agreements and documents forming part hereof or referred to herein; i.e. this Agreement at (b) above shall prevail over the agreements and documents at (c).

1.4.2 Subject to the provisions of Clause 1.4.1, in case of ambiguities or discrepancies within this Agreement, the following shall apply:

- a) Between a Clause of this Agreement and Corrigendum, the provisions of Corrigendum
- b) Between two or more Clauses of this Agreement, the provisions of a specific Clause relevant to the issue under consideration shall prevail over those in other Clauses;
- c) Between the Clauses of this Agreement and the Schedules, the Clauses shall prevail and between Schedules and Annexes, the Schedules shall prevail;
- d) Between any two Schedules, the Schedule relevant to the issue shall prevail;

- e) Between the written description on the Drawings and the Specifications & Standards, the latter shall prevail;
- f) Between the dimension scaled from the Drawing and its specific written dimension, the latter shall prevail; and between any value written in numerals and that in words, the latter shall prevail.

1.5 Joint and Several Liability

- 1.5.1 If the Contractor has formed a Joint Venture (JV) of two persons for implementing the Project:
 - a) These persons shall, without prejudice to the provisions of this Agreement, be deemed to be jointly and severally liable to the Employer for the performance of the Agreement; and
 - b) The Contractor shall ensure that no change in the composition of the Joint Venture (JV) is effected without the prior consent of the Employer.
- 1.5.2 Without prejudice to the joint and several liability of all the members of the Joint Venture (JV), the Lead Member shall represent all the members of the Joint Venture (JV) and shall at all times be liable and responsible for discharging the functions and obligations of the Contractor. The Contractor shall ensure that each member of the Joint Venture (JV) shall be bound by any decision, communication, notice, action or inaction of the Lead Member on any matter related to this Agreement and the Employer shall be entitled to rely upon any such action, decision or communication of the Lead Member. The Employer shall release the payment only to the Joint Venture (JV)

Part II – Scope of Project

ARTICLE-2

SCOPE OF THE PROJECT

2.1 Scope of the Project

Under this Agreement, the scope of the Project (the “Scope of the Project”) shall mean and include:

- a) Design & construction of the terminal on the Site set forth in Schedule-A and as specified in Schedule-B together with provision of Project Facilities as specified in Schedule-C, and in conformity with the Specifications and Standards set forth in Volume-II of Bidding Document;
- b) Performance and fulfilment of all other obligations of the Contractor in accordance with the provisions of this Agreement and matters incidental thereto or necessary for the performance of any or all of the obligations of the Contractor under this Agreement.

ARTICLE-3

OBLIGATIONS OF THE CONTRACTOR

3.1 Obligations of the Contractor

- 3.1.1 Subject to and on the terms and conditions of this Agreement, the Contractor shall undertake the survey, investigation including sub-soil investigation, design, engineering, procurement, construction of the terminal and observe, fulfil, comply with and perform all its obligations set out in this Agreement or arising hereunder.
- 3.1.2 The Contractor shall comply with all Applicable Laws and Applicable Permits (including renewals as required) in the performance of its obligations under this Agreement. The Contractor shall comply with all environmental clearances required during construction including implementation of Environmental Management Plan (EMP) prepared by IWAI.
- 3.1.3 Subject to the provisions of Clauses 3.1.1 and 3.1.2, the Contractor shall discharge its obligations in accordance with Good Industry Practice and as a reasonable and prudent person.
- 3.1.4 The Contractor shall remedy any and all loss or damage to the terminal from the Appointed Date until the end of the Construction Period at the Contractor's cost, save and except to the extent that any such loss or damage shall have arisen from any default or neglect of the Employer.
- 3.1.5 The Contractor shall remedy any and all loss or damage to the terminal during the Defects Liability Period at the Contractor's cost to the extent that such loss or damage shall have arisen out of the reasons specified in Clause 17.3.
- 3.1.6 Deleted.
- 3.1.7 The Contractor shall, at its own cost and expense, in addition to and not in derogation of its obligations elsewhere set out in this Agreement:
 - a) Make, or cause to be made, necessary applications to the relevant Government Instrumentalities with such particulars and details as may be required for obtaining Applicable Permits set forth in Schedule-F and obtain and keep in force and effect such Applicable Permits in conformity with the Applicable Laws;
 - b) Procure, as required, the appropriate proprietary rights, licenses, agreements and permissions for Materials, methods, processes and systems used or incorporated into the terminal; including obtaining and maintaining regulatory permits such as (a) consent to establish and (b) consent to operate from the UPPCB for installation and operation of borewells, batching plants, hot-mix plants, crushers, diesel generator sets, and such other equipment as per applicable regulations; and, "Pollution Under Control" certificates for vehicles and other construction equipment as per applicable regulations.
 - c) Make reasonable efforts to maintain harmony and good industrial relations among the personnel employed by it or its Sub-contractors in connection with the performance of its obligations under this Agreement;
 - d) Ensure and procure that its Sub-contractors comply with all Applicable Permits and Applicable Laws in the performance by them of any of the Contractor's obligations under this Agreement;
 - e) Not do or omit to do any act, deed or thing which may in any manner be violative of

any of the provisions of this Agreement;

- f) Support, cooperate with and facilitate the Employer in the implementation and operation of the Project in accordance with the provisions of this Agreement;
- g) Ensure that the Contractor and its Sub-contractors comply with the safety and welfare measures for labour in accordance with the Applicable Laws and Good Industry Practice;
- h) Keep, on the Site, a copy of this Agreement, publications named in this Agreement, the Drawings, Documents relating to the Project, and Change of Scope Orders and other communications given under this Agreement. The Employer's Engineer and its authorised personnel shall have the right of access to all these documents at all reasonable times;
- i) Cooperate with other contractors if any employed by the Employer and personnel of any public Employer; and
- j) Not interfere unnecessarily or improperly with the convenience of the public, or the access to and use and occupation of all roads and footpaths, irrespective of whether they are public or in the possession of the Employer or of others.

3.1.8 The Contractor shall undertake all necessary superintendence to plan, arrange, direct, manage, inspect and test the Works.

3.1.9 Inspections and Audit by the World Bank

The Contractor shall permit, and shall cause its Subcontractors and sub-consultants to permit, the World Bank and/or persons appointed by the World Bank to inspect the Site and all accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the World Bank if requested by the World Bank. The Contractor's and its Subcontractors' and sub-consultants' attention is drawn to Clause 3.9 [Corrupt or Fraudulent Practices] which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under Clause 11.6.1 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the World Bank's prevailing sanctions procedures).

3.2 Obligations Relating to Sub-contracts and any other Agreements

3.2.1 The Contractor shall not sub-contract any Works in more than **25% (twenty five per cent) of the contract price** and shall carry out Works directly under its own supervision and through its own personnel in at least **75% (seventy five per cent) of the contract price**. Provided, however, that in respect of the Works carried out directly by the Contractor, it may enter into contracts for the supply and installation of Materials, Plant, equipment, road furniture, safety devices and labour, as the case may be, for such Works. The Parties further agree that all obligations and liabilities under this Agreement for the entire Terminal shall at all times remain with the Contractor.

3.2.2 In the event any sub-contract for Works, or the aggregate of such sub-contracts with any Sub-contractor, exceeds 5% (five percent) of the Contract Price, the Contractor shall communicate the name and particulars, including the relevant experience of the sub-contractor, to the Employer prior to entering into any such sub-contract. The Employer shall examine the particulars of the sub-contractor from the national security and public interest perspective and may require the Contractor, no later than 15 (fifteen) business

days from the date of receiving the communication from the Contractor, not to proceed with the sub-contract, and the Contractor shall comply therewith.

- 3.2.3 In the event any sub-contract referred to in Clause 3.2.2 relates to a sub-contractor who has, over the preceding 3 (three) years, not undertaken at least one work of a similar nature with a contract value exceeding 80% (eighty per cent) of the value of the sub-contract to be awarded hereunder and received payments in respect thereof for an amount equal to at least such 80% (eighty per cent), the Employer may, no later than 15 (fifteen) business days from the date of receiving the communication from the Contractor, require the Contractor not to proceed with such sub-contract, and the Contractor shall comply therewith.
- 3.2.4 It is expressly agreed that the Contractor shall, at all times, be responsible and liable for all its obligations under this Agreement notwithstanding anything contained in the agreements with its Sub-contractors or any other agreement that may be entered into by the Contractor, and no default under any such agreement shall excuse the Contractor from its obligations or liability hereunder.

3.3 Employment of Foreign Nationals

The Contractor acknowledges, agrees and undertakes that employment of foreign personnel by the Contractor and/or its Sub-contractors and their sub-contractors shall be subject to grant of requisite regulatory permits and approvals including employment/residential visas and work permits, if any required, and the obligation to apply for and obtain the same shall and will always be of the Contractor. Notwithstanding anything to the contrary contained in this Agreement, refusal of or inability to obtain any such permits and approvals by the Contractor or any of its Sub-contractors or their sub-contractors shall not constitute Force Majeure Event, and shall not in any manner excuse the Contractor from the performance and discharge of its obligations and liabilities under this Agreement.

3.4 Contractor's Personnel

- 3.4.1 The Contractor shall ensure that the personnel engaged by it or by its Sub-contractors in the performance of its obligations under this Agreement are at all times appropriately qualified, skilled and experienced in their respective functions in conformity with Good Industry Practice. The Contractor shall give preference to the local villagers for unskilled labour requirement and provide a quarterly report to the Employer Engineer on the details of person days of employment provided to the local villagers (for both men and women separately).
- 3.4.2 The Employer's Engineer may, for reasons to be specified in writing, direct the Contractor to remove any member of the Contractor's or Sub-contractor's personnel. Provided that any such direction issued by the Employer's Engineer shall specify the reasons for the removal of such person.
- 3.4.3 The Contractor shall on receiving such a direction from the Employer's Engineer order for the removal of such person or persons with immediate effect. It shall be the duty of the Contractor to ensure that such persons are evicted from the Site within 10 (ten) days of any such direction being issued in pursuance of Clause 3.4.2. The Contractor shall further ensure that such persons have no further connection with the Works or Maintenance under this Agreement. The Contractor shall then appoint (or cause to be appointed) a replacement within 28 days from the date of such direction to remove, all at the Contractor's cost.

3.5 Advertisement on Terminal

The terminal or any part thereof shall not be used in any manner to advertise any commercial product or services.

3.6 Contractor's Care of the Works

The Contractor shall bear full risk in and take full responsibility for the care of the Works, and of the Materials, goods and equipment for incorporation therein, from the Appointed Date until the date of Provisional Certificate (with respect to the Works completed prior to the issuance of the Provisional Certificate) and/or Completion Certificate (with respect to the Works referred to in the Punch List), save and except to the extent that any such loss or damage shall have arisen from any default or neglect of the Employer.

3.7 Electricity, Water and other Services

The Contractor shall be responsible for procuring of all power, water and other services that it may require.

3.8 Unforeseeable Difficulties

Except as otherwise stated in the Agreement:

- a) The Contractor accepts complete responsibility for having foreseen all difficulties and costs of successfully completing the Works;
- b) The Contract Price shall not be adjusted to take account of any unforeseen difficulties or costs; and
- c) The Scheduled Completion Date shall not be adjusted to take account of any unforeseen difficulties or costs.

3.9 Corrupt or Fraudulent Practices

The Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Appendix to the GCC.

ARTICLE-4

OBLIGATIONS OF THE EMPLOYER

4.1 Obligations of the Employer

- 4.1.1 The Employer shall, at its own cost and expense, undertake, comply with and perform all its obligations set out in this Agreement or arising hereunder.
- 4.1.2 The Employer shall be responsible for the correctness of the Scope of the Project, Project Facilities, Specifications & Standards and the criteria for testing of the completed Works.
- 4.1.3 The Employer shall provide to the Contractor:
- a) Upon receiving the Performance Security under Clause 7.1.1, the Right of Way in accordance with the provisions of Clauses 8.2 and 8.3, as specified in Schedule A;
 - b) Deleted
 - c) Environmental clearances are not required but proposed Environment Management Plan (EMP) is to be implemented.
- 4.1.4 Delay in providing the Right of Way in accordance with the provisions of Clause 4.1.3 shall entitle the Contractor to Damages in a sum calculated in accordance with the provisions of Clause 8.3 of this Agreement and Time Extension in accordance with the provisions of Clause 10.5 of this Agreement.
- 4.1.5 Notwithstanding anything to the contrary contained in this Agreement, the Parties expressly agree that the aggregate Damages payable under Clauses 4.1.4, 8.3 and 9.2 shall not exceed 1% (one per cent) of the Contract Price. For the avoidance of doubt, the Damages payable by the Employer under the aforesaid Clauses shall not be additive if they arise concurrently from more than one cause but relate to the same part of the terminal.
- Both the parties agree that payment of these Damages shall be full and final settlement of all claims of the Contractor and such compensation shall be the sole remedy against delays of the Employer and both parties further agree this as final cure against delays of the Employer.
- 4.1.6 The Employer agrees to provide support to the Contractor and undertakes to observe, comply with and perform, subject to and in accordance with the provisions of this Agreement and the Applicable Laws, the following:
- a) Upon written request from the Contractor, and subject to the Contractor complying with Applicable Laws, provide reasonable support to the Contractor in procuring Applicable Permits required from any Government Instrumentality for implementation of the Project;
 - b) Upon written request from the Contractor, provide reasonable assistance to the Contractor in obtaining access to all necessary infrastructure facilities and utilities, including water and electricity at rates and on terms no less favourable than those generally available to commercial customers receiving substantially equivalent services;
 - c) Procure that no barriers that would have a material adverse effect on the works are erected or placed on or about the terminal by any Government Instrumentality or persons claiming through or under it, except for reasons of Emergency, national security, law and order or collection of inter-state taxes;

- d) Not do or omit to do any act, deed or thing which may in any manner be violative of any of the provisions of this Agreement;
- e) Support, cooperate with and facilitate the Contractor in the implementation of the Project in accordance with the provisions of this Agreement; and
- f) Upon written request from the Contractor and subject to the provisions of Clause 3.3, provide reasonable assistance to the Contractor and any expatriate personnel of the Contractor or its Sub-contractors to obtain applicable visas and work permits for the purposes of discharge by the Contractor or its Sub-contractors of their obligations under this Agreement and the agreements with the Sub-contractors.
- g) Upon written request from the Contractor and subject to the provisions of the Contract and as per the prevailing norms of Government of India, shall issue exemption certificate for excise duty/ customs duty for materials used in the work as per the latest notification and based on the work requirements.

4.2 Deleted

4.3 Environmental Clearances

As per EIA Notification, 2006 of MOEF & CC amended till date, the inland waterway terminals and jetties do not require obtaining prior EC.

ARTICLE-5

REPRESENTATIONS AND WARRANTIES

5.1 Representations and warranties of the Contractor

The Contractor represents and warrants to the Employer that:

- a) It is duly organised and validly existing under the laws of India, and has full power and Employer to execute and perform its obligations under this Agreement and to carry out the transactions contemplated hereby;
- b) It has taken all necessary corporate and/or other actions under Applicable Laws to authorise the execution and delivery of this Agreement and to validly exercise its rights and perform its obligations under this Agreement;
- c) This Agreement constitutes its legal, valid and binding obligation, enforceable against it in accordance with the terms hereof, and its obligations under this Agreement will be legally valid, binding and enforceable obligations against it in accordance with the terms hereof;
- d) It is subject to the laws of India, and hereby expressly and irrevocably waives any immunity in any jurisdiction in respect of this Agreement or matters arising thereunder including any obligation, liability or responsibility hereunder;
- e) The information furnished in the Bid and as updated on or before the date of this Agreement is true and accurate in all respects as on the date of this Agreement;
- f) The execution, delivery and performance of this Agreement will not conflict with, result in the breach of, constitute a default under, or accelerate performance required by any of the terms of its memorandum and articles of association or any Applicable Laws or any covenant, contract, agreement, arrangement, understanding, decree or order to which it is a party or by which it or any of its properties or assets is bound or affected;
- g) There are no actions, suits, proceedings, or investigations pending or, to its knowledge, threatened against it at law or in equity before any court or before any other judicial, quasi-judicial or other Employer, the outcome of which may result in the breach of this Agreement or which individually or in the aggregate may result in any material impairment of its ability to perform any of its obligations under this Agreement;
- h) It has no knowledge of any violation or default with respect to any order, writ, injunction or decree of any court or any legally binding order of any Government Instrumentality which may result in any material adverse effect on its ability to perform its obligations under this Agreement and no fact or circumstance exists which may give rise to such proceedings that would adversely affect the performance of its obligations under this Agreement;
- i) It has complied with Applicable Laws in all material respects and has not been subject to any fines, penalties, injunctive relief or any other civil or criminal liabilities which in the aggregate have or may have a material adverse effect on its ability to perform its obligations under this Agreement;
- j) No representation or warranty by it contained herein or in any other document furnished by it to the Employer or to any Government Instrumentality in relation to Applicable Permits contains or will contain any untrue or misleading statement of material fact or omits or will omit to state a material fact necessary to make such

representation or warranty not misleading;

- k) No sums, in cash or kind, have been paid or will be paid, by it or on its behalf, to any person by way of fees, commission or otherwise for securing the contract or entering into this Agreement or for influencing or attempting to influence any officer or employee of the Employer in connection therewith;
- l) All information provided by the (selected bidder/ members of the JV) in response to the RFQ No. _____ and RFP No. _____ or otherwise, is to the best of its knowledge and belief, true and accurate in all material respects; and
- m) Nothing contained in this Agreement shall create any contractual relationship or obligation between the Employer and any Sub-contractors, designers, consultants or agents of the Contractor.

5.2 Representations and Warranties of the Employer

The Employer represents and warrants to the Contractor that:

- a) It has full power and Employer to execute, deliver and perform its obligations under this Agreement and to carry out the transactions contemplated herein and that it has taken all actions necessary to execute this Agreement, exercise its rights and perform its obligations, under this Agreement;
- b) It has taken all necessary actions under the Applicable Laws to authorise the execution, delivery and performance of this Agreement;
- c) It has the financial standing and capacity to perform its obligations under this Agreement;
- d) This Agreement constitutes a legal, valid and binding obligation enforceable against it in accordance with the terms hereof;
- e) It has no knowledge of any violation or default with respect to any order, writ, injunction or any decree of any court or any legally binding order of any Government Instrumentality which may result in any material adverse effect on the Employer's ability to perform its obligations under this Agreement;
- f) It has complied with Applicable Laws in all material respects;
- g) It has good and valid right to the Site and has the power and Employer to grant the Right of Way in respect thereof to the Contractor; and
- h) It has procured Right of Way and environment clearances such that the Contractor can commence construction forthwith on the Terminal as per Schedule A.

5.3 Disclosure

In the event that any occurrence or circumstance comes to the attention of either Party that renders any of its aforesaid representations or warranties untrue or incorrect, such Party shall immediately notify the other Party of the same. Such notification shall not have the effect of remedying any breach of the representation or warranty that has been found to be untrue or incorrect nor shall it adversely affect or waive any obligation of either Party under this Agreement.

ARTICLE-6**DISCLAIMER****6.1 Disclaimer**

- 6.1.1 The Contractor acknowledges that prior to the execution of this Agreement, the Contractor has, after a complete and careful examination, made an independent evaluation of the Invitation for Bid, Scope of the Project, Specifications and Standards of design, construction and maintenance, Site, local conditions, physical qualities of ground, subsoil and geology, traffic volumes, suitability and availability of access routes to the Site and all information provided by the Employer or obtained, procured or gathered otherwise, and has determined to its satisfaction the accuracy or otherwise thereof and the nature and extent of difficulties, risks and hazards as are likely to arise or may be faced by it in the course of performance of its obligations hereunder. Save as provided in Clause 4.1.2 and Clause 5.2, the Employer makes no representation whatsoever, express, implicit or otherwise, regarding the accuracy, adequacy, correctness, reliability and / or completeness of any assessment, assumptions, statement or information provided by it and the Contractor confirms that it shall have no claim whatsoever against the Employer in this regard.
- 6.1.2 The Contractor acknowledges and hereby accepts to have satisfied itself as to the correctness and sufficiency of the Contract Price.
- 6.1.3 The Contractor acknowledges and hereby accepts the risk of inadequacy, mistake or error in or relating to any of the matters set forth in Clause 6.1.1 above and hereby acknowledges and agrees that the Employer shall not be liable for the same in any manner whatsoever to the Contractor, or any person claiming through or under any of them, and shall not lead to any adjustment of Contract Price or Scheduled Completion Date.
- 6.1.4 The Parties agree that any mistake or error in or relating to any of the matters set forth in Clause 6.1.1 above shall not vitiate this Agreement, or render it voidable.
- 6.1.5 In the event that either Party becomes aware of any mistake or error relating to any of the matters set forth in Clause 6.1.1 above, that Party shall immediately notify the other Party, specifying the mistake or error.
- 6.1.6 Except as otherwise provided in this Agreement, all risks relating to the Project shall be borne by the Contractor; and the Employer shall not be liable in any manner for such risks or the consequences thereof.

Part III – Construction and Maintenance

ARTICLE-7

PERFORMANCE SECURITY

7.1 Performance Security

- 7.1.1 The Contractor shall, for the performance of its obligations hereunder during the Construction Period, provide to the Employer, within 28 (twenty eight) days of the date of LOA, an irrevocable and unconditional guarantee from a Scheduled / Nationalized Bank in the form set forth in Schedule-G (the “Performance Security”) for an amount equal to 10% (ten percent) of the Contract Price. The Contractor has the option of submitting two guarantees of equal amount towards Performance Security totalling to 10% (ten percent) of the Contract Price. The Performance Security shall be valid until 60 (sixty) days after the Defects Liability Period. Until such time the Performance Security is provided by the Contractor pursuant hereto and the same comes into effect, the Bid Security shall remain in force and effect, and upon such provision of the Performance Security, the Employer shall release the Bid Security to the Contractor.
- 7.1.2 Notwithstanding anything to the contrary contained in this Agreement, the Parties agree that in the event of failure of the Contractor to provide the Performance Security in accordance with the provisions of Clause 7.1.1 and within the time specified therein or such extended period as may be provided by the Employer, in accordance with the provisions of Clause 7.1.3, the Employer may encash the Bid Security and appropriate the proceeds thereof as Damages, and thereupon all rights, privileges, claims and entitlements of the Contractor under or arising out of this Agreement shall be deemed to have been waived by, and to have ceased with the concurrence of the Contractor, and this Agreement shall be deemed to have been terminated by mutual agreement of the Parties.
- 7.1.3 In the event the Contractor fails to provide the Performance Security within 28 (twenty eight) days of LOA, it may seek extension of time for a period not exceeding 20 (Twenty) days on payment of Damages for such extended period in a sum calculated at the rate of 0.05% (zero point zero five per cent) of the Contract Price for each day until the Performance Security is provided.

7.2 Extension of Performance Security – Deleted

7.3 Appropriation of Performance Security

- 7.3.1 Upon occurrence of a Contractor’s Default, the Employer shall, without prejudice to its other rights and remedies hereunder or in law, be entitled to encash and appropriate the relevant amounts from the Performance Security as Damages for such Contractor’s Default.
- 7.3.2 Upon such encashment and appropriation from the Performance Security, the Contractor shall, within 30 (thirty) days thereof, replenish, in case of partial appropriation, to its original level the Performance Security, and in case of appropriation of the entire Performance Security provide a fresh Performance Security, as the case may be, and the Contractor shall, within the time so granted, replenish or furnish fresh Performance Security as aforesaid failing which the Employer shall be entitled to terminate the Agreement in accordance with Article 23. Upon replenishment or furnishing of a fresh Performance Security, as the case may be, as aforesaid, the Contractor shall be entitled to an additional Cure Period of 30 (thirty) days for remedying the Contractor’s Default, and in the event of the Contractor not curing its default within such Cure Period, the Employer

shall be entitled to encash and appropriate such Performance Security as Damages, and to terminate this Agreement in accordance with Article 23.

7.4 Release of Performance Security

The Employer shall return the Performance Security to the Contractor within 60 (sixty) days of the later of the expiry of the Defects Liability Period under this Agreement. Notwithstanding the aforesaid, the Parties agree that the Employer shall not be obliged to release the Performance Security until all Defects identified during the Defects Liability Period have been rectified. In case the Contractor has provided two bank guarantees in accordance with Clause 7.1.1, the Employer shall return one of the guarantees to the Contractor 2 (two) years after completion of construction

7.5 Retention Money

- 7.5.1 From every payment for Works due to the Contractor in accordance with the provisions of Clause 19.5, the Employer shall deduct 6% (six per cent) thereof as guarantee money for performance of the obligations of the Contractor during the Construction Period (the "Retention Money") subject to the condition that the maximum amount of Retention Money shall not exceed 5% (five per cent) of the Contract Price.
- 7.5.2 Upon occurrence of a Contractor's Default, the Employer shall, without prejudice to its other rights and remedies hereunder or in law, be entitled to appropriate the relevant amounts from the Retention Money as Damages for such Contractor's Default.
- 7.5.3 The Contractor may, upon furnishing an irrevocable and unconditional bank guarantee substantially in the form provided at Annex-II of Schedule-G, require the Employer to refund the Retention Money deducted by the Employer under the provisions of Clause 7.5.1. Provided that the refund hereunder shall be made in tranches of not less than 1% (one per cent) of the Contract Price.
- 7.5.4 Within 15 (fifteen) days of the date of issue of the Completion Certificate, the Employer shall discharge the bank guarantees furnished by the Contractor under the provisions of Clause 7.5.3 and refund the balance of Retention Money remaining with the Employer after adjusting the amounts appropriated under the provisions of Clause 7.5.2 and the amounts refunded under the provisions of Clause 7.5.3.
- 7.5.5 The Parties agree that in the event of Termination of this Agreement, the Retention Money and the bank guarantees specified in this Clause 7.5 shall be treated as if they are Performance Security and shall be reckoned as such for the purposes of Termination Payment under Clause 23.6.

ARTICLE-8

RIGHT OF WAY

8.1 The Site

The site of the Terminal (the "Site") shall comprise the site described in Schedule-A in respect of which the Right of Way shall be provided by the Employer to the Contractor. The Employer shall be responsible for:

- a) Acquiring and providing Right of Way on the Site in accordance with the alignment finalised by the Employer, free from all encroachments and encumbrances, and free access thereto for the execution of this Agreement; and
- b) .

8.2 Procurement of the Site

- 8.2.1 The Employer Representative and the Contractor shall, within 15 (fifteen) days of the date of this Agreement, inspect the Site and prepare a memorandum containing an inventory of the Site including the vacant and unencumbered land, buildings, structures, road works, trees and any other immovable property on or attached to the Site. Subject to the provisions of Clause 8.2.3, such memorandum shall have appended thereto an appendix (the "Appendix") specifying in reasonable detail those parts of the Site to which vacant access and Right of Way has not been given to the Contractor. Signing of the memorandum, in two counterparts (each of which shall constitute an original), by the authorised representatives of the Parties shall be deemed to constitute a valid evidence of giving the Right of Way to the Contractor for discharging its obligations under and in accordance with the provisions of this Agreement and for no other purpose whatsoever.

Whenever the Employer is ready to hand over any part or parts of the Site included in the Appendix, it shall inform the Contractor, by notice, the proposed date and time such of handing over. The Employer Representative and the Contractor shall, on the date so notified, inspect the specified parts of the Site, and prepare a memorandum containing an inventory of the vacant and unencumbered land, buildings, structures, road works, trees and any other immovable property on or attached to the Site so handed over. Signing of the memorandum, in two counterparts (each of which shall constitute an original), by the authorised representatives of the Parties shall be deemed to constitute a valid evidence of giving the relevant Right of Way to the Contractor.

- 8.2.2 The Employer shall provide the Right of Way to the Contractor in respect of all land included in the Appendix by the date specified in Schedule-A for those parts of the Site referred to therein, or no later than 90 (ninety) days of the Appointed Date for those parts of the Site which have not been specified in Schedule-A, and in the event of delay for any reason other than Force Majeure or breach of this Agreement by the Contractor, it shall pay to the Contractor, Damages in a sum calculated in accordance with Clause 8.3.
- 8.2.3 Notwithstanding anything to the contrary contained in this Clause 8.2, the Employer shall specify the parts of the Site, if any, for which Right of Way shall be provided to the Contractor on the dates specified in Schedule-A. Such parts shall also be included in the Appendix prepared in pursuance of Clause 8.2.1. For the avoidance of doubt, the Parties expressly agree that the Damages specified hereunder and the Time Extension specified in Clause 10.5 shall be restricted only to failure of the Employer to provide the Right of Way for and in respect of the width of the roadway and its embankment.

8.3 Damages for delay in handing over the Site

8.3.1 Notwithstanding anything to the contrary contained in this Agreement, the Contractor expressly agrees that Works on all parts of the Site for which Right of Way is granted within 90 (ninety) days of the Appointed Date, or with respect to the parts of the Site provided in Schedule-A, no later than the date(s) specified therein as per Schedule A, as the case may be, shall be completed before the Scheduled Completion Date and shall not qualify for any Time Extension under the provisions of Clause 8.3.1.

8.3.2 Notwithstanding anything to the contrary contained in this Agreement, the Employer may at any time withdraw any Works forming part of this Agreement, subject to such Works not exceeding an aggregate value, such value to be determined in accordance with Article-19, equal to 10(ten) percent of the Contract Price.

Provided that if any Works cannot be undertaken within the municipal limits of a town or within any area falling in a reserved forest or wildlife sanctuary, as the case may be, because the requisite clearances or approvals for commencing construction of Works therein have not been given within 240 (two hundred and forty) days of the Appointed date, the affected Works shall be deemed to be withdrawn under the provisions of this Clause 8.3.3 unless the Parties agree to the contrary, and such Works shall not be computed for the purposes of the aforesaid ceiling of 10% (ten per cent) hereunder.

8.3.3 In the event of withdrawal of Works under Clause 8.3.3, the Contract Price shall be reduced by an amount equal to 90 (ninety) per cent of the value of the Works withdrawn and the Contractor shall not be entitled to any other compensation or Damages for the withdrawal of Works.

Provided that if any Works are withdrawn after commencement of the Construction of such works, the Employer shall pay to the Contractor 110% (one hundred and ten per cent) of the fair value of the work done, as assessed by the Employer's Engineer in accordance with Article 13.2.3 (a).

8.4 Site to be free from Encumbrances

Subject to the provisions of Clause 8.2, the Site shall be made available by the Employer to the Contractor pursuant hereto free from all Encumbrances and occupations and without the Contractor being required to make any payment to the Employer on account of any costs, compensation, expenses and charges for the acquisition and use of such Site for the duration of the Project Completion Schedule. For the avoidance of doubt, it is agreed that the existing rights of way, easements, privileges, liberties and appurtenances to the Site shall not be deemed to be Encumbrances. It is further agreed that, unless otherwise specified in this Agreement, the Contractor accepts and undertakes to bear any and all risks arising out of the inadequacy or physical condition of the Site.

8.5 Protection of Site from encroachments

On and after signing the memorandum and/or subsequent memorandum referred to in Clause 8.2.1, and until the issue of the Completion Certificate, the Contractor shall maintain a round-the-clock vigil over the Site and shall ensure and procure that no encroachment thereon takes place. During the Construction Period, the Contractor shall protect the Site from any and all occupations, encroachments or Encumbrances, and shall not place or create nor permit any Sub-contractor or other person claiming through or under the Agreement to place or create any Encumbrance or security threat over all or any part of the Site or the Project Assets, or on any rights of the Contractor therein or under this Agreement, save and except as otherwise expressly set forth in this Agreement.

In the event of any encroachment or occupation on any part of the Site, the Contractor shall report such encroachment or occupation forthwith to the Employer and undertake its removal at its own cost and expenses.

8.6 Special / temporary Right of Way

The Contractor shall bear all costs and charges for any special or temporary right of way required by it in connection with access to the Site. The Contractor shall obtain at its cost such facilities on or outside the Site as may be required by it for the purposes of the Terminal and the performance of its obligations under this Agreement.

8.7 Access to the Employer and the Employer's Engineer

- 8.7.1 The Right of Way given to the Contractor hereunder shall always be subject to the right of access of the Employer and the Employer's Engineer and their employees and agents for inspection, viewing and exercise of their rights and performance of their obligations under this Agreement.
- 8.7.2 The Contractor shall ensure, subject to all relevant safety procedures, that the Employer has un-restricted access to the Site during any emergency situation, as decided by the Employer's Engineer.

8.8 Geological and archaeological finds

It is expressly agreed that mining, geological or archaeological rights do not form part of this Agreement with the Contractor for the Works, and the Contractor hereby acknowledges that it shall not have any mining rights or interest in the underlying minerals, fossils, antiquities, structures or other remnants or things either of particular geological or archaeological interest and that such rights, interest and property on or under the Site shall vest in and belong to the Employer or the concerned Government Instrumentality. The Contractor shall take all reasonable precautions to prevent its workmen or any other person from removing or damaging such interest or property and shall inform the Employer forthwith of the discovery thereof and comply with such instructions as the concerned Government Instrumentality may reasonably give for the removal of such property. For the avoidance of doubt, it is agreed that any reasonable expenses incurred by the Contractor hereunder shall be reimbursed by the Employer. It is also agreed that the Employer shall procure that the instructions hereunder are issued by the concerned Government Instrumentality within a reasonable period.

ARTICLE-9

UTILITIES AND TREES

9.1 Existing Utilities and Roads

Notwithstanding anything to the contrary contained herein, the Contractor shall ensure that the respective entities owning the existing roads, right of way, level crossings, structures, or utilities on, under or above the Site are enabled by it to keep them in continuous satisfactory use, if necessary, by providing suitable temporary diversions with the Employer of the controlling body of that road, right of way or utility.

9.2 Shifting of Obstructing Utilities

The Contractor shall, in accordance with Applicable Laws and with assistance of the Employer, shift any utility (including electric lines, water pipes, telephone cables etc.) to an appropriate location or alignment, if such utility or obstruction adversely affects the execution of Works or Maintenance of the terminal in accordance with this Agreement. The Contractor shall engage registered contractors of concerned utility Agency for such shifting. For the purpose contractors enlisted as class A or B shall be employed. The actual cost of such shifting, based on executed BOQ basis on rates estimated and corrected by the utility agency, less supervision charges of Agency plus 10% towards Contractor's overhead shall be paid by the Employer to the Contractor separately in addition to the Contract Price. However, the Employer will assist in obtaining required permissions for such shifting from the concerned utility Agency including submission of application on Employer name. The works shall be carried out in close coordination with utility agency and all precaution / conditions stipulated by the agency shall be diligently followed.

9.3 New Utilities

- 9.3.1 The Contractor shall allow, subject to such conditions as the Employer may specify, access to, and use of the Site for laying telephone lines, water pipes, electric cables or other public utilities. Where such access or use causes any financial loss to the Contractor, it may require the user of the Site to pay compensation or damages as per Applicable Laws. For the avoidance of doubt, it is agreed that use of the Site under this Clause 9.3 shall not in any manner relieve the Contractor of its obligation to construct and maintain the Terminal in accordance with this Agreement and any damage caused by such use shall be restored forthwith at the cost of the Employer.
- 9.3.2 The Employer may, by notice, require the Contractor to connect any adjoining road to the Terminal, and the connecting portion thereof falling within the Site shall be constructed by the Contractor at the Employer's cost in accordance with Article 10.
- 9.3.3 The Employer may by notice require the Contractor to connect, through a paved road, any adjoining service station, hotel, motel or any other public facility or amenity to the Terminal, whereupon the connecting portion thereof that falls within the Site shall be constructed by the Contractor on payment of the cost. The cost to be paid by the Employer to the Contractor shall be determined by the Employer's Engineer. For the avoidance of doubt, in the event such road is to be constructed for the benefit of any entity, the Employer may require such entity to make an advance deposit with the Contractor or the Employer, as the case may be, of an amount equal to the estimated cost as determined by the Employer's Engineer and such advance shall be adjusted against the cost of construction as determined by the Employer's Engineer hereunder.

- 9.3.4 In the event the construction of any Works is affected by a new utility or works undertaken in accordance with this Clause 9.3, the Contractor shall be entitled to a reasonable Time Extension as determined by the Employer's Engineer.

9.4 Felling of Trees

The Employer shall assist the Contractor in obtaining the Applicable Permits for felling and disposal of trees to be identified by the Contractor for this purpose if and only if such trees cause a Material Adverse Effect on the construction or maintenance of the Terminal. The cost of such felling and disposal shall be included in the Contract price. The Parties hereto agree that the felled trees shall be deemed to be owned by the Contractor after depositing the required amount to the Employer at the rates estimated by the Forest Department, **Government of Bihar** and shall be disposed in such manner and subject to such conditions of the concerned Department. However, the Employer will assist in obtaining applicable permits for felling of trees.

ARTICLE-10

DESIGN AND CONSTRUCTION OF THE TERMINAL

10.1 Obligations prior to Commencement of Works

10.1.1 Within 20 (twenty) days of the Appointed Date, the Contractor shall:

- a) Appoint its representative, duly authorised to deal with the Employer in respect of all matters under or arising out of or relating to this Agreement;
- b) Appoint a design director (the “Design Director”) who will head the Contractor’s design unit and shall be responsible for surveys, investigations, collection of data, and preparation of preliminary and detailed designs;
- c) Undertake and perform all such acts, deeds and things as may be necessary or required before commencement of Works under and in accordance with this Agreement, the Applicable Laws and Applicable Permits; and
- d) Make its own arrangements for quarrying of materials needed for the Terminal under and in accordance with the Applicable Laws and Applicable Permits.
- e) Prepare construction zone and Camp Site safety checklist.
- f) Prepare updated Contractor’s Environmental Management Plan (CEMP) including the action plan and checklist, and ensuring that the CEMP comprehensively cover all items and intents of the EMP prepared by IWAI.

10.1.2 The Employer shall, within 15 (fifteen) days of the date of this Agreement, appoint an engineer (the “Employer’s Engineer”) to discharge the functions and duties specified in this Agreement, and shall notify to the Contractor the name, address and the date of appointment of the Employer’s Engineer forthwith.

10.1.3 Within 30 (thirty) days of the Appointed Date, the Contractor shall submit to the Employer and the Employer’s Engineer a programme (the “Programme”) for the Works, developed using networking techniques (like Ms-Project / Primavera) giving the following details:

Part-I Contractor’s organisation for the Project, the general methods and arrangements for design and construction, environmental management plan, Quality Assurance Plan including design quality plan, traffic management and safety plan covering safety of users and workers during construction, Contractor’s key personnel and equipment.

Part-II Programme for completion of all stages of construction given in Schedule-B and Project Milestones of the Works as specified in Project Completion Schedule set forth in Schedule-J. The Programme shall include:

- ✓ The order in which the Contractor intends to carry out the Works, including the anticipated timing of design and stages of Works;
- ✓ The periods for reviews under Clause 10.2;
- ✓ The sequence and timing of inspections and tests specified in this Agreement.
- ✓ The Contractor shall submit a revised programme whenever the previous programme is inconsistent with the actual progress or with the Contractor’s obligations

Part-III Monthly Cash Flow Forecast

- 10.1.4 The Contractor shall compute, on the basis of the Drawings prepared in accordance with Clause 10.2.4, and provide to the Employer's Engineer, the length, area and numbers, as the case may be, in respect of the various items of work specified in Schedule-B and comprising the Scope of the Project. The Parties expressly agree that these details shall form the basis for estimating the interim payments for the Works in accordance with the provisions of Clause 19.3. For the avoidance of doubt, the sum of payments to be computed in respect of all the items of work shall not exceed the Contract Price, as may be adjusted in accordance with the provisions of this Agreement.
- 10.1.5 Within 20 (twenty) days of the appointment date, the Contractor shall appoint a safety consultant (the "Safety Consultant") to carry out safety audit at the design stage of the Terminal in accordance with the Applicable Laws and Good Industry Practice. The Safety Consultant shall be appointed after proposing to the Employer a panel of three names of qualified and experienced firms from whom the Employer may choose one to be the Safety Consultant. Provided, however, that if the panel is not acceptable to the Employer and the reasons for the same are furnished to the Contractor, the Contractor shall propose to the Employer a revised panel of three names for obtaining the consent of the Employer. The Contractor shall also obtain the consent of the Employer for the key personnel of the Safety Consultant who shall have adequate experience and qualifications in safety audit of the highway projects, port and terminal projects. The Employer shall, within 15 (fifteen) days of receiving a proposal from the Contractor hereunder, convey its decision, with reasons, to the Contractor, and if no such decision is conveyed within the said period, the Contractor may proceed with engaging of the Safety Consultant.
- 10.1.6 The safety audit pursuant to Clause 10.1.5 shall be carried out by the Safety Consultant in respect of all such design details that have a bearing on safety of workers (during construction and operation) users as well as pedestrians and animals involved in or associated with accidents. The recommendations of the Safety Consultant shall be incorporated in the design of the Terminal and the Contractor shall forward to the Employer's Engineer a certificate to this effect together with the recommendations of the Safety Consultant. In the event that any works required by the Safety Consultant shall fall beyond the scope of Schedule-B, Schedule-C or Volume-II of Bidding Document, the Contractor shall make a report thereon and seek the instructions of the Employer for Change in Scope. For the avoidance of doubt, the Safety Consultant to be engaged by the Contractor shall be independent of the design and implementation team of the Contractor.

10.2 Design and Drawings

- 10.2.1 Design and Drawings shall be developed in conformity with the Specifications & Standards set forth in Volume-II of Bidding Document. In the event, the Contractor requires any relaxation in design standards due to restricted Right of Way in any section, the alternative design criteria for such section shall be provided for review of the Employer's Engineer.
- 10.2.2 Within 20 (twenty) days of appointment date, the Contractor shall appoint a proof check consultant (the "Proof Consultant") after proposing to the Employer a panel of three names of qualified and experienced firms from whom the Employer may choose one to be the Proof Consultant. Provided, however, that if the panel is not acceptable to the Employer and the reasons for the same are furnished to the Contractor, the Contractor shall propose to the Employer a revised panel of three names for obtaining the consent of the Employer. The Contractor shall also obtain the consent of the Employer for two key personnel of the Proof Consultant who shall have adequate experience and qualifications in Harbour civil works. The Employer shall, within 15 (fifteen) days of receiving a proposal from the Contractor hereunder, convey its decision, with reasons, to the Contractor, and if

no such decision is conveyed within the said period, the Contractor may proceed with engaging of the Proof Consultant.

10.2.3 The Proof Consultant shall:

- a) Evolve a systems approach with the Design Director so as to minimise the time required for final designs and construction drawings; and
- b) Proof check the detailed calculations, drawings and designs, which have been approved by the Design Director.

10.2.4 In respect of the Contractor's obligations with respect to the design and Drawings of the Terminal as set forth in Schedule-I, the following shall apply:

- a) The Contractor shall prepare and submit, with reasonable promptness and in such sequence as is consistent with the Project Completion Schedule, three copies each of the design and Drawings, duly certified by the Proof Consultant, to the Employer's Engineer for review. Provided, however, that in respect of Major Bridges and Structures, the Employer's Engineer may require additional drawings for its review in accordance with Good Industry Practice.
- b) By submitting the Drawings for review to the Employer's Engineer, the Contractor shall be deemed to have represented that it has determined and verified that the design and engineering, including field construction criteria related thereto, are in conformity with the Scope of the Project, the Specifications and Standards and the Applicable Laws;
- c) Within 15 (fifteen) days of the receipt of the Drawings, the Employer's Engineer shall review the same and convey its observations to the Contractor with particular reference to their conformity or otherwise with the Scope of the Project and the Specifications and Standards. The Contractor shall not be obliged to await the observations of the Employer's Engineer on the Drawings submitted pursuant hereto beyond the said period of 15 (fifteen) days and may begin or continue Works at its own discretion and risk; Provided, however that in case of a Major Bridge or Structure, the aforesaid period of 15 (fifteen) days may be extended upto 30 (thirty) days;
- d) If the aforesaid observations of the Employer's Engineer indicate that the Drawings are not in conformity with the Scope of the Project or the Specifications & Standards, such Drawings shall be revised by the Contractor in conformity with the provisions of this Agreement and resubmitted to the Employer's Engineer for review. The Employer's Engineer shall give its observations, if any, within 10 (ten) days of receipt of the revised Drawings. In the event the Contractor fails to revise and resubmit such Drawings to the Employer's Engineer for review as aforesaid, the Employer's Engineer may withhold the payment for the affected works in accordance with the provisions of Clause 19.5.4. If the Contractor disputes any decision, direction or determination of the Employer's Engineer hereunder, the Dispute shall be resolved in accordance with the Dispute Resolution Procedure;
- e) No review and/or observation of the Employer's Engineer and/or its failure to review and/or convey its observations on any Drawings shall relieve the Contractor of its obligations and liabilities under this Agreement in any manner nor shall the Employer's Engineer or the Employer be liable for the same in any manner; and if errors, omissions, ambiguities, inconsistencies, inadequacies or other Defects are found in the Drawings, they and the construction works shall be corrected at the Contractor's cost, notwithstanding any review under this Article 10;

- f) The Contractor shall be responsible for delays in submitting the Drawing as set forth in Schedule-I caused by reason of delays in surveys and field investigations, and shall not be entitled to seek any relief in that regard from the Employer; and
 - g) The Contractor warrants that its designers, including any third parties engaged by it, shall have the required experience and capability in accordance with Good Industry Practice and it shall indemnify the Employer against any damage, expense, liability, loss or claim, which the Employer might incur, sustain or be subject to arising from any breach of the Contractor's design responsibility and/or warranty set out in this Clause.
- 10.2.5 Any cost or delay in construction arising from review by the Employer's Engineer shall be borne by the Contractor.
- 10.2.6 Works shall be executed in accordance with the Drawings provided by the Contractor in accordance with the provisions of this Clause 10.2 and the observations of the Employer's Engineer thereon as communicated pursuant to the provisions of Clause 10.2.4 (d). Such Drawings shall not be amended or altered without prior written notice to the Employer's Engineer. If a Party becomes aware of an error or defect of a technical nature in the design or Drawings, that Party shall promptly give notice to the other Party of such error or defect.
- 10.2.7 Within 90 (ninety) days of the Project Completion Date, the Contractor shall furnish to the Employer and the Employer's Engineer a complete set of as-built Drawings at scales 1:2500 horizontal and 1:200 vertical for road and other alignment and other appropriate scale for other items of work as approved by the Employer's Engineer in 2 (two) hardcopies in A 2 size sheet on polyester film of quality to be approved by the Employer's Engineer and soft copy in electronic format(CD/DVD-ROM) or in such other medium as may be acceptable to the Employer, reflecting the Terminal as actually designed, engineered and constructed, including an as-built survey illustrating the layout of the Terminal and setback lines, if any, of the buildings and structures forming part of Project Facilities. As-built drawings shall indicate position of the 119reas119t119e stones.

10.3 Construction of the Terminal

- 10.3.1 The Contractor shall construct the Terminal as specified in Schedule-B and Schedule-C, and in conformity with the Specifications and Standards set forth in Volume-II of Bidding Document. The Contractor shall be responsible for the correct positioning of all parts of the Works, and shall rectify any error in the positions, levels, dimensions or alignment of the Works. The scheduled completion period shall be 24 (Twenty Four) Months from the Appointed Date (the "Scheduled Completion Period") and the Contractor agrees and undertakes that the construction shall be completed on or before the Scheduled Completion Period, including any extension thereof.
- 10.3.2 The Contractor shall construct the Terminal in accordance with the Project Completion Schedule set forth in Schedule-J. In the event that the Contractor fails to achieve any Project Milestone or the Scheduled Completion Date within a period of 30 (thirty) days from the date set forth in Schedule-J, unless such failure has occurred due to Force Majeure or for reasons solely attributable to the Employer, it shall pay Damages to the Employer of a sum calculated at the rate of 0.05% (zero point zero five percent) of the Contract Price for delay of each day reckoned from the date specified in Schedule-J and until such Project Milestone is achieved or the Works are completed; provided that if the period for any or all Project Milestones or the Scheduled Completion Date is extended in accordance with the provisions of this Agreement, the dates set forth in Schedule-J shall be deemed to be modified accordingly and the provisions of this Agreement shall apply as if

Schedule-J has been amended as above; provided further that in the event the Works are completed within or before the Scheduled Completion Date including any Time Extension, applicable for that work or section, the Damages paid under this Clause 10.3.2 shall be refunded by the Employer to the Contractor, but without any interest thereon. For the avoidance of doubt, it is agreed that recovery of Damages under this Clause 10.3.2 shall be without prejudice to the rights of the Employer under this Agreement including the right of Termination thereof. The Parties further agree that Time Extension hereunder shall only be reckoned for and in respect of the affected works as specified in Clause 10.5.2.

- 10.3.3 The Employer shall notify the Contractor of its decision to impose Damages in pursuance with the provisions of this Clause 10.3. Provided that no deduction on account of Damages shall be effected by the Employer without notifying the Contractor of its decision to impose the Damages, and taking into consideration the representation, if any, made by the Contractor within 20 (twenty) days of such notice. **The Parties expressly agree that the total amount of Damages under Clause 10.3.2 shall not exceed 10% (ten percent) of the Contract Price.**

10.4 Maintenance during Construction Period

During the Construction Period, the Contractor shall maintain, at its cost, the existing lane(s) of the terminal so that the traffic worthiness and safety thereof are at no time materially inferior as compared to their condition 10 (ten) days prior to the date of this Agreement, and shall undertake the necessary repair and maintenance works for this purpose; provided that the Contractor may, at its cost, interrupt and divert the flow of traffic if such interruption and diversion is necessary for the efficient progress of Works and conforms to Good Industry Practice; provided further that such interruption and diversion shall be undertaken by the Contractor only with the prior written approval of the Employer's Engineer which approval shall not be unreasonably withheld. For the avoidance of doubt, it is agreed that the Contractor shall at all times be responsible for ensuring safe operation of the terminal.

10.5 Extension of time for completion

- 10.5.1 Without prejudice to any other provision of this Agreement for and in respect of extension of time, the Contractor shall be entitled to extension of time in the Project Completion Schedule (the "Time Extension") to the extent that completion of any Project Milestone is or will be delayed by any of the following, namely:
- a) Delay in providing the Right of Way, environmental clearances, specified in Clause 4.1.4;
 - b) Change of Scope (unless an adjustment to the Scheduled Completion Date has been agreed under Article 13);
 - c) Occurrence of a Force Majeure Event;
 - d) Any delay, impediment or prevention caused by or attributable to the Employer, the Employer's personnel or the Employer's other contractors if any on the Site; and
 - e) Any other cause or delay which entitles the Contractor to Time Extension in accordance with the provisions of this Agreement.
- 10.5.2 The Contractor shall, no later than 15 (fifteen) business days from the occurrence of an event or circumstance specified in Clause 10.5.1, inform the Employer's Engineer by notice in writing, with a copy to the Employer, stating in reasonable detail with supporting

particulars, the event or circumstances giving rise to the claim for Time Extension in accordance with the provisions of this Agreement. Provided that the period of 15 (fifteen) business days shall be calculated from the date on which the Contractor became aware, or should have become aware, of the occurrence of such an event or circumstance.

Provided further that notwithstanding anything to the contrary contained in this Agreement, Time Extension shall be due and applicable only for the Works which are affected by the aforesaid events or circumstances and shall not in any manner affect the Project Completion Schedule for and in respect of the Works which are not affected hereunder.

- 10.5.3 In the event of the failure of the Contractor to issue to the Employer's Engineer a notice in accordance with the provisions of Clause 10.5.2 within the time specified therein, the Contractor shall not be entitled to any Time Extension and shall forfeit its right for any such claims in future. For the avoidance of doubt, in the event of failure of the Contractor to issue notice as specified in this clause 10.5.3, the Employer shall be discharged from all liability in connection with the claim.
- 10.5.4 The Employer's Engineer shall, on receipt of the claim in accordance with the provisions of Clause 10.5.2, examine the claim expeditiously within the time frame specified herein. In the event the Employer's Engineer requires any clarifications to examine the claim, the Employer's Engineer shall seek the same within 15 (fifteen) days from the date of receiving the claim. The Contractor shall, on receipt of the communication of the Employer's Engineer requesting for clarification, furnish the same to the Employer's Engineer within 10 (ten) days thereof. The Employer's Engineer shall, within a period of 60 (sixty) days from the date of receipt of such clarifications, forward in writing to the Contractor its determination of Time Extension.

Provided that when determining each extension of time under this Clause 10.5, the Employer's Engineer shall review previous determinations and may increase, but shall not decrease, the total Time Extension.

- f) If the event or circumstance giving rise to the notice has a continuing effect:
- ✓ A fully detailed claim shall be considered as interim;
 - ✓ The Contractor shall, no later than 10 (ten) days after the close of each month, send further interim claims specifying the accumulated delay, the extension of time claimed, and such further particulars as the Employer's Engineer may reasonably require; and
 - ✓ The Contractor shall send a final claim within 30 (thirty) days after the effect of the event or the circumstance ceases.

Upon receipt of the claim hereunder, the Employer's Engineer shall examine the same in accordance with the provisions of Clause 10.5.4 within a period of 60 (sixty) days of the receipt thereof.

g) Incomplete Works

In the event the Contractor fails to complete the Works in accordance with the Project Completion Schedule, including any Time Extension granted under this Agreement, the Contractor shall endeavour to complete the balance work expeditiously and shall pay Damages to the Employer in accordance with the provisions of Clause 10.3.2 for delay of each day until the Works are completed in accordance with the provisions of this Agreement. Recovery of Damages under this Clause shall be without prejudice to the

rights of the Employer under this Agreement including the right to termination under Clause 23.1.

h) Maintenance Manual

No later than 60 (sixty) days prior to the Project Completion Date, the Contractor shall, in consultation with the Employer's Engineer, evolve a maintenance manual (the "Maintenance Manual") for the regular and preventive maintenance of the terminal in conformity with the Specifications and Standards, safety requirements and Good Industry Practice, and shall provide 5 (five) copies thereof to the Employer's Engineer. The Employer's Engineer shall review the Maintenance Manual within 15 (fifteen) days of its receipt and communicate its comments to the Contractor for necessary modifications, if any.

i) Reports of Unusual occurrence

The Contractor shall, during the Construction Period, prior to the close of each day, send to the Authority and the Authority's Engineer, by facsimile or e-mail, a report stating accidents and unusual occurrences on the Terminal relating to the safety and security of the Users and terminal. A monthly summary of such reports shall also be sent within 3 (three) business days of the closing of month. For the purposes of the terminal shall include:

- (a) accident, death or severe injury to any person;
- (b) damaged or dislodged fixed equipment;
- (c) flooding of terminal and
- (d) any other unusual occurrence.

ARTICLE-11

QUALITY ASSURANCE, MONITORING AND SUPERVISION

11.1 Quality of Materials and Workmanship

The Contractor shall ensure that the Construction, Materials and workmanship are in accordance with the requirements specified in this Agreement, Specifications and Standards and Good Industry Practice.

11.2 Quality Control System

11.2.1 The Contractor shall establish a quality control mechanism to ensure compliance with the provisions of this Agreement (the “Quality Assurance Plan” or “QAP”).

11.2.2 The Contractor shall, within 30 (thirty) days of the Appointed Date, submit to the Employer’s Engineer its Quality Assurance Plan which shall include the following:

- a) Organisation, duties and responsibilities, procedures, inspections and documentation;
- b) Quality control mechanism including sampling and testing of Materials, test frequencies, standards, acceptance criteria, testing facilities, reporting, recording and interpretation of test results, approvals, check list for site activities, and proforma for testing and calibration in accordance with the Specifications for civil works, relevant IRC specifications and Good Industry Practice; the EMP and
- c) Internal quality audit system.

The Employer’s Engineer shall convey its comments to the Contractor within a period of 21 (twenty-one) days of receipt of the QAP stating the modifications, if any, required, and the Contractor shall incorporate those in the QAP to the extent required for conforming with the provisions of this Clause 11.2.

11.2.3 The Contractor shall procure all documents, apparatus and instruments, fuel, consumables, water, electricity, labour, Materials, samples, and qualified personnel as are necessary for examining and testing the Project Assets and workmanship in accordance with the Quality Assurance Plan.

11.2.4 The cost of testing of Construction, Materials and workmanship under this Article 11 shall be borne by the Contractor.

11.3. Methodology

The Contractor shall, at least 15 (fifteen) days prior to the commencement of the construction, submit to the Employer’s Engineer for review the methodology proposed to be adopted for executing the Works, giving details of equipment to be deployed, traffic management and measures for ensuring safety. The Employer’s Engineer shall complete the review and convey its comments to the Contractor within a period of 10 (ten) days from the date of receipt of the proposed methodology from the Contractor.

11.4. Inspection and Technical Audit by the Employer

The Employer or any representative authorised by the Employer in this behalf may inspect and review the progress and quality of the construction of terminal and issue appropriate directions to the Employer’s Engineer and the Contractor for taking remedial action in the event the Works are not in accordance with the provisions of this Agreement.

11.5 External Technical Audit

At any time during construction, the Employer may appoint an external technical auditor to conduct an audit of the quality of the Works. The findings of the audit, to the extent accepted by the Employer, shall be notified to the Contractor and the Employer's Engineer for taking remedial action in accordance with this Agreement. The Contractor shall provide all assistance as may be required by the auditor in the conduct of its audit hereunder. Notwithstanding anything contained in this Clause 11.5, the external technical audit shall not affect any obligations of the Contractor or the Employer's Engineer under this Agreement.

11.6 Inspection of Construction Records

The Employer shall have the right to inspect the records of the Contractor relating to the Works.

11.6.1 Inspection and Audit by the World Bank

The World Bank and/or persons appointed by the World Bank shall have the right to inspect the Site and all accounts and records of the Contractor, its sub-contractors and sub-consultants relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the World Bank if requested by the World Bank. The Contractor's and its Subcontractors' and sub-consultants' attention is drawn to Clause 3.9 [Corrupt or Fraudulent Practices] which provides, inter alia, that acts intended to materially impede the exercise of the World Bank's inspection and audit rights provided under this Clause 11.6.1 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the World Bank's prevailing sanctions procedures).

11.7 Monthly Progress Reports

During the Construction Period, the Contractor shall, no later than 10 (ten) days after the close of each month, furnish to the Employer and the Employer's Engineer a monthly report on progress of the Works and shall promptly give such other relevant information as may be required by the Employer's Engineer.

11.8 Inspection

11.8.1 The Employer's Engineer and its authorized representative shall at all reasonable times:

- a) Have full access to all parts of the Site and to all places from which natural Materials are being obtained for use in the Works; and
- b) During production, manufacture and construction at the Site and at the place of production, be entitled to examine, inspect, measure and test the Materials and workmanship, and to check the progress of manufacture of Materials.

11.8.2 The Contractor shall give the Employer's Engineer and its authorised agents access, facilities and safety equipment for carrying out their obligations under this Agreement.

11.8.3 The Employer's Engineer shall submit a monthly inspection report (the "Inspection Report") to the Employer and the Contractor bringing out the results of inspections and the remedial action taken by the Contractor in respect of Defects or deficiencies. For the avoidance of doubt, such inspection or submission of Inspection Report by the Employer's Engineer shall not relieve or absolve the Contractor of its obligations and liabilities under this Agreement in any manner whatsoever.

11.9 Samples

The Contractor shall submit the following samples of Materials and relevant information to the Employer's Engineer for pre-construction review:

- a) Manufacturer's test reports and standard samples of manufactured Materials; and
- b) Samples of such other Materials as the Employer's Engineer may require.

11.10 Tests

11.10.1 For determining that the Works conform to the Specifications and Standards, the Employer's Engineer shall require the Contractor to carry out or cause to be carried out tests, at such time and frequency and in such manner as specified in this Agreement and in accordance with Good Industry Practice for quality assurance. The checks by the Employer's Engineer shall comprise of 100% (hundred percent) of all the quantity or number of tests prescribed for each category or type of test for quality control by the Contractor.

11.10.2 In the event that results of any tests conducted under this Clause 11.10 establish any Defects or deficiencies in the Works, the Contractor shall carry out remedial measures and furnish a report to the Employer's Engineer in this behalf. The Employer's Engineer shall require the Contractor to carry out or cause to be carried out tests to determine that such remedial measures have brought the Works into compliance with the Specifications and Standards, and the procedure shall be repeated until such Works conform to the Specifications and Standards. For the avoidance of doubt, the cost of such tests and remedial measures in pursuance thereof shall be solely borne by the Contractor.

11.11 Examination of Work before Covering-up

In respect of the work which the Employer's Engineer is entitled to examine, inspect, measure and/or test before it is covered up or put out of view or any part of the work is placed thereon, the Contractor shall give notice to the Employer's Engineer whenever any such work is ready and before it is covered up in the form of Request for Inspection (RFI). The Employer's Engineer shall then either carry out the examination, inspection or testing without unreasonable delay, or promptly give notice to the Contractor that the Employer's Engineer does not require to do so. Provided, however, that if any work is of a continuous nature where it is not possible or prudent to keep it uncovered or incomplete, the Contractor shall notify the schedule of carrying out such work to give sufficient opportunity, not being less than 3 (three) business days' notice, to the Employer's Engineer to conduct its inspection, measurement or test while the work is continuing. Provided further that in the event the Contractor receives no response from the Employer's Engineer within a period of 3 (three) business days from the date on which the Contractor's notice hereunder is delivered to the Employer's Engineer, the Contractor shall be entitled to assume that the Employer's Engineer would not undertake the said inspection.

11.12 Rejection

If, as a result of an examination, inspection, measurement or testing, any Plant, Materials, design or workmanship is found to be defective or otherwise not in accordance with the provisions of this Agreement, the Employer's Engineer shall reject the Plant, Materials, design or workmanship by giving notice to the Contractor, with reasons. The Contractor shall then promptly make good the Defect and ensure that the rejected item complies with the requirements of this Agreement.

If the Employer's Engineer requires the Plant, Materials, design or workmanship to be retested, the tests shall be repeated under the same terms and conditions, as applicable in each case. If the rejection and retesting cause the Employer to incur any additional costs, such cost shall be recoverable by the Employer from the Contractor; and may be deducted by the Employer from any monies due to be paid to the Contractor.

11.13 Remedial Work

11.13.1 Notwithstanding any previous test or certification, the Employer's Engineer may instruct the Contractor to:

- a) Remove from the Site and replace any Plant or Materials which are not in accordance with the provisions of this Agreement;
- b) Remove and re-execute any work which is not in accordance with the provisions of this Agreement and the Specification and Standards; and
- c) Execute any work which is urgently required for the safety of the terminal, whether because of an accident, unforeseeable event or otherwise; provided that in case of any work required on account of a Force Majeure Event, the provisions of Clause 21.6 shall apply.

11.13.2 If the Contractor fails to comply with the instructions issued by the Employer's Engineer under Clause 11.13.1, within the time specified in the Employer's Engineer's notice or as mutually agreed, the Employer's Engineer may advise the Employer to have the work executed by another agency. The cost so incurred by the Employer for undertaking such work shall, without prejudice to the rights of the Employer to recover Damages in accordance with the provisions of this Agreement, be recoverable from the Contractor and may be deducted by the Employer from any monies due to be paid to the Contractor.

11.14 Delays during Construction

Without prejudice to the provisions of Clause 10.3.2, in the event the Contractor does not achieve any of the Project Milestones or the Employer's Engineer shall have reasonably determined that the rate of progress of Works is such that Completion of the terminal is not likely to be achieved by the end of the Scheduled Completion Date, it shall notify the same to the Contractor, and the Contractor shall, within 15 (fifteen) days of such notice, by a communication inform the Employer's Engineer in reasonable detail about the steps it proposes to take to expedite progress and the period within which it shall achieve the Project Completion Date.

11.15 Quality Control Records and Documents

The Contractor shall hand over to the Employer's Engineer a copy of all its quality control records and documents before the Completion Certificate is issued pursuant to Clause 12.2.

11.16 Video Recording

During the Construction Period, the Contractor shall provide to the Employer for every calendar quarter, a video recording, which will be compiled into a 3 (three)-hour compact disc or digital video disc, as the case may be, covering the status and progress of Works in that quarter. The video recording shall be provided to the Employer no later than 15 (fifteen) days after the close of each quarter after the Appointed Date.

11.17 Suspension of Unsafe Construction Works

- 11.17.1 Upon recommendation of the Employer's Engineer to this effect, the Employer may by notice require the Contractor to suspend forthwith the whole or any part of the Works if, in the reasonable opinion of the Employer's Engineer, such work threatens the safety of the Users and pedestrians.
- 11.17.2 The Contractor shall, pursuant to the notice under Clause 11.17.1, suspend the Works or any part thereof for such time and in such manner as may be specified by the Employer and thereupon carry out remedial measures to secure the safety of suspended works, the Users and pedestrians. The Contractor may by notice require the Employer's Engineer to inspect such remedial measures forthwith and make a report to the Employer recommending whether or not the suspension hereunder may be revoked. Upon receiving the recommendations of the Employer's Engineer, the Employer shall either revoke such suspension or instruct the Contractor to carry out such other and further remedial measures as may be necessary in the reasonable opinion of the Employer, and the procedure set forth in this Clause 11.17 shall be repeated until the suspension hereunder is revoked.
- 11.17.3 Subject to the provisions of Clause 21.6, all reasonable costs incurred for maintaining and protecting the Works or part thereof during the period of suspension (the "Preservation Costs"), shall be borne by the Contractor; provided that if the suspension has occurred as a result of any breach of this Agreement by the Employer, the Preservation Costs shall be borne by the Employer.
- 11.17.4 If suspension of Works is for reasons not attributable to the Contractor, the Employer's Engineer shall determine any Time Extension to which the Contractor is reasonably entitled.

11.18 Protection of Environment

The Contractor shall ensure that during continuance of the contract, the Contractor and his Subcontractor(s) shall abide at all times by all existing enactments on environmental protection and rules made thereunder, regulations, latest notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may be passed or notification that may be issued in this respect in future by the State or Central Government or the local Employer. Salient features of some of the major laws that are applicable are given below:

The Water (Prevention and Control of Pollution) Act, 1974

This provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water. Pollution means such contamination of water or such alteration of the physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether directly or indirectly) as may, or is likely to, create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial, agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.

The Air (Prevention and Control of Pollution) Act, 1981

This provides for prevention, control and abatement of air pollution. 'Air Pollution' means the presence in the atmosphere of any 'air pollutant', which means any solid, liquid or gaseous substance (including noise) present in the atmosphere in such concentration as

may be or tend to be injurious to human beings or other living creatures or plants or property or environment.

The Environment (Protection) Act, 1986 and the Subordinate Rules and Regulations.

This provides for the protection and improvement of environment and for matters connected therewith, and the prevention of hazards to human beings, other living creatures, plants and property. 'Environment' includes water, air and land and the inter- relationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.

The Public Liability Insurance Act, 1991

This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substances and for matters connected herewith or incidental thereto. Hazardous substance means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act 1986, and exceeding such quantity as maybe specified by notification by the Central Government.

The Contractor shall take all reasonable steps to implement the environmental mitigation measures, Environmental Management Plan, in accordance with objective, procedures, and other provisions set forth therein and shall not take any action which would prevent or interfere with such implementation. Further, he shall adhere to all environmental requirements of the contract.

The reference to above mentioned Acts is only indicative.

The Contractor shall follow and implement the Environmental Management Plan given at Specification and also the updates if any.

The contractor shall develop Environmental Management Systems that covers all its operations and shall be certified to ISO 14001 within one year from the award of the contract.

The contractor shall develop Occupational Health & Safety Management Systems that covers all its activities / operations and shall be certified to OHSAS 18001 within one year from the award for contract.

11.19 Labour Laws

The Contractor and its Subcontractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of Government and Government Instrumentality and any other labour law (including rules), regulations, byelaws that may be passed or notification that may be issued under any labour law in future either by the Government and Government Instrumentality.

The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent Employer on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications / bye-laws / acts / rules / regulations including amendments, if any, on the part of the Contractor, the Employer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The Contractor is expected to be acquainted with all the latest applicable Laws, including those concerning safety at work.

11.20 Environment, Health & Safety (EHS) Standards

11.20.1 General

The contractor shall prepare & submit Environment, Health & Safety (EHS) Manual containing EHS procedures for all construction activities to prevent accidents and to monitor/correct violations of procedures through regular Safety meetings.

Towards this, the Contractor employs a well-qualified (relevant qualifications) and experienced Safety Engineer responsible for implementing and continuously communicating and driving the procedures throughout the labour force. The Contractor's Safety & Health Procedures applies to all contractor and its subcontractor employees and to all construction and maintenance activities on the job site.

11.20.2 Standards

The contractor and all subcontractors are to comply with the Client specific rules and procedures, the national legislation and codes and in particular the following standards;

IS: 3696 (Part I) -1966 Safety code for scaffolds and ladders: Part I Scaffolds

IS: 3696 (Part II)-1966 Safety code for scaffolds and ladders: Part II Ladders

IS: 3764-1966 Safety code for excavation work

IS: 4082-1977 Recommendations on stacking and storage of construction materials at site (first revision)

IS: 4130-1976 Safety code for demolition of building (first revision)

IS: 4912-1978 Safety requirements for floor and wall openings, railings and toe boards (first revision)

IS: 5121-1969 Safety code for piling and other deep foundations

IS: 5916-1970 Safety code constructions involving use of hot bituminous materials

IS: 7205-1974 Safety code for erection of structural steel work

IS: 7969-1975 Safety code for handling and storage of building materials

IS: 8989-1978 Safety code for erection of concrete framed structures

IS: 7293-1974 Safety code for working with construction machinery

IS: 10291-1982 Code of dress in Civil Engineering works, safety

IS: 875-1964 Code of practice for structural safety of buildings and loading standards

IS: 1905-1980 Code of practice for structural safety of buildings, masonry walls

IS: 10386-1983 General aspects Part 1 – 1983, Part 2 – 1982, Part 6 – 1983, Part 10 – 1983 Amenities, protective clothing and equipment, construction, storage, handling, detection and safety measures for gases, chemicals and flammable liquids

IS: 2925-1984 Safety helmet tests

IS: 5983-1980 Testing for Eye protectors

IS: 7524 (Part I)-1979 Safety goggles

IS:1179-1967 Welding helmets

IS: 5914-1970 Safety shoes

IS: 4770-1991 Safety gloves

IS: 12254-1993 Rubber/ PVC knee boots/ gum boots

Client specific requirements for compliance with OSHA standards.

11.20.3 Coordination:

The Site In-charge appointed by the contractor shall be totally responsible for compliance with the health and safety manual. The contractor must appoint a Safety Engineer and form a "contractor safety committee" along with safety representatives from its sub-contractors. This committee will be chaired by the Site In-charge and meet at least once a week to review status on EHS issues. It is expected that each contractor and sub-contractor will participate in Daily "Tool Box Talks" and other safety meeting to co-ordinate project work for the day across trades. The site in-charge must make suitable arrangements to ensure the effective co-ordination of the work of all its sub-contractors on site. Clear lines of

communication should be set up between each sub-contractor's Safety Engineer and Safety Engineer of the Contractor. Effective co-ordination will be enhanced by ensuring that 'Safety and Health' figures prominently on the agenda of regular project meetings, as well as Safety meetings. For better coordination on project related EHS issues, the safety meeting participants shall include all contractors' safety representatives along with Client's safety rep. Client's Safety Engineer shall convene this meeting and participants from all contractors' safety representatives will be mandatory. Minutes of this meeting shall be circulated to all concerned.

11.20.4 Monitoring:

Arrangements must be made for safety and health monitoring of the site on a regular basis. This will include, not only ensuring the safety issues associated with working at heights, excavations, working with energy sources, etc. but also environmental matters such as hazardous dust, fumes, noise etc. In all cases, the contractor's Site-In-charge shall ensure that daily site inspections are carried out by the contractor's Safety Engineer, more in depth inspection being done periodically by visiting safety advisor. It may be necessary for arrangements to be made for specialist occupational health and hygiene advice. The checklist for daily inspection is provided which must be included in the Behavior Observation Process (BOP).

11.20.5 Records:

The contractor should ensure that all statutory notification, examinations and inspections are carried out. Except for equipment used exclusively by individual contractors, all records should be kept & updated by the contractor's Site In-charge. This individual shall also keep track of all Safety statistics and send report to Engineer-in-Charge on periodic basis, as determined by Engineer-in-Charge.

11.20.6 Non Compliance with Safety and Health Provisions:

The compliance with Environmental Health and Safety provisions is of utmost importance to the Client. The contractors must note that the Client will take a serious view of any Safety non-compliance notices. The Client has a right to order stoppage of work till rectification is carried out to the satisfaction of the safety committee or safe arrangements are made for the execution of work and all stoppages on this account will be at the entire risk, costs and consequences of the contractor.

Disciplinary action:

Noncompliance of the Safety and Health Provisions will result in disciplinary action as per the procedure below:

1st time violation: Written warning

2nd time violation: Imposition of penalty as deemed fit by Engineer-in-Charge

3rd time violation: Removal from site

In the event of the offender bringing itself or others in direct life threatening situation or where he/she creates a large material damage, will result in immediate removal from site. Repeated violations by a contracting company shall lead to termination of contract and removal of contracting firm from the job site. Any losses incurred by the contracting company, whatsoever, shall be the responsibility of contracting company.

ARTICLE-12

COMPLETION CERTIFICATE

12.1 Tests on Completion

- 12.1.1 At least 30 (thirty) days prior to the likely completion of the terminal, or a Section thereof, the Contractor shall notify the Employer's Engineer of its intent to subject the Terminal or a Section thereof, to Tests. The date and time of each of the Tests shall be determined by the Employer's Engineer in consultation with the Contractor, and notified to the Employer who may designate its representative to witness the Tests. The Contractor shall either conduct the Tests as directed by the Employer's Engineer or provide such assistance as the Employer's Engineer may reasonably require for conducting the Tests. In the event of the Contractor and the Employer's Engineer failing to mutually agree on the dates for conducting the Tests, the Contractor shall fix the dates by giving not less than 10 (ten) days' notice to the Employer's Engineer.
- 12.1.2 All Tests shall be conducted in accordance with Schedule-K. The Employer's Engineer shall either conduct or observe, monitor and review the Tests conducted by the Contractor, as the case may be, and review the results of the Tests to determine compliance of the Terminal or a Section thereof, with Specifications and Standards and if it is reasonably anticipated or determined by the Employer's Engineer during the course of any Test that the performance of the Terminal or Section or any part thereof, does not meet the Specifications and Standards, it shall have the right to suspend or delay such Test and require the Contractor to remedy and rectify the Defect or deficiencies. Upon completion of each Test, the Employer's Engineer shall provide to the Contractor and the Employer copies of all Test data including detailed Test results. For the avoidance of doubt, it is expressly agreed that the Employer's Engineer may require the Contractor to carry out or cause to be carried out additional Tests, in accordance with Good Industry Practice, for determining the compliance of the Terminal or Section thereof with the Specifications and Standards.

12.2 Provisional Certificate

- 12.2.1 Subject to the provisions of Clause 12.2.5, upon completion of all Works forming part of the Terminal, save and except the Works for which Time Extension has been granted under Clause 10.5, the Employer's Engineer shall, at the request of the Contractor, issue a provisional certificate of completion substantially in the form set forth in Schedule-L (the "Provisional Certificate") if the Tests for and in respect of the completed Works are successful. The Provisional Certificate shall have appended thereto a list of outstanding items of work (the "Punch List") that need to be completed in accordance with the provisions of this Agreement. The Contractor undertakes to complete the minor outstanding items of works in respect of those Sections of the Terminal for which the Provisional Certificate has been issued, within a period of 30 (thirty) days of the date of Provisional Certificate, and those parts of the Works in respect of which Time Extension has been granted, within the extended period thereof. For the avoidance of doubt, the Parties agree that the Punch List shall include all Works for which Time Extension has been granted and shall also include any minor outstanding items of work forming part of the completed Sections if such works do not materially affect the use of the completed Sections for their intended purpose. The Parties further agree that Provisional Certificate shall not be issued if the completed Works cannot be safely and reliably placed in service of the Users thereof.

- 12.2.2 Upon issue of Provisional Certificate, the provisions of Articles 14 and 17 shall apply to the completed parts of the terminal and the property and ownership of all such completed Works shall vest in the Employer.
- 12.2.3 If the Employer's Engineer determines that the terminal or any completed part thereof does not conform to the provisions of this Agreement and cannot be safely and reliably placed in operation, it shall forthwith make a report in this behalf and send copies thereof to the Employer and the Contractor and withhold issuance of the Provisional Certificate until the Defects or deficiencies are rectified by the Contractor and Tests are successful in accordance with this Article 12.
- 12.2.4 Notwithstanding anything to the contrary contained in Clause 12.2.3, the Employer may, at any time after receiving a report from the Employer's Engineer under that Clause, direct the Employer's Engineer to issue a Provisional Certificate under Clause 12.2.1 and such direction shall be complied forthwith.
- 12.2.5 No Provisional Certificate shall be issued under the provisions of this Clause 12.2 until the Contractor has submitted valid claims for payment of at least 80% (eighty per cent) of the amount arrived at after reducing the lump sum price specified in Clause 19.1.1 by the amount attributable to works which have been withdrawn under the provisions of Clause 8.3.3.

12.3 Completion of Remaining Works

All items in the Punch List shall be completed by the Contractor in accordance with the provisions of this Agreement. For any delay in their completion other than for the reasons solely attributable to the Employer or due to Force Majeure, the Employer shall be entitled to recover Damages from the Contractor in accordance with the provisions of Clause 10.3.2 of this Agreement.

12.4 Completion Certificate

- 12.4.1 Upon completion of all Works, including the items specified in the Punch List, and the Employer's Engineer determining the Tests to be successful, it shall forthwith issue to the Contractor and the Employer a certificate substantially in the form set forth in Schedule-L (the "Completion Certificate").
- 12.4.2 Upon receiving the Completion Certificate, the Contractor shall remove its equipment, materials, debris and temporary works from the Site within a period of 30 (thirty) days thereof, failing which the Employer may remove or cause to be removed, such equipment, materials, debris and temporary works and recover from the Contractor an amount equal to 120% (one hundred and twenty per cent) of the actual cost of removal incurred by the Employer.
- 12.4.3 Without prejudice to the obligations of the Contractor specified in Articles 14 and 17, the property and ownership of all the completed Works forming part of the Terminal shall vest in the Employer.

12.5 Rescheduling of Tests

If the Employer's Engineer certifies to the Employer and the Contractor that it is unable to issue the Completion Certificate or Provisional Certificate, as the case may be, because of events or circumstances on account of which the Tests could not be held or had to be suspended, the Contractor shall be entitled to re-schedule the Tests and hold the same as soon as reasonably practicable.

ARTICLE-13 CHANGE OF SCOPE

13.1 Change of Scope

13.1.1 The Employer may, notwithstanding anything to the contrary contained in this Agreement, require the Contractor to make modifications/alterations to the Works ("Change of Scope") before the issue of the Completion Certificate either by giving an instruction or by requesting the Contractor to submit a proposal for Change of Scope involving additional cost or reduction in cost. Any such Change of Scope shall be made and valued in accordance with the provisions of this Article 13.

13.1.2 Change of Scope shall mean:

- a) Change in specifications of any item of Works;
- b) Omission of any work from the Scope of the Project except under Clause 8.3.3; provided that, subject to Clause 13.5, the Employer shall not omit any work under this Clause in order to get it executed by any other Employer; and / or
- c) Any additional work, Plant, Materials or services which are not included in the Scope of the Project, including any associated Tests on completion of construction.

13.1.3 If the Contractor determines at any time that a Change of Scope will, if adopted, (i) accelerate completion, (ii) reduce the cost to the Employer of executing, maintaining or operating the terminal, (iii) improve the efficiency or value to the Employer of the completed terminal, or (iv) otherwise be of benefit to the Employer, it shall prepare a proposal with relevant details at its own cost. The Contractor shall submit such proposal, supported with the relevant details and the amount of reduction in the Contract Price to the Employer through the Employer's Engineer to consider such Change of Scope. The Employer shall, within 15(fifteen) days of receipt of such proposal, either accept such Change of Scope with modifications, if any, and initiate proceedings therefore in accordance with this Article 13 or reject the proposal and inform the Contractor of its decision. For the avoidance of doubt, the Parties agree that the Contractor shall not undertake any Change of Scope without the express consent of the Employer, save and except any Works necessary for meeting any Emergency.

13.2 Procedure for Change of Scope

13.2.1 In the event of the Employer determining that a Change of Scope is necessary, it may direct the Employer's Engineer to issue to the Contractor a notice specifying in reasonable detail the works and services contemplated thereunder (the "Change of Scope Notice").

13.2.2 Upon receipt of a Change of Scope Notice, the Contractor shall, with due diligence, provide to the Employer and the Employer's Engineer such information as is necessary, together with preliminary documentation in support of:

- a) The impact, if any, which the Change of Scope is likely to have on the Project Completion Schedule if the works or services are required to be carried out during the Construction Period; and
- b) The options for implementing the proposed Change of Scope and the effect, if any, each such option would have on the costs and time thereof, including the following details:
 - i) Break down of the quantities, unit rates and cost for different items of work;
 - ii) Proposed design for the Change of Scope; and proposed modifications, if any, to the Project Completion Schedule of the terminal. For the avoidance of doubt, the Parties expressly agree that, subject to the provisions of

Clause 13.4.2, the Contract Price shall be increased or decreased, as the case may be, on account of Change of Scope.

13.2.3 The Contractor's quotation of costs for the Change of Scope shall be determined on the

following principles:

- a) the cost of work shall be derived on the basis of Civil Works Standard Data Book and the applicable schedule of rates for the relevant circle, as published by the respective State Government, i.e. PWD / HD and such rates shall be indexed with reference to the WPI once every year if current rates are not available, with the base being the month and year of the publication of the said schedule of rates; provided, however, that for any item not included in the schedule of rates, the prevailing market rates as determined by the Employer's Engineer shall apply, and for any item in respect of which Civil Works Standard Data Book does not provide the requisite details, the Employer's Engineer shall determine the rate in accordance with Good Industry Practice.
- 13.2.4 Upon reaching an agreement, the Employer shall issue an order (the "Change of Scope Order") requiring the Contractor to proceed with the performance thereof. In the event that the Parties are unable to agree, the Employer may:
- a) Issue a Change of Scope Order requiring the Contractor to proceed with the performance thereof at the rates and conditions approved by the Employer till the matter is resolved in accordance with Article 26; or
 - b) Proceed in accordance with Clause 13.5.
- 13.2.5 The provisions of this Agreement, insofar as they relate to Works and Tests, shall apply mutatis mutandis to the works undertaken by the Contractor under this Article 13.

13.3 Payment for Change of Scope

Payment for Change of Scope shall be made in accordance with the payment schedule specified in the Change of Scope Order.

13.4 Restrictions on Change of Scope

- 13.4.1 No Change of Scope shall be executed unless the Employer has issued the Change of Scope Order save and except any Works necessary for meeting any Emergency.
- 13.4.2 Unless the Parties mutually agree to the contrary, the total value of all Change of Scope Orders shall not exceed 10 (ten) per cent of the Contract Price.
- 13.4.3 Notwithstanding anything to the contrary in this Article 13, no change made necessary because of any default of the Contractor in the performance of its obligations under this Agreement shall be deemed to be Change of Scope, and shall not result in any adjustment of the Contract Price or the Project Completion Schedule.

13.5 Power of the Employer to undertake works

- 13.5.1 In the event the Parties are unable to agree to the proposed Change of Scope Orders in accordance with Clause 13.2, the Employer may, after giving notice to the Contractor and considering its reply thereto, award such works or services to any person on the basis of open competitive bidding from amongst bidders who are pre-qualified for undertaking the additional work; provided that the Contractor shall have the option of matching the first ranked bid in terms of the selection criteria, subject to payment of 2% (two per cent) of the bid amount to the Employer and thereupon securing the award of such works or services. For the avoidance of doubt, it is agreed that the Contractor shall be entitled to exercise such option only if it has participated in the bidding process and its bid does not exceed the first ranked bid by more than 10% (ten percent) thereof. It is also agreed that the Contractor shall provide assistance and cooperation to the person who undertakes the works or services hereunder, but shall not be responsible for rectification of any Defects and/ or maintenance of works carried out by other agencies.
- 13.5.2 The works undertaken in accordance with this Clause 13.5 shall conform to the Specifications and Standards and shall be carried out in a manner that minimises the disruption in operation of the Terminal. The provisions of this Agreement, insofar as they relate to Works and Tests, shall apply mutatis mutandis to the works carried out under this Clause 13.5.

ARTICLE-14

MAINTENANCE

REFER – SCHEDULE E

ARTICLE-15

SUPERVISION AND MONITORING DURING MAINTENANCE

REFER – SCHEDULE E

ARTICLE-16

TRAFFIC REGULATION

16.1 Traffic Regulation by the Contractor

- 16.1.1 The Contractor shall take all the required measures and make arrangements for the safety of Users during the construction and maintenance of the terminal or a Section thereof in accordance with the provisions of Standard Specifications. It shall provide, erect and maintain all such barricades, signs, markings, flags, and lights as may be required by Good Industry Practice for the safety of the traffic passing through the Section under construction.
- 16.1.2 All works shall be carried out in a manner creating least interference to traffic passing through the terminal or a Section thereof. The Contractor shall take prior approval of the Employer's Engineer for any proposed arrangement for traffic regulation during Construction, which approval shall not be unreasonably withheld.

ARTICLE-17

DEFECTS LIABILITY

17.1 Defects Liability Period

17.1.1 The Contractor shall be responsible for all the Defects and deficiencies, except usual wear and tear in the terminal or any Section thereof, till the expiry of a period of 1 (One) year commencing from the date of Provisional Certificate (the "Defects Liability Period"). Provided that the Defects Liability Period shall in no case be less than 12 (Twelve) months from the date of Completion Certificate for and in respect of works for which Time Extension was granted. Provided further that in the event no Provisional Certificate is issued, the Defects Liability Period shall commence from the date of the Completion Certificate.

17.1.2 Deleted

17.2 Remedying Defects

Save and except as provided in Clause 14.1.2, the Contractor shall repair or rectify all Defects and deficiencies observed by the Employer's Engineer during the Defects Liability Period within a period of 15 (fifteen) days from the date of notice issued by the Employer's Engineer in this behalf, or within such reasonable period as may be determined by the Employer's Engineer at the request of the Contractor, in accordance with Good Industry Practice.

17.3 Cost of Remedying Defects

For the avoidance of doubt, any repair or rectification undertaken in accordance with the provisions of Clause 17.2, including any additional testing, shall be carried out by the Contractor at its own risk and cost, to the extent that such rectification or repair is attributable to:

- a) The design of the Project;
- b) Plant, Materials or workmanship not being in accordance with this Agreement and the Specifications and Standards;
- c) Improper maintenance during construction of the terminal by the Contractor; and/ or
- d) Failure by the Contractor to comply with any other obligation under this Agreement.

17.4 Contractor's Failure to Rectify Defects

In the event that the Contractor fails to repair or rectify such Defect or deficiency within the period specified in Clause 17.2, the Employer shall be entitled to get the same repaired, rectified or remedied at the Contractor's cost so as to make the terminal conform to the Specifications and Standards and the provisions of this Agreement. All costs consequent thereon shall, after due consultation with the Employer and the Contractor, be determined by the Employer's Engineer. The cost so determined and an amount equal to twenty percent of the cost as Damages shall be recoverable by the Employer from the Contractor and may be deducted by the Employer from any monies due to the Contractor.

17.5 Contractor to Search Cause

- 17.5.1 The Employer's Engineer may instruct the Contractor to examine the cause of any Defect in the Works or part thereof before the expiry of the Defects Liability Period.
- 17.5.2 In the event any Defect identified under Clause 17.5.1 is attributable to the Contractor, the Contractor shall rectify such Defect within the period specified by the Employer's Engineer, and shall bear the cost of the examination and rectification of such Defect.
- 17.5.3 In the event such Defect is not attributable to the Contractor, the Employer's Engineer shall, after due consultation with the Employer and the Contractor, determine the costs incurred by the Contractor on such examination and notify the same to the Contractor, with a copy to the Employer, and the Contractor shall be entitled to payment of such costs by the Employer.

17.6 Extension of Defects Liability Period

The Defects Liability Period shall be deemed to be extended till the identified Defects under Clause 17.2 have been remedied.

17.7 Performance Certificate

- 17.7.1 Performance of the Contractor's obligations shall not be considered to have been completed until the Employer's Engineer has issued the Performance Certificate to the Contractor, stating the date on which the Contractor completed its obligations with regard to any remedial or other work required as a result of any defect in the Works, as identified under Clause 17.1, to the satisfaction of the Employer's Engineer.
- 17.7.2 The Employer's Engineer shall issue the Performance Certificate substantially in the format set forth in Schedule-S within 28 days after the latest of the expiry dates of the Defects Liability Period, or as soon thereafter as the Contractor has supplied all the Contractor's documents, completed and tested all the Works, including remedying any defects.

ARTICLE-18

EMPLOYER'S ENGINEER

18.1 Appointment of the Employer's Engineer

- 18.1.1 The Employer shall appoint a consulting engineering firm substantially in accordance with the selection criteria set forth in Schedule-N, to be the engineer under this Agreement (the "Employer's Engineer").
- 18.1.2 The appointment of the Employer's Engineer shall be made no later than 15 (fifteen) days from the date of this Agreement. The Employer shall notify the appointment or replacement of the Employer's Engineer to the Contractor. In the event of any replacement or termination of Employer's Engineer, the Employer shall appoint its representative to act as Employer's Engineer till such replacement.
- 18.1.3 The staff of the Employer's Engineer shall include suitably qualified engineers and other professionals who are competent to assist the Employer's Engineer to carry out its duties.

18.2 Duties and Powers of the Employer's Engineer

- 18.2.1 The Employer's Engineer shall perform the duties and exercise the Employer in accordance with the provisions of this Agreement, and substantially in accordance with the terms of reference ("Terms of Reference" or "TOR") set forth in Annex 1 of Schedule N, but subject to obtaining prior written approval of the Employer before determining:
 - a) Any Time Extension;
 - b) Any additional cost to be paid by the Employer to the Contractor;
 - c) The Termination Payment; or
 - d) Any other matter which is not specified in (a), (b) or (c) above and which creates an obligation or liability on either Party for a sum exceeding 0.2% of Contract price.
- 18.2.2 No decision or communication of the Employer's Engineer shall be effective or valid unless it is accompanied by an attested true copy of the approval of the Employer for and in respect of any matter specified in Clause 18.2.1.
- 18.2.3 The Employer's Engineer shall submit regular periodic reports, at least once every month, to the Employer in respect of its duties and functions under this Agreement. Such reports shall be submitted by the Employer's Engineer within 10 (ten) days of the beginning of every month. For the avoidance of doubt, the Employer's Engineer shall include in its report, compliance of the recommendations of the Safety Consultant.

18.3 Delegation by the Employer's Engineer

- 18.3.1 The Employer's Engineer may, by order in writing, delegate any of his duties and responsibilities to suitably qualified and experienced personnel who are accountable to Employer's Engineer, or may revoke any such delegation, under intimation to the Employer and the Contractor. Provided, however, that the Employer's Engineer shall be responsible and liable for all actions and omissions of such personnel.
- 18.3.2 Any failure of the Employer's Engineer to disapprove any work, Plant or Materials shall not constitute approval, and shall therefore not prejudice the right of the Employer to reject the work, Plant or Materials, which is not in accordance with the provisions of this Agreement and the Specifications and Standards.

- 18.3.3 Notwithstanding anything stated in Clause 18.3.1 above, the Employer's Engineer shall not delegate the Employer to refer any matter for the Employer's prior approval wherever required in accordance with the provisions of Clause 18.2.

18.4 Instructions of the Employer's Engineer

- 18.4.1 The Employer's Engineer may issue to the Contractor instructions for remedying any Defect. The Contractor shall take such instructions from the Employer's Engineer, or from an assistant to whom appropriate Employer has been delegated under Clause 18.3.
- 18.4.2 The instructions issued by the Employer's Engineer shall be in writing. However, if the Employer's Engineer issues any oral instructions to the Contractor, it shall confirm in writing the oral instructions within 2 (two) working days of issuing them.
- 18.4.3 In case the Contractor does not receive the confirmation of the oral instruction within the time specified in Clause 18.4.2, the Contractor shall seek the written confirmation of the oral instructions from the Employer's Engineer. The Contractor shall obtain acknowledgement from the Employer's Engineer of the communication seeking written confirmation. In case of failure of the Employer's Engineer or its delegated assistant to reply to the Contractor within 2 (two) days of the receipt of the communication from the Contractor, the Contractor may not carry out the instruction.
- 18.4.4 In case of any dispute on any of the instructions issued by the delegated assistant, the Contractor may refer the dispute to the Employer's Engineer, who shall then confirm, reverse or vary the instructions within 7 (seven) business days of the dispute being referred.

18.5 Determination by the Employer's Engineer

- 18.5.1 The Employer's Engineer shall consult with each Party in an endeavour to reach agreement wherever this Agreement provides for the determination of any matter by the Employer's Engineer. If such agreement is not achieved, the Employer's Engineer shall make a fair determination in accordance with this Agreement having due regard to all relevant circumstances. The Employer's Engineer shall give notice to both the Parties of each agreement or determination, with supporting particulars.
- 18.5.2 Each Party shall give effect to each agreement or determination made by the Employer's Engineer in accordance with the provisions of this Agreement. Provided, however, that if any Party disputes any instruction, decision, direction or determination of the Employer's Engineer, the Dispute shall be resolved in accordance with the Dispute Resolution Procedure.

18.6 Remuneration of the Employer's Engineer

The remuneration, cost and expenses of the Employer's Engineer shall be paid by the Employer.

18.7 Termination of the Employer's Engineer

The Employer may, in its discretion, replace the Employer's Engineer at any time, but only after appointment of another Employer's Engineer in accordance with Clause 18.1.

18.8 Resolution of issues between Employer's Engineer and Contractor

If the Contractor has reasons to believe that the Employer's Engineer is not discharging its duties and functions in accordance with the provisions of this Agreement, it may make a written representation to the Employer. Upon receipt of such representation, the Employer shall hold a tripartite meeting with the Contractor and Employer's Engineer and make best efforts for an amicable resolution of the representation. If the issue is not resolved at this stage, then the Employer shall take up this matter to the top management of the Employer's Engineer and the Contractor for resolution. If still remains unresolved, then the decision of the Employer in this regard is final and binding.

Part IV - Financial Covenants

ARTICLE-19 PAYMENTS

19.1 Contract Price

- 19.1.1 The Employer shall make payments to the Contractor for the Works on the basis of the lump sum price accepted by the Employer in consideration of the obligations specified in this Agreement for an amount of Rs. (Rs.) (the "Contract Price"), which shall be subject to adjustments in accordance with the provisions of this Agreement.

The Parties agree that save and except as provided in this Agreement, the Contract Price shall be valid and effective until issue of Completion Certificate.

- a) This is an EPC Lump sum Contract.
- b) The Schedule of Prices as quoted in Bills shall be the fixed contract price as per:

Schedule A – Items of Work containing the components of work, their quantities and the unit rate. This schedule will be used only for the purpose of making interim payments. Interim measurements of the work will be made and the Contractor will be paid based on the actual quantities of work executed. The total of such interim payments will be limited to the lump sum price quoted under Bills. - Format of monthly bill is enclosed as

Schedule B - format of monthly bill shall be used by the Contractor during execution of the project.

- 19.1.2 The Contract Price includes all duties, taxes, royalty, and fees that may be levied in accordance with the laws and regulations in force as on the Base Date on the Contractor's equipment, Plant, Materials and supplies acquired for the purpose of this Agreement and on the services performed under this Agreement. Nothing in this Agreement shall relieve the Contractor from its responsibility to pay any tax including any tax that may be levied in India on profits made by it in respect of this Agreement.
- 19.1.3 The Contract Price shall not be adjusted for any change in costs stated in Clause 19.1.2 above, except as stated in Clauses 19.10 and 19.17.
- 19.1.4 The Contract Price shall not be adjusted to take account of any unforeseen difficulties or costs, unless otherwise provided for in this Agreement.
- 19.1.5 Unless otherwise stated in this Agreement, the Contract Price covers all the Contractor's obligations for the Works under this Agreement and all things necessary for the Construction and the remedying of any Defects in the Terminal.
- 19.1.6 The Contract Price shall be paid in the currency or currencies as agreed by both the parties of this Agreement. The proportions or amounts of the Local and Foreign Currencies and the fixed rates of exchange to be used for calculating the payments. Payments for Change of Scope, Damages by the Employer and any other requirements as per this Agreement shall be paid in Indian Rupees. All deductions under this Agreement, payment of Damages by the Contractor and repayment of Advance by the Contractor shall be made in Indian Rupees.

19.2 Advance Payment

- 19.2.1 The Employer shall make an interest-free advance payment (the "Advance Payment"), equal in amount to 10 (ten) percent of the Contract Price, for mobilisation expenses and for acquisition of equipment. The Advance Payment shall be made in three instalments. The first instalment shall be an amount equal to 2% (two percent) of the Contract Price, the second instalment shall be equal to 3% (three percent) of the Contract Price, and the third instalment shall be equal to 5% (five percent) of the Contract Price.
- 19.2.2 The Contractor may apply to the Employer for the first instalment of the Advance Payment at any time after the Appointed Date, along with an irrevocable and unconditional guarantee from a Bank for an amount equivalent to 110% (one hundred and ten per cent) of such

instalment, substantially in the form provided at Annex-III of Schedule-G, to remain effective till the complete and full repayment thereof.

- 19.2.3 At any time after 60 (sixty) days from the Appointed Date, the Contractor may apply for the second instalment of the Advance Payment along with an irrevocable and unconditional guarantee from a Bank for an amount equivalent to 110% (one hundred and ten per cent) of such instalment, substantially in the form provided at Annex-III of Schedule-G, to remain effective till the complete and full repayment thereof. The application shall also include the details of utilization of earlier advances.
- 19.2.4 At any time, after 120 (one hundred and twenty) days from the Appointed Date, the Contractor may apply to the Employer for the third instalment of the Advance Payment along with an irrevocable and unconditional guarantee from a Bank for an amount equivalent to 110% (one hundred and ten per cent) of such instalment, substantially in the form provided at Annex-III of Schedule-G, to remain effective till the complete and full repayment thereof. The application shall also include the details of utilization of earlier advances.
- 19.2.5 The first, second and the third instalments shall be paid by the Employer to the Contractor within 15 (fifteen) days of the receipt of its respective requests in accordance with the provisions of this Clause 19.2.
- 19.2.6 Each instalment of Advance Payment shall be repaid by the Contractor to the Employer no later than 365 (three hundred and sixty five) days from the respective date of Advance Payment.
- 19.2.7 The Contractor shall repay each instalment of the Advance Payment on or before the due date of repayment. In the event of the Contractor's failure to make the repayment on time, the Employer shall be entitled to encash the Bank guarantee for Advance Payment. The Parties expressly agree that for any delay in repayment of the Advance Payment, the Contractor shall pay interest to the Employer for each day of delay, such interest to be calculated at the rate of 18% (eighteen per cent) per annum.
- 19.2.8 If the Advance Payment has not been fully repaid prior to Termination under Clause 21.7 or Article 23, as the case may be, the whole of the balance then outstanding shall immediately become due and payable by the Contractor to the Employer. Without prejudice to the provisions of Clause 19.2.7, in the event of Termination for Contractor Default, the Advance Payment shall be deemed to carry interest at the rate of 10% (ten per cent) per annum from the date of Advance Payment to the date of recovery by encashment of the Bank Guarantee for the Advance Payment. For the avoidance of doubt, the aforesaid interest shall be payable on each instalment of the Advance Payment, regardless of whether the instalment or any part thereof has been repaid to the Employer prior to Termination.

19.3 Procedure for estimating the payment for the Works

- 19.3.1 The Employer shall make interim payments to the Contractor as certified by the Employer's Engineer on completion of a stage, in a length, number or area as specified, and valued in accordance with the proportion of the Contract Price assigned to each item as per Volume III of BOQ.
- 19.3.2 The Contractor shall base its claim for interim payment for the stages completed till the end of the month for which the payment is claimed, valued in accordance with Clause 19.3.1, supported with necessary particulars and documents in accordance with this Agreement.

- 19.3.3 Any reduction in the Contract Price arising out of Change of Scope or the works withdrawn under Clause 8.3 shall not affect the amounts payable for the items or stage payments thereof which are not affected by such Change of Scope or withdrawal. The Parties further agree that the adjustments arising out of the aforesaid modifications shall be carried out in a manner that the impact of such modifications is restricted to the said Change of Scope or withdrawal, as the case may be, and does not alter the payments due for and in respect of items or stage payments which do not form part of such Change of Scope or withdrawal.

19.4 Stage Payment Statement for Works

The Contractor shall submit a statement (the “Stage Payment Statement”), in 3 copies, by the 7th (seventh) day of the month to the Employer’s Engineer in the form set forth in monthly RA Bill of Volume III, showing the amount calculated in accordance with Clause 19.3 to which the Contractor considers himself entitled for completed stage(s) of the Works. The Stage Payment Statement shall be accompanied with the progress reports and any other supporting documents. The Contractor shall not submit any claim for payment of incomplete stages of work.

19.5 Stage Payment for Works

- 19.5.1 Within 10 (ten) days of receipt of the Stage Payment Statement from the Contractor pursuant to Clause 19.4, the Employer’s Engineer shall broadly determine the amount due to the Contractor and recommend the release of 75 (seventy five) percent of the amount so determined as part payment against the Stage Payment Statement, pending issue of the Interim Payment Certificate by the Employer’s Engineer. Within 10 (ten) days of the receipt of recommendation of the Employer’s Engineer, the Employer shall make electronic payment directly to the Contractor’s bank account.
- 19.5.2 Within 15 (fifteen) days of the receipt of the Stage Payment Statement referred to in Clause 19.4, the Employer’s Engineer shall determine and shall deliver to the Employer and the Contractor an IPC certifying the amount due and payable to the Contractor, after adjusting the payments already released to the Contractor against the said statement. For the avoidance of doubt, the Parties agree that the IPC shall specify all the amounts that have been deducted from the Stage Payment Statement and the reasons therefor.
- 19.5.3 In cases where there is a difference of opinion as to the value of any stage, the Employer’s Engineer’s view shall prevail and interim payments shall be made to the Contractor on this basis; provided that the foregoing shall be without prejudice to the Contractor’s right to raise a Dispute.
- 19.5.4 The Employer’s Engineer may, for reasons to be recorded, withhold from payment:
- ¹⁹⁾ The estimated value of work or obligation that the Contractor has failed to perform in accordance with this Agreement and the Employer’s Engineer had notified the Contractor; and
 - ¹⁹⁾ The estimated cost of rectification of work done being not in accordance with this Agreement.
- 19.5.5 Payment by the Employer shall not be deemed to indicate the Employer’s acceptance, approval, consent or satisfaction with the work done.

19.6 Monthly Maintenance Statement of the Terminal – Deleted

19.7 Payment for Maintenance of the Terminal – Deleted

19.8 Payment of Damages

- 19.8.1 The Contractor may claim Damages due and payable to it in accordance with the provisions of this Agreement.
- 19.8.2 The Employer's Engineer shall issue the IPC within 15 (fifteen) days of the receipt of the claim under Clause 19.8.1, after making adjustments in accordance with the provisions of this Agreement. The Employer shall pay to the Contractor the amount due under any IPC within a period of 30 (thirty) days from the date of the submission of the claim under this Clause 19.8. In the event of the failure of the Employer to make payment to the Contractor within the specified time, the Employer shall be liable to pay to the Contractor interest thereon and the provisions of Clause 19.9 shall apply mutatis mutandis thereto.

19.9 Time of payment and interest

- 19.9.1 The Employer shall pay to the Contractor any amount due under any payment certificate issued by the Employer's Engineer in accordance with the provisions of this Article 19, or in accordance with any other clause of this Agreement as follows:
- ¹⁹⁾ payment shall be made no later than 30 (thirty) days from the date of submission of the Stage Payment Statement by the Contractor to the Employer's Engineer for certification in accordance with the provisions of Clause 19.4 for an IPC; provided that, in the event the IPC is not issued by the Employer's Engineer within the aforesaid period of 30 (thirty) days, the Employer shall pay the amount shown in the Contractor's Stage Payment Statement and any discrepancy therein shall be added to, or deducted from, the next payment certificate issued to the Contractor; and
 - ¹⁹⁾ payment shall be made no later than 45(forty five) days from the date of submission of the Final Payment Certificate for Works along with the discharge submitted to the Employer's Engineer in accordance with the provisions of Clause 19.15 for certification.
- 19.9.2 In the event of the failure of the Employer to make payment to the Contractor within the time period stated in this Clause 19.9, the Employer shall be liable to pay to the Contractor interest at 12% (twelve percent) per annum simple interest, calculated at quarterly rests, on all sums remaining unpaid from the date on which the same should have been paid, calculated in accordance with the provisions of Clause 19.9.1(a) and (b) and till the date of actual payment.

19.10. Price adjustment for the Works

- 19.10.1 The amounts payable to the Contractor for Works shall be adjusted in accordance with the provisions of this Clause 19.10.
- 19.10.2 Subject to the provisions of Clause 19.10.3, the amounts payable to the Contractor for Works, shall be adjusted in the IPC issued by the Employer's Engineer for the increase or decrease in the index cost of inputs for the Works, by the addition or subtraction of the amounts determined by the formulae prescribed in Clause 19.10.8.
- 19.10.3 To the extent that full compensation for any increase or decrease in costs to the Contractor is not covered by the provisions of this or other clauses in the contract, the Contract Price shall be deemed to include amounts to cover the contingency of such other any increase or decrease in costs.
- 19.10.4 The compensation for escalation shall be worked out at quarterly intervals and shall be with respect to the cost of work done during the previous three months. The first such payment will be made at the end of three months after the month (excluding) in which the Tender was accepted and thereafter at three months interval.
- 19.10.5 Payment of such claims for reimbursement / refund would be made on certification by the Employer's Engineer.

19.10.6 In the event the price of cement, steel, fuel and / or wages of labour required for execution of the work decrease/s, there shall be downward adjustment of the cost of work so that such price of materials, fuel and/or wages of labour will be deductible from the cost of work under this contract and in this regard the formula stated in clause 19.10.8 shall apply:

19.10.7 Price escalation shall apply for the work done from the commencement date up to end of initial intended completion date or extensions granted by the Employer's Engineer and shall not apply to the work carried beyond the stipulated time for reasons attributable to the Contractor.

19.10.8 Price adjustment shall be calculated as per the formula given below:

¹⁹⁾ **Adjustment for Labour Component**

Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with the following formula:

$$VL = 0.85 \times PI/100 \times W \times (Li - L0) / L0$$

Where,

VL = Variation in labour cost i.e. increase or decrease in the amount to be paid or recovered.

W = Value of work done

Li & L0 = The Consumer Price Index for industrial workers for Kalughat, published by Labour Bureau, Ministry of Labour, Government of India for the period under consideration and that valid as on Base Date respectively.

PI = Percentage of labour component of the Work.

k) Adjustment of Cement Component

Price adjustment for increase or decrease in the cost of cement procured by the Contractor shall be paid in accordance with the following formula.

$$Vc = 0.85 \times Pc/100 \times W \times (Ci - C0) / C0$$

Where,

Vc = Variation in cement cost i.e. increase or decrease in the amount to be paid or recovered.

W = Value of work done

Ci & C0= All India wholesale price Index for cement for the period under reckoning as published by the Economic Adviser to Government of India, Ministry of Industry and Commerce, for the period under consideration and that valid as on Base Date respectively.

Pc = Percentage of cement component of the Work.

l) Adjustment of Steel Component

Price adjustment for increase or decrease in the cost of steel procured by the Contractor shall be paid in accordance with the following formula.

$$Vs = 0.85 \times Ps/100 \times W \times (Si - S0)/S0$$

Where,

Vs = Variation in steel cost i.e. increase or decrease in the amount to be paid or recovered.

W = Value of work done

Si & S0= All India wholesale price Index for steel for the period under reckoning as published by the Economic Adviser to Government of India, Ministry of Industry and Commerce, for the period under consideration and that valid as on Base Date respective

Ps = Percentage of steel component of the Work.

m) Adjustment of Fuel Component

Price adjustment for increase or decrease in the cost of fuel procured by the Contractor shall be paid in accordance with the following formula.

$$Vf = 0.85 \times Pf / 100 \times W \times (Fi - F0) / F0$$

Where,

Vf = Variation in fuel cost i.e. increase or decrease in the amount to be paid or recovered.

W = Value of work done

Fi & F0 = The average official retail price of High Speed Diesel (HSD) oil at the existing consumer pumps of IOC at Kalughat for the period under consideration and that valid as on base date respectively.

Pf = Percentage of fuel component of the Work.

19.10.9 The following percentages will govern the price adjustment of the contract:

- a. Labour – Pl : Percentage as verified through supporting documents submitted along with the bills
- b. Cement – Pc : Percentage as verified through supporting documents submitted along with the bills
- c. Steel – Ps : Percentage as verified through supporting documents submitted along with the bills
- d. Fuel – Pf : Percentage as verified through supporting documents submitted along with the bills

19.10.10 Accordingly the consolidated formulae for calculation of total variation (Vt) is:

$$VT = VL + VC + Vs + VF$$

19.11 Price adjustment will be considered and as per clause 19.10**19.12. Price adjustment for Maintenance of Terminal – Deleted****19.13 Final Payment Statement**

19.13.1 Within 60 (sixty) days after receiving the Completion Certificate under Clause 12.4, the Contractor shall submit to the Employer's Engineer for consideration six copies of a Final Payment Statement (the "Final Payment Statement") for Works, with supporting documents showing in detail, in the form prescribed by the Employer's Engineer:

- ¹⁹⁾ The summary of Contractor's Stage Payment claims for Works as submitted in accordance with Clause 19.4;
- ¹⁹⁾ The amounts received from the Employer against each claim; and
- ¹⁹⁾ Any further sums which the Contractor considers due to it from the Employer.

If the Employer's Engineer disagrees with or cannot verify any part of the Final Payment Statement, the Contractor shall submit such further information as the Employer's Engineer may reasonably require. The Employer's Engineer shall deliver to the Employer:

- ✓ An IPC for those parts of the Final Payment Statement which are not in dispute, along with a list of disputed items which shall then be settled in accordance with the provisions of Article 26; or

- ✓ A Final Payment Certificate in accordance with Clause 19.15 if there are no disputed items.

19.13.2 If the Employer's Engineer does not prescribe the form referred to in Clause 19.13.1 within 15 (fifteen) of the date of issue of the Completion Certificate, the Contractor shall submit the statement in such form as it deems fit.

19.14 Discharge

Upon submission of the Final Payment Statement for Works under Clause 19.13, the Contractor shall give to the Employer, with a copy to the Employer's Engineer, a written discharge confirming that the total of the Final Payment Statement represents full and final settlement of all monies due to the Contractor in respect of this Agreement for all the Works arising out of this Agreement, except for any monies due to either Party on account of any Defect. Provided that such discharge shall become effective only after the payment due has been made in accordance with the Final Payment Certificate issued pursuant to Clause 19.15.

19.15 Final Payment Certificate

19.15.1 Within 30 (thirty) days after receipt of the Final Payment Statement for Works under Clause 19.13, and the written discharge under Clause 19.14, and there being no disputed items of claim, the Employer's Engineer shall deliver to the Employer, with a copy to the Contractor, a final payment certificate (the "Final Payment Certificate") stating the amount which, in the opinion of the Employer's Engineer, is finally due under this Agreement or otherwise. For the avoidance of doubt, before issuing the Final Payment Certificate, the Employer's Engineer shall ascertain from the Employer all amounts previously paid by the Employer and for all sums to which the Employer is entitled, the balance, if any, due from the Employer to the Contractor or from the Contractor to the Employer, as the case may be.

19.15.2 The Employer shall, in accordance with the provisions of Clause 19.9, pay to the Contractor the amount which is stated as being finally due in the Final Payment Certificate.

19.16 Final payment statement for Maintenance – Deleted

19.17 Changes in Law

19.17.1 If as a result of Change in Law, the Contractor suffers any additional costs in the execution of the Works or in relation to the performance of its other obligations under this Agreement, the Contractor shall, within 15 (fifteen) days from the date it becomes reasonably aware of such addition in cost, notify the Employer with a copy to the Employer's Engineer of such additional cost due to Change in Law.

19.17.2 If as a result of Change in Law, the Contractor benefits from any reduction in costs for the execution of this Agreement or in accordance with the provisions of this Agreement, either Party shall, within 15 (fifteen) days from the date it becomes reasonably aware of such reduction in cost, notify the other Party with a copy to the Employer's Engineer of such reduction in cost due to Change in Law.

19.17.3 The Employer's Engineer shall, within 15 (fifteen) days from the date of receipt of the notice from the Contractor or the Employer, determine any addition or reduction to the Contract Price, as the case may be, due to the Change in Law.

19.18 Correction of Interim Payment Certificates

The Employer's Engineer may by an Interim Payment Certificate make any correction or modification in any previous Interim Payment Certificate issued by the Employer's Engineer.

19.19 Employer's Claims

If the Employer considers itself to be entitled to any payment from the Contractor under any Clause of this Agreement, it shall give notice and particulars to the Contractor 20 (twenty) days before making the recovery from any amount due to the Contractor, and shall take into consideration the representation, if any, made by the Contractor in this behalf, before making such recovery.

19.20 Bonus for Early Completion

In the event that the Project Completion Date occurs prior to the Scheduled Completion Date, the Contractor shall be entitled to receive a payment of bonus equivalent to 0.03% (zero point zero three per cent) of the Contract Price for each day by which the Project Completion Date precedes the Scheduled Completion Date, but subject to a maximum of 3% (three per cent) of the Contract Price. Provided, however, that the payment of bonus, if any, shall be made only after the issue of the Completion Certificate. For the avoidance of the doubt, the Parties agree that for the purpose of determining the bonus payable hereunder, the Contract Price shall be deemed to be the amount specified in Clause 19.1.1, and shall exclude any revision thereof for any reason. The Parties also agree that bonus shall be payable only if each work for which Extension of Time has been granted is completed within respective Extended Time

ARTICLE-20

INSURANCE

20.1 Insurance for Works

20.1.1 The Contractor shall effect and maintain at its own cost the insurances specified in Schedule-P and as per the requirements under the Applicable Laws.

20.1.2 Subject to the provisions of Clause 21.6, the Employer and the Contractor shall, in accordance with its obligations as provided for in this Agreement, be liable to bear the cost of any loss or damage that does not fall within the scope of this Article 20 or cannot be recovered from the insurers.

20.1.3 Subject to the exceptions specified in Clause 20.1.4 below, the Contractor shall, save and except as provided for in this Agreement, fully indemnify, hold harmless and defend the Employer from and against any and all losses, damages, costs, charges and/or claims with respect to:

¹⁹⁾ The death of or injury to any person; or

¹⁹⁾ The loss of or damage to any property (other than the Works);

That may arise out of or in consequence of any breach by the Contractor of this Agreement during the execution of the Works or the remedying of any Defects therein.

20.1.4 Notwithstanding anything stated above in Clause 20.1.3, the Employer shall fully indemnify the Contractor from and against any and all losses, damages, costs, charges, proceedings and/or claims arising out of or with respect to

¹⁹⁾ The use or occupation of land or any part thereof by the Employer;

¹⁹⁾ The right of the Employer to execute the Works, or any part thereof, on, over, under, in or through any land;

¹⁹⁾ The damage to property which is the unavoidable result of the execution and completion of the Works, or the remedying of any Defects therein, in accordance with this Agreement; and

¹⁹⁾ The death of or injury to persons or loss of or damage to property resulting from any act or neglect of the Employer, agents, servants or other contractors, not being employed by the Contractor.

Provided that, in the event of any injury or damage as a result of the contributory negligence of the Contractor, the Employer shall be liable to indemnify the Contractor from and against any and all losses, damages, costs, charges, proceedings and/or claims to the extent as may be proportionately determined to be the liability of the Employer, its servants or agents or other contractors not associated with the Contractor in such injury or damage.

20.1.5 Without prejudice to the obligations of the Parties as specified under Clauses 20.1.3 and 20.1.4, the Contractor shall maintain or effect such third party insurances as may be required under the Applicable Laws.

20.1.6 The Contractor shall provide to the Employer, within 30 days of the Appointed Date, evidence of professional liability insurance maintained by its Design Director and/or consultants to cover the risk of professional negligence in the design of Works. The

professional liability coverage shall be for a sum of not less than [3% (three per cent)] of the Contract Price and shall be maintained until the end of the Defects Liability Period.

20.2 Notice to the Employer

No later than 15 (fifteen) days after the date of this Agreement, the Contractor shall by notice furnish to the Employer, in reasonable detail, information in respect of the insurances that it proposes to effect and maintain in accordance with this Article 20. Within 15 (fifteen) days of receipt of such notice, the Employer may require the Contractor to effect and maintain such other insurances as may be necessary pursuant hereto, and in the event of any difference or disagreement relating to any such insurance, the Dispute Resolution Procedure shall apply.

20.3 Evidence of Insurance Cover

- 20.3.1 All insurances obtained by the Contractor in accordance with this Article 20 shall be maintained with insurers on terms consistent with Good Industry Practice. Within 10 (ten) days from the Appointed Date, the Contractor shall furnish to the Employer notarised true copies of the certificate(s) of insurance, copies of insurance policies and premia payment receipts in respect of such insurance, and no such insurance shall be cancelled, modified, or allowed to expire or lapse until the expiration of at least 45 (forty-five) days after notice of such proposed cancellation, modification or non-renewal has been delivered by the Contractor to the Employer. The Contractor shall act in accordance with the directions of the Employer. Provided that the Contractor shall produce to the Employer the insurance policies in force and the receipts for payment of the current premia.
- 20.3.2 The Contractor shall ensure the adequacy of the insurances at all times in accordance with the provisions of this Agreement.

20.4 Remedy for Failure to Insure

If the Contractor shall fail to effect and keep in force all insurances for which it is responsible pursuant hereto, the Employer shall have the option to either keep in force any such insurances, and pay such premia and recover the costs thereof from the Contractor, or in the event of computation of a Termination Payment, treat an amount equal to the Insurance Cover as deemed to have been received by the Contractor.

20.5 Waiver of Subrogation

All insurance policies in respect of the insurance obtained by the Contractor pursuant to this Article 20 shall be a waiver of any and all rights of subrogation or recovery of the insurers thereunder against, inter alia, the Employer, and its assigns, successors, undertakings and their subsidiaries, Affiliates, employees, insurers and underwriters, and of any right of the insurers to any set-off or counterclaim or any other deduction, whether by attachment or otherwise, in respect of any liability of any such person insured under any such policy or in any way connected with any loss, liability or obligation covered by such policies of insurance.

20.6 Contractor's Waiver

The Contractor hereby further releases, assigns and waives any and all rights of subrogation or recovery against, inter alia, the Employer and its assigns, undertakings and their subsidiaries, Affiliates, employees, successors, insurers and underwriters, which the Contractor may otherwise have or acquire in or from or in any way connected with any loss, liability or obligation covered by policies of insurance maintained or required to be maintained by the Contractor pursuant to this Agreement (other than third party liability

insurance policies) or because of deductible clauses in or inadequacy of limits of any such policies of insurance.

20.7 Cross Liabilities

Any such insurance maintained or effected in pursuance of this Article 20 shall be a cross liability clause such that the insurance shall apply to the Contractor and to the Employer as separately insured.

20.8 Accident or injury to Workmen

Notwithstanding anything stated in this Agreement, it is hereby expressly agreed between the Parties that the Employer shall not be liable for or in respect of any damages or compensation payable to any workman or other person in the employment of the Contractor or Sub-contractor, save and except as for death or injury resulting from any act, omission or default of the Employer, Agents or servants. The Contractor shall indemnify and keep indemnified the Employer from and against all such claims, proceedings, damages, costs, charges, and expenses whatsoever in respect of the above save and except for those acts, omissions or defaults for which the Employer shall be liable.

20.9 Insurance against Accident to Workmen

The Contractor shall effect and maintain during the Agreement such insurances as may be required to insure the Contractor's personnel and any other persons employed by it on the Terminal from and against any liability incurred in pursuance of this Article 20. Provided that for the purposes of this Clause 20.9, the Contractor's personnel/any person employed by the Contractor shall be the Sub-contractor and its personnel. It is further provided that, in respect of any persons employed by any Sub-contractor, the Contractor's obligations to insure as aforesaid under this Clause 20.9 shall be discharged if the Sub-contractor shall have insured against any liability in respect of such persons in such manner that the Employer is indemnified under the policy. The Contractor shall require such Sub-contractor to produce before the Employer, when required, such policy of insurance and the receipt for payment of the current premium within 10 (ten) days of such demand being made by the Employer.

20.10 Application of Insurance Proceeds

The proceeds from all insurance claims, except for life and injury, shall be applied for any necessary repair, reconstruction, reinstatement, replacement, improvement, delivery or installation of the Terminal and the provisions of this Agreement in respect of construction of works shall apply mutatis mutandis to the works undertaken out of the proceeds of insurance.

20.11 Compliance with Policy Conditions

Each Party hereby expressly agrees to fully indemnify the other Party from and against all losses and claims arising from its failure to comply with conditions imposed by the insurance policies effected in accordance with this Agreement.

Part V – Force Majeure and Termination

ARTICLE-21

FORCE MAJEURE

21.1 Force Majeure

As used in this Agreement, the expression “Force Majeure” or “Force Majeure Event” shall mean occurrence in India of any or all of Non-Political Event, Indirect Political Event and Political Event, as defined in Clauses 21.2, 21.3 and 21.4 respectively, if it affects the performance by the Party claiming the benefit of Force Majeure (the “Affected Party”) of its obligations under this Agreement and which act or event (i) is beyond the reasonable control of the Affected Party, and (ii) the Affected Party could not have prevented or overcome by exercise of due diligence and following Good Industry Practice, and (iii) has Material Adverse Effect on the Affected Party.

21.2 Non-Political Event

A Non-Political Event shall mean one or more of the following acts or events:

- ¹⁹⁾ Act of God, epidemic, extremely adverse weather conditions, lightning, earthquake, landslide, cyclone, flood, volcanic eruption, chemical or radioactive contamination or ionising radiation, fire or explosion (to the extent of contamination or radiation or fire or explosion originating from a source external to the Site);
- ¹⁹⁾ Strikes or boycotts (other than those involving the Contractor, Sub-contractors or their respective employees/representatives, or attributable to any act or omission of any of them) interrupting supplies and services to the Terminal for a continuous period of 24 (twenty-four) hours and an aggregate period exceeding 10 (ten) days in an Accounting Year, and not being an Indirect Political Event set forth in Clause 21.3;
- ¹⁹⁾ Any failure or delay of a Sub-contractor but only to the extent caused by Ir Non- Political Event;
- ¹⁹⁾ Any judgement or order of any court of competent jurisdiction or statutory Employer made against the Contractor in any proceedings for reasons other than (i) failure of the Contractor to comply with any Applicable Law or Applicable Permit, or (ii) on account of breach of any Applicable Law or Applicable Permit or of any contract, or (iii) enforcement of this Agreement, or (iv) exercise of any of its rights under this Agreement by the Employer;
- e) The discovery of geological conditions, toxic contamination or archaeological remains on the Site that could not reasonably have been expected to be discovered through a site inspection; or
- f) Any event or circumstances of a nature analogous to any of the foregoing.

21.3 Indirect Political Event

An Indirect Political Event shall mean one or more of the following acts or events:

- ¹⁹⁾ An act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, riot, insurrection, terrorist or military action, civil commotion or politically motivated sabotage;
- b) Industry-wide or State-wide strikes or industrial action for a continuous period of 24 (twenty-four) hours and exceeding an aggregate period of 10 (ten) days in an Accounting Year;

- c) Any civil commotion, boycott or political agitation which prevents the works by the Contractor for an aggregate period exceeding 10 (ten) days in an Accounting Year;
- ¹⁹⁾ Any failure or delay of a Sub-contractor to the extent caused by any Indirect Political Event;
- e) Any Indirect Political Event that causes a Non-Political Event; or
- f) Any event or circumstances of a nature analogous to any of the foregoing.

21.4 Political Event

A Political Event shall mean one or more of the following acts or events by or on account of any Government Instrumentality:

- ¹⁹⁾ Change in Law, only if consequences thereof cannot be dealt with under and in accordance with the provisions of Clause 19.17;
- ¹⁹⁾ Compulsory acquisition in national interest or expropriation of any Project Assets or rights of the Contractor or of the Sub-Contractors;
- c) Unlawful or unauthorised or without jurisdiction revocation of, or refusal to renew or grant without valid cause, any clearance, licence, permit, authorisation, no objection certificate, consent, approval or exemption required by the Contractor or any of the Sub-contractors to perform their respective obligations under this Agreement; provided that such delay, modification, denial, refusal or revocation did not result from the Contractor's or any Sub-contractor's inability or failure to comply with any condition relating to grant, maintenance or renewal of such clearance, licence, authorisation, no objection certificate, exemption, consent, approval or permit;
- ¹⁹⁾ Any failure or delay of a Sub-contractor but only to the extent caused by another Political Event; or
- e) Any event or circumstances of a nature analogous to any of the foregoing.

21.5 Duty to Report Force Majeure Event

21.5.1 Upon occurrence of a Force Majeure Event, the Affected Party shall by notice report such occurrence to the other Party forthwith. Any notice pursuant hereto shall include full particulars of:

- ¹⁹⁾ The nature and extent of each Force Majeure Event which is the subject of any claim for relief under this Article 21 with evidence in support thereof;
- ¹⁹⁾ The estimated duration and the effect or probable effect which such Force Majeure Event is having or will have on the Affected Party's performance of its obligations under this Agreement;
- ¹⁹⁾ The measures the Affected Party is taking or proposes to take for alleviating the impact of such Force Majeure Event; and
- ¹⁹⁾ Any other information relevant to the Affected Party's claim.

21.5.2 The Affected Party shall not be entitled to any relief for or in respect of a Force Majeure Event unless it shall have notified the other Party of the occurrence of the Force Majeure Event as soon as reasonably practicable, and in any event no later than 10 (ten) days after the Affected Party knew, or ought reasonably to have known, of its occurrence, and shall have given particulars of the probable material effect that the Force Majeure Event is likely to have on the performance of its obligations under this Agreement.

- 21.5.3 For so long as the Affected Party continues to claim to be materially affected by such Force Majeure Event, it shall provide the other Party with regular (and not less than weekly) reports containing information as required by Clause 21.5.1, and such other information as the other Party may reasonably request the Affected Party to provide.

21.6 Effect of Force Majeure Event on the Agreement

- 21.6.1 Upon the occurrence of any Force Majeure after the Appointed Date, the costs incurred and attributable to such event and directly relating to this Agreement (the "Force Majeure costs") shall be allocated and paid as follows:

- ¹⁹⁾ Upon occurrence of a Non-Political Event, the Parties shall bear their respective Force Majeure costs and neither Party shall be required to pay to the other Party any costs thereof;
- ¹⁹⁾ Upon occurrence of an Indirect Political Event, all Force Majeure costs attributable to such Indirect Political Event, and not exceeding the Insurance Cover for such Indirect Political Event, shall be borne by the Contractor, and to the extent Force Majeure costs exceed such Insurance Cover, one half of such excess amount shall be reimbursed by the Employer to the Contractor for the Force Majeure events; and
- ¹⁹⁾ Upon occurrence of a Political Event, all Force Majeure costs attributable to such Political Event shall be reimbursed by the Employer to the Contractor.

For the avoidance of doubt, Force Majeure costs may be costs directly attributable to the Force Majeure Event, but shall not be debt repayment obligations, if any, of the Contractor.

- 21.6.2 Save and except as expressly provided in this Article 21, neither Party shall be liable in any manner whatsoever to the other Party in respect of any loss, damage, cost, expense, claims, demands and proceedings relating to or arising out of occurrence or existence of any Force Majeure Event or exercise of any right pursuant hereto.
- 21.6.3 Upon the occurrence of any Force Majeure Event during the Construction Period, the Project Completion Schedule for and in respect of the affected Works shall be extended on a day for day basis for such period as performance of the Contractor's obligations is affected on account of the Force Majeure Event or its subsisting effects.

21.7 Termination Notice for Force Majeure Event

- 21.7.1 If a Force Majeure Event subsists for a period of 60 (sixty) days or more within a continuous period of 120 (one hundred and twenty) days, either Party may in its discretion terminate this Agreement by issuing a Termination Notice to the other Party without being liable in any manner whatsoever, save as provided in this Article 21, and upon issue of such Termination Notice, this Agreement shall, notwithstanding anything to the contrary contained herein, stand terminated forthwith; provided that before issuing such Termination Notice, the Party intending to issue the Termination Notice shall inform the other Party of such intention and grant 15 (fifteen) days' time to make a representation, and may after the expiry of such 15 (fifteen) days period, whether or not it is in receipt of such representation, in its sole discretion issue the Termination Notice.

21.8 Termination Payment for Force Majeure Event

- 21.8.1 In the event of this Agreement being terminated on account of a Non-Political Event, the Termination Payment shall be an amount equal to the sum payable under Clause 23.5.

Provided that in the event Termination occurs during the Maintenance Period, the Employer's Engineer shall only determine the value of Works associated with Maintenance.

21.8.2 If Termination is on account of an Indirect Political Event, the Termination Payment shall be:

- ¹⁹⁾ Any sums due and payable under Clause 23.5; and
- ¹⁹⁾ The reasonable cost, as determined by the Employer's Engineer, of the Plant and Materials procured by the Contractor and transferred to the Employer for use in Construction or Maintenance, only if such Plant and Materials are in conformity with the Specifications and Standards;

Provided that in the event Termination occurs during the Maintenance Period, the Employer's Engineer shall only determine the value of Works associated with Maintenance.

21.8.3 If Termination is on account of a Political Event, the Employer shall make a Termination Payment to the Contractor in an amount that would be payable under Clause 23.6.2 as if it were an Employer Default.

21.9 Dispute Resolution

In the event that the Parties are unable to agree in good faith about the occurrence or existence of a Force Majeure Event, such Dispute shall be finally settled in accordance with the Dispute Resolution Procedure; provided that the burden of proof as to the occurrence or existence of such Force Majeure Event shall be upon the Party claiming relief and/or excuse on account of such Force Majeure Event.

21.10 Excuse from Performance of Obligations

If the Affected Party is rendered wholly or partially unable to perform its obligations under this Agreement because of a Force Majeure Event, it shall be excused from performance of such of its obligations to the extent it is unable to perform on account of such Force Majeure Event; provided that:

- ✓ The suspension of performance shall be of no greater scope and of no longer duration than is reasonably required by the Force Majeure Event;
- ✓ The Affected Party shall make all reasonable efforts to mitigate or limit damage to the other Party arising out of or as a result of the existence or occurrence of such Force Majeure Event and to cure the same with due diligence; and when the Affected Party is able to resume performance of its obligations under this Agreement, it shall give to the other Party notice to that effect and shall promptly resume performance of its obligations hereunder.

ARTICLE-22

SUSPENSION OF CONTRACTOR'S RIGHTS

22.1 Suspension upon Contractor Default

Upon occurrence of a Contractor Default, the Employer shall be entitled, without prejudice to its other rights and remedies under this Agreement, to (i) suspend carrying out of the Works or Maintenance or any part thereof, and (ii) carry out such Works or Maintenance itself or authorise any other person to exercise or perform the same on its behalf during such suspension (the "Suspension"). Suspension hereunder shall be effective forthwith upon issue of notice by the Employer to the Contractor and may extend up to a period not exceeding 90 (ninety) days from the date of issue of such notice.

22.2 Employer to act on behalf of Contractor

During the period of Suspension hereunder, all rights and liabilities vested in the Contractor in accordance with the provisions of this Agreement shall continue to vest therein and all things done or actions taken, and expenditure incurred by the Employer for discharging the obligations of the Contractor under and in accordance with this Agreement shall be deemed to have been done or taken for and on behalf of the Contractor and the Contractor undertakes to indemnify the Employer for all costs incurred during such period. The Contractor hereby licences and sub-licences respectively, the Employer or any other person authorised by it under Clause 22.1 to use during Suspension, all Intellectual Property belonging to or licenced to the Contractor with respect to the Terminal and its design, engineering, construction and maintenance, and which is used or created by the Contractor in performing its obligations under the Agreement.

22.3 Revocation of Suspension

22.3.1 In the event that the Employer shall have rectified or removed the cause of Suspension within a period not exceeding 60 (sixty) days from the date of Suspension, it shall revoke the Suspension forthwith and restore all rights of the Contractor under this Agreement. For the avoidance of doubt, the Parties expressly agree that the Employer may, in its discretion, revoke the Suspension at any time, whether or not the cause of Suspension has been rectified or removed hereunder.

22.3.2 Upon the Contractor having cured the Contractor Default within a period not exceeding 60 (sixty) days from the date of Suspension, the Employer shall revoke the Suspension forthwith and restore all rights of the Contractor under this Agreement.

22.4 Termination

22.4.1 At any time during the period of Suspension under this Article 22, the Contractor may by notice require the Employer to revoke the Suspension and issue a Termination Notice. The Employer shall, within 15 (fifteen) days of receipt of such notice, terminate this Agreement under and in accordance with Article 23.

22.4.2 Notwithstanding anything to the contrary contained in this Agreement, in the event that Suspension is not revoked within 90 (ninety) days from the date of Suspension hereunder, the Agreement shall, upon expiry of the aforesaid period, be deemed to have been terminated by mutual agreement of the Parties and all the provisions of this Agreement shall apply, mutatis mutandis, to such Termination as if a Termination Notice had been issued by the Employer upon occurrence of a Contractor Default.

ARTICLE-23

TERMINATION

23.1 Termination for Contractor Default

23.1.1 Save as otherwise provided in this Agreement, in the event that any of the defaults specified below shall have occurred, and the Contractor fails to cure the default within the Cure Period set forth below, or where no Cure Period is specified, then within a Cure Period of 60 (sixty) days, the Contractor shall be deemed to be in default of this Agreement (the "Contractor Default"), unless the default has occurred solely as a result of any breach of this Agreement by the Employer or due to Force Majeure. The defaults referred to herein shall be:

- ¹⁹⁾ The Contractor fails to provide, extend or replenish, as the case may be, the Performance Security in accordance with this Agreement;
- ¹⁹⁾ Subsequent to the replenishment or furnishing of fresh Performance Security in accordance with Clause 7.3, the Contractor fails to cure, within a Cure Period of 30 (thirty) days, the Contractor Default for which the whole or part of the Performance Security was appropriated;
- ¹⁹⁾ The Contractor does not achieve the latest outstanding Project Milestone due in accordance with the provisions of Schedule-J, subject to any Time Extension, and continues to be in default for 45 (forty five) days;
- ¹⁹⁾ The Contractor abandons or manifests intention to abandon the construction or Maintenance of the Terminal without the prior written consent of the Employer;
- e) The Contractor fails to proceed with the Works in accordance with the provisions of Clause 10.1 or stops Works and/or the Maintenance for 30 (thirty) days without reflecting the same in the current programme and such stoppage has not been authorised by the Employer's Engineer;
- f) The Project Completion Date does not occur within the period specified in Schedule-J for the Scheduled Completion Date, or any extension thereof;
- g) Failure to complete the Punch List items within the periods stipulated therefor in Clause 12.2.1;
- h) The Contractor fails to rectify any Defect, the non-rectification of which shall have a Material Adverse Effect on the Project, within the time specified in this Agreement or as directed by the Employer's Engineer;
- ¹⁹⁾ The Contractor subcontracts the Works or any part thereof in violation of this Agreement or assigns any part of the Works or the Maintenance without the prior approval of the Employer;
- j) The Contractor creates any Encumbrance in breach of this Agreement;
- k) An execution levied on any of the assets of the Contractor has caused a Material Adverse Effect;
- l) The Contractor is adjudged bankrupt or insolvent, or if a trustee or receiver is appointed for the Contractor or for the whole or material part of its assets that has a material bearing on the Project;

- m) The Contractor has been, or is in the process of being liquidated, dissolved, wound-up, amalgamated or reconstituted in a manner that would cause, in the reasonable opinion of the Employer, a Material Adverse Effect;
- n) A resolution for winding up of the Contractor is passed, or any petition for winding up of the Contractor is admitted by a court of competent jurisdiction and a provisional liquidator or receiver is appointed and such order has not been set aside within 90 (ninety) days of the date thereof or the Contractor is ordered to be wound up by court except for the purpose of amalgamation or reconstruction; provided that, as part of such amalgamation or reconstruction, the entire property, assets and undertaking of the Contractor are transferred to the amalgamated or reconstructed entity and that the amalgamated or reconstructed entity has unconditionally assumed the obligations of the Contractor under this Agreement; and provided that:
 - ✓ The amalgamated or reconstructed entity has the capability and experience necessary for the performance of its obligations under this Agreement; and
 - ✓ The amalgamated or reconstructed entity has the financial standing to perform its obligations under this Agreement and has a credit worthiness at least as good as that of the Contractor as at the Appointed Date;
- o) Any representation or warranty of the Contractor herein contained which is, as of the date hereof, found to be materially false or the Contractor is at any time hereafter found to be in breach thereof;
- p) The Contractor submits to the Employer any statement, notice or other document, in written or electronic form, which has a material effect on the Employer's rights, obligations or interests and which is false in material particulars;
- q) The Contractor has failed to fulfil any obligation, for which failure Termination has been specified in this Agreement; or
- r) The Contractor commits a default in complying with any other provision of this Agreement if such a default causes a Material Adverse Effect on the Project or on the Employer.
- s) Gives or offers to give (directly or indirectly) to any person any bribe, gift, gratuity, commission or other thing of value, as an inducement or reward:
 - ✓ For doing or forbearing to do any action in relation to the Contract, or
 - ✓ For showing or forbearing to show favour or disfavour to any person in relation to the Contract, or
 - ✓ If any of the Contractor's personnel, agents or subcontractors gives or offers to give (directly or indirectly) to any person any such inducement or reward as is described in this sub-paragraph (s). However, lawful inducements and rewards to Contractor's Personnel shall not entitle termination

23.1.2 Without prejudice to any other rights or remedies which the Employer may have under this Agreement, upon occurrence of a Contractor Default, the Employer shall be entitled to terminate this Agreement by issuing a Termination Notice to the Contractor; provided that before issuing the Termination Notice, the Employer shall by a notice informing the Contractor of its intention to issue such Termination Notice and grant 15 (fifteen) days to the Contractor to make a representation, and may after the expiry of such 15 (fifteen) days, whether or not it is in receipt of such representation, issue the Termination Notice.

- 23.1.3 After termination of this Agreement for Contractor Default, the Employer may complete the Works and/or arrange for any other entities to do so. The Employer and these entities may then use any Materials, Plant and equipment, Contractor's documents and other design documents made by or on behalf of the Contractor.

23.2 Termination for Employer Default

23.2.1 Deleted

- 23.2.2 If the Employer determines, based on reasonable evidence, that the Contractor has engaged in corrupt, fraudulent, collusive or coercive practices, in competing for or in executing the Contract, then the Employer may, after giving 14 days' notice to the Contractor, terminate the Contract and expel him from the Site, and the provisions of Article 23 shall apply as if such termination had been made under Clause 23.1

Should any employee of the Contractor be determined, based on reasonable evidence, to have engaged in corrupt, fraudulent or coercive practice during the execution of the work then that employee shall be removed from the site or works. If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.

- 23.2.3 Without prejudice to any other right or remedy which the Contractor may have under this Agreement, upon occurrence of an Employer Default, the Contractor shall be entitled to terminate this Agreement by issuing a Termination Notice to the Employer; provided that before issuing the Termination Notice, the Contractor shall by a notice inform the Employer of its intention to issue the Termination Notice and grant 15 (fifteen) days to the Employer to make a representation, and may after the expiry of such 15 (fifteen) days, whether or not it is in receipt of such representation, issue the Termination Notice.

If on the consideration of the Employer's representation or otherwise, the contractor does not issue the Termination Notice on such 15th day and prefers to continue with the project, it is deemed that the cause of action of the Termination Notice has been condoned by the Contractor. Hence he forfeits his right to any other remedy on that count.

23.3 Termination for Employer's convenience

Notwithstanding anything stated hereinabove, the Employer may terminate this Agreement for convenience. The termination shall take effect 30 (thirty) days from the date of notice hereunder.

23.4 Requirements after Termination

Upon Termination of this Agreement in accordance with the terms of this Article 23, the Contractor shall comply with and conform to the following:

- ¹⁹⁾ Deliver to the Employer all Plant and Materials which shall have become the property of the Employer under this Article 23;
- ¹⁹⁾ Deliver all relevant records, reports, Intellectual Property and other licences pertaining to the Works, Maintenance, other design documents and in case of Termination occurring after the Provisional Certificate has been issued, the "as built" Drawings for the Works;
- ¹⁹⁾ Transfer and/or deliver all Applicable Permits to the extent permissible under Applicable Laws; and
- d) Vacate the Site within 15 (fifteen) days.

23.5 Valuation of Unpaid Works

23.5.1 Within a period of 45 (forty-five) days after Termination under Clause 23.1, 23.2 or 23.3, as the case may be, has taken effect, the Employer's Engineer shall proceed in accordance with Clause 18.5 to determine as follows the valuation of unpaid Works (the "Valuation of Unpaid Works"):

- ¹⁹⁾ Value of the completed stage of the Works, less payments already made;
- ¹⁹⁾ Reasonable value of the partially completed stages of works as on the date of Termination, only if such works conform with the Specifications and Standards; and
- ¹⁹⁾ Value of Maintenance, if any, for completed months, less payments already made, and shall adjust from the sum thereof (i) any other amounts payable or recoverable, as the case may be, in accordance with the provisions of this Agreement; and (ii) all taxes due to be deducted at source.

23.5.2 The Valuation of Unpaid Works shall be communicated to the Employer, with a copy to the Contractor, within a period of 30 (thirty) days from the date of Termination.

23.6 Termination Payment

23.6.1 Upon Termination on account of Contractor's Default under Clause 23.1, the Employer shall:

- ¹⁹⁾ Encash and appropriate the Performance Security and Retention Money, or in the event the Contractor has failed to replenish or extend the Performance Security, claim the amount stipulated in Clause 7.1.1, as agreed pre-determined compensation to the Employer for any losses, delays and cost of completing the Works and Maintenance, if any;
- ¹⁹⁾ Encash and appropriate the bank guarantee, if any, for and in respect of the outstanding Advance Payment and interest thereon; and
- ¹⁹⁾ Pay to the Contractor, by way of Termination Payment, an amount equivalent to the Valuation of Unpaid Works after adjusting any other sums payable or recoverable, as the case may be, in accordance with the provisions of this Agreement.

23.6.2 Upon Termination on account of an Employer Default under Clause 23.2 or for Employer's convenience under Clause 23.3, the Employer shall:

- ¹⁹⁾ Return the Performance Security and Retention Money forthwith;
- ¹⁹⁾ Encash and appropriate the bank guarantee, if any, for and in respect of the outstanding Advance Payment; and
- ¹⁹⁾ Pay to the Contractor, by way of Termination Payment, an amount equal to:
 - ¹⁹⁾ Valuation of Unpaid Works;
 - ii) the reasonable cost, as determined by the Employer's Engineer, of the Plant and Materials procured by the Contractor and transferred to the Employer for its use, only if such Plant and Materials are in conformity with the Specifications and Standards;
 - n) The reasonable cost of temporary works, as determined by the Employer's Engineer; and
 - iv) 10% (ten per cent) of the cost of the Works and Maintenance that are not commenced or not completed, and shall adjust from the sum thereof (i) any other amounts payable

or recoverable, as the case may be, in accordance with the provisions of this Agreement, and (ii) all taxes due to be deducted at source.

23.6.3 Termination Payment shall become due and payable to the Contractor within 30 (thirty) days of a demand being made by the Contractor to the Employer with the necessary particulars, and in the event of any delay, the Employer shall pay simple interest at 12% (twelve percent) per annum, calculated at quarterly rests, on the amount of Termination Payment remaining unpaid; provided that such delay shall not exceed 90 (ninety) days. For the avoidance of doubt, it is expressly agreed that Termination Payment shall constitute full discharge by the Employer of its payment obligations in respect thereof hereunder.

23.6.4 The Contractor expressly agrees that Termination Payment under this Article 23 shall constitute a full and final settlement of all claims of the Contractor on account of Termination of this Agreement and that it shall not have any further right or claim under any law, treaty, convention, contract or otherwise.

23.7 Other rights and obligations of the Parties

Upon Termination for any reason whatsoever

- ¹⁹⁾ Property and ownership in all Materials, Plant and Works and the Terminal shall, as between the Contractor and the Employer, vest in the Employer in whole; provided that the foregoing shall be without prejudice to Clause 23.6
- ¹⁹⁾ Risk of loss or damage to any Materials, Plant or Works and the care and custody thereof shall pass from the Contractor to the Employer; and
- ¹⁹⁾ The Employer shall be entitled to restrain the Contractor and any person claiming through or under the Agreement from entering upon the Site or any part of the Project except for taking possession of materials, stores, implements, construction plants and equipment of the Contractor, which have not been vested in the Employer in accordance with the provisions of this Agreement.

23.8 Survival of Rights

Notwithstanding anything to the contrary contained in this Agreement any Termination pursuant to the provisions of this Agreement shall be without prejudice to the accrued rights of either Party including its right to claim and recover money damages, insurance proceeds, security deposits, and other rights and remedies, which it may have in law or Agreement. All rights and obligations of either Party under this Agreement, including Termination Payments, shall survive the Termination to the extent such survival is necessary for giving effect to such rights and obligations.

Part VI – Other Provisions

ARTICLE-24

ASSIGNMENT AND CHARGES

24.1 Restrictions on Assignment and Charges

This Agreement shall not be assigned by the Contractor to any person, save and except with the prior consent in writing of the Employer, which consent the Employer shall be entitled to decline without assigning any reason.

24.2 Hypothecation of Materials or Plant

Notwithstanding the provisions of Clause 24.1, the Contractor may pledge or hypothecate to its lenders, any Materials or Plant prior to their incorporation in the Works. Further, the Contractor may, by written notice to the Employer, assign its right to receive payments under this Agreement either absolutely or by way of charge, to any person providing financing to the Contractor in connection with the performance of the Contractor's obligations under this Agreement. The Contractor acknowledges that any such assignment by the Contractor shall not relieve the Contractor from any obligations, duty or responsibility under this Agreement.

ARTICLE-25

LIABILITY AND INDEMNITY

25.1 General Indemnity

25.1.1 The Contractor will indemnify, defend, save and hold harmless the Employer and its officers, servants, agents, Government Instrumentalities and Government owned and/or controlled entities/enterprises, (the "Employer Indemnified Persons") against any and all suits, proceedings, actions, demands and third party claims for any loss, damage, cost and expense of whatever kind and nature, whether arising out of any breach by the Contractor of any of its obligations under this Agreement or from any negligence under the Agreement, including any errors or deficiencies in the design documents, or tort or on any other ground whatsoever, except to the extent that any such suits, proceedings, actions, demands and claims have arisen due to any negligent act or omission, or breach or default of this Agreement on the part of the Employer Indemnified Persons.

25.2 Indemnity by the Contractor

25.2.1 Without limiting the generality of Clause 25.1, the Contractor shall fully indemnify, hold harmless and defend the Employer and the Employer Indemnified Persons from and against any and all loss and/or damages arising out of or with respect to:

- ¹⁹⁾ Failure of the Contractor to comply with Applicable Laws and Applicable Permits;
- ¹⁹⁾ Payment of taxes required to be made by the Contractor in respect of the income or other taxes of the Sub-contractors, suppliers and representatives; or
- ¹⁹⁾ Non-payment of amounts due as a result of Materials or services furnished to the Contractor or any of its Sub-contractors which are payable by the Contractor or any of its Sub-contractors.

25.2.2 Without limiting the generality of the provisions of this Article 25, the Contractor shall fully indemnify, hold harmless and defend the Employer Indemnified Persons from and against any and all suits, proceedings, actions, claims, demands, liabilities and damages which the Employer Indemnified Persons may hereafter suffer, or pay by reason of any demands, claims, suits or proceedings arising out of claims of infringement of any domestic or foreign patent rights, copyrights or other intellectual property, proprietary or confidentiality rights with respect to any materials, information, design or process used by the Contractor or by the Sub-contractors in performing the Contractor's obligations or in any way incorporated in or related to the Project. If in any such suit, action, claim or proceedings, a temporary restraint order or preliminary injunction is granted, the Contractor shall make every reasonable effort, by giving a satisfactory bond or otherwise, to secure the revocation or suspension of the injunction or restraint order. If, in any such suit, action, claim or proceedings, the Terminal, or any part thereof or comprised therein, is held to constitute an infringement and its use is permanently enjoined, the Contractor shall promptly make every reasonable effort to secure for the Employer a licence, at no cost to the Employer, authorising continued use of the infringing work. If the Contractor is unable to secure such licence within a reasonable time, the Contractor shall, at its own expense, and without impairing the Specifications and Standards, either replace the affected work, or part, or process thereof with non-infringing work or part or process, or modify the same so that it becomes non-infringing.

25.3 Notice and Contest of Claims

In the event that either Party receives a claim or demand from a third party in respect of which it is entitled to the benefit of an indemnity under this Article 25 (the “Indemnified Party”) it shall notify the other Party (the “Indemnifying Party”) within 15 (fifteen) days of receipt of the claim or demand and shall not settle or pay the claim without the prior approval of the Indemnifying Party, which approval shall not be unreasonably withheld or delayed. In the event that the Indemnifying Party wishes to contest or dispute the claim or demand, it may conduct the proceedings in the name of the Indemnified Party, subject to the Indemnified Party being secured against any costs involved, to its reasonable satisfaction.

25.4 Defence of Claims

- 25.4.1 The Indemnified Party shall have the right, but not the obligation, to contest, defend and litigate any claim, action, suit or proceeding by any third party alleged or asserted against such Party in respect of, resulting from, related to or arising out of any matter for which it is entitled to be indemnified hereunder, and reasonable costs and expenses thereof shall be indemnified by the Indemnifying Party. If the Indemnifying Party acknowledges in writing its obligation to indemnify the Indemnified Party in respect of loss to the full extent provided by this Article 25, the Indemnifying Party shall be entitled, at its option, to assume and control the defence of such claim, action, suit or proceeding, liabilities, payments and obligations at its expense and through the counsel of its choice; provided it gives prompt notice of its intention to do so to the Indemnified Party and reimburses the Indemnified Party for the reasonable cost and expenses incurred by the Indemnified Party prior to the assumption by the Indemnifying Party of such defence. The Indemnifying Party shall not be entitled to settle or compromise any claim, demand, action, suit or proceeding without the prior written consent of the Indemnified Party, unless the Indemnifying Party provides such security to the Indemnified Party as shall be reasonably required by the Indemnified Party to secure the loss to be indemnified hereunder to the extent so compromised or settled.
- 25.4.2 If the Indemnifying Party has exercised its rights under Clause 25.3, the Indemnified Party shall not be entitled to settle or compromise any claim, action, suit or proceeding without the prior written consent of the Indemnifying Party (which consent shall not be unreasonably withheld or delayed).
- 25.4.3 If the Indemnifying Party exercises its rights under Clause 25.3, the Indemnified Party shall nevertheless have the right to employ its own counsel, and such counsel may participate in such action, but the fees and expenses of such counsel shall be at the expense of the Indemnified Party, when and as incurred, unless:
- ¹⁹⁾ The employment of counsel by such party has been authorised in writing by the Indemnifying Party; or
 - ¹⁹⁾ The Indemnified Party shall have reasonably concluded that there may be a conflict of interest between the Indemnifying Party and the Indemnified Party in the conduct of the defence of such action; or
 - ¹⁹⁾ The Indemnifying Party shall not, in fact, have employed independent counsel reasonably satisfactory to the Indemnified Party, to assume the defence of such action and shall have been so notified by the Indemnified Party; or
 - ¹⁹⁾ The Indemnified Party shall have reasonably concluded and specifically notified the Indemnifying Party either:

- 19) That there may be specific defences available to it which are different from or additional to those available to the Indemnifying Party; or
- ii) That such claim, action, suit or proceeding involves or could have a material adverse effect upon it beyond the scope of this Agreement:

Provided that if Sub-clauses (b), (c) or (d) of this Clause 25.4.3 shall be applicable, the counsel for the Indemnified Party shall have the right to direct the defence of such claim, demand, action, suit or proceeding on behalf of the Indemnified Party, and the reasonable fees and disbursements of such counsel shall constitute legal or other expenses hereunder.

25.5 No Consequential Claims

Notwithstanding anything to the contrary contained in this Article 25, the indemnities herein provided shall not include any claim or recovery in respect of any cost, expense, loss or damage of an indirect, incidental or consequential nature, including loss of profit, except as expressly provided in this Agreement.

25.6 Survival on Termination

The provisions of this Article 25 shall survive Termination.

ARTICLE-26

DISPUTE & CONCILIATION

26.1 Dispute Resolution

- 26.1.1 Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure set forth in Clause 26.2.
- 26.1.2 The Parties agree to use their best efforts for resolving all Disputes arising under or in respect of this Agreement promptly, equitably and in good faith, and further agree to provide each other with reasonable access during normal business hours to all non- privileged records, information and data pertaining to any Dispute.

26.2 Conciliation

26.2.1 Contractor's Claims

If the Contractor considers himself to be entitled to any extension of the Time for Completion and/or any additional payment, under any Clause of this Agreement, the Contractor shall give notice to the Employer's Engineer, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than 28 days after the Contractor became aware, or should have become aware, of the event or circumstance. If the Contractor fails to give notice of a claim within such period of 28 days, the Time for Completion shall not be extended, the Contractor shall not be entitled to additional payment, and the Employer shall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Clause shall apply. The Contractor shall also submit any other notices that are required by the Contract, and supporting particulars for the claim, all as relevant to such event or circumstance. The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the Site or at another location acceptable to the Employer's Engineer. Without admitting the Employer's liability, the Employer's Engineer may, after receiving any notice under this Clause, monitor the record-keeping and/or instruct the Contractor to keep further contemporary records. The Contractor shall permit the Employer's Engineer to inspect all these records, and shall (if instructed) submit copies to the Employer's Engineer. Within 42 days after the Contractor became aware (or should have become aware) of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Employer's Engineer, the Contractor shall send to the Employer's Engineer a fully detailed claim including full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed. If the event or circumstance giving rise to the claim has a continuing effect:

- ✓ This fully detailed claim shall be considered as interim;
- ✓ The Contractor shall send further interim claims at monthly intervals, giving the accumulated delay and/or amount claimed, and such further particulars as the Employer's Engineer may reasonably require; and
- ✓ The Contractor shall send a final claim within 28 days after the end of the effects resulting from the event or circumstance, or within such other period as may be

proposed by the Contractor and approved by the Employer's Engineer. Within 42 days after receiving a claim or any further particulars supporting a previous claim, or within such other period as may be proposed by the Employer's Engineer and approved by the Contractor, the Employer's Engineer shall respond with approval, or with disapproval and detailed comments. He may also request any necessary further particulars, but shall nevertheless give his response on the principles of the claim within the above defined time period. Within the above defined period of 42 days, the Employer's Engineer shall to agree or determine (i) the extension (if any) of the Time for Completion (before or after its expiry), and/or (ii) the additional payment (if any) to which the Contractor is entitled under the Contract. Each Payment Certificate shall include such additional payment for any claim as has been reasonably substantiated as due under the relevant provision of the Contract. Unless and until the particulars supplied are sufficient to substantiate the whole of the claim, the Contractor shall only be entitled to payment for such part of the claim as he has been able to substantiate. If the Employer's Engineer does not respond within the timeframe defined in this Clause, either Party may consider that the claim is rejected by the Employer's Engineer and any of the Parties may refer to the Dispute Board in accordance with Clause

26.2.2. The requirements of this Clause are in addition to those of any other Clause which may apply to a claim. If the Contractor fails to comply with this or another Sub-Clause in relation to any claim, any extension of time and/or additional payment shall take account of the extent (if any) to which the failure has prevented or prejudiced proper investigation of the claim, unless the claim is excluded for reasons under this Clause.

26.2.2 Appointment of the Dispute Resolution Board (DRB)

Disputes shall be referred to a DRB for decision in accordance with this Clause. The Parties shall appoint a DRB within 3 months of signing of Agreement. The DRB shall comprise of three suitably qualified persons (the members), each of whom shall be a professional led in the type of construction involved in the Works and with the interpretation of contractual documents. The DRB is to comprise of three persons, each Party shall nominate one member for the approval of the other Party. The first two members shall recommend and the Parties shall agree upon the third member, who shall act as chairman. The terms of the remuneration of each of the three members, including the remuneration of any expert whom the DRB consults, shall be mutually agreed upon by the Parties. Each Party shall be responsible for paying one-half of this remuneration. If at any time the Parties so agree, they may jointly refer a matter to the DRB for it to give its opinion. Neither Party shall consult the DRB on any matter without the agreement of the other Party. If a member declines to act or is unable to act as a result of death, disability, resignation or termination of appointment, a replacement shall be appointed in the same manner as the replaced person was required to have been nominated or agreed upon, as described in this Clause. The appointment of any member may be terminated by mutual agreement of both Parties, but not by the Employer or the Contractor acting alone. Unless otherwise agreed by both Parties, the appointment of the DRB (including each member) shall expire when the Performance Certificate is issued by the Employer.

26.2.3 Obtaining Dispute Board's Decision

If a dispute (of any kind whatsoever) arises between the Parties in connection with, or arising out of, the Contract or the execution of the Works, including any dispute as to any certificate, determination, instruction, opinion or valuation of the Employer's Engineer, either Party may refer the dispute in writing to the DB for its decision, with copies to the

other Party and the Employer's Engineer. Such reference shall state that it is given under this Clause. The DB shall be deemed to have received such reference on the date when it is received by the chairman of the DB. Both Parties shall promptly make available to the DB all such additional information, further access to the Site, and appropriate facilities, as the DB may require for the purposes of making a decision on such dispute. The DB shall be deemed to be not acting as arbitrator(s). Within 84 days after receiving such reference, or within such other period as may be proposed by the DB and approved by both Parties, the DB shall give its decision, which shall be reasoned and shall state that it is given under this Sub-Clause. The decision shall be binding on both Parties, who shall promptly give effect to it unless and until it shall be revised in an amicable settlement or an arbitral award as described below. Unless the Contract has already been abandoned, repudiated or terminated, the Contractor shall continue to proceed with the Works in accordance with the Contract. If either Party is dissatisfied with the DB's decision, then either Party may, within 28 days after receiving the decision, give a Notice of Dissatisfaction to the other Party indicating its dissatisfaction and intention to commence arbitration. If the DB fails to give its decision within the period of 84 days (or as otherwise approved) after receiving such reference, then either Party may, within 28 days after this period has expired, give a Notice of Dissatisfaction to the other Party. In either event, this Notice of Dissatisfaction shall state that it is given under this Clause, and shall set out the matter in dispute and the reason(s) for dissatisfaction. Neither Party shall be entitled to commence arbitration of a dispute unless a Notice of Dissatisfaction has been given in accordance with this Clause. If the DB has given its decision as to a matter in dispute to both Parties, and no Notice of Dissatisfaction has been given by either Party within 28 days after it received the DB's decision, then the decision shall become final and binding upon both Parties.

26.3 Arbitration

- 26.3.1 Any Dispute which is not resolved amicably by conciliation, as provided in Clause 26.2, shall be finally decided by reference to arbitration by a Board of Arbitrators appointed in accordance with Clause 26.3.2.

For Indian Contractor, such arbitration shall be held in accordance with the Arbitration & Conciliation (Amendment) Act, 2015 of India. The venue of such arbitration shall be New Delhi. The language of arbitration proceedings shall be English.

However, arbitration shall be held in accordance with UNCITRAL Rules in case Contractor is registered outside India. The venue of such arbitration shall be a neutral venue or a venue mutually agreed at the time of signing of contract agreement. The language of arbitration proceedings shall be English.

- 26.3.2 Disputes shall be settled by arbitration in accordance with the following provisions:

19. Selection of Arbitrators. Each dispute submitted by a Party to arbitration shall be heard by an arbitration tribunal composed of three (3) arbitrators, in accordance with the following provisions:
- 19) The Employer and the Contractor shall each appoint one (1) arbitrator, and these two arbitrators shall jointly appoint a third arbitrator, who shall chair the arbitration tribunal. If the arbitrators named by the Parties do not succeed in appointing a third arbitrator within thirty (30) days after the latter of the two (2) arbitrators named by the Parties has been appointed, the third arbitrator shall, at the request of either Party, be appointed by Secretary, the Indian Council of Arbitration, New Delhi
- b) If, in a dispute subject to paragraph (a) above, one Party fails to appoint its arbitrator within thirty (30) days after the other Party has appointed its arbitrator, the Party

which has named an arbitrator may apply to the Secretary, the Indian Council of Arbitration, New Delhi to appoint an arbitrator for the matter in dispute, and the arbitrator appointed pursuant to such application shall be the arbitrator of the other party for that dispute.

19. Rules of Procedure. Arbitration proceedings shall be conducted in accordance with procedure of the Arbitration & Conciliation (Amendment) Act 2015, of India for Indian Contractor. Rules of Procedure. Arbitration proceedings shall be conducted in accordance with procedure of the UNCITRAL rules for Contractors registered outside India.
19. Substitute Arbitrators. If for any reason an arbitrator is unable to perform his/her function, a substitute shall be appointed in the same manner as the original arbitrator.
4. Nationality and Qualifications of Arbitrators. The arbitrators appointed pursuant to paragraphs 1(a) through 1(b) above shall be a legal or technical expert with extensive le in relation to the matter in dispute.
5. Miscellaneous. In any arbitration proceeding hereunder:
 - 19) Proceedings shall be held in New Delhi for Indian Contractors.
 Proceedings shall be held in a neutral venue or a venue mutually agreed at the time of signing of contract agreement for a Contractor registered outside India.
 - 19) The English language shall be the official language for all purposes; and
 - 19) The decision of the majority of the arbitrators shall be final and binding and shall be enforceable in any court of competent jurisdiction, and the Parties hereby waive any objections to or claims of immunity in respect of such enforcement.
 - 19) The expenses incurred by each party in connection with the dispute preparation, presentation etc. of its proceedings as also the fees and expenses paid to the Arbitrator appointed by such party or on its behalf shall be borne by each party itself. Fees and expenses for the Presiding Arbitrator ling the cost of proceedings shall be shared equally by both the parties.
- e) Court Jurisdiction: New Delhi

ARTICLE-27

MISCELLANEOUS

27.1 Governing Law and Jurisdiction

This Agreement shall be construed and interpreted in accordance with and governed by the laws of India, and the courts at New Delhi shall have exclusive jurisdiction over matters arising out of or relating to this Agreement.

27.2 Waiver of Immunity

Each Party unconditionally and irrevocably:

- ¹⁹⁾ agrees that the execution, delivery and performance by it of this Agreement constitute commercial acts done and performed for commercial purpose;
- ¹⁹⁾ agrees that, should any proceedings be brought against it or its assets, property or revenues in any jurisdiction in relation to this Agreement or any transaction contemplated by this Agreement, no immunity (whether by reason of sovereignty or otherwise) from such proceedings shall be claimed by or on behalf of the Party with respect to its assets;
- ¹⁹⁾ waives any right of immunity which it or its assets, property or revenues now has, may acquire in the future or which may be attributed to it in any jurisdiction; and
- ¹⁹⁾ consents generally in respect of the enforcement of any judgement or award against it in any such proceedings to the giving of any relief or the issue of any process in any jurisdiction in connection with such proceedings (including the making, enforcement or execution against it or in respect of any assets, property or revenues whatsoever irrespective of their use or intended use of any order or judgement that may be made or given in connection therewith).

27.3 Delayed Payments

The Parties hereto agree that payments due from one Party to the other Party under the provisions of this Agreement shall be made within the period set forth therein, and if no such period is specified, within 30 (thirty) days of receiving a demand along with the necessary particulars. In the event of delay beyond such period, the defaulting Party shall pay simple interest for the period of delay calculated at a rate equal to 12% (twelve percent) per annum, calculated at quarterly rests, and recovery thereof shall be without prejudice to the rights of the Parties under this Agreement including Termination thereof.

27.4 Waiver

27.4.1 Waiver, including partial or conditional waiver, by either Party of any default by the other Party in the observance and performance of any provision of or obligations under this Agreement:-

- ¹⁹⁾ Shall not operate or be construed as a waiver of any other or subsequent default hereof or of other provisions of or obligations under this Agreement;
- ¹⁹⁾ Shall not be effective unless it is in writing and executed by a duly authorised representative of the Party; and
- c) Shall not affect the validity or enforceability of this Agreement in any manner.

27.4.2 Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement or any obligation thereunder nor time or other indulgence granted by a Party to the other Party shall be treated or deemed as waiver of such breach or acceptance of any variation or the relinquishment of any such right hereunder.

27.5 Liability for review of Documents and Drawings

Except to the extent expressly provided in this Agreement:

- ¹⁹⁾ No review, comment or approval by the Employer or the Employer's Engineer of any Document or Drawing submitted by the Contractor nor any observation or inspection of the construction, or maintenance of the Terminal nor the failure to review, approve, comment, observe or inspect hereunder shall relieve or absolve the Contractor from its obligations, duties and liabilities under this Agreement, the Applicable Laws and Applicable Permits; and
- ¹⁹⁾ The Employer shall not be liable to the Contractor by reason of any review, comment, approval, observation or inspection referred to in Sub-clause (a) above.

27.6 Exclusion of implied warranties etc.

This Agreement expressly excludes any warranty, condition or other undertaking implied at law or by custom or otherwise arising out of any other agreement between the Parties or any representation by either Party not contained in a binding legal agreement executed by both Parties.

27.7 Survival

27.7.1 Termination shall:

- ¹⁹⁾ Not relieve the Contractor or the Employer, as the case may be, of any obligations hereunder which expressly or by implication survive Termination hereof; and
- ¹⁹⁾ Except as otherwise provided in any provision of this Agreement expressly limiting the liability of either Party, not relieve either Party of any obligations or liabilities for loss or damage to the other Party arising out of, or caused by, acts or omissions of such Party prior to the effectiveness of such Termination or arising out of such Termination.

27.7.2 All obligations surviving Termination shall only survive for a period of 3 (three) years following the date of such Termination.

27.8 Entire Agreement

This Agreement and the Schedules together constitute a complete and exclusive statement of the terms of the agreement between the Parties on the subject hereof, and no amendment or modification hereto shall be valid and effective unless such modification or amendment is agreed to in writing by the Parties and duly executed by persons especially empowered in this behalf by the respective Parties. All prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement are abrogated and withdrawn. For the avoidance of doubt, the Parties hereto agree that any obligations of the Contractor arising from the IFB as the case may be, shall not be deemed to form part of this Agreement and treated as such.

27.9 Severability

If for any reason whatever, any provision of this Agreement is or becomes invalid, illegal or unenforceable or is declared by any court of competent jurisdiction or any other

instrumentality to be invalid, illegal or unenforceable, the validity, legality or enforceability of the remaining provisions shall not be affected in any manner, and the Parties will negotiate in good faith with a view to agreeing to one or more provisions which may be substituted for such invalid, unenforceable or illegal provisions, as nearly as is practicable to such invalid, illegal or unenforceable provision. Failure to agree upon any such provisions shall not be subject to the Dispute Resolution Procedure set forth under this Agreement or otherwise.

27.10 No partnership

This Agreement shall not be interpreted or construed to create an association, joint venture or partnership between the Parties, or to impose any partnership obligation or liability upon either Party, and neither Party shall have any right, power or Employer to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

27.11 Third parties

This Agreement is intended solely for the benefit of the Parties and their respective successors and permitted assigns, and nothing in this Agreement shall be construed to create any duty to, standard of care with reference to, or any liability to, any person not a Party to this Agreement.

27.12 Successors and assigns

This Agreement shall be binding upon, and inure to the benefit of the Parties and their respective successors and permitted assigns.

27.13 Notices

Any notice or other communication to be given by any Party to the other Party under or in connection with the matters contemplated by this Agreement shall be in writing and shall:

- 19) in the case of the Contractor, be given by facsimile or e-mail and by letter delivered by hand to the address given and marked for attention of the person set out below or to such other person as the Contractor may from time to time designate by notice to the Employer; provided that notices or other communications to be given to an address outside New Delhi may, if they are subsequently confirmed by sending a copy thereof by registered acknowledgement due, air mail or by courier, be sent by facsimile or e-mail to the person as the Contractor may from time to time designate by notice to the Employer;
- 19) in the case of the Employer, be given by facsimile or e-mail and by letter delivered by hand and be addressed to the Employer with a copy delivered to the Employer Representative or such other person as the Employer may from time to time designate by notice to the Contractor; provided that if the Contractor does not have an office in New Delhi it may send such notice by facsimile or e-mail and by registered acknowledgement due, air mail or by courier; and
- c) any notice or communication by a Party to the other Party, given in accordance herewith, shall be deemed to have been delivered when in the normal course of post it ought to have been delivered and in all other cases, it shall be deemed to have been delivered on the actual date and time of delivery; provided that in the case of facsimile or e-mail, it shall be deemed to have been delivered on the working day following the date of its delivery.

27.14 Language

All notices required to be given by one Party to the other Party and all other communications, Documentation and proceedings which are in any way relevant to this Agreement shall be in writing and in English language.

27.15 Counterparts

This Agreement may be executed in two counterparts, each of 1h, when executed and delivered, shall constitute an original of this Agreement.

27.16 Confidentiality

The Parties shall treat the details of this Agreement as private and confidential, except to the extent necessary to carry out obligations under it or to comply with Applicable Laws. The Contractor shall not publish, permit to be published, or disclose any particulars of the Works in any trade or technical paper or elsewhere without the previous agreement of the Employer.

27.17 Copyright and Intellectual Property Rights

27.17.1 As between the Parties, the Contractor shall retain the copyright and other intellectual property rights in the Contractor's Documents and other design documents made by (or on behalf of) the Contractor. The Contractor shall be deemed (by signing this Agreement) to give to the Employer a non-terminable transferable non-exclusive royalty-free licence to copy, use and communicate the Contractor's Documents, including making and using modifications of them. This licence shall:

- 19) Apply throughout the actual or intended working life (however is longer) of the relevant parts of the Works,
- 19) Entitle any person in proper possession of the relevant part of the Works to copy, use and communicate the Contractor's Documents for the purposes of completing, operating, maintaining, altering, adjusting, repairing and demolishing the Works, and
- 19) In the case of Contractor's Documents which are in the form of computer programs and other software, permit their use on any computer on the Site and other places as envisaged by this Agreement, including replacements of any computers supplied by the Contractor:

27.17.2 The Contractor's Documents and other design documents made by (or on behalf of) the Contractor shall not, without the Contractor's consent, be used, copied or communicated to a third party by (or on behalf of) the Employer for purposes other than those permitted under this Clause 27.17.

27.17.3 As between the Parties, the Employer shall retain the copyright and other intellectual property rights in this Agreement and other documents made by (or on behalf of) the Employer. The Contractor may, at its cost, copy, use, and obtain communication of these documents for the purposes of this Agreement. They shall not, without the Employer's consent, be copied, used or communicated to a third party by the Contractor, except as necessary for the purposes of the contract.

27.18 Limitation of Liability

27.18.1 Neither Party shall be liable to the other Party for loss of use of any Works, loss of profit, loss of any contract or for any indirect or consequential loss or damage which may be suffered by the other Party in connection with this Agreement, save and except as provided under Articles 23 and 25.

27.18.2 The total liability of one Party to the other Party under and in accordance with the provisions of this Agreement, save and except as provided in Articles 23 and 25, shall not exceed the Contract Price. For the avoidance of doubt, this Clause shall not limit the liability in any case of fraud, deliberate default or reckless misconduct by the defaulting Party.

27.19 Precedence Clause

27.19.1 The order of precedence for bid document which would prevail over others in case of contradictions in interpretation of any issue mentioned in two or more documents will be in the following order:

- ✓ Drawings would prevail over BOQ
- ✓ Technical Specifications (TS) would prevail over Drawing
- ✓ General Conditions of the Contract (GCC) would prevail over TS
- ✓ Special Conditions of Contract (SCC) would prevail over GCC
- ✓ Particular Conditions of Contract (PCC) would prevail over SCC

ARTICLE-28

DEFINITIONS

28.1 Definitions

In this Agreement, the following words and expressions shall, unless repugnant to the context or meaning thereof, have the meaning hereinafter respectively assigned to them:

“Accounting Year” means the financial year commencing from the first day of April of any calendar year and ending on the thirty-first day of March of the next calendar year;

“Advance Payment” shall have the meaning set forth in Clause 19.2;

“Affected Party” shall have the meaning set forth in Clause 21.1;

“Affiliate” means, in relation to either Party {and/or Members}, a person who controls, is controlled by, or is under the common control with such Party {or Member} (as used in this definition, the expression “control” means, with respect to a person which is a company or corporation, the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such person, and with respect to a person who is not a company or corporation, the power to direct the management and policies of such person, whether by operation of law or by contract or otherwise);

“Agreement” means this Agreement, its Recitals, the Schedules hereto and any amendments thereto made in accordance with the provisions contained in this Agreement;

“Applicable Laws” means all laws, brought into force and effect by GOI or the State Government including rules, regulations and notifications made thereunder, and judgements, decrees, injunctions, writs and orders of any court of record, applicable to this Agreement and the exercise, performance and discharge of the respective rights and obligations of the Parties hereunder, as may be in force and effect during the subsistence of this Agreement;

“Applicable Permits” means all clearances, licences, permits, authorisations, no objection certificates, consents, approvals and exemptions required to be obtained or maintained under Applicable Laws in connection with the construction, operation and maintenance of the Terminal during the subsistence of this Agreement;

“Appointed Date” means that date which is later of the 15th day of the date of this Agreement, the date on which the Contractor has delivered the Performance Security in accordance with the provisions of Article 7 and the date on which the Employer has provided in stretches the Right of Way on first Section as per Schedule A;

“Arbitration Act” means the Arbitration and Conciliation Act, 1996 and shall include modifications to or any re-enactment thereof, as in force from time to time;

“Employer” shall have the meaning attributed thereto in the array of Parties hereinabove as set forth in the Recitals;

“Employer Default” shall have the meaning set forth in Clause 23.2;

“Employer’s Engineer” shall have the meaning set forth in Clause 18.1;

“Employer Representative” means such person or persons as may be authorised in writing by the Employer to act on its behalf under this Agreement and shall include any

person or persons having Employer to exercise any rights or perform and fulfil any obligations of the Employer under this Agreement;

“Bank of Bidder ” means a bank incorporated in India and having a minimum net worth of Rs. 1,000 crore (Rupees one thousand crore) or any other bank acceptable to the Employer;

“Base Rate” means the floor rate of interest announced by the State Bank of India for all its lending operations;

“Base Date” means the last date of that calendar month, which date precedes the Bid Due Date by at least 28 (twenty eight) days;

“Bid” means the documents in their entirety comprised in the bid submitted by the (selected bidder/Consortium) in response to the Request for Qualification (RFQ) and Request for Proposals (RFP) in accordance with the provisions thereof;

“Bid Security” means the bid security provided by the Contractor to the Employer in accordance with the Request for Proposal, and which is to remain in force until substituted by the Performance Security;

“Change in Law” means the occurrence of any of the following after the Base Date:

- ¹⁹⁾ The enactment of any new Indian law;
- ¹⁹⁾ The repeal, modification or re-enactment of any existing Indian law;
- ¹⁹⁾ The commencement of any Indian law which has not entered into effect until the Base Date;
- ¹⁹⁾ A change in the interpretation or application of any Indian law by a judgement of a court of record which has become final, conclusive and binding, as compared to such interpretation or application by a court of record prior to the Base Date.

“Change of Scope” shall have the meaning set forth in Article 13;

“Change of Scope Notice” shall have the meaning set forth in Clause 13.2.1;

“Change of Scope Order” shall have the meaning set forth in Clause 13.2.4;

“Completion Certificate” shall have the meaning set forth in Clause 12.4;

“Consortium” means the consortium of entities which have formed a joint venture for implementation of this Project;

“Construction” shall have the meaning set forth in Clause 1.2.1 (f);

“Construction Documents” means Drawings, plans, specifications, detailed construction scheme, methodology etc., associated with a construction project.

“Construction Period” means the period commencing from the Appointed Date and ending on the date of the Completion Certificate;

“Contract Price” means the amount specified in Clause 19.1.1;

“Contractor” shall have the meaning attributed thereto in the array of Parties hereinabove as set forth in the Recitals;

“Contractor Default” shall have the meaning set forth in Clause 23.1;

“Culvert” means a cross drainage structure having a total length of 6 (six) metres or less between the inner faces of the dirt walls or extreme ventway boundaries measured at right angles thereto as specified in IRC: 5-1998;

“Cure Period” means the period specified in this Agreement for curing any breach or default of any provision of this Agreement by the Party responsible for such breach or default and shall:

- 19) Commence from the date on which a notice is delivered by one Party to the other Party asking the latter to cure the breach or default specified in such notice;
- 19) Not relieve any Party from liability to pay Damages or compensation under the provisions of this Agreement; and
- 19) Not in any way be extended by any period of Suspension under this Agreement; provided that if the cure of any breach by the Contractor requires any reasonable action by the Contractor that must be approved by the Employer or the Employer’s Engineer hereunder, the applicable Cure Period shall be extended by the period taken by the Employer or the Employer’s Engineer to accord their approval;

“Damages” shall have the meaning set forth in paragraph (w) of Clause 1.2.1;

“Defect” means any defect or deficiency in Construction of the Works or any part thereof, which does not conform with the Specifications and Standards, and in the case of Maintenance, means any defect or deficiency which is specified in Schedule-E;

“Defects Liability Period” shall have the meaning set forth in Clause 17.1; **“Dispute”** shall have the meaning set forth in Clause 26.1.1;

“Dispute Resolution Procedure” means the procedure for resolution of Disputes set forth in Article 26;

“Drawings” means all of the drawings, calculations and documents pertaining to the Terminal as set forth in Schedule-I, and shall be ‘as built’ drawings of the Terminal;

“Document” or “Documentation” means documentation in printed or written form, or in tapes, discs, drawings, computer programmes, writings, reports, photographs, films, cassettes, or expressed in any other written, electronic, audio or visual form;

“Emergency” means a condition or situation that is likely to endanger the safety or security of the individuals on or about the Terminal, living Users thereof, or which poses an immediate threat of material damage to any of the Project Assets;

“Encumbrances” means, in relation to the Terminal, any encumbrances such as mortgage, charge, pledge, lien, hypothecation, security interest, assignment, privilege or priority of any kind having the effect of security or other such obligations, and shall be any designation of loss payees or beneficiaries or any similar arrangement under any insurance policy pertaining to the Terminal, where applicable herein but excluding utilities referred to in Clause 9.1;

“EMP” or “ESMP” means the Environmental Management Plan for the relevant works prepared/approved by the IWA

“EPC” means engineering, procurement and construction;

“Final Payment Certificate” shall have the meaning set forth in Clause 19.15.1;

“Final Payment Statement” shall have the meaning set forth in Clause 19.13.1;

“Force Majeure” or “Force Majeure Event” shall have the meaning ascribed to it in Clause 21.1;

“GAD” or “General Arrangement Drawings” shall have the meaning set forth in Clause 4.1.3 (b);

“GOI/GOB” or “Government” means the Government of India / Government of Bihar as the case may be;

“Good Industry Practice” means the practices, methods, techniques, designs, standards, skills, diligence, efficiency, reliability and prudence which are generally and reasonably expected from a reasonably skilled and experienced contractor engaged in the same type of undertaking as envisaged under this Agreement and which would be expected to result in the performance of its obligations by the Contractor in accordance with this Agreement, Applicable Laws and Applicable Permits in reliable, safe, economical and efficient manner;

“Government Instrumentality” means any department, division or sub-division of the Government or the State Government and les any commission, board, Employer, agency or municipal and other local Employer or statutory body ling panchayat under the control of the Government or the State Government, as the case may be, and having jurisdiction over all or any part of the Terminal or the performance of all or any of the services or obligations of the Contractor under or pursuant to this Agreement;

“IRC” means the Indian Roads Congress;

“Indemnified Party” means the Party entitled to the benefit of an indemnity pursuant to Article 25;

“Indemnifying Party” means the Party obligated to indemnify the other Party pursuant to Article 25;

“Indirect Political Event” shall have the meaning set forth in Clause 21.3;

“Insurance Cover” means the aggregate of the maximum sums insured under the insurances taken out by the Contractor pursuant to Article 20, and les all insurances required to be taken out by the Contractor under Clauses 20.1 and 20.9 but not actually taken, and when used in the context of any act or event, it shall mean the aggregate of the maximum sums insured and payable or deemed to be insured and payable in relation to such act or event;

“Intellectual Property” means all patents, trademarks, service marks, logos, get-up, trade names, internet domain names, rights in designs, blue prints, programmes and manuals, drawings, copyright (ling rights in computer software), database rights, semi- conductor, topography rights, utility models, rights in know-how and other intellectual property rights, in each case whether registered or unregistered and ling applications for registration, and all rights or forms of protection having equivalent or similar effect anywhere in the world;

“Interim Payment Certificate” or “IPC” means the interim payment certificate issued by the Employer’s Engineer for payment to the Contractor in respect of Contractor’s claims for payment raised in accordance with the provisions of this Agreement;

“Lead Member” shall, in the case of a consortium, mean the member of such consortium who shall have the Employer to bind the contractor and each member of the Consortium; and shall be deemed to be the Contractor for the purposes of this Agreement;

“LOA” or “Letter of Acceptance” means the letter of acceptance referred to in Recital I;

“Material Adverse Effect” means a material adverse effect of any act or event on the ability of either Party to perform any of its obligations under and in accordance with the provisions of this Agreement and which act or event causes a material financial burden or loss to either Party;

“Materials” are all the supplies used by the Contractor for incorporation in the Works or for the maintenance of the Terminal;

“MoS” means the Ministry of Shipping or any substitute dealing with Inland Waterways;

“Non-Political Event” shall have the meaning set forth in Clause 21.2;

“Parties” means the parties to this Agreement collectively and “Party” shall mean any of the parties to this Agreement individually;

“Performance Security” shall have the meaning set forth in Clause 7.1;

“Plant” means the apparatus and machinery intended to form or forming part of the Works;

“Political Event” shall have the meaning set forth in Clause 21.4;

“Programme” shall have the meaning set forth in Clause 10.1.3;

“Project” means the construction and maintenance of the terminal in accordance with the provisions of this Agreement, and les all works, services and equipment relating to or in respect of the Scope of the Project;

“Project Assets” means all physical and other assets relating to (a) tangible assets such as civil works and equipment ling foundations, embankments, pavements, road surface, interchanges, bridges, culverts, road over-bridges, drainage works, traffic signals, sign boards, kilometre-stones, electrical systems, communication systems, rest areas, relief centres, maintenance depots and administrative offices; and (b) Project Facilities situated on the Site;

“Project Completion Date” means the date on lh the Provisional Certificate is issued and in the event no Provisional Certificate is issued, the date on which the Completion Certificate is issued;

“Project Completion Schedule” means the progressive Project Milestones set forth in Schedule-J for completion of the Terminal on or before the Scheduled Completion Date;

“Project Facilities” means all the amenities and facilities situated on the Site, as described in Schedule-C;

“Terminal” means the Site comprising the entire site earmarked for the construction of terminal and all Project Assets, and its subsequent development and augmentation in accordance with this Agreement;

“Project Milestone” means the project milestone set forth in Schedule-J;

“Proof Consultant” shall have the meaning set forth in Clause 10.2.2;

“Provisional Certificate” shall have the meaning set forth in Clause 12.2;

“Punch List” shall have the meaning set forth in Clause 12.2.1;

“Quality Assurance Plan” or “QAP” shall have the meaning set forth in Clause 11.2;

“Re.”, “Rs.” Or “Rupees” or “Indian Rupees” or “INR” means the lawful currency of the Republic of India;

“Request for Proposals” or “RFP” shall have the meaning set forth in Recital ‘D’;

“Request for Qualification” or “RFQ” shall have the meaning set forth in Recital ‘C’;

“Retention Money” shall have the meaning set forth in Clause 7.5.1;

“Right of Way” means the constructive possession of the Site free from encroachments and encumbrances, together with all way leaves, easements, unrestricted access and other rights of way, howsoever described, necessary for construction and maintenance of the Terminal in accordance with this Agreement;

“Safety Consultant” shall have the meaning set forth in Clause 10.1.5;

“Scheduled Completion Date” shall be the date set forth in Clause 10.3.1;

“Scope of the Project” shall have the meaning set forth in Clause 2.1 of Article-2;

“Section” means a part of the Terminal;

“Site” shall have the meaning set forth in Clause 8.1;

“Specifications and Standards” means the specifications and standards relating to the quality, quantity, capacity and other requirements for the Terminal, as set forth in Volume-II of Bidding Document, and any modifications thereof, or additions thereto, as led in the design and engineering for the Terminal submitted by the Contractor to, and expressly approved by, the Employer;

“Stage Payment Statement” shall have the meaning set forth in Clause 19.4;

“Structures” means an elevated road or a flyover, as the case may be;

“Sub-contractor” means any person or persons to whom a part of the Works or the Maintenance has been subcontracted by the Contractor and the permitted legal successors in title to such person, but not an assignee to such person;

“Suspension” shall have the meaning set forth in Article 22;

“Taxes” means any Indian taxes including Goods and Service Tax (GST), cess and any import or surcharge of like nature (whether Central, State or local) on the goods, Materials, equipment and services incorporated in and forming part of the Terminal charged, levied or imposed by any Government Instrumentality, but excluding any interest, penalties and other sums in relation thereto imposed on any account whatsoever. For the avoidance of doubt, Taxes shall not be taxes on corporate income;

“Termination” means the expiry or termination of this Agreement;

“Termination Notice” means the communication issued in accordance with this Agreement by one Party to the other Party terminating this Agreement;

“Termination Payment” means the amount payable by either Party to the other upon Termination in accordance with Article 23;

“Terms of Reference” or “TOR” shall have the meaning set forth in Clause 18.2.1;

“Tests” means the tests set forth in Schedule-K to determine the completion of Works in accordance with the provisions of this Agreement;

“Time Extension” shall have the meaning set forth in Clause 10.5.1;

“User” means a person who travels or intends to travel on the Terminal or any part thereof in/on any vehicle;

“Valuation of Unpaid works” shall have the meaning set forth in Clause 23.5.1;

“Works” means all works including survey and investigation, design, engineering, procurement, construction, Plant, Materials, maintenance, temporary works and other things necessary to complete the Terminal in accordance with this Agreement; and

“WPI” means the wholesale price index for various commodities as published by the Ministry of Commerce and Industry, GOI and shall be any index which substitutes the WPI, and any reference to WPI shall, unless the context otherwise requires, be construed as a reference to the WPI published for the period ending with the preceding month.

IN WITNESS WHEREOF THE PARTIES HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DAY, MONTH AND YEAR FIRST ABOVE WRITTEN.

SIGNED, SEALED AND DELIVERED

SIGNED, SEALED AND DELIVERED

For and on behalf of Inland Waterway Employer of India
by:

For and on behalf of THE
CONTRACTOR by:

Project Manager & Member (Finance),
Inland Waterways Authority of India, Ministry of
Shipping, Government of India

(Signature)

(Signature)

(Name)

(Name)

(Designation)

(Designation)

In the presence of:

1.

2.

Special / Particular Conditions of Contract	
SCC 1.4.0	<p>The documents forming the Contract shall be interpreted in the following order of priority:</p> <ul style="list-style-type: none"> a) Agreement, b) Letter of Acceptance, c) Contractor's Bid & Priced Bill of Quantities, d) Particular Conditions of Contract, e) General Conditions of Contract, including Appendices, f) Specifications, g) Drawings, h) Joint Venture Agreements (where applicable), and i) Environmental, Social, Health and Safety – ESHS Management <ul style="list-style-type: none"> i.) Strategies and Implementation Plans and (ii) Code of Conduct.
SCC 3.4.0	<p>Key Personnel & Equipment</p> <p>The Contractor shall employ the key personnel and use the equipment identified in its Bid, to carry out the Works or other personnel and equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of key personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.</p> <p>The name/s of agreed each Key Personnel agreed by the Employer prior to Contract signature, Schedule of Key Personnel and equipment as indicated in accepted bid & construction methodology shall be led].</p>
SCC 3.4.3	<p>Code of Conduct (ESHS)</p> <p>"The reasons to remove a person le behavior which breaches the Code of Conduct (ESHS) (e.g. spreading communicable diseases, sexual harassment, gender based violence, illicit activity or crime)."</p>

SCC 7.1.0	<p>Performance Security and an Environmental, Social, Safety and Health</p> <p>The Performance Security and an Environmental, Social, Safety and Health (ESHS) Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount specified in the SCC (for Article 7.1.1), and shall be issued by a Nationalized or Scheduled bank in India.</p> <p><i>The Performance Security and, if applicable, the ESHS Performance Security, shall be valid for (12 +1) thirteen months from the date of issue of the Certificate of Completion.</i></p> <ul style="list-style-type: none"> • <i>The Defects Liability Period shall commence from the date of the Completion Certificate.</i> • <i>The Defects Liability Period shall in no case be less than 12 (Twelve) months from the date of Completion Certificate for and in respect of works for which Time Extension was granted.</i>
	<p>b) The Performance Security shall be submitted in two separate Bank Guarantees in the Standard Form of Bank Guarantee of the Employer as detailed here under.</p> <p>(i) The Performance Security amount is 8.5 percent of the Contract Amount plus additional security for unbalanced bids (if any) to be decided during evaluation of bids and informed to Bidders at the time of Pre-award discussions.</p> <p>(ii) Environmental, Social, Health and Safety (ESHS) Performance Security amount is 1.5 Percent of Contract Amount.</p> <p>The standard forms of Performance Security and ESHS Security acceptable to the Employer shall be <u>unconditional</u> Bank Guarantees from Scheduled or Nationalized banks in India of the types as presented in Section X of the Bidding Document.</p>
10.1.3 Part II Last Bullet Point	<p>“In addition to the progress report, the Contractor shall also provide a report on the Environmental, Social, Health and Safety (ESHS) metrics set out in Appendix B. In addition to Appendix B reports, the Contractor shall also provide immediate notification to the Project Manager of incidents in the following categories. Full details of such incidents shall be provided to the Project Manager within the timeframe agreed with the Project Manager.</p> <ul style="list-style-type: none"> (a) confirmed or likely violation of any law or international agreement; (b) any fatality or serious (lost time) injury; (c) significant adverse effects or damage to private property (e.g. vehicle accident, damage from fly rock, working beyond the boundary) (d) major pollution of drinking water aquifer or damage or destruction of rare or endangered habitat (ling protected areas) or species; <p>Or any allegation of sexual harassment or sexual misbehavior, child abuse, defilement, or other violations involving children</p>

10.3.4	<p>Strategies and Implementation Plans</p> <p>The Contractor shall not commence any Works, ling mobilization and/or pre-construction activities (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrow pits), unless the Project Manager is satisfied that appropriate measures are in place to address environmental, social, health and safety risks and impacts. At a minimum, the Contractor shall apply the Management Strategies and Implementation Plans and Code of Conduct, submitted as part of the Bid and agreed as part of the Contract. The Contractor shall submit, on a continuing basis, for the Project Manager’s prior approval, such supplementary Management Strategies and Implementation Plans as are necessary to manage the ESHS risks and impacts of ongoing works. These Management Strategies and Implementation Plans collectively comprise the Contractor’s Environmental and Social Management Plan (C-ESMP). The C-ESMP shall be approved prior to the commencement of construction activities (e.g. excavation, earth works, bridge and structure works, stream and road diversions, quarrying or extraction of materials, concrete batching and asphalt manufacture). The approved C-ESMP shall be reviewed, periodically (but not less than every six (6) months), and updated in a timely manner, as required, by the Contractor to ensure that it contains measures appropriate to the Works activities to be undertaken. The updated C-ESMP shall be subject to prior approval by the Project Manager.”</p>
13.2.2 (b) (iv)	<p>“The Contractor shall also provide information of any ESHS risks and impacts of the Variation.”</p>
19.1.1	<p>Revision / Changes in Schedule-A .. Subsequent to completion of detailed Engineering and the Drawings approved by the Employer, in the event of any changes in the Break up of Schedule-A submitted with Original Bid may accordingly be re-apportioned, without change in overall price of a particular activity of (BOQ).</p> <p>Or</p> <p>Upon completion of detailed Engineering and the Drawings approved by the Employer, in case changes in the BOQ of a particular activity (Bill No) are felt necessary Schedule-A submitted with Original Bid may accordingly be re-apportioned, without change in overall price of that particular activity of (BOQ).</p>
19.2.1	<p>The Employer shall make an interest-free advance payment (the “Advance Payment”), equal in amount to 10 (ten) percent of the Contract Price, for mobilisation expenses and for acquisition of equipment.</p> <p><u>The Advance Payment shall be payable in two instalments.</u></p> <p>A. <u>5% on Contract Agreement.</u></p> <p>B. <u>5% on Mobilisation of plant & Machinery at project site</u></p> <p><u>However the Recovery of the same shall be on Pro-rata basis against the RA Bills.</u></p> <p><u>Full recovery of this advance (10 %) shall be made & ensured against 80 % completion of Work.</u></p>
19.2.6	<p>The Advance Payment shall be recovered from the monthly RA Bills @ 12.5% of the RA Bill payable to the Contractor by the Employer within 18 months or 80% of Completion of works whichever is later.</p>

19.2.7	<p>The Contractor shall repay each instalment of the Advance Payment on or before the due date of repayment.</p> <p>In the event of the Contractor's failure to make the repayment on time, the Employer shall be entitled to encash the Bank guarantee for Advance Payment. The Parties expressly agree that for any delay in repayment of the Advance Payment, the Contractor shall pay interest to the Employer for each day of delay, such interest to be calculated at the rate of 18% (eighteen per cent) per annum.</p> <p>In the event of the Contractor's having repaid the advance either fully or Partly, it shall be at the discretion of the Employer to release / reduction / Amendment of Part Bank Guarantee, in case the Contractor so desires.</p>
19.21	<p>If the Contractor was, or is, failing to perform any ESHS obligations or work under the Contract, the value of this work or obligation, as determined by the Project Manager, may be withheld until the work or obligation has been performed, and/or the cost of rectification or replacement, as determined by the Project Manager, may be withheld until rectification or replacement has been completed. Failure to perform includes, but is not limited to the following:</p> <ul style="list-style-type: none"> (i) failure to comply with any ESHS obligations or work described in the Works' Requirements which may include: working outside site boundaries, excessive dust, failure to keep public roads in a safe usable condition,
19.21	<p>damage to offsite vegetation, pollution of water courses from oils or sedimentation, contamination of land e.g. from oils, human waste, damage to archeology or cultural heritage features, air pollution as a result of unauthorized and/or inefficient combustion;</p> <ul style="list-style-type: none"> (ii) failure to regularly review C-ESMP and/or update it in a timely manner to address emerging ESHS issues, or anticipated risks or impacts; (iii) failure to implement the C-ESMP; (iv) failing to have appropriate consents/permits prior to undertaking Works or related activities; (v) failure to submit ESHS report/s (as described in Appendix B), or failure to submit such reports in a timely manner; (vi) failure to implement remediation as instructed by the Engineer within the specified timeframe (e.g. remediation addressing non-compliance/s).
19.22 Input Tax	<p>The successful contractor shall undertake to pass on the input tax credit in GST and shall compensate the employer for any loss suffered on this account by employee (if any) during the tenure of the contract or afterwards subsequent to assessment</p> <p>For assessment of ITC (Input Tax Credit) contractor shall submit their periodical Tax return on its submission to respective authorities.</p> <p>A undertaking to this effect in FORMAT at should be submitted along with the BID.</p>

APPENDIX TO CONDITIONS OF CONTRACT

Bank's Policy- Corrupt and Fraudulent Practices

(Text in this Appendix shall not be modified)

Guidelines for Procurement of Goods, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011:

"Fraud and Corruption:

It is the Bank's policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts. In pursuance of this policy, the Bank:

19) Defines, for the purposes of this provision, the terms set forth below as follows:

- 19) "Corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- ii) "Fraudulent practice" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- ii) "Collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- iv) "Coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- v) "Obstructive practice" is
 - aa) Deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or
 - bb) Acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 1.16I below.
- 19) Will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c) Will declare mis-procurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address

such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;

- 19) Will sanction a firm or individual, at any time, in accordance with the prevailing Bank's sanctions procedures, including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated;
- e) Will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank.

NOTES:

- *In this context, any action to influence the procurement process or contract execution for undue advantage is improper.*
- *For the purpose of this sub-paragraph, "another party" refers to a public official acting in relation to the procurement process or contract execution. In this context, "public official" includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.*
- *For the purpose of this sub-paragraph, "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.*
- *For the purpose of this sub-paragraph, "parties" refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other's bid prices or other conditions.*
- *For the purpose of this sub-paragraph, "party" refers to a participant in the procurement process or contract execution.*

Environmental, Social, Health and Safety Requirements

CONTENT FOR AN ENVIRONMENTAL AND SOCIAL POLICY

The Works' policy goal, as a minimum, should be stated to integrate environmental protection, occupational and community health and safety, gender, equality, child protection, vulnerable people (including those with disabilities), gender-based violence (GBV), HIV/AIDS awareness and prevention and wide stakeholder engagement in the planning processes, programs, and activities of the parties involved in the execution of the Works. The policy should set the frame for monitoring, continuously improving processes and activities and for reporting on the compliance with the policy.

The policy should, as far as possible, be brief but specific and explicit, and measurable, to enable reporting of compliance with the policy in accordance with the Particular Conditions of the Contract Sub-Clause 3.6 of Special Conditions of Contract.

As a minimum, the policy is set out to the commitments to:

1. apply good international industry practice to protect and conserve the natural environment and to minimize unavoidable impacts;
2. provide and maintain a healthy and safe work environment and safe systems of work;
3. protect the health and safety of local communities and users, with particular concern for those who are disabled, elderly, or otherwise vulnerable;
4. ensure that terms of employment and working conditions of all workers engaged in the Works meet the requirements of the major labour and other laws that are applicable to construction industry in India;
5. be intolerant of, and enforce disciplinary measures for illegal activities. To be intolerant of, and enforce disciplinary measures for GBV, child sacrifice, child defilement, and sexual harassment;
6. incorporate a gender perspective and provide an enabling environment where women and men have equal opportunity to participate in, and benefit from, planning and development of the Works;
7. work co-operatively, including with end users of the Works, relevant authorities, contractors and local communities;
8. engage with and listen to affected persons and organisations and be responsive to their concerns, with special regard for vulnerable, disabled, and elderly people;
9. provide an environment that fosters the exchange of information, views, and ideas that is free of any fear of retaliation;
10. minimize the risk of HIV transmission and to mitigate the effects of HIV/AIDS associated with the execution of the Works;

MINIMUM CONTENT OF ESHS REQUIREMENTS

In preparing detailed specifications for ESHS requirements, the specialists should refer to:

- ✓ project reports e.g. ESIA/ESMP
- ✓ consent/permit conditions

- ✓ required standards including World Bank Group EHS Guidelines
- ✓ national legal and/or regulatory requirements and standards (where these represent higher standards than the WBG EHS Guidelines)
- ✓ relevant Indian Standards for Safe Use of Pesticides, and in the absence of such Indian Standards relevant international standards e.g. WHO Guidelines for Safe Use of Pesticides
- ✓ relevant Indian Standards Concerning Urban Waste Water Treatment, and in the absence of such Indian Standards relevant sector standards e.g. EU Council Directive 91/271/EEC Concerning Urban Waste Water Treatment
- ✓ grievance redress mechanisms

MINIMUM REQUIREMENTS FOR THE CODE OF CONDUCT

A minimum requirement for the Code of Conduct should be set out, taking into consideration the issues, impacts, and mitigation measures identified in:

- ✓ project reports e.g. ESIA/ESMP
- ✓ consent/permit conditions
- ✓ required standards including World Bank Group EHS Guidelines
- ✓ national legal and/or regulatory requirements and standards (where these represent higher standards than the WBG EHS Guidelines)
- ✓ relevant standards e.g. Workers' Accommodation: Process and Standards (Indian Standards, and in the absence of such Indian Standards those of IFC and EBRD)
- ✓ relevant sector standards e.g. workers accommodation
- ✓ grievance redress mechanisms.

The types of issues identified could include. Risks associated with: labor influx, spread of communicable diseases, sexual harassment, gender based violence, illicit behavior and crime, and maintaining a safe environment etc.

The minimum Code of Conduct requirement may be based on the following:

CODE OF CONDUCT REQUIREMENTS

A satisfactory code of conduct will contain obligations on all project staff (including sub-contractors and day workers) that are suitable to address the following issues, as a minimum. Additional obligations may be added to respond to particular concerns of the region, the location and the project sector or to specific project requirements. The issues to be addressed include:

1. Compliance with applicable laws, rules, and regulations of the jurisdiction
2. Compliance with applicable health and safety requirements (including wearing prescribed personal protective equipment, preventing avoidable accidents and a duty to report conditions or practices that pose a safety hazard or threaten the environment)
3. The use of illegal substances
4. Non-Discrimination (for example on the basis of family status, ethnicity, race, gender, religion, language, marital status, birth, age, disability, or political conviction)
5. Interactions with community members (for example to convey an attitude of respect and non-discrimination)

6. Sexual harassment (for example to prohibit use of language or behavior, in particular towards women or children, that is inappropriate, harassing, abusive, sexually provocative, demeaning or culturally inappropriate)
7. Violence or exploitation (for example the prohibition of the exchange of money, employment, goods, or services for sex, including sexual favors or other forms of humiliating, degrading or exploitative behavior)
8. Protection of children (including prohibitions against abuse, defilement, or otherwise unacceptable behavior with children, limiting interactions with children, and ensuring their safety in project areas)
9. Sanitation requirements (for example, to ensure workers use specified sanitary facilities provided by their employer and not open areas)
10. Avoidance of conflicts of interest (such that benefits, contracts, or employment, or any sort of preferential treatment or favors, are not provided to any person with whom there is a financial, family, or personal connection)
11. Respecting reasonable work instructions (including regarding environmental and social norms)
12. Protection and proper use of property (for example, to prohibit theft, carelessness or waste)
13. Duty to report violations of this Code
14. Non retaliation against workers who report violations of the Code, if that report is made in good faith.

The Code of Conduct should be written in plain language and signed by each worker to indicate that they have:

- ✓ received a copy of the code;
- ✓ had the code explained to them;
- ✓ acknowledged that adherence to this Code of Conduct is a condition of employment;
- and
- ✓ understood that violations of the Code can result in serious consequences, up to and including dismissal, or referral to legal authorities.

Appendix to GCC
Environmental, Social, Health and Safety (ESHS)
Metrics for Progress Reports

Metrics for regular reporting:

19. environmental incidents or non-compliances with contract requirements, including contamination, pollution or damage to ground or water supplies;
- b. health and safety incidents, accidents, injuries and all fatalities that require treatment;
- c. interactions with regulators: identify agency, dates, subjects, outcomes (report the negative if none);
- d. status of all permits and agreements:
 19. work permits: number required, number received, actions taken for those not received;
 - ii. status of permits and consents:
 - list areas/facilities with permits required, dates of application, dates issued (actions to follow up if not issued), dates submitted to resident engineer (or equivalent), status of area (waiting for permits, working, abandoned without reclamation, decommissioning plan being implemented, etc.);
 - list areas with landowner agreements required, dates of agreements, dates submitted to resident engineer (or equivalent);
 - identify major activities undertaken in each area this month and highlights of environmental and social protection (boundary marking, traffic management, decommissioning planning, decommissioning implementation);
- e. health and safety supervision:
 19. safety officer: number days worked, number of full inspections & partial inspections, reports to construction/project management;
 - ii. number of workers, work hours, metric of PPE use (percentage of workers with full personal protection equipment (PPE), partial, etc.), worker violations observed (by type of violation, PPE or otherwise), warnings given, repeat warnings given, follow-up actions taken (if any);
- f. worker accommodations:
 - iii. number of expats housed in accommodations, number of locals;
 - iv. date of last inspection, and highlights of inspection including status of accommodations' compliance with national and local law and good practice, including sanitation, space, etc.;
 - v. actions taken to recommend/require improved conditions, or to improve conditions.
- g. HIV/AIDS: provider of health services, information and/or training, location of clinic, number of non-safety disease or illness treatments and diagnoses (no names to be provided);

- h. gender (for expats and locals separately): number of female workers, percentage of workforce, gender issues raised and dealt with (cross-reference grievances or other sections as needed);
- 19. training:
 - vi. number of new workers, number receiving induction training, dates of induction training;
 - vii. number and dates of toolbox talks, number of workers receiving Occupational Health and Safety (OHS), environmental and social training;
 - viii. number and dates of HIV/AIDS sensitization training, no. workers receiving training (this month and in the past); same questions for gender sensitization, flaglady/flagman training.
- j. environmental and social supervision:
 - ix. environmentalist: days worked, areas inspected and numbers of inspections of each (e.g. road section, work camp, accommodations, spoil areas, swamps, forest crossings, etc.), highlights of activities/findings (ling violations of environmental and/or social best practices, actions taken), reports to environmental and/or social specialist/construction/site management;
 - x. sociologist: days worked, number of partial and full site inspections (by area: road section, work camp, accommodations, spoil areas, clinic, HIV/AIDS center, community centers, etc.), highlights of activities (ling violations of environmental and/or social requirements observed, actions taken), reports to environmental and/or social specialist/construction/site management; and
 - xi. community liaison person(s): days worked (hours community center open), number of people met, highlights of activities (issues raised, etc.), reports to environmental and/or social specialist /construction/site management.
- k. Grievances: list this month's and unresolved past grievances by date received, complainant, how received, to whom referred to for action, resolution and date (if completed), data resolution reported to complainant, any required follow-up (Cross-reference other sections as needed):
 - xii. Worker grievances;
 - xiii. Community grievances
- l. Traffic and vehicles/equipment: (On Shore and off Shore)
 - xiv. traffic accidents involving project vehicles & equipment: provide date, location, damage, cause, follow-up;
 - xv. accidents involving non-project vehicles or property (also reported under immediate metrics): provide date, location, damage, cause, follow-up;
 - xvi. overall condition of vehicles/equipment (subjective judgment by environmentalist); non-routine repairs and maintenance needed to improve safety and/or environmental performance (to control smoke, etc.).

m. Environmental mitigations and issues (what has been done):

- xvii.dust: number of working bowzers, number of waterings/day, number of complaints, warnings given by environmentalist, actions taken to resolve;
- xviii. erosion control: controls implemented by location, status of water crossings, environmentalist inspections and results, actions taken to resolve issues, emergency repairs needed to control erosion/sedimentation;
- xix. quarries, borrow areas, spoil areas, asphalt plants, batch plants (if any) : identify major activities undertaken this month at each, and highlights of environmental and social protection: land clearing, boundary marking, topsoil salvage, traffic management, decommissioning planning, decommissioning implementation;
- xx. blasting (if applicable): number of blasts (and locations), status of implementation of blasting plan (ling notices, evacuations, etc.), incidents of off-site damage or complaints (cross-reference other sections as needed);
- xxi. spill cleanups, if any: material spilled, location, amount, actions taken, material disposal (report all spills that result in water or soil contamination);
- xxii.waste management: types and quantities generated and managed, ling amount taken offsite (and by whom) or reused/recycled/disposed on-site;
- xxiii. details of tree plantings and other mitigations (if applicable) required undertaken this month;
- xxiv. details of water and swamp protection mitigations required undertaken this month.

n. compliance:

- xxv.compliance status for conditions of all relevant consents/permits, for the Work, ling quarries, etc.): statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance;
- xxvi. compliance status of ESMP/ESIP requirements: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance
- xxvii. other unresolved issues from previous months related to environmental and social: continued violations, continued failure of equipment, continued lack of vehicle covers, spills not dealt with, continued compensation or blasting issues, etc. Cross-reference other sections as needed.

SCHEDULES

SCHEDULE-A PROJECT SITE DETAILS (See Clauses 2.1 and 8.1)

1. Project Site Location

The site is located on River Ganga at Latitude 25° 44' 25" North and Longitude 85° 07' 12" East, at Saran District in Bihar around 15 Kms of Aerial distance and around 25 Kms by Road from the Patna main city and Terminal is directly connected to NH19.

Location plan of the project site is shown below:



Location Plan of Project Site

2. Access to Project Site

The site is well accessible from rail and road route:

- ✓ Nearest Highway : NH-19
- ✓ Nearest Railway Station : Parmanandpur Railway Station (appx. 1.50 km)
- ✓ Nearest Airport : Patna (appx. 26 km)

3. Compilation of Site Data

3.1 Rainfall

The rainfall data for Patna , near Kalughat is given below:

Rainfall Data for the Project Site

Month	Monthly Total (mm)	Number of Rainy Days	Heaviest Fall in 24 Hours (mm)	Year
January	12.2	1.3	51.8	1957
February	14.1	1.2	40.6	1949
March	9.4	0.7	36.7	1978
April	10.8	1.0	34	1983
May	38.1	2.7	59.6	1990
June	142.5	6.5	205.4	1997
July	381.0	14.9	250.8	1987
August	281.6	12.8	160	1948
September	229.3	10.2	273.5	1967
October	78.6	3.3	162.6	1946
November	8.7	0.6	65	1969
December	7.0	0.7	33	1995

Source: IMD

3.2 Wind

The mean wind speed recorded by the observatory nearest to the project site is Patna which is found to be in the range of 1.0 m/s to 19.0 m/s for 230 days in a year.

3.3 Temperature

The mean daily maximum and minimum air temperatures along with the extremes for each month are as given below:

Maximum and Minimum Temperature at the Project Site

Month	Recorded Temperature (° C)			
	Mean Daily Maximum	Mean Daily Minimum	Highest Maximum	Lowest Minimum
January	30.0	16.2	22.4	1.1
February	35.1	18.9	26.0	3.4
March	41.4	24.4	32.2	8.2
April	44.6	29.8	37.0	13.3
May	45.6	31.8	37.4	17.7
June	46.6	31.7	36.4	19.3
July	41.2	29.5	33.0	21.1
August	39.7	29.3	32.9	20.5
September	37.5	28.8	32.5	19.0
October	37.2	26.7	31.9	12.0
November	34.1	21.9	29.0	7.7
December	30.5	19.7	24.5	2.2

3.4 Water Level

The high flood level and low water level considered for Kalughat terminal is 52.50 m and 42.40 m respectively with reference to the mean sea level.

3.5 Current

The current in river Ganga at Kalughat varies from 0.50 m/s to 4.50 m/s.

**SCHEDULE-B DEVELOPMENT OF
THE TERMINAL** *(See Clause 2.1 of*

Article-2)

The development of the Terminal for Phase-1 shall include but not limited to the following items:

- Site grading
- Berthing Structures including all associated facilities
- Approach trestles connecting the berth with river bank
- Shore protection works
- Stockyard development
- Buildings with rain water harvesting system viz. Terminal Administration building, Worker's Amenity Building , Weigh Bridge control cabin & security office building with toilet block, Electrical Substation
- Toilet block
- Internal Roads
- Vehicle parking area
- Water supply system including Overhead Water Tank & Underground Reservoir
- Storm water drainage system with dump pond
- Sewerage system including modular design and construction of modules as per needs of operation of the Terminal
- Solid waste management systems including modular design and construction of modules as per needs of operation of the Terminal
- Gate House Complex , Boundary wall and fencing
- Electrical works
- Road Weigh Bridge
- Fire-fighting system
- Communication & IT
- Numerical Model Studies
- All other relevant Environmental Management Actions

The detailed technical specifications for the above mentioned items are provided in Volume-II of Bidding Document.

SCHEDULE-C

PROJECT FACILITIES

(See Clause 2.1 of Article-2)

The Employer shall provide the following facilities to the Contractor:

- ✓ Subject to availability, space for office accommodation / site office shall be provided.
- ✓ The other facilities such as like power supply, water supply and other requirements for construction of Inter– modal IWT Terminal at Kalughat in accordance with the terms and conditions of Bidding Document shall be arranged by Contractor.

SCHEDULE-D

VOLUME-II OF BIDDING DOCUMENT

SPECIFICATIONS AND STANDARDS

(See Clause 2.1 of Article-2)

Attached as separate Volume - II

SCHEDULE-E MAINTENANCE

REQUIREMENTS

(See Clause 2.1 of Article-2 and 14.2)

1 Maintenance Requirements

- 1.1 The Contractor shall, at all times maintain the Terminal in accordance with the provisions of this Agreement, Applicable Laws and Applicable Permits.
- 1.2 The Contractor shall repair or rectify any Defect or deficiency set forth in Paragraph 2 of this Schedule-E within the time limit specified therein and any failure in this behalf shall constitute non-fulfillment of the Maintenance obligations by the Contractor. Upon occurrence of any breach hereunder, the Authority shall be entitled to effect reduction in monthly lump sum payment as set forth in Clause 14.6 of this Agreement, without prejudice to the rights of the Authority under this Agreement, including Termination thereof.
- 1.3 All Materials, works and construction operations shall conform to the relevant specifications mentioned in the Volume II of the bid document. Where the specifications for a work are not given, Good Industry Practice shall be adopted.

2 Repair / rectification of Defects and deficiencies

The obligations of the Contractor in respect of Maintenance Requirements shall include repair and rectification of the Defects and deficiencies specified in Annex – I of this Schedule-E within the time limit set forth therein.

3 Other Defects and deficiencies

In respect of any Defect or deficiency not specified in Annex - I of this Schedule-E, the Authority's Engineer may, in conformity with Good Industry Practice, specify the permissible limit of deviation or deterioration with reference to the Specifications and Standards, and any deviation or deterioration beyond the permissible limit shall be repaired or rectified by the Contractor within the time limit specified by the Authority's Engineer.

4 Extension of time limit

Notwithstanding anything to the contrary specified in this Schedule-E, if the nature and extent of any Defect or deficiency justifies more time for its repair or rectification than the time specified herein, the Contractor shall be entitled to additional time in conformity with Good Industry Practice. Such additional time shall be determined by the Authority's Engineer and conveyed to the Contractor and the Authority with reasons thereof.

5 Emergency repairs/restoration

Notwithstanding anything to the contrary contained in this Schedule-E, if any Defect, deficiency or deterioration in the Terminal poses a hazard to safety or risk

of damage to property, the Contractor shall promptly take all reasonable measures for eliminating or minimizing such danger.

6 Daily inspection by the Contractor

The Contractor shall, through its engineer, undertake a daily visual inspection of the Terminal and maintain a record thereof in a register to be kept in such form and manner as the Authority's Engineer may specify. Such record shall be kept in safe custody of the Contractor and shall be open to inspection by the Authority and the Authority's Engineer at any time during office hours.

7. Pre-monsoon inspection / Post-monsoon inspection

The Contractor shall carry out a detailed pre-monsoon inspection of all bridges, culverts and drainage system before 15th May every year in accordance with the guidelines contained in IRC: SP35. Report of this inspection together with details of proposed maintenance works as required on the basis of this inspection shall be sent to the Authority's Engineer before the 25th May every year. The Contractor shall complete the required repairs before the onset of the monsoon and send to the Authority's Engineer a compliance report. Post monsoon inspection shall be done by the 20th October and the inspection report together with details of any damages observed and proposed action to remedy the same shall be sent to the Authority's Engineer.

8. Repairs on account of natural calamities

All damages occurring to the Terminal on account of a Force Majeure Event or default or neglect of the Authority shall be undertaken by the Authority at its own cost. The Authority may instruct the Contractor to undertake the repairs at the rates agreed between the Parties.

Annex - I
(Schedule-E)

Repair/rectification of Defects and deficiencies

DELETED

SCHEDULE-F**APPLICABLE PERMITS***(See Clause 3.1.7(a))***1 Applicable Permits**

- 1.1 The Contractor shall obtain, as required under the Applicable Laws, the following Applicable Permits:
- ✓ Permission of the State Government for extraction of boulders from quarry;
 - ✓ Permission of Village Panchayats and NOC from Bihar Pollution Control Board (BPCB) for installation and operation of stone crushers;
 - ✓ Licence for use of explosives from concerned DC office;
 - ✓ Permission for storage of hazardous chemical from CPCB/BPCB
 - ✓ Permission of the Irrigation Department, Govt. of Bihar for drawing water from river/reservoir for construction;
 - ✓ Permission of Ground Water Extraction for establishment and separately for operation of borewell for drawing ground water for construction (and continued operation of the borewell if planned as such).
 - ✓ Licence from inspector of factories or other competent Employer for setting up batching plant;
 - ✓ NOC from Bihar Pollution Control Board for setting up and separately for operation of batching plant;
 - ✓ NOC from Bihar Pollution Control Board for setting up and separately for operation of diesel generator sets;
 - ✓ Clearance of Village Panchayats and NOC from State Pollution Control Board for setting up asphalt plant;
 - ✓ Permission of Village Panchayats and for borrow earth
 - ✓ Environmental Clearance from SEIAA for borrow area for earth;
 - ✓ Environmental Clearance from SEIAA for new stone quarry
 - ✓ Labour license from Labour Commissioner Office and
 - ✓ Any other permits or clearances required under Applicable Laws.
- 1.2 Applicable Permits, as required, relating to environmental protection and conservation shall have been procured by the Employer in accordance with the provisions of this Agreement. For all the clearances / permission / permits mentioned in 1.1 above, the Employer will facilitate by providing letters to various authorities on request of Contractor for timely completion of the project.

SCHEDULE - G
FORM OF BANK GUARANTEE --- Annex-I

Performance Security *(See Clauses 7.1.1, 7.5.3 and 19.2)*

Inland Waterways Authority of India

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

A-13, Sector-1, Noida-201301 (U.P.)

Website: www.iwai.nic.in

WHEREAS:

- A) _____ [name and address of contractor] (hereinafter called the "Contractor") and [name and address of the Employer], (hereinafter called the "Employer") have entered into an agreement (hereinafter called the "Agreement") for the construction of the "IWT Inter - modal Terminal at Kalughat in Bihar on River Ganga (National Waterway-1)" on Engineering, Procurement and Construction (the "EPC") basis, subject to and in accordance with the provisions of the Agreement
- B) The Agreement requires the Contractor to furnish a Performance Security for due and faithful performance of its obligations, under and in accordance with the Agreement, during the (Construction Period/Defects Liability Period) (as defined in the Agreement) in a sum of Rs. cr. (Rupees crore) (the "Guarantee Amount").
- C) We, through our branch at (the "Bank") have agreed to furnish this bank guarantee (hereinafter called the "Guarantee") by way of Performance Security.

NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably guarantees the due and faithful performance of the Contractor's obligations during the (Construction Period/Defects Liability Period) under and in accordance with the Agreement, and agrees and undertakes to pay to the Employer, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Contractor, such sum or sums up to an aggregate sum of the Guarantee Amount as the Employer shall claim, without the Employer being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.
2. A letter from the Employer that the Contractor has committed default in the due and faithful performance of all or any of its obligations under and in accordance with the Agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that the Employer shall be the sole judge as to whether the Contractor is in default in due and faithful performance of its obligations during and under the Agreement and its decision that the Contractor is in default shall be final and binding on the Bank, notwithstanding any differences between the Employer and the Contractor, or any dispute between them pending before any court, tribunal, arbitrators or any other Employer or body, or by the discharge of the Contractor for any reason whatsoever.
3. In order to give effect to this Guarantee, the Employer shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Contractor and/or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.
4. It shall not be necessary, and the Bank hereby waives any necessity, for the Employer to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
5. The Employer shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Agreement or to extend the time or period for the compliance with, fulfilment and/ or performance of all or any of the obligations of the Contractor contained in the Agreement or to postpone

for any time, and from time to time, any of the rights and powers exercisable by the Employer against the Contractor, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Agreement and/or the securities available to the Employer, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Employer of the liberty with reference to the matters aforesaid or by reason of time being given to the Contractor or any other forbearance, indulgence, act or omission on the part of the Employer or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.

6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Employer in respect of or relating to the Agreement or for the fulfilment, compliance and/or performance of all or any of the obligations of the Contractor under the Agreement.
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the Guarantee Amount and this Guarantee will remain in force for the period specified in paragraph 8 below and unless a demand or claim in writing is made by the Employer on the Bank under this Guarantee all rights of the Employer under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
8. The Guarantee shall cease to be in force and effect on* Unless a demand or claim under this Guarantee is made in writing before expiry of the Guarantee, the Bank shall be discharged from its liabilities hereunder.
9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Employer in writing, and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.
10. Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorised to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Employer that the envelope was so posted shall be conclusive.
11. This Guarantee shall come into force with immediate effect and shall remain in force and effect for up to the date specified in paragraph 8 above or until it is released earlier by the Employer pursuant to the provisions of the Agreement.
12. This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

Signed and sealed this day of, 2018... at

SIGNED, SEALED AND DELIVERED

For and on behalf of the Bank by:

(Signature) (Name) (Designation) Code Number) (Address)

NOTES:

- *Insert date being 60 (sixty) days from the Defects Liability Period*
- *The bank guarantee should contain the name, designation and code number of the officer(s) signing the guarantee.*
- *The address, telephone number and other details of the head office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing branch.*

Environmental, Social, Health and Safety (ESHS) Performance Security – Bank Guarantee *[Guarantor letterhead or SWIFT identifier code]*

ESHS Performance Guarantee No.: *[Insert guarantee reference number]*

Date..... *[insert date of issue of the guarantee]*

To: _____ *[name of Employer]*
 _____ *[address of Employer]*

WHEREAS _____ *[name and address of Contractor¹³]* (hereinafter called "the Applicant") has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ *[name of Contract and brief description of Works]* (hereinafter called "the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Applicant shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his Environmental, Social, Health and/or Safety (ESHS) obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Applicant such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Applicant, up to a total of _____ *[amount of guarantee¹⁴]*
 _____ *[in words]*, such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ *[amount of guarantee]* as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Applicant before presenting us with the demand.

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

This guarantee shall be valid until (i.e.) 28 days from the date of expiry of the Defects Liability Period, and any demand for payment under it must be received by us at this office on or before that date.

Signature and seal of the guarantor _____
 Name of Bank _____
 Address _____

¹³ In the case of a JV, insert the name of the Joint Venture

¹⁴ An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract less provisional sums, if any, and denominated in Indian Rupees.

SCHEDULE-G Annex-II
Form for Guarantee for Withdrawal of Retention Money (See Clause 7.5.3)

Inland Waterways Authority of India
 (Ministry of Shipping, Road Transport and Highways, Govt. of India)
 A-13, Sector-1, Noida-201301 (U.P.)
 Website: www.iwai.nic.in

WHEREAS:

- A) [name and address of contractor] (hereinafter called the "Contractor") has executed an agreement (hereinafter called the "Agreement") with the [name and address of the Employer], (hereinafter called the "Employer") for the construction of the "IWT Inter - modal Terminal at Kalughat in Bihar on River Ganga (National Waterway-1)" on Engineering, Procurement and Construction (the "EPC") basis, subject to and in accordance with the provisions of the Agreement.
- B) In accordance with Clause 7.5.3 of the Agreement, the Contractor may withdraw the retention money (hereinafter called the "Retention Money") after furnishing to the Employer a bank guarantee for an amount equal to the proposed withdrawal.
- C) We, through our branch at (the "Bank") have agreed to furnish this bank guarantee (hereinafter called the "Guarantee") for the amount of Rs. ----- cr. (Rs.-----crore) (the "Guarantee Amount").

NOW, THEREFORE, the Bank hereby unconditionally and irrevocably guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably undertakes to pay to the Employer, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Contractor, such sum or sums up to an aggregate sum of the Guarantee Amount as the Employer shall claim, without the Employer being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.
2. A letter from the Employer, that the Contractor has committed default in the due and faithful performance of all or any of its obligations for under and in accordance with the Agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that the Employer shall be the sole judge as to whether the Contractor is in default in due and faithful performance of its obligations during and under the Agreement and its decision that the Contractor is in default shall be final, and binding on the Bank, notwithstanding any differences between the Employer and the Contractor, or any dispute between them pending before any court, tribunal, arbitrators or any other Employer or body, or by the discharge of the Contractor for any reason whatsoever.
3. In order to give effect to this Guarantee, the Employer shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Contractor and/or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.
4. It shall not be necessary, and the Bank hereby waives any necessity, for the Employer to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
5. The Employer shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Retention Money and any of the rights and powers exercisable by the Employer against the Contractor, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Agreement and/or the securities available to the Employer, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Employer of the liberty with reference to the matters aforesaid or by reason of time being

given to the Contractor or any other forbearance, indulgence, act or omission on the part of the Employer or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.

6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Employer in respect of or relating to the Retention Money.
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the Guarantee Amount and this Guarantee will remain in force for the period specified in paragraph 8 below and unless a demand or claim in writing is made by the Employer on the Bank under this Guarantee all rights of the Employer under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
8. The Guarantee shall cease to be in force and effect 90 (ninety) days after the date of the Completion Certificate specified in Clause 12.4 of the Agreement.
9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Employer in writing, and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.
10. Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorised to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Employer that the envelope was so posted shall be conclusive.
11. This Guarantee shall come into force with immediate effect and shall remain in force and effect up to the date specified in paragraph 8 above or until it is released earlier by the Employer pursuant to the provisions of the Agreement.
12. This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

Signed and sealed this day of, 2018..... at

SIGNED, SEALED AND DELIVERED

For and on behalf of the Bank by:

(Signature)

(Name)

(Designation)

(Code Number)

(Address)

NOTES:

- *The bank guarantee should contain the name, designation and code number of the officer(s) signing the guarantee.*
- *The address, telephone number and other details of the head office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing branch.*

SCHEDULE-G**Annex–III****Form for Guarantee for Advance Payment***(See Clause 19.2)*

Inland Waterways Authority of India
 (Ministry of Shipping, Road Transport and Highways, Govt. of India)
 A-13, Sector–1, Noida-201301 (U.P.)
 Website: www.iwai.nic.in

WHEREAS:

- A) [name and address of contractor] (hereinafter called the “Contractor”) has executed an agreement (hereinafter called the “Agreement”) with the [name and address of the Employer], (hereinafter called the “Employer”) for the construction of the " IWT Inter - modal Terminal at Kalughat in Bihar River Ganga (National Waterway-1)"on Engineering, Procurement and Construction (the “EPC”) basis, subject to and in accordance with the provisions of the Agreement
- B) In accordance with Clause 19.2 of the Agreement, the Employer shall make to the Contractor an interest free advance payment (herein after called “Advance Payment”) equal to 10% (ten per cent) of the Contract Price; and that the Advance Payment shall be made in three instalments subject to the Contractor furnishing an irrevocable and unconditional guarantee by a scheduled bank for an amount equivalent to 110% (one hundred and ten percent) of such instalment to remain effective till the complete and full repayment of the instalment of the Advance Payment as security for compliance with its obligations in accordance with the Agreement. The amount of {first/second/third} instalment of the Advance Payment is Rs. ----- cr. (Rupees ----- crore) and the amount of this Guarantee is Rs. ----- cr. (Rupees ----- crore) (the “Guarantee Amount”).
- C) We, through our branch at (the “Bank”) have agreed to furnish this bank guarantee (hereinafter called the “Guarantee”) for the Guarantee Amount.

NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably guarantees the due and faithful repayment on time of the aforesaid instalment of the Advance Payment under and in accordance with the Agreement, and agrees and undertakes to pay to the Employer, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Contractor, such sum or sums up to an aggregate sum of the Guarantee Amount as the Employer shall claim, without the Employer being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.
2. A letter from the Employer that the Contractor has committed default in the due and faithful performance of all or any of its obligations for the repayment of the instalment of the Advance Payment under and in accordance with the Agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that the Employer shall be the sole

judge as to whether the Contractor is in default in due and faithful performance of its obligations during and under the Agreement and its decision that the Contractor is in default shall be final and binding on the Bank, notwithstanding any differences between the Employer and the Contractor, or any dispute between them pending before any court, tribunal, arbitrators or any other Employer or body, or by the discharge of the Contractor for any reason whatsoever.

3. In order to give effect to this Guarantee, the Employer shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Contractor and/or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.
4. It shall not be necessary, and the Bank hereby waives any necessity, for the Employer to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
5. The Employer shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Advance Payment or to extend the time or period of its repayment or to postpone for any time, and from time to time, any of the rights and powers exercisable by the Employer against the Contractor, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Agreement and/or the securities available to the Employer, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Employer of the liberty with reference to the matters aforesaid or by reason of time being given to the Contractor or any other forbearance, indulgence, act or omission on the part of the Employer or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.
6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Employer in respect of or relating to the Advance Payment.
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the Guarantee Amount and this Guarantee will remain in force for the period specified in paragraph 8 below and unless a demand or claim in writing is made by the Employer on the Bank under this Guarantee all rights of the Employer under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
8. The Guarantee shall cease to be in force and effect on Unless a demand or claim under this Guarantee is made in writing on or before the aforesaid date, the Bank shall be discharged from its liabilities hereunder.
9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Employer in writing, and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.
10. Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorised to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be

sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Employer that the envelope was so posted shall be conclusive.

11. This Guarantee shall come into force with immediate effect and shall remain in force and effect up to the date specified in paragraph 8 above or until it is released earlier by the Employer pursuant to the provisions of the Agreement.
12. This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

Signed and sealed this day of, 2018..... at

SIGNED, SEALED AND DELIVERED

For and on behalf of the Bank by:

(Signature)

(Name)

(Designation)

(Code Number)

(Address)

NOTES:

- *The Guarantee Amount should be equivalent to 110% of the value of the applicable instalment.*
- *The bank guarantee should contain the name, designation and code number of the officer(s) signing the guarantee.*
- *The address, telephone number and other details of the head office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing branch.*
- *Insert a date being 90 (ninety) days after the end of one year from the date of payment of the Advance payment to the Contractor (in accordance with Clause 19.2 of the Agreement)*

SCHEDULE-H CONTRACT PRICE

WEIGHTAGES *(See Clause 10.1.4
and 19.3)*

DELETED

SCHEDULE-I

DRAWINGS

(See Clause 10.2.4)

1 Drawings

In compliance of the obligations set forth in Clause 10.2 of this Agreement, the Contractor shall furnish to the Employer's Engineer, free of cost, all Drawings listed in Annex-I of this Schedule-I.

2 Additional Drawings

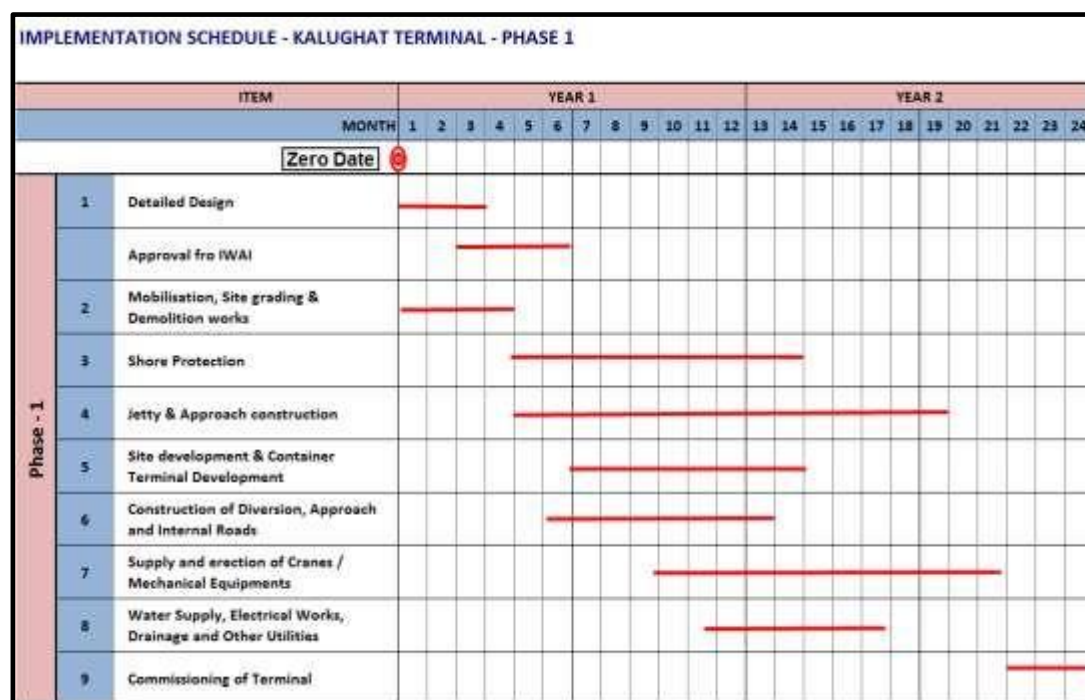
If the Employer's Engineer determines that for discharging its duties and functions under this Agreement, it requires any drawings other than those listed in Annex-I, it may by notice require the Contractor to prepare and furnish such drawings forthwith. Upon receiving a requisition to this effect, the Contractor shall promptly prepare and furnish such drawings to the Employer's Engineer, as if such drawings formed part of Annex-I of this Schedule-I.

SCHEDULE-I**Annex-I****LIST OF DRAWINGS**

S. NO.	DWG. NO.	TITLE
1	I-525/KGT/1001	LAYOUT PLAN OF TERMINAL
2	I-525/KGT/1002	TOPOGRAPHY SURVEY
3	I-525/KGT/1003	HYDROGRAPHIC SURVEY
4	I-525/KGT/1004	LOCATION PLAN OF BOREHOLES.
5	I-525/KGT/1005	GENERAL ARRANGEMENT OF JETTY & APPROACH TRESTLE
6	I-525/KGT/1006	CROSS SECTION OF JETTY & APPROACH TRESTLE
7	I-525/KGT/1007	TYPICAL DETAIL OF SHORE PROTECTION WORK
8	I-525/KGT/1008	TYPICAL DETAILS OF CONTAINER STACK YARD
9	I-525/KGT/1009	TYPICAL LAYOUT OF TERMINAL ADMINISTRATION BUILDING
10	I-525/KGT/1010	ELEVATION OF TERMINAL ADMINISTRATION BUILDING
11	I-525/KGT/1011	TYPICAL LAYOUT & SECTION OF WORKER'S AMENITY BUILDING
12	I-525/KGT/1012	TYPICAL LAYOUT AND ELEVATION SECURITY OFFICE
13	I-525/KGT/1013	WEIGH BRIDGE CONTROL ROOM WITH TOILET FACILITY
14	I-525/KGT/1014	TOILET BLOCK
15	I-525/KGT/1015	SUB STATION EQUIPMENT LAYOUT
16	I-525/KGT/1016	TYPICAL CROSS SECTION OF ROAD
17	I-525/KGT/1017	LAYOUT OF WATER SUPPLY SYSTEM
18	I-525/KGT/1018	LAYOUT OF STORM WATER SYSTEM
19	I-525/KGT/1019	TYPICAL DETAILS OF GATE COMPLEX
20	I-525/KGT/1020	LAYOUT OF BOUNDARY WALL WITH FENCING
21	I-525/KGT/1021	CROSS SECTIONS OF BOUNDARY WALL WITH FENCING
22	I-525/KGT/1022	CABLE ROUTE LAYOUT
23	I-525/KGT/1023	LAYOUT OF FIRE FIGHTING SYSTEM
24	I-525/KGT/1024	POWER SINGLE LINE DIAGRAM
25	I-525/KGT/1025 (SHT-1)	BERTHING APPURTENANCES DETAILS
26	I-525/KGT/1025 (SHT-2)	BERTHING APPURTENANCES DETAILS
27	I-525/KGT/1026	LAYOUT & DETAILS OF END BUFFER, JACKING PLATE & STORM ANCHORS
28	I-525/KGT/1027	CONSTRUCTION METHODOLOGY PLAN & CROSS SECTION

SCHEDULE-J**PROJECT COMPLETION SCHEDULE***(See Clause 10.3.2)***1. Project Completion Schedule**

During Construction period, the Contractor shall comply with the requirements set forth in this Schedule-J for each of the Project Milestones and the Scheduled Completion Date as shown below. Within 15 (fifteen) days of the date of each Project Milestone, the Contractor shall notify the Employer of such compliance along with necessary particulars thereof.



All the milestones shown are mandatory. The contractor shall strictly follow all intermediate milestone utilising his resources to the optimum.

2. Scheduled Completion Period

- 2.1 The Scheduled Completion Period shall be 24 (Twenty Four) Months from the Appointed Date.
- 2.2 On or before the Scheduled Completion Period, the Contractor shall have completed construction in accordance with this Agreement.

3. Extension of time

Upon extension of any or all of the aforesaid Project Milestones or the Scheduled Completion Date, as the case may be, under and in accordance with the provisions of this Agreement, the Project Completion Schedule shall be deemed to have been amended accordingly.

SCHEDULE-K TESTS ON COMPLETION

(See Clause 12.1.2)

1 Schedule for Tests

- 1.1 The Contractor shall, no later than 30 (thirty) days prior to the likely completion of construction, notify the Employer's Engineer and the Employer of its intent to subject the Terminal to Tests, and no later than 10 (ten) days prior to the actual date of Tests, furnish to the Employer's Engineer and the Employer detailed inventory and particulars of all works and equipment forming part of Works.
- 1.2 The Contractor shall notify the Employer's Engineer of its readiness to subject the Terminal to Tests at any time after 10 (ten) days from the date of such notice, and upon receipt of such notice, the Employer's Engineer shall, in consultation with the Contractor, determine the date and time for each Test and notify the same to the Employer who may designate its representative to witness the Tests. The contractor shall thereupon conduct the Tests itself to be conducted in accordance with Article 12.

2 Tests

- 2.1 Visual and physical test: The Employer's Engineer shall conduct a visual and physical check of construction to determine that all works and equipment forming part thereof conform to the provisions of this Agreement. The physical tests shall include measurement of crack, rutting area, area of potholes, depressions, shoving and settlement and upheaval, shoulder drop, erosion of soil from embankment,
- 2.2 Riding quality test: Riding quality of each lane of the carriageway shall be checked with the help of a calibrated bump integrator and the maximum permissible roughness for purposes of this Test shall be 2,000 (two thousand) mm for each kilometre.
- 2.3 Tests for bridges: All major and minor bridges shall be subjected to the rebound hammer and ultrasonic pulse velocity tests, to be conducted in accordance with the procedure described in Special Report No. 17: 1996 of the IRC Highway Research Board on Non-destructive Testing Techniques, at two spots in every span, to be chosen at random by the Employer's Engineer. Bridges with an individual span length of 15 (fifteen) meters or more shall also be subjected to load testing.

"Tests on jetty, Electromechanical and IT equipments: The Employer's Engineer shall require the Contractor to carry out test on jetty works, electromechanical equipments and IT equipments etc. in accordance with good industrial practice for determining the compliance of terminal with specifications and standards."
- 2.4 Other tests: The Employer's Engineer may require the Contractor to carry out or cause to be carried additional tests, in accordance with Good Industry Practice, for determining the compliance of the Terminal with Specifications and Standards.
- 2.5 Environmental audit: The Employer's Engineer shall carry out a check to determine conformity of the Terminal with the environmental requirements set forth in Applicable Laws and Applicable Permits. The Employer's Engineer shall audit for the compliance to the safeguard provisions stipulated in EMP as per Contract documents.
- 2.6 Safety Audit: The Employer's Engineer shall carry out, or cause to be carried out, a safety audit to determine conformity of the Terminal with the safety requirements and Good Industry Practice.

3 Agency for conducting Tests

All Tests set forth in Schedule-K shall be conducted and borne by the Contractor in presence of Employer's Engineer and witnessed by Employer.

4 Completion Certificate

Upon successful completion of Tests, the Employer's Engineer shall issue the Completion Certificate in accordance with the provisions of Article 12.

SCHEDULE-L PROVISIONAL**CERTIFICATE** *(See Clause**12.2 and 12.4)*

I, (Name of the Employer's Engineer), acting as the Employer's Engineer, under and in accordance with the Agreement dated (the "Agreement"), for construction of the " IWT Inter - modal Terminal at Kalughat in Bihar on River Ganga (National Waterway-1)" on Engineering, Procurement and Construction (EPC) basis through (Name of Contractor), hereby certify that the Tests in accordance with Article 12 of the Agreement have been undertaken to determine compliance of the Terminal with the provisions of the Agreement.

Works that are incomplete on account of Time Extension have been specified in the Punch List appended hereto, and the Contractor has agreed and accepted that it shall complete all such works in the time and manner set forth in the Agreement. In addition, certain minor works are incomplete and these are not likely to cause material inconvenience to the Users of the Terminal or affect their safety. The Contractor has agreed and accepted that as a condition of this Provisional Certificate, it shall complete such minor works within 30 (thirty) days hereof. These minor works have also been specified in the aforesaid Punch List.

In view of the foregoing, I am satisfied that the Terminal can be safely and reliably placed in service of the Users thereof, and in terms of the Agreement, the Terminal is hereby provisionally declared fit for entry into operation on this the day of 2018

ACCEPTED, SIGNED, SEALED

SIGNED, SEALED

AND DELIVERED

AND DELIVERED

For and on behalf of

For and on behalf of

CONTRACTOR by:

EMPLOYER's ENGINEER by:

(Signature)

(Signature)

COMPLETION CERTIFICATE

- 1 I, (Name of the Employer's Engineer), acting as the Employer's Engineer, under and in accordance with the Agreement dated (the "Agreement"), for "Construction of the IWT Inter - modal Terminal at Kalughat in Bihar on River Ganga (National Waterway-1)" on Engineering, Procurement and Construction (EPC) basis through (Name of Contractor), hereby certify that the Tests in accordance with Article 12 of the Agreement have been successfully undertaken to determine compliance of the Terminal with the provisions of the Agreement, and I am satisfied that the Terminal can be safely and reliably placed in service of the Users thereof.
- 2 It is certified that, in terms of the aforesaid Agreement, all works forming part of Terminal have been completed, and the Terminal is hereby declared fit for entry into operation on this the day of 2018

SIGNED, SEALED AND DELIVERED

For and on behalf of the Employer's Engineer by:

(Signature)

(Name)

(Designation)

(Address)

SCHEDULE-M

PAYMENT REDUCTION FOR NON COMPLIANCE

(See Clause 14.6, 15.2 and 19.7)

DELETED

SCHEDULE-N**SELECTION OF EMPLOYER'S ENGINEER**

(See Clause 18.1.1)

1 Selection of Employer's Engineer

- 1.1 The provisions of the "World Bank Procurement Guidelines, Selection and Employment of Consultants – January, 2011" shall apply for selection of an experienced firm to discharge the functions and duties of an Employer's Engineer.
- 1.2 In the event of termination of the Technical Consultants appointed in accordance with the provisions of Paragraph 1.1, the Employer shall appoint another firm of Technical Consultants forthwith and may engage a government-owned entity in accordance with the provisions of Paragraph 3 of this Schedule-J.

2 Terms of Reference

The Terms of Reference for the Employer's Engineer (the "TOR") shall substantially conform with Annex 1 to this Schedule J.

3 Appointment of Government entity as Employer's Engineer

Notwithstanding anything to the contrary contained in this Schedule, the Employer may in its discretion appoint a government-owned entity as the Employer's Engineer; provided that such entity shall be a body corporate having as one of its primary functions the provision of consulting, advisory and supervisory services for engineering projects; provided further that a government-owned entity which is owned or controlled by the Employer shall not be eligible for appointment as Employer's Engineer.

(SCHEDULE-N)**Annex-I****TERMS OF REFERENCE FOR EMPLOYER'S ENGINEER****1 Scope**

- 1.1 These Terms of Reference (the "TOR") for the Employer's Engineer are being specified pursuant to the EPC Agreement dated (the "Agreement"), which has been entered into between the [name and address of the Employer] (the "Employer") and (the "Contractor") for "IWT Inter - modal Terminal at Kalughat in Bihar on River Ganga (National Waterway-1)" on Engineering, Procurement, Construction (EPC) basis, and a copy of which is annexed hereto and marked as Annex-A to form part of this TOR.

1.2 The TOR shall apply to construction and maintenance of the Terminal.**2 Definitions and interpretation**

- 2.1 The words and expressions beginning with or in capital letters and not defined herein but defined in the Agreement shall have, unless repugnant to the context, the meaning respectively assigned to them in the Agreement.
- 2.2 References to Articles, Clauses and Schedules in this TOR shall, except where the context otherwise requires, be deemed to be references to the Articles, Clauses and Schedules of the Agreement, and references to Paragraphs shall be deemed to be references to Paragraphs of this TOR.
- 2.3 The rules of interpretation stated in Clauses 1.2, 1.3 and 1.4 of the Agreement shall apply, mutatis mutandis, to this TOR.

3. General

- 3.1 The Employer's Engineer shall discharge its duties in a fair, impartial and efficient manner, consistent with the highest standards of professional integrity and Good Industry Practice.
- 3.2 The Employer's Engineer shall perform the duties and exercise the Employer in accordance with the provisions of this Agreement, but subject to obtaining prior written approval of the Employer before determining:
- a) Any Time Extension;
 - b) Any additional cost to be paid by the Employer to the Contractor;
 - c) The Termination Payment; or
 - d) Any other matter which is not specified in (a), (b) or (c) above and which creates an obligation or liability on either Party for a sum exceeding 0.2% of Contract price.
- 3.3 The Employer's Engineer shall submit regular periodic reports, at least once every month, to the Employer in respect of its duties and functions under this Agreement. Such reports shall be submitted by the Employer's Engineer within 10 (ten) days of the beginning of every month.
- 3.4 The Employer's Engineer shall inform the Contractor of any delegation of its duties and responsibilities to its suitably qualified and experienced personnel; provided, however, that it shall not delegate the Employer to refer any matter for the Employer's prior approval in accordance with the provisions of Clause 18.2.

- 3.5 The Employer's Engineer shall aid and advise the Employer on any proposal for Change of Scope under Article 13.
- 3.6 In the event of any disagreement between the Parties regarding the meaning, scope and nature of Good Industry Practice, as set forth in any provision of the Agreement, the Employer's Engineer shall specify such meaning, scope and nature by issuing a reasoned written statement relying on good industry practice and authentic literature.

4 Construction Period

- 4.1 During the Construction Period, the Employer's Engineer shall review the Drawings furnished by the Contractor along with supporting data, including the geo-technical and hydrological investigations, characteristics of materials from borrow areas and quarry sites, topographical surveys, and the recommendations of the Safety Consultant in accordance with the provisions of Clause 10.1.6. The Employer's Engineer shall complete such review and send its observations to the Employer and the Contractor within 15 (fifteen) days of receipt of such Drawings; provided, however that in case of a Major Bridge or Structure, the aforesaid period of 15 (fifteen) days may be extended upto 30 (thirty) days. In particular, such comments shall specify the conformity or otherwise of such Drawings with the Scope of the Project and Specifications and Standards.
- 4.2 The Employer's Engineer shall review any revised Drawings sent to it by the Contractor and furnish its comments within 10 (ten) days of receiving such Drawings.
- 4.3 The Employer's Engineer shall review the Quality Assurance Plan submitted by the Contractor and shall convey its comments to the Contractor within a period of 21 (twenty-one) days stating the modifications, if any, required thereto.
- 4.4 The Employer's Engineer shall complete the review of the methodology proposed to be adopted by the Contractor for executing the Works, and convey its comments to the Contractor within a period of 10 (ten) days from the date of receipt of the proposed methodology from the Contractor.
- 4.5 The Employer's Engineer shall grant written approval to the Contractor, where necessary, for interruption and diversion of the flow of traffic in the existing lane(s) of the Terminal for purposes of maintenance during the Construction Period in accordance with the provisions of Clause 10.4.
- 4.6 The Employer's Engineer shall review the monthly progress report furnished by the Contractor and send its comments thereon to the Employer and the Contractor within 7 (seven) days of receipt of such report.
- 4.7 The Employer's Engineer shall inspect the Construction Works and the Terminal and shall submit a monthly Inspection Report bringing out the results of inspections and the remedial action taken by the Contractor in respect of Defects or deficiencies. In particular, the Employer's Engineer shall include in its Inspection Report, the compliance of the recommendations made by the Safety Consultant.
- 4.8 The Employer's Engineer shall conduct the pre-construction review of manufacturer's test reports and standard samples of manufactured Materials, and such other Materials as the Employer's Engineer may require.
- 4.9 For determining that the Works conform to Specifications and Standards, the Employer's Engineer shall require the Contractor to carry out, or cause to be carried out, tests at such time and frequency and in such manner as specified in the Agreement and in accordance with Good Industry Practice for quality assurance. For purposes of this Paragraph 4.9, the tests specified in the IRC Special Publication-11 (Handbook of Quality Control for

Construction of Roads and Runways) and the Specifications for Road and Bridge Works issued by MORTH (the “Quality Control Manuals”) or any modification/substitution thereof shall be deemed to be tests conforming to Good Industry Practice for quality assurance.

- 4.10 The Employer’s Engineer shall test check all the quantity or number of tests prescribed for each category or type of test for quality control by the Contractor.
- 4.11 The timing of tests referred to in Paragraph 4.9, and the criteria for acceptance/ rejection of their results shall be determined by the Employer’s Engineer in accordance with the Quality Control Manuals. The tests shall be undertaken on a random sample basis and shall be in addition to, and independent of, the tests that may be carried out by the Contractor for its own quality assurance in accordance with Good Industry Practice.
- 4.12 In the event that results of any tests conducted under Clause 11.10 establish any Defects or deficiencies in the Works, the Employer’s Engineer shall require the Contractor to carry out remedial measures.
- 4.13 The Employer’s Engineer may instruct the Contractor to execute any work which is urgently required for the safety of the Terminal, whether because of an accident, unforeseeable event or otherwise; provided that in case of any work required on account of a Force Majeure Event, the provisions of Clause 21.6 shall apply.
- 4.14 In the event that the Contractor fails to achieve any of the Project Milestones, the Employer’s Engineer shall undertake a review of the progress of construction and identify potential delays, if any. If the Employer’s Engineer shall determine that completion of the Terminal is not feasible within the time specified in the Agreement, it shall require the Contractor to indicate within 15 (fifteen) days the steps proposed to be taken to expedite progress, and the period within which the Project Completion Date shall be achieved. Upon receipt of a report from the Contractor, the Employer’s Engineer shall review the same and send its comments to the Employer and the Contractor forthwith.
- 4.15 The Employer’s Engineer shall obtain from the Contractor a copy of all the Contractor’s quality control records and documents before the Completion Certificate is issued pursuant to Clause 12.4.
- 4.16 Employer’s Engineer may recommend to the Employer suspension of the whole or part of the Works if the work threatens the safety of the Users and pedestrians. After the Contractor has carried out remedial measure, the Employer’s Engineer shall inspect such remedial measures forthwith and make a report to the Employer recommending whether or not the suspension hereunder may be revoked.
- 4.17 In the event that the Contractor carries out any remedial measures to secure the safety of suspended works and Users, and requires the Employer’s Engineer to inspect such works, the Employer’s Engineer shall inspect the suspended works within 3 (three) days of receiving such notice, and make a report to the Employer forthwith, recommending whether or not such suspension may be revoked by the Employer.
- 4.18 The contractor shall carry out, all the Tests specified in Schedule-K and the Employer’s Engineer issue a Completion Certificate or Provisional Certificate, as the case may be. For carrying out its functions under this Paragraph 4.18 and all matters incidental thereto, the Employer’s Engineer shall act under and in accordance with the provisions of Article 12.

5 Determination of Costs and Time

- 5.1 The Employer’s Engineer shall determine the costs, and/or their reasonableness, that are required to be determined by it under the Agreement.

- 5.2 The Employer's Engineer shall determine the period of Time Extension that is required to be determined by it under the Agreement.
- 5.3 The Employer's Engineer shall consult each Party in every case of determination in accordance with the provisions of Clause 18.5.

6. Payments

- 6.1 The Employer's Engineer shall withhold payments for the affected works for which the Contractor fails to revise and resubmit the Drawings to the Employer's Engineer in accordance with the provisions of Clause 10.2.4 (d).
- 6.2 Employer's Engineer shall:
 - a) Within 10 (ten) days of receipt of the Stage Payment Statement from the Contractor pursuant to Clause 19.4, determine the amount due to the Contractor and recommend the release of 90 (ninety) percent of the amount so determined as part payment, pending issue of the Interim Payment Certificate; and
 - b) Within 15 (fifteen) days of the receipt of the Stage Payment Statement referred to in Clause 19.4, deliver to the Employer and the Contractor an Interim Payment Certificate certifying the amount due and payable to the Contractor, after adjustments in accordance with the provisions of Clause 19.10.
- 6.3 The Employer's Engineer shall certify final payment within 30 (thirty) days of the receipt of the final payment statement of Maintenance in accordance with the provisions of Clause 19.16.

7. Other duties and functions

The Employer's Engineer shall perform all other duties and functions as specified in the Agreement.

8 Miscellaneous

- 8.1 A copy of all communications, comments, instructions, Drawings or Documents sent by the Employer's Engineer to the Contractor pursuant to this TOR, and a copy of all the test results with comments of the Employer's Engineer thereon, shall be furnished by the Employer's Engineer to the Employer forthwith.
- 8.2 The Employer's Engineer shall retain at least one copy each of all Drawings and Documents received by it, including 'as-built' Drawings, and keep them in its safe custody.
- 8.3 Within 90 (ninety) days of the Project Completion Date, the Employer's Engineer shall obtain a complete set of as-built Drawings, in 2 (two) hard copies and in micro film form or in such other medium as may be acceptable to the Employer, reflecting the Terminal as actually designed, engineered and constructed, including an as-built survey illustrating the layout of the Terminal and setback lines, if any, of the buildings and structures forming part of Project Facilities; and shall hand them over to the Employer against receipt thereof.
- 8.4 The Employer's Engineer, if called upon by the Employer or the Contractor or both, shall mediate and assist the Parties in arriving at an amicable settlement of any Dispute between the Parties.
- 8.5 The Employer's Engineer shall inform the Employer and the Contractor of any event of Contractor's Default within one week of its occurrence.

SCHEDULE-O**FORMS OF PAYMENT STATEMENTS** (See Clauses 19.4.1, 19.6.1, and 19.8.1)**1. Stage Payment Statement for Works**

The Stage Payment Statement for Works shall state:

- a) The estimated amount for the Works executed in accordance with Clause 19.3.1 subsequent to the last claim;
- b) Amounts reflecting adjustments in price for the aforesaid claim;
- c) The estimated amount of each Change of Scope Order executed subsequent to the last claim;
- d) Amounts reflecting adjustment in price, if any, for (c) above in accordance with the provisions of Clause 13.2.3 (a);
- e) Total of (a), (b), (c) and (d) above;
- f) Deductions:
 - i) Any amount to be deducted in accordance with the provisions of the Agreement except taxes;
 - ii) Any amount towards deduction of taxes; and iii) Total of (i) and (ii) above.
- g) Net claim: (e) – (f) (iii);
- h) The amounts received by the Contractor up to the last claim:
 - ✓ For the Works executed (excluding Change of Scope orders);
 - ✓ For Change of Scope Orders, and
 - ✓ Taxes Deducted

2. Contractor's Claim for Damages

Note: The Contractor shall submit its claims in a form acceptable to the Employer.

SCHEDULE O-1**Under Taking for INPUT TAX Credit in GST** (See Clauses 19.22)

The contractor shall undertake to pass on the input tax credit in GST and shall compensate the employer for any loss suffered on this account by employee (if any).

We , (Name of the Contractor) hereby certify that the **for INPUT TAX Credit in GST** in accordance with clause 19.22 of the Agreement shall pass on the input tax credit in GST and shall compensate the employer for any loss suffered on this account by employee (if any).

SIGNED, SEALED AND DELIVERED

(Signature)

(Name and designation of Contractors Representative)

(Address)

SCHEDULE-P

INSURANCE

(See Clause 20.1)

1. Insurance during Construction Period

- 1.1 The Contractor shall effect and maintain at its own cost, from the Appointed Date till the date of issue of the Completion Certificate, the following insurances for any loss or damage occurring on account of Non Political Event of Force Majeure, malicious act, accidental damage, explosion, fire and terrorism:
- a) Insurance of Works, Plant and Materials and an additional sum of 15 (fifteen) per cent of such replacement cost to cover any additional costs of and incidental to the rectification of loss or damage including professional fees and the cost of demolishing and removing any part of the Works and of removing debris of whatsoever nature; and
 - b) Insurance for the Contractor's equipment and Documents brought onto the Site by the Contractor, for a sum sufficient to provide for their replacement at the Site.
- 1.2 The insurance under paragraph 1.1 (a) and (b) above shall cover the Employer and the Contractor against all loss or damage from any cause arising under paragraph 1.1 other than risks which are not insurable at commercial terms.

2. Insurance for Contractor's Defects Liability

The Contractor shall effect and maintain insurance cover for the Works from the date of issue of the Completion Certificate until the end of the Defects Liability Period for any loss or damage for which the Contractor is liable and which arises from a cause occurring prior to the issue of the Completion Certificate. The Contractor shall also maintain other insurances for maximum sums as may be required under the Applicable Laws and in accordance with Good Industry Practice.

3. Insurance against Injury to persons and damage to Property

- 3.1 The Contractor shall insure against its liability for any loss, damage, death or bodily injury, or damage to any property (except things insured under Paragraphs 1 and 2 of this Schedule or to any person (except persons insured under Clause 20.9), which may arise out of the Contractor's performance of this Agreement. This insurance shall be for a limit per occurrence of not less than the amount stated below with no limit on the number of occurrences. The insurance cover shall be not less than: Rs. 2 lakhs
- 3.2 The insurance shall be extended to cover liability for all loss and damage to the Employer's property arising out of the Contractor's performance of this Agreement excluding:
- a) The Employer's right to have the construction works executed on, over, under, in or through any land, and to occupy this land for the Works; and
 - b) Damage which is an unavoidable result of the Contractor's obligations to execute the Works.

4. Insurance to be in Joint Names

The insurance under paragraphs 1 to 3 above shall be in the joint names of the Contractor and the Employer.

SCHEDULE-Q**TESTS ON COMPLETION OF DEFECT LIABILITY PERIOD**

(See Clause 14.10)

1. Crane Test

The tests shall comprise the following:

- a) Equipment / unit assembly test.
- b) Contractor(s)' adjustments and settings.
- c) Satisfactory completion of no load tests for each equipment.
- d) Final Operational Tests such as Commissioning and Performance Guarantee Test of each equipment.

Before any electrical system is put to use, the Contractor(s) shall carry out the following tests at site in presence of and to the satisfaction of the Engineer.

- ✓ Insulation resistance tests on cables, motors, switchgears and generators.
- ✓ Polarity tests wherever applicable.

2. Area Lighting Level Test

Contractor shall in the presence of client representative measure lux level through lux meters at various points in the following areas and ensure lux levels as mentioned are achieved:

- i) Jetty Area: Minimum 20 lux
- ii) Road: Minimum 20 lux
- iii) Terminal Administration building: Minimum 200 lux
- iv) Electrical sub-station: Minimum 200 lux

SCHEDULE-R TAKING OVER

CERTIFICATE *(See Clause*

14.10)

I, (Name and designation of the Employer's representative) under and in accordance with the Agreement dated (the "Agreement"), for construction of the "IWT Inter - modal Terminal at Kalughat in Bihar on River Ganga (National Waterway-1)" on Engineering, Procurement and Construction (EPC) basis through (Name of Contractor), hereby certify that the Tests on completion of Defects Liability Period in accordance with Article 17 of the Agreement have been successfully undertaken to determine compliance of the Terminal with the provisions of the Agreement and I hereby certify that the Employer has taken over the Terminal from the Contractor on this day.....2018

SIGNED, SEALED AND DELIVERED

(Signature)

(Name and designation of Employer's Representative)

(Address)

SCHEDULE-S PERFORMANCE**CERTIFICATE** *(See Clause 17.7.2)*

I, (Name and designation of the Employer's representative) under and in accordance with the Agreement dated (the "Agreement"), for Construction of the "IWT Inter - modal Terminal at Kalughat in Bihar on River Ganga (National Waterway-1)" on Engineering, Procurement and Construction (EPC) basis through (Name of Contractor), hereby certify that the Contractor has discharged all its obligations under the Agreement and in accordance with Article 17 of the Agreement I hereby issue Performance Certificate to the Contractor on this day.....,2018

SIGNED, SEALED AND DELIVERED

(Signature)

(Name and designation of Employer's Representative)

(Address)

SCHEDULE- T
see Clause 19.1.6

All Payments under the Contract shall be made in Indian Rupees Only

Appointment of Adjudicator**Suggested Draft of Letter of Appointment of Adjudicators in civil works contracts**

Sub: _____ (Name of the Contract)

To

Name and address of the Adjudicator

We hereby confirm your appointment as Adjudicator for the above contract to carry out the assignment specified in this Letter of Appointment.

For administrative purpose _____ (*name of the officer representing the Employer*) has been assigned to administer the assignment and to provide the Adjudicator with all relevant information needed to carry out the assignment on behalf of both the Employer and the contractor. The services will be required during the period of contract for the work of (Name of the Contract) _____.

The Adjudicator shall visit the worksite once in 3 (three) months till the completion of the work indicated above or as specifically requested by Employer/ Contractor for the period upto the end of defects liability period with prior intimation to the Employer and the contractor. The duration of each visit shall ordinarily be for one day only. These durations are approximate and (*Name of the Employer and Name of the Contractor*) may find it necessary to postpone or cancel the assignment and/or shorten or extend the duration.

The appointment will become effective upon confirmation of letter by you. The appointment of Adjudicator shall be liable for termination under a 30 (thirty) days written notice from the date of issue of the notice, if both Employer and the Contractor so desire. Also the appointment shall automatically stand terminated 14 days after the defect notice / correction period as stated in Clauses 23 and 24 of the Conditions of Contract is over.

The Adjudicator will be paid a fee of Rs. _____ (Rupees _____ only) per each day of visit at the worksite. The actual expenses for boarding and traveling in connection with the assignment will be reimbursed to the Adjudicator. The Adjudicator will submit a pre-receipted bill in triplicate to the Employer indicating the date of the visit, fees for the visit and a proof in support of the actual expenditure [only for items valued above Rs. 200 each] incurred by him against boarding, lodging and traveling expenses after performing the visit on each occasion. The Employer will make the admissible payment (both the Employer's and the Contractor's share) to the Adjudicator within 30 days of the receipt of the bill. The Contractor's share on this account (half the paid amount) will be recovered by the Employer from the Contractor's bills against the work.

In accepting this assignment, the Adjudicator should understand and agree that he is responsible for any liabilities and costs arising out of risks associated with travel to and from the place of emergency repatriation, loss or damage to personal/professional effects and property. The Adjudicator is advised to effect personal insurance cover in respect of such risks if he does not already have such cover in place. In this regard, the Adjudicator shall maintain appropriate medical, travel, accident and third-party liability insurance. The obligation under this paragraph will survive till termination of this appointment.

Procedures for resolution of disputes by the Adjudicator is described in the contract of _____ (name of the contract) between the Employer and the contractor vide clause no.24 of the General Conditions of Contract. Your recommendation should be given in the format attached, within 28 days of receipt of a notification of dispute.

The Adjudicator will carry out the assignment in accordance with the highest standard of professional and ethical competence and integrity, having due regard to the nature and purpose of the assignment, and will conduct himself in a manner consistent herewith. After visiting the worksite, the Adjudicator will discuss the matter with the Employer and if necessary with the Contractor before arriving at a decision.

The Adjudicator will agree that all knowledge and information not within the public domain, which may be acquired while carrying out this service shall be all time and for all purpose, regarded as strictly confidential and held in confidence, and shall not be directly or indirectly disclosed to any party whatsoever, except with the permission of the Employer and the contractor. The Adjudicator's decision should be communicated in the form of a speaking order specifying the reasons.

The Adjudicator will agree that any manufacturing or construction firm with which he might be associated with, will not be eligible to participate in bidding for any goods or works resulting from or associated with the project of which this consulting assignment forms a part

Read and Agreed

Name & Signature of Adjudicator

Place: Date:

Name of Employer ... Signature of authorized representative of Employer

Name of the Contractor Signature of authorized representative of Contractor

Attachment: Copy of contract document between the Employer and contractor and format for recommendation.

¹¹ If ITB 43 makes provision of an Adjudicator from list provided by an institution, kindly modify Appendix 3 to state that the fee and reimbursable payable to the adjudicator shall be as per the rules of the Institution.

SUMMARY OF ADJUDICATOR'S RESPONSIBILITIES

The Adjudicator has the following principal responsibilities:

1. Visit the site periodically.
2. Keep abreast of job activities and developments.
3. Encourage the resolution of disputes by the parties.
4. When a dispute is referred to it, conduct a hearing (no legal presentation), complete its deliberations, and prepare a recommendations in a professional and timely manner(as per sample format)

[Project Name] Recommendation of Adjudicator

Dispute No. XX [NAME OF DISPUTE]

Hearing Date: _____

Dispute

Description of dispute. A one or two sentence summation of the dispute.

Contractor's Position

A short summation of the contractor's position as understood by the Adjudicator.

Employer's Position

A short summation of the Employer's position as understood by the Adjudicator.

Recommendation

The Adjudicator's specific recommendation for settlement of the dispute. (*The recommended course is consistent with the explanation*).

Explanation

(*This section could also be called Considerations, Rationale, Findings, Discussion, and so on.*)

The Adjudicator's description of how each recommendation was reached.

Respectfully submitted,

Date : _____

Brief Biodata of Dr Suresh Chandra Misra

1. **Name:** MISRA SURESH CHANDRA
Date of birth: 12TH SEPTEMBER 1948
2. **Profession:** ACADEMIC and RESEARCH
Present Position: Retired as Professor from IIT Kharagpur
Address:

(a) Official NA	(b) Residential Plot no. 1080, Lane no. 7, Aerodrome Area, Bhubaneswar – 751020, Odisha, India
Phone: NA	Phone: +91 9437477180
	Email: misra1948@gmail.com

3. Degrees Obtained

Degree	Awards	University	Specialization	Hall of Residence	Year
B.Tech(Hons.)	Silver Medal	IIT Kharagpur	Design	Patel	1965-70
Ph.D	National Scholarship	University of Newcastle upon Tyne, UK	Naval Architecture		1973-76

4. Professional Achievements

Period From To	Position Held	Organization/Institution	Role	Remarks
1970 1979	Design Engineer	Hindustan Shipyard Ltd.	Design Engineer	Sponsored for three years to do Ph.D. in UK (1973-1976)
1979 1989 1990 till retirement	Assistant Professor Professor	IIT Khargapur	Teaching, Research and Industrial Consultancy	On British council fellowship for 6 months in Glasgow, univ in 1984., later lien to IIT Madras and NSDR/ IMU, Visakhapatnam
1998 2000	Visiting Professor (lien)	IIT Madras	Teaching, Research and Industrial Consultancy	
2008 2013	Director (on Lien)	NSDR/ IMU Visakhapatnam campus	Administration, Teaching, Research and Industrial Consultancy	NSDR/ IMU was subsumed to Indian Maritime University in 2009 and he was the first Director of IMU Visakhapatnam campus
2013 till date	Chairman, Naval Research Board, DRDO (an honorary position); Founder and current President, Forum for River and Ocean Scientists and Technologists (FROST), Odisha, registration no. 24010/33 of 2018-19; Visiting faculty at IMU, Visakhapatnam Campus; Advisor to General Consultants for Kochi Water Metro project under KMRL, Kochi.			

5. Record of Contributions to:

(a) Intellectual Property

(Publications/Design/Developments/Patents etc.)

- “Modularised Ship Hull Form”, Inventors: Prof S C Misra and Prof O P Sha of IIT Kharagpur, patents rights belong to: IIT Kharagpur, Ministry of Shipping of Govt. of India, Department of Science and Technology of Govt. of India, AAGL(Gujarat), BSL Mumbai, GSL Goa, LRS Mumbai, IRS Mumbai, Original Patent application no. 0561/Cal/2002 dt. 25.9.2002, patent no. 214274 awarded on 07/02/2008.
- **Books:**
 - S. C. Misra and P. Misra (Ed.), “2020 Lockdown Effects and Future Trends in Water Body Management”, LAP Publishing, Germany, October 2020.
 - S. C. Misra, “Design Principles of Ships and Marine Structures”, CRC Press of Tylor and Francis Group, USA, December 2015.
 - S.C.Misra and O.P.Sha, editors “Computer-Aided Ship design”, under assistance from CEP Cell of IIT Kharagpur, 1989(contributed as author also).
 - M.R.Pranesh and S.C.Misra, “Environmental Hazards and Safety Requirement in the Port sector”, under assistance from Curriculum Dev. Prog., IITMadras, 2000(contributed as author also).

(b) Leadership (Entrepreneurship/Organizational Development)

- *Converting a ship design organisation, National Ship Design and Research Centre, to a part of a central university, Indian Maritime University, Visakhapatnam Campus*
- *Academic leadership as stated below:*
 - *Started a new multidisciplinary Post Graduate Diploma program in Maritime Operation and Management (PGDMOM) exclusively for professional marine engineers which started at IIT Kharagpur in the academic year 2003-2004.*
 - *Started the Naval Architecture and Ocean Engineering degree programs at both UG and PG levels at IMU Visakhapatnam Campus in its first year of creation, 2009.*
 - *Started a PG program in Dredging and Harbour Engineering at IMU, Visakhapatnam campus in 2010 for the first time in the country.*
- *Developing strong research base at IITs, IISc and in other engineering institutions and generating multi-institutional research programs and developing strong connection between teaching institutions and research organisations in the context of naval research through NRB.*
- *Setting up and establishing FROST, Odisha*

(c) Society

- Invited mentor and speaker of INSPIRE program for development of science interest in school children sponsored by DST at Port Blair Campus of Pondichery University, at IMU Visakhapatnam Campus and at NIT Rourkela during 2012, 2013 and 2015.
- Lectures at schools and colleges in Odisha regarding water awareness.
- Safety of wooden boats moving in rivers and coastal waters for tourism and fishing is a major concern which has been a major concern for me. I have now been involved in modifying an existing wooden boat for higher safety and reduction of pollution. This activity is to continue.

(d) Any other: More than 50 technical papers published

6. Peer Recognition (National/International Honours, Awards, Prizes including honorary degree)

Awarded National Scholarship for Higher Study Abroad by Government of India in 1973 till 1976.

Awarded Silver Medal by IIT Kharagpur in 1970 for securing first position in B.Tech (H) course in Naval Architecture.

Awarded Marine Engineering Division Medal, Institution of Engineers (India), 2001.

Awarded Institution Medal (Col. G.N.Bajpai), Institution of Engineers (India), 2001.

H.S.Rao Memorial Award for Best paper, June 04 issue of Marine Engineers Review (India), 2005 given by Institution of Marine Engineers (India).

Rashtriya Gaurav Award presented by India International Friendship Society in 2004.

Best Citizen of India Award and Citation in the book by the same title, published by International Publishing House, New Delhi, 2004.

7. Membership/Fellowship of National/International Professional Bodies

Founder President, Forum for River and Ocean Scientists and Technologists, Odisha

Fellow of Institution of Engineers (India)

Fellow of Institution of Marine Engineers(India)

Life Member of Institution of Marine Technologists, Mumbai

Life Member of Indian Society for Technical Education

Member of Society of Naval Architects and Marine Engineers, USA.

Member, Indian technical Committee of Class NK, Nippon Kaiji Kyokai, Japan, 2012 onwards.

Member, Technical Committee of IRS, Mumbai.

Member of PMCC for acquisition of 2 coastal research vessels by NIOT funded by MoES.

8. Specific outstanding Accomplishments meriting the award (within 100 words): (Detailed biography may be provided as an annexure)

Apart from teaching naval Architecture to students, Prof Misra has been involved in design of ships and boats and other water based infrastructure including a 600 TEU container vessel and marine engineering laboratory *Ship in Campus*. His book *Design Principles of Ships and Marine Structures* published by Taylor and Fransis Group has been widely appreciated. After his retirement from active service, apart from being the Chairman of Naval research Board, he has formed a think tank FROST. His current interests include safety and sustainability in boats of inland water transportation, increasing water awareness in Odisha and ancient river and coastal transportation system for building shore based temples.
