

Government of Nagaland

Name of Work: “Construction of Bailey Bridge over Kithu river between Thakiye village (Zunheboto) and Shishimi (Kiphire)” span 70 feet (21.34m) under Setu Bandhan Scheme of Central Road and Infrastructure Fund (CRIF) in the State of Nagaland.

Job No: CRIF(SETU-BANDHAN)/2025-26/06

Bidding Document

INVITATION FOR BIDS (IFB)

**GOVERNMENT OF NAGALAND
OFFICE OF THE CHIEF ENGINEER PWD (R&B)
NAGALAND: KOHIMA**

NATIONAL COMPETITIVE BIDDING

(CIVIL WORKS)

NAME OF WORK : **“Construction of Bailey Bridge over Kithu river between Thakiye village (Zunheboto) and Shishimi (Kiphire)” span 70 feet (21.34m) under Setu Bandhan Scheme of Central Road and Infrastructure Fund (CRIF) in the State of Nagaland.**

PERIOD OF DOWNLOADING BIDDING DOCUMENT	:	FROM 26.06.2026 TO 10.08.2026
TIME AND DATE OF PRE-BID CONFERENCE	:	DATE 21.07.2026 TIME 12:00 HRS
LAST DATE AND TIME FOR ON-LINE SUBMISSION OF BIDS	:	DATE 10.08.2026 TIME 15:00 HRS
TIME AND DATE OF OPENING TECHNICAL BIDS	:	DATE 11.08.2026 TIME 13:00 HRS
TIME AND DATE OF OPENING OF FINANCIAL BIDS	:	DATE will be notified later TIME will be notified later
PLACE OF OPENING OF BIDS	:	Office of the Chief Engineer, PWD(R&B) Kohima, Nagaland
OFFICER INVITING BIDS	:	Chief Engineer, PWD(R&B) Kohima, Nagaland

**GOVERNMENT OF NAGALAND
OFFICE OF THE CHIEF ENGINEER PWD (R&B)
NAGALAND: KOHIMA**

“Construction of Bailey Bridge over Kithu river between Thakiye village (Zunheboto) and Shishimi (Kiphire)” span 70 feet (21.34m) under Setu Bandhan Scheme of Central Road and Infrastructure Fund (CRIF) in the State of Nagaland.

BID DOCUMENT

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SECTION – 1

INSTRUCTION TO BIDDERS

Section 1: Instructions to Bidders

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A. General

1. Scope of Bid

- 1.1 **The Chief Engineer PWD (R&B), Nagaland (referred to as Employer in these documents) invites bids for the work: “Construction of Bailey Bridge over Kithu river between Thakiye village (Zunheboto) and Shishimi (Kiphire)” span 70 feet (21.34m) under Setu Bandhan Scheme of Central Road and Infrastructure Fund (CRIF) in the State of Nagaland. (As defined in these documents and referred to as "the works") detailed in the table given in IFB. The bidders may submit bids of the works detailed in the table given in IFB.**
- 1.2 The successful bidder will be expected to complete the works by the intended completion date specified in the Contract data.
- 1.3 Throughout these bidding documents, the terms ‘bid’ and ‘tender’ and their derivatives (bidder/tenderer, bid/tender, bidding/tendering, etc.) are synonymous.

2. Source of Funds

- 2.1 The expenditure on this project will be met from the budget of Govt. of India. MoRT&H.

3. Eligible Bidders

- 3.1 This *Invitation for Bids* is open to all bidders.
- 3.2 All bidders shall provide in Section 2, Forms of Bid and Qualification Information, a statement that the Bidder is neither associated, nor has been associated, directly or indirectly, with the Consultant or any other entity that has prepared the design, specifications, and other documents for the Project or being proposed as Project Manager for the Contract. A firm that has been engaged by the Employer to provide consulting services for the preparation or supervision of the works, and any of its affiliates, shall not be eligible to bid.

4. Qualification of the Bidder

- 4.1 All bidders shall provide in Section 2, Forms of Bid and Qualification Information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary. The proposed methodology should include programme of construction backed with equipment planning and deployment duly supported with broad calculations and quality assurance procedures proposed to be adopted justifying their capability of execution and completion of work as per technical specifications, within stipulated period of completion.
- 4.2 Deleted
- 4.3 If the Employer has not undertaken prequalification of potential bidders, all bidders shall include the following information and documents with their bids in Section 2:
 - (a) copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;
 - (b) total monetary value of construction work performed for each of the last five years.
 - (c) experience in works of a similar nature and size for each of the last five years, and details of works underway or contractually committed; and clients who may be contacted for further information on those contracts;
 - (d) major items of construction equipment proposed to carry out the Contract;
 - (e) qualifications and experience of key site management and technical personnel proposed for Contract.

- (f) reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past five years;
- (g) evidence of access to line (s) of credit and availability of other financial resources facilities (10% of contract value), certified by the Bankers (Not more than 3-month-old)
- (h) Undertakings that the bidder will be able invest a minimum cash upto 25% of contract value of work, during implementation of work.
- (i) authority to seek references from the Bidder's bankers;
- (j) information regarding any litigation, current or during the last five years, in which the Bidder is involved, the parties concerned, and disputed amount;
- (k) proposals for subcontracting components of the Works amounting to more than 10 per cent of the Bid Price (for each, the qualifications and experience of the identified sub-contractor in the relevant field should be annexed); and
- (l) the proposed methodology and programme of construction, backed with equipment planning and deployment, duly supported with broad calculations and quality control procedures proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications within the stipulated period of completion as per milestones.

4.4 Deleted

4.5 Qualification Criteria.

- 4.5.1 Qualification will be based on Applicant's meeting all the following minimum pass/fail criteria regarding the Applicant's general and particular experience, personnel and equipment capabilities, and financial position as demonstrated by the Applicant's responses in the forms attached to the Letter of Application (specified requirements for joint ventures are given under para 4.6 below). Subcontractors' experience and resources shall not be taken into account in determining the Applicant's compliance with the qualifying criteria.

To qualify for more than one contract, the applicant must demonstrate having experience and resources sufficient to meet the aggregate of the qualification criteria for each contract given in paragraphs 4.5.4, 4.5.5, 4.5.6 and 4.5.9 below.

4.5.2 Base year and Escalation

The base year shall be taken as 2025-26.

Following enhancement factors will be used for the costs of works executed and the financial figures to a common base value for works completed in India.

<u>Year before</u>	<u>Multiplying factor</u>
One	1.10
Two	1.21
Three	1.33
Four	1.46
Five	1.61

Applicant should indicate actual figures of costs and amount for the works executed by them without accounting for the above-mentioned factors.

In case the financial figures and value of completed works are in foreign currency, the above enhanced multiplying factors will not be applied. Instead, current market exchange rate (State Bank of India BC selling rate as on last date of submission of the bid) will be applied for the purpose of conversion of foreign currency into Indian rupees.

4.5.3 General Experience: The Applicant shall meet the following minimum criteria.

- (a) Average annual turnover (defined as billing for works in progress and completed in all classes of civil engineering construction works only) over the last five years of 40% of the Value of contract/contracts applied for.
- (b) Experience in successfully completing or substantially completing at least one contract of highway (road and/or bridge works)/airport runway of at least 40% of the value of proposed contract within last five years.

The works may have been executed by the applicant as a prime contractor or as a member of joint venture or sub-contractor. As sub-contractor, he should have acquired the experience of execution of all major items of works under the proposed contract. In case a project has been executed by a joint venture, weightage towards experience of the project would be given to each joint venture in proportion to their participation in the joint venture.

Substantially completed works means those works which are at least 90% completed as on the date of submission (i.e. gross value of work done up to the last date of submission is 90% or more of the original contract price) and continuing satisfactorily. For these, a certificate from the employer shall be submitted along with the application incorporating clearly the name of the work, contract value, billing amount, date of commencement of works, satisfactory performance of the contractor and any other relevant information.

4.5.4 Personnel Capabilities

The Applicant must have suitably qualified personnel to fill the following positions. The Applicant will supply information on a prime candidate and an alternate for each position, both of whom should meet the experience requirements specified below.

Position	Total experience (Years)	In similar Works (Years)	As manager of similar works (Years)
Project Manager			
Other positions			

(Suggested list is given in Annexure I)

4.5.5 Equipment Capabilities

The Applicant should own or should have assured ownership to the following key items of equipment, in full working order, and must demonstrate that, based on known commitments; they will be available for use in the proposed contract.

Sl. No.	Equipment type and characteristics	Minimum number required
1.		
2.		
3.		

(Suggested list is given in Annexure II)

4.5.6 Financial position.

The Applicant should demonstrate that he has access to, or has available, liquid assets (aggregate of working capital, cash in hand and uncommitted bank guarantees) and/or credit facilities of not less than 10% of the value of the contract/contracts applied for (construction cash-flow may be taken as 10% of the estimated value of contract/contracts).

4.5.7 The audited balance sheets for the last five years should be submitted, which must demonstrate the soundness of the Applicant's financial position, showing long-term profitability including an estimated financial projection for the next two years. If necessary the Employer will make inquiries with the Applicant's bankers.

4.5.8 Litigation History

The Applicant should provide accurate information on any litigation or arbitration resulting from contracts completed or under execution by him over the last five years. A consistent history of awards against the Applicant or any partner of a joint venture may result in failure of the applicant.

4.5.9 Bid Capacity

Applicants who meet the minimum qualification criteria will be qualified only if their available bid capacity at the expected time of bidding is more than the total estimated cost of the works. The available bid capacity will be calculated as under.

Assessed Available Bid Capacity = $(A \times N^2 - B)$, where

A = Maximum value of works executed in any one year during the last five years (updated to the current price level) rate of inflation may be taken as 10% per year which will take into account the completed as well as works in progress.

B = Value of works at current price level of the existing commitments and ongoing works to be completed during the next **24 (twenty four)** months (period of completion of works for which bids are invited); and

N = Number of years prescribed for completion of the works for which the bids are invited.

Note: In case of a Joint Venture the available bid capacity will be applied for each partner to the extent of his proposed participation in the execution of the works.

4.5.10 Disqualification

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

- Made misleading or false representation in the form, statements and attachments submitted; and/or
- Records of poor performances such as abandoning the work, rescinding of contract for which the reasons are attributable to the non-performance of the contractor; consistent history of litigation awarded against the applicant or financial failure due to bankruptcy. The rescinding contract of a joint venture on account of reasons other than non-performance, such as Most Experienced partner of joint venture pulling out, court directions leading to breaking up of a joint venture before the start of work, which are not attributable to the poor performance of the contractor will, however, not affect the Prequalification of the individual partners.

~~4.6 Joint Ventures~~

~~4.6.1 Joint Venture must comply with the following requirements:~~

~~(a) Following are the minimum qualification requirements.~~

- ~~(i) The lead partner shall meet not less than 50% of all the qualifying criteria given in para 4.5.3 and 4.5.6 above. The joint venture must collectively satisfy the criteria of para 4.5.3 & 4.5.6 above. The experience of the other joint venture partner shall be considered if it is not less than 30% of the qualifying criteria given in para 4.5.3 & 4.5.6 above. However, in case one of the joint venture partners is proposed to be included primarily to provide financial strength to the joint venture, such joint venture partner shall have to commit to provide liquidity support to the project to the extent of 10% of the value of the contract.~~

- ~~(ii) The Joint venture must satisfy collectively the criteria of para 4.5.4 & 4.5.5 for which purpose the relevant figures for each of the partners shall be added together to arrive at the joint venture's total capacity. Individual members must each satisfy the requirements of paras 4.5.7 & 4.5.8 above.~~
- ~~(b) The formation of a joint venture after prequalification, and any change in a pre-qualified joint venture, will be subject to the written approval of the Employer prior to the deadline for submission of bids. Such approval shall be denied if (i) partners withdraw from a joint venture and the remaining partners do not meet the qualifying requirements; (ii) the new partners to a joint venture are not qualified, individually or as another joint venture; or (iii) in the opinion of the Employer, a substantial reduction in competition may result.~~
- ~~(c) Bid shall be signed so as to legally bind all partners, jointly and severally, and shall be submitted with a copy of the joint venture agreement providing the "joint and several" liability with respect to the contract.~~

~~4.6.2 The Qualification of a joint venture does not necessarily qualify any of its partners individually or as a partner in any other joint venture. In case of dissolution of a joint venture, each one of the constituent firms may pre qualified if they meet all the qualification requirements, subject to the written approval of the Employer.~~

5. One Bid for per Bidder

- 5.1 Each bidder shall submit only one bid for the project. A bidder who submits or participates in more than one Bid (other than as a subcontractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the Bidder's participation to be disqualified.

6. Cost of Bidding

- 6.1 The bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will in no case be responsible and liable for those costs.

7. Site visit

- 7.1 The Bidder, at the Bidder's own responsibility and risk is encouraged to visit and examine the Site of Works and its surroundings and obtain 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.

B. BIDDING DOCUMENTS

8. Content of Bidding Documents

- 8.1 The set of bidding documents comprises the documents listed in the table below and addenda issued in accordance with Clause 10:

Section	Particulars	Volume No.
1	Invitation for Bids	I
2	Instructions to Bidders	
3	Qualification Information, and other forms	
4	Conditions of Contract	
5	Contract Data	
6	Technical Specifications	II
7	Form of bid	III
8	Bill of Quantities	
9	Securities and other forms	
10	Drawings	IV
11	Documents to be furnished by bidder	V

- 8.2 One copy of each of the volumes I, II, III and IV will be issued to the bidder. Documents to be furnished by the bidder in compliance to section 2 will be prepared by him and furnished as Volume-V in two parts (refer clause 12).
- 8.3 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms, and technical specifications, bill of quantities, forms, Annexes and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 26 hereof, bids which are not substantially responsive to the requirements of the Bid Documents shall be rejected.

9. Clarification of Bidding Documents

- 9.1 A prospective bidder requiring any clarification of the bidding documents may notify the Employer in writing or by cable (hereinafter "cable" includes telex and facsimile) at the Employer's address indicated in the invitation to bid. The Employer will respond to any request for clarification which he received earlier than 15 days prior to the deadline for submission of bids. Copies of the Employer's response will be forwarded to all purchasers of the bidding documents, including a description of the enquiry but without identifying its source.

9.2 Pre-bid meeting

- 9.2.1 The bidder or his official representative is invited to attend a pre-bid meeting which will take place at the address, venue, time and date as indicated in appendix.
- 9.2.2 The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 9.2.3 The bidder is requested to submit any questions in writing or by cable to reach the Employer not later than one week before the meeting.
- 9.2.4 Minutes of the meeting, including the text of the questions raised (without identifying the source of enquiry) and the responses given will be transmitted without delay to all purchasers of the bidding documents. Any modification of the bidding documents listed in Sub-Clause 8.1 which 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 Clause 10 and not through the minutes of the pre-bid meeting.

9.2.5 Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

10. Amendment of Bidding Documents

- 10.1 Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda.
- 10.2 Any addendum thus issued shall be part of the bidding documents and shall be communicated in writing or by cable to all the purchasers of the bidding documents. Prospective bidders shall acknowledge receipt of each addendum by cable to the Employer. The Employer will assume no responsibility for postal delays.
- 10.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may, at his discretion extend as necessary the deadline for submission of bids, in accordance with Sub-Clause 20.2 below.

C. PREPARATION OF BIDS

11. Language of the Bid

- 10.4 All documents relating to the bid shall be in the English language

12. Documents comprising the Bid

- 12.1 The bid to be submitted by the bidder as Volume V of the bid document (refer Clause 8.1) shall be in two separate parts:

Part I shall be named “Technical Bid” and shall comprise

- (i) Bid Security in the form specified in Section 8.
- (ii) Qualification Information and supporting documents as specified in Section 2.
- (iii) Certificates, undertakings, affidavits as specified in Section 2
- (iv) Any other information pursuant to Clause 4.2 of these instructions
- (v) Undertaking that the bid shall remain valid for the period specified in Clause 15.1
- (v) Acceptance / non-acceptance of Dispute Review Expert proposed in Clause 36.1

Part II shall be named “Financial Bid” and shall comprise

- (i) Form of Bid as specified in Section 6
- (ii) Priced Bill of Quantities for items specified in Section 7

Each part will be separately sealed and marked in accordance with the Sealing and Marking Instructions in Clause 19.

- 12.2. The bidder shall prepare two copies of the bid, marking them ‘Original’ and ‘Copy’ respectively.

12.3. Following documents, which are not submitted with the bid, will be deemed to be part of the bid.

Section	Particulars	Volume No.
	Invitation for Bids	
1	Instructions to Bidders	
3	Conditions of Contract	I
4	Contract Data	
5	Technical Specifications	II
9	Drawings	IV

13. Bid Prices

- 13.1 The contract shall be for the whole works as described in Sub-Clause 1.1, based on the priced Bill of Quantities submitted by the Bidder.
- 13.2 The bidder shall fill in rates and prices and line item total (both in figures and words) for all items of the Works described in the Bill of Quantities along with total bid price (both in figures and words). Items for which no rate or price is entered by the bidder will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.
- 13.3 All duties, taxes, and other levies payable by the contractor under the contract, or for any other cause shall be included in the rates, prices and total Bid Price submitted by the Bidder.
- 13.4 The rates and prices quoted by the bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment on any account.

14. Currencies of Bid and Payment

- 14.1 The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees. All the payments shall be made in Indian Rupees.

15. Bid Validity

- 15.1 Bids shall remain valid for a period not less than **120 days** after the deadline date for bid submission specified in Clause 20. A bid valid for a shorter period shall be rejected by the Employer as non-responsive. In case of discrepancy in bid validity period between that given in the undertaking pursuant to Clause 12.1 (v) and the Form of Bid submitted by the bidder, the latter shall be deemed to stand corrected in accordance with the former and the bidder has to provide for any additional security that is required.
- 15.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid except as provided in 15.3 hereinafter, but will be required to extend the validity of his bid security for a period of the extension, and in compliance with Clause 16 in all respects.
- 15.3 Deleted
- 15.4 Bid evaluation will be based on the bid prices without taking into consideration the above correction.

16. Bid Security

- 16.1 The Bidder shall furnish, as part of his Bid, a Bid security in the amount as shown in column 4 of the table of IFB for this particular work. This bid security shall be in favour of Employer as named in Appendix and may be in one of the following forms:
- Receipt in challan of cash deposit in the Govt. Treasury in India.
 - Deposit-at-call Receipt from any scheduled India Bank or a foreign Bank located in India and approved by the Reserve Bank of India.
 - Indian Post Office / National Savings Certificate duly endorsed by the competent postal authority in India.
 - Bank Guarantee from any scheduled Indian Bank, in the format given in Volume III.
 - Fixed Deposit Receipt, a certified cheque or an irrevocable letter of credit, issued by any Scheduled Indian Bank or a foreign Bank approved by the Reserve Bank of India.
- 16.2 Bank guarantees (and other instruments having fixed validity) issued as surety for the bid shall be valid for 45 days beyond the validity of the bid.
- 16.3 Any bid not accompanied by an acceptable Bid Security and not secured as indicated in Sub-Clauses 16.4 and 16.2 above shall be rejected by the Employer as non-responsive.
- 16.4 The Bid Security of unsuccessful bidders will be returned within 28 days of the end of the bid validity period specified in Sub-Clause 15.1.
- 16.5 The Bid Security of the successful bidder will be discharged when the bidder has signed the Agreement and furnished the required Performance Security.
- 16.6 The Bid Security may be forfeited
- if the Bidder withdraws the Bid after Bid opening during the period of Bid validity;
 - if the Bidder does not accept the correction of the Bid Price, pursuant to Clause 27; or
 - in the case of a successful Bidder, if the Bidder fails within the specified time limit to
 - sign the Agreement; or
 - furnish the required Performance Security.

**** The scan of the bid security should be uploaded along with other tender documents and the original must be submitted to the office of the CE PWD(R&B) before 11.00 a.m failing which the bid even if uploaded will be rejected.**

17 Alternative Proposals by Bidders

- 17.4 Bidders shall submit offers that fully comply with the requirements of the bidding documents, including the conditions of contract (including mobilization advance or time for completion), basic technical design as indicated in the drawing and specifications. Conditional offer or alternative offers will not be considered further in process of tender evaluation.

18 Format and Signing of Bid

- 18.4 The Bidder shall prepare one original and one copy of the documents comprising the bid as described in Clause 12 of these *Instructions to Bidders*, bound with the volume containing the "Technical Bid" and Financial Bid" in separate parts, and clearly marked "**ORIGINAL**" and "**COPY**" as appropriate. In the event of discrepancy between them, the original shall prevail.
- 18.5 The original and copy of the Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder, pursuant to Sub-Clauses 4.3. All pages

of the bid where entries or amendments have been made shall be initialled by the person or persons signing the bid.

- 18.6 The Bid shall contain no alterations or additions, except those to comply with instructions issued by the Employer, or as necessary to correct errors made by the bidder, in which case such corrections shall be initialled by the person or persons signing the bid.

D. SUBMISSION OF BIDS

19. Sealing and Marking of Bids

- 19.1 The Bidder shall seal the original and copy of the Bid in separate envelopes, duly marking the envelopes as "**ORIGINAL**" and "**COPY**". These two envelopes (called as inner envelopes) shall then be put inside one outer envelope. Each set of the inner envelope marked "ORIGINAL" and "CO shall contain within it two separate sealed envelopes marked "Technical Bid" and "Financial Bid" with additional markings as follows:

- Original or Copy, as the case may be
- Technical Bid: To be opened on **11.08.2026** (date of Technical Bid opening) in the presence of Evaluation Committee
- Financial Bid: Not to be opened except with the approval of Evaluation Committee.

The contents of Technical and Financial Bids will be as specified in clause 12.1.

- 19.2 The inner, outer and separate envelopes containing Technical and Financial Bids shall

- (a) be addressed to the Employer at the address given in Appendix
- (b) bear the following identification as indicated in Appendix.

- 19.3 In addition to the identification required in Sub-Clause 19.1 and 19.2, each of the envelopes shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared late, pursuant to Clause 21, or the evaluation committee declares the bid as non responsive pursuant to Clause 23.

- 19.4 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacement or premature opening of the bid.

20. Deadline for Submission of the Bids

- 21.1 Complete Bids (including Technical and Financial) must be received by the Employer at the address specified above no later than the date indicated in appendix. In the event of the specified date for the submission of bids declared a holiday for the Employer, the Bids will be received up to the appointed time on the next working day.
- 21.2 The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

21. Late Bids

- 21.1 Any Bid received by the Employer after the deadline prescribed in Clause 20 will be returned unopened to the bidder.

22 Modification and Withdrawal of Bids

- 22.1 Bidders may modify or withdraw their bids by giving notice in writing before the deadline prescribed in Clause 20, or pursuant to Clause 23.
- 22.2 Each Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with Clause 18 & 19, with the outer and inner envelopes additionally marked "**MODIFICATION**" or "**WITHDRAWAL**", as appropriate.
- 22.3 No bid may be modified after the deadline for submission of Bids, except in pursuant of Clause 23.
- 22.4 Withdrawal or modification of a Bid between the deadline for submission of bids and the expiration of the original period of bid validity specified in Clause 15.1 above or as extended pursuant to Clause 15.2 may result in the forfeiture of the Bid security pursuant to Clause 16.

E. BID OPENING AND EVALUATION

23 Bid Opening

- 23.1 The Employer will open all the Bids received (except those received late), including modifications made pursuant to Clause 22, in the presence of the Bidders or their representatives who choose to attend at time, date and place specified in Appendix in the manner specified in Clause 20 and 23.3. 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.
- 23.2 Envelopes marked "**WITHDRAWAL**" shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause 22 shall not be opened.
- 23.3 The envelope containing "Technical Bid" shall be opened. The amount, form and validity of the bid security furnished with each bid will be announced. If the bid security furnished does not conform to the amount and validity period as specified in the Invitation for Bid (ref. Column 4 and paragraph 3), and has not been furnished in the form specified in Clause 16, the remaining technical bid and the sealed financial bid will be returned to the bidder.
- 23.4
 - (i) Subject to confirmation of the bid security by the issuing Bank, the bids accompanied with valid bid security will be taken up for evaluation with respect to the Qualification Information and other information furnished in Part I of the bid pursuant to Clause 12.1.
 - (ii) After receipt of confirmation of the bid security, the bidder will be asked in writing (usually within 10 days of opening of the Technical Bid) to clarify or modify his technical bid, if necessary, with respect to any rectifiable defects.
 - (iii) The bidders will respond in not more than 7 days of issue of the clarification letter, which will also indicate the date, time and venue of opening of the Financial Bid (usually on the 21st day of opening of the Technical Bid)
 - (iv) Immediately (usually within 3 or 4 days), on receipt of these clarifications the Evaluation Committee will finalize the list of responsive bidders whose financial bids are eligible for considerations.
- 23.5 If, as a consequence of the modifications carried out by the bidder in response to sub-clause 23.4, the bidders desire to modify their financial bid, they will submit the modification in separate sealed envelope so as to reach the Employer's address (refer sub-clause 19.2) before the opening of the Financial bid as intimated in the clarification letter (refer sub-clause 23.4). The envelope shall have clear marking "MODIFICATION TO FINANCIAL BID-Not to be opened except with the approval of the Evaluation Committee"

- 23.6 At the time of opening of “Financial Bid”, the names of the bidders were found responsive in accordance with Clause 23.4(iv) will be announced. The bids of only those bidders will be opened. The remaining bids will be returned to the bidders unopened. The responsive Bidders’ names, the Bid prices, the total amount of each bid, any discounts, Bid Modifications and withdrawals, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening. Any Bid price or discount, which is not read out and recorded, will not be taken into account in Bid Evaluation.
- 23.7 In case bids are invited in more than one package, the order for opening of the “Financial Bid” shall be that in which they appear in the “Invitation for Bid”.
- 23.8 The Employer shall prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Sub-Clause 23.6.

24 Process to be Confidential

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

25 Clarification of Financial Bids

- 25.1 To assist in the examination, evaluation, and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with Clause 27.
- 25.2 Subject to sub-clause 25.1, no Bidder shall contact the Employer on any matter relating to his bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Employer, it should do so in writing.
- 25.3 Any effort by the Bidder to influence the Employer in the Employer's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidders’ bid.

26 Examination of Bids and Determination of Responsiveness

- 26.1 During the detailed evaluation of “Technical Bids”, the Employer will determine whether each Bid (a) meets the eligibility criteria defined in Clause 3 and 4; (b) has been properly signed; (c) is accompanied by the required securities and; (d) is substantially responsive to the requirements of the Bidding documents. During the detailed evaluation of the “Financial Bid”, the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications, and drawings.
- 26.2 A substantially responsive “Financial Bid” is one which conforms to all the terms, conditions, and specifications of the Bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works; (b) which limits in any substantial way, inconsistent with the Bidding documents, the Employer's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.
- 26.3 If a “Financial Bid” is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

27 Correction of Errors

27.1 “Financial Bids” determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:

- (a) where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and
- (b) where there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.

27.2 The amount stated in the “Financial Bid” will be corrected by the Employer in accordance with the above procedure and the bid amount adjusted with the concurrence of the Bidder in the following manner:

- (a) If the Bid price increase as a result of these corrections, the amount as stated in the bid will be the ‘bid price’ and the increase will be treated as rebate;
- (b) If the bid price decreases as a result of the corrections, the decreased amount will be treated as the ‘bid price’

Such adjusted bid price shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount the Bid will be rejected, and the Bid security may be forfeited in accordance with Sub-Clause 16.6 (b).

28 Deleted

29 Evaluation and Comparison of Financial Bids

29.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Sub-Clause 26.2.

29.2 In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:

- (a) making any correction for errors pursuant to Clause 27; or
- (b) making an appropriate adjustment for any other acceptable variations, deviations; and
- (c) making appropriate adjustments to reflect discounts or other price modifications offered in accordance with sub-clause 23.6.

29.3 The Employer reserves the right to accept or reject any variation, deviation. Variations and deviations and other factors which are in excess of the requirements of the Bidding documents or otherwise result in unsolicited benefits for the Employer shall not be taken into account in Bid evaluation.

29.4 The estimated effect of the price adjustment conditions under Clause 47 of the *Conditions of Contract*, during the period of implementation of the Contract, will not be taken into account in Bid evaluation.

29.5 If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 34 be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.

29.6 A bid which contains several items in the Bill of Quantities which are unrealistically priced low and which cannot be substantiated satisfactorily by the bidder may be rejected as non-responsive.

30 Deleted

F. AWARD OF CONTRACT

31 Award Criteria

- 31.1 Subject to Clause 32, the Employer will award the Contract to the Bidder whose Bid has been determined
- (i) to be substantially responsive to the Bidding documents and who has offered the lowest evaluated Bid Price; and
 - (ii) to be within the available bid capacity adjusted to account for his bid price which is evaluated the lowest in any of the packages opened earlier than the one under consideration.

In no case, the contract shall be awarded to any bidder whose available bid capacity is less than the evaluated bid price, even if the said bid is the lowest evaluated bid. The contract will in such cases be awarded to the next lowest bidder at his evaluated bid price.

32 Employer's Right to accept any Bid and to reject any or all Bids

- 32.1 Notwithstanding Clause 31, the Employer reserves the right to accept or reject any Bid, and to cancel the Bidding process and reject all Bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Employer's action.

33 Notification of Award and Signing of Agreement

- 33.1 The Bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by cable, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the *Conditions of Contract* called the "Letter of Acceptance") will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").
- 33.2 The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause 34.
- 33.3 The Agreement will incorporate all agreements between the Employer and the successful Bidder. It will be signed by the Employer and sent to the successful Bidder, within 28 days following the notification of award along with the Letter of Acceptance. Within 21 days of receipt, the successful Bidder will sign the Agreement and deliver it to the Employer.
- 33.4 Upon the furnishing by the successful Bidder of the Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful.

34 Performance Security

- 34.1 Within 21 days of receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a Performance Security in any of the forms given below for an amount equivalent to 5% of the Contract price plus additional security for unbalanced Bids in accordance with Clause 29.5 of ITB and Clause 52 of Conditions of Contract:
- a bank guarantee in the form given in Section 8; or
 - Certified cheque/Bank draft as indicated in Appendix.
- 34.2 If the performance security is provided by the successful Bidder in the form of a Bank Guarantee, it shall be issued either (a) at the Bidder's option, by a Nationalized/Scheduled Indian bank or (b) by a foreign bank located in India and acceptable to the Employer.

- 34.3 Failure of the successful Bidder to comply with the requirements of Sub-Clause 34.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Bid Security.

35 Advance Payment and Security

- 35.1 The Employer will provide an Advance Payment on the Contract Price as stipulated in the Conditions of Contract, subject to maximum amount, as stated in the Contract Data.

36 Dispute Review Expert

- 36.1 The Employer proposes that Chief Engineer, MoRT&H be appointed as Data Review Expert under the Contract, at a daily fee as indicated in Appendix plus reimbursable expenses. If the Bidder disagrees with this proposal, the Bidder should so state in the Bid. If in the Letter of Acceptance, the Employer has not agreed on the appointment of the Dispute Review Expert, the Dispute Review Expert shall be appointed by the Council of Indian Roads Congress at the request of either party.

37 Corrupt or Fraudulent Practices

- 37.1 The employer will reject a proposal for award if it determines that the Bidder recommended or award has engaged in corrupt or fraudulent practices in competing for the contract in question and will declare the firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract with National Highways Authority of India / State PWD and any other agencies, if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for the contractor, or in execution.
- 3.7.2 Furthermore, Bidders shall be aware of the provision stated in Sub-Clause 23.2 and Sub-Clause 59.2 of the Conditions of Contract.

APPENDIX to ITB**Clause Reference
with respect to
Section-I.**

1. Name of the Employer is Nagaland PWD, Roads & Bridges through its Chief Engineer.
2. The last five years
 - 2021-2022
 - 2022-2023
 - 2023-2024
 - 2024-2025
 - 2025-2026
3. This annual financial turn over amount is Rs.Crore only.
4. Value of the Work is Rs. **41282200.00** only.
5. Quantities of Work are:

As detailed in BOQ
6. Deleted
7. Deleted
8. Liquid assets and/or availability of credit facilities in **Rs. 41.28 Lakh** only.
9. Price level of the financial year **2025-26**.
10. Deleted.
11. The technical bid will be opened at O/o - Chief Engineer PWD (R&B), Nagaland, Kohima on **11.08.2026 at 13:00 hours**
12. Address of the Employer Chief Engineer PWD (R&B), Nagaland, Kohima Ph: 0370-2221011
13. Identification:

- **“Construction of Bailey Bridge over Kithu river between Thakiye village (Zunheboto) and Shishimi (Kiphire)” span 70 feet (21.34m) under Setu Bandhan Scheme of Central Road and Infrastructure Fund (CRIF) in the State of Nagaland.**

Do not open before: **11.08.2026**
14. Bid should be submitted on-line latest by **10.08.2026 at 1500 hours (Server Time)**.
15. The bid will be opened at O/o - Chief Engineer PWD (R&B), Nagaland, Kohima on **11.08.2026 at 13:00 hours**.
16. The Bank Demand Draft in favour of Chief Engineer PWD (R&B), Nagaland, Kohima payable at Kohima

17. The Name of Dispute Review Expert is
18. Escalation factors (for the cost of works executed and financial figure to a common base value for works completed).

<u>Year before</u>	<u>Multiply factor</u>
One	1.10
Two	1.21
Three	1.33
Four	1.46
Five	1.61

ANNEXURE – I

MINIMUM KEY PERSONNEL FOR THE PROJECT

Sl. No.	Personnel	Qualification	LOT size			
			Upto Rs. 5.0 crore	Rs. 5.1-20.0 crore	Rs. 20.1-50.0 crore	Rs. 50.1-100.0 Crore & above
1	Project Manager	B.E. Civil + 10 years Exp.	1 No.	1 No.	1 No.	1 No.
2	Site Engineer	B.E. Civil + 3 years Exp.	1 No.	2 Nos.	4 Nos.	6 Nos.
3	Plant Engineer	B.E. Mech. + 3 years Exp. Or Dip. Mech. + 7 years Exp.	1 No.	1 No.	1 No.	2 Nos.
4	Quantity Surveyor	B.E. Civil + 7 years Exp. Or Dip. Civil + 7 years Exp.	1 No.	1 No.	1 No.	2 Nos.
5	Soil & Material Engineer	B.E. Civil + 7 years Exp. Or Dip. Civil + 7 years Exp.	1 No.	1 No.	1 No.	1 No.
		TOTAL	5 Nos.	6 Nos.	8 Nos.	12 Nos.

ANNEXURE-II

LIST OF PLANT & EQUIPMENT TO BE DEPLOYED ON CONTRACT WORK

Sl. No.	Type of Equipment	Maximum Age as on	Upto Rs. 5.0 crore	Rs. 5.1-20 crore	Rs. 20.1-50 crore	Rs. 50.1-100 crore & above
1.	Tipper Trucks	5-7	6	10	15	20
2.	Motor Grader	5	2	2	3	4
3.	Dozer	5	1	1	1	2
4.	Front end loader	5	2	2	2	4
5.	Smooth wheeled roller	5	2	2	3	4
6.	Vibratory Roller	5	2	2	2	3
7.	Hot Mix Plant with Electronic Controls (Minimum 80-100 TPH capacity)	5	1	1	1	2
8.	Paver Finisher with Electronic Sensor	5	1	1	1	2
9.	Water Tanker	5	3	3	4	5
10.	Bitumen Sprayer	5-7	1	1	1	2
11.	Tandem Roller	5	1	1	1	1
12.	Concrete mixer with Integral weigh Batching facility	5	2	2	1	2
13.	Concrete Batching and mixing plant (minimum capacity 15m³/hour)	5	-	-	1	1
14.	Concrete paver capable of paving 7.5m width in one single pass including all accessories. Such as automatic dowel bar inserter, integral vibratory system and electronic sensors ancillary equipment for applying curing compound, joint cutting etc.	5	-	-	-	1
15.	Concrete Batching and mixing plant with automatic control (minimum 100 cum/hour)	5	-	-	-	1
	Total		19	23	29	41

SECTION - 2

QUALIFICATION INFORMATION

Qualification Information

The information to be filled in by the Bidder in the following pages will be used for purposes of post qualification as provided for in Clause 4 of the Instructions to Bidders. This information will not be incorporated in the Contract.

1. For Individual Bidders

1.1 Constitution or legal status of Bidder

[Attach copy]

Place of registration: _____

Principal place of business: _____

Power of attorney of signatory of Bid

[Attach]

1.2 Total value of Civil Engineering construction

work executed and payments received in the last five years**

(in Rs. crore)

2021-2022

2022-2023

2023-2024

2024-2025

2025-2026

1.3.1 Work performed as prime contractor, work performed in the past as a nominated sub-contractor will also be considered provided the sub-contract involved execution of all main items of work described in the bid document, provided further that all other qualification criteria are satisfied (in the same name) on works of a similar nature over the last five years.**

Project Name	Name of the Employer*	Description of work	Contract No.	Value of contract (Rs. crore)	Date of issue work order	Stipulated of period of completion	Actual of completion*	date	Remarks explaining reasons for delay and work completed
--------------	--------------------------	------------------------	-----------------	--	--------------------------------	--	-----------------------------	------	--

*Attach certificate(s) from the Engineer(s)-in-Charge

** immediately preceding the financial year in which bids are received.

☐ Attach certificate from Chartered Accountant.

1.3.2. Quantities of work executed as prime contractor, work performed in the past as a nominated sub-contractor, will also be considered provided the sub-contract involved execution of all main items of work described in the bid document, provided further that all other qualification criteria are satisfied (in the same name and style) in the last five years:**

Year	Name of the Work	Name of the Employer	Quantity of work performed (cum) @ Remarks			Remarks * (indicate contract Ref)
			Bituminous works	CRSM work	Hume Pipes	
2021-2022						
2022-2023						
2023-2024						
2024-2025						
2025-2026						

1.4 Information on Bid Capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this bid.

(A) Existing commitments and on-going works:

Description of works	Place & State	Contract No.	Name & Address of Employer	Value of Contract (Rs Cr)	Stipulated Period of Completion	Value of works* remaining to be completed (Rs Cr)	Anticipated date of completion
1	2	3	4	5	6	7	8

**Attach certificate(s) from the Engineer(s)-in-Charge*

@The item of work for which data is requested should tally with that specified in ITB clause 4.5AI

*** Immediately preceding the financial year in which bids are received.*

Delete, if prequalification has been carried out

(B) Works for which bids already submitted:

Description of works	Place & State	Name & Address of Employer	Estimated value of works (Rs. Cr.)	Stipulated period of completion	Date when decision is expected	Remarks, if any
1	2	3	4	5	6	7

1.5. Availability of key items of Contractor's Equipment essential for carrying out the Works [Ref. Clause 4.5(B)(a)]. The Bidder should list all the information requested below. Refer also to Sub Clause 4.3 (d) of Instructions to Bidders.

Item of Equipment	Requirement		Availability proposals			Remarks (from whom to be purchased)
	No.	Capacity	Owned/Leased to be procured	Nos./Capacity	Age / Condition	

1.6. Qualifications and experience of key personnel required for administration and execution of the Contract [Ref. Clause 4.5(B)(b)]. Attach biographical data. Refer also to Sub Clause 4.3 (e) of instructions to Bidders and Sub Clause 9.1 of the Conditions of Contract.

Position	Name	Qualification	Year of Experience (General)	Years of experience in the proposed position

1.7. Proposed sub-contracts and firms involved. [Refer ITB Clause 4.3 (k)]

Sanctions of the works	Value of Sub-contract	Sub-contractor (Name & Address)	Experience in similar work

*Attach copies of certificates on possession of valid license for executing water supply / sanitary work / building electrification works
[Reference Clause 4.5(d) & Clause 4.5(e)]*

1.8 Financial reports for the last five years: balance sheets, profit and loss statements, auditors' reports (in case of companies/corporation), etc. List them below and attach copies.

1.9 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List them below and attach copies of support documents.

1.10. Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.

1.11 Information on litigation history in which the Bidder is involved.

Other Part (ies)	Employer	Cause of Dispute	Amount involved	Remarks showing Present status

1.12 Statement of compliance under the requirements of Sub Clause 3.2 of the instructions to Bidders. Name of Consultant engaged for project preparation is

1.13 Proposed work method and schedule. The Bidder should attach descriptions, drawings and charts as necessary to comply with the requirements of the Bidding documents. [Refer ITB Clause 4.1 and 4.3 (I)].

1.14 Programme

(to be attached separately by the bidder)

1.15 Quality Assurance Programme

(to be attached separately by the bidder)

2. Deleted

3. Additional Requirements

3.1 Bidders should provide any additional information required to fulfill the requirements of Clause 4 of the Instructions to the Bidders, if applicable.

(i) Affidavit

(ii) Undertaking

SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT FACILITIES

(CLAUSE 4.2 (i) OF ITB)

BANK CERTIFICATE

This is to certify that M/s. is a reputed company with a good financial standing.

If the contract for the work, namelyis awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. to meet their working capital requirements for executing the above contract during the contract period.

(Signature)

Name of Bank

Senior Bank Manager

Address of the Bank

AFFIDAVIT

1. I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s_____ have abandoned any work on National Highways in India nor any contract awarded to us for such works have been rescinded, during last five years prior to the date of this bid.
3. The undersigned hereby authorize(s) and request(s) any bank, firm or corporation to furnish pertinent information deemed necessary and requested by the Department to verify this statement or regarding my (our) competence and general reputation.
4. The undersigned understand and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Department / Project implementing agency.

(Signed by an Authorized Officer of the Firm)

Title of Officer

Name of Firm

DATE

UNDERTAKING

I, the undersigned do hereby undertake that our firm M/s _____
would invest a minimum cash up to 25% of the value of the work during implementation of the Contract.

(Signed by an Authorized Officer of the Firm)

Title of Officer

Name of Firm

DATE

SECTION – 3

CONDITIONS OF CONTRACT

Conditions of Contract

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CONDITIONS OF CONTRACT

A. GENERAL

1. Definitions

1.1 Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

The Adjudicator (Synonymous with Dispute Review Expert) is the person appointed jointly by the Employer and the Contractor to resolve disputes in the first instance, as provided for in Clauses 24 and 25. The name of the Adjudicator is defined in the Contract Data.

Bill of Quantities means the priced and completed Bill of Quantities forming part of the Bid.

Compensation Events are those defined in Clause 44 hereunder.

The **Completion Date** is the date of completion of the Works as certified by the Engineer in accordance with Sub Clause 55.1.

The **Contract** is the contract between the Employer and the Contractor to execute, complete and maintain the Works till the completion of defect liability period. It consists of the documents listed in Clause 2.3 below.

The **Contract Data** defines the documents and other information which comprise the Contract.

The **Contractor** is a person or corporate body whose Bid to carry out the Works has been accepted by the Employer.

The **Contractor's Bid** is the completed Bidding document submitted by the Contractor to the Employer and includes Technical and Financial bids.

The **Contract Price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

Days are calendar days; **months** are calendar months.

A **Defect** is any part of the Works not completed in accordance with the Contract.

The **Defects Liability Period** is the period named in the Contract Data and calculated from the Completion Date.

The **Employer** is the party who will employ the Contractor to carry out the Works.

The **Engineer** is the person named in the Contract Data (or any other competent person appointed and notified to the contractor to act in replacement of the Engineer) who is responsible for supervising the Contractor, administering the Contract, certifying payments due to the Contractor, issuing and valuing Variations to the Contract, awarding extensions of time, and valuing the Compensation Events.

Equipment is the Contractor's machineries and vehicles brought temporarily to the Site to construct the Works.

The **Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.

The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.

Materials are all supplies, including consumables, used by the contractor for incorporation in the works.

Plant is any integral part of the Works which is to have a mechanical, electrical, electronic or chemical or biological function.

The **Site** is the area defined as such in the Contract Data.

Site Investigation Reports are those which were included in the Bidding documents and are factual interpretative reports about the surface and sub-surface conditions at the site.

Specification means the Specification of the Works included in the Contract and any modification or addition made or approved by the Engineer.

The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence execution of the works. It does not necessarily coincide with any of the Site Possession Dates.

A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract which includes work on the Site.

Temporary Works are works designed, constructed, installed, and removed by the Contractor which are needed for construction or installation of the Works.

A **Variation** is an instruction given by the Engineer which varies the Works.

The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the Contract Data.

2. Interpretation

2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about the Conditions of Contract.

2.2 If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion date for the whole of the Works).

2.3 The documents forming the Contract shall be interpreted in the following order of priority:

- (1) Agreement
- (2) Letter of Acceptance, notice to proceed with the works
- (3) Contractor's Bid
- (4) Contract Data
- (5) Conditions of Contract including Special Conditions of Contract
- (6) Specifications
- (7) Drawings
- (8) Bill of quantities and
- (9) any other document listed in the Contract Data as forming part of the Contract.

3. Language and Law

3.1 The language of the Contract and the law governing the Contract are stated in the Contract Data.

4. Engineer's Decision'

4.1 Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer.

5. Delegation

5.1 The Engineer may delegate any of his duties and responsibilities to other people except to the Adjudicator after notifying the Contractor and may cancel any delegation after notifying the Contractor.

6. Communications

6.1 Communications between parties which are referred to in the conditions are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

7. Sub-contracting

7.1 The Contractor may sub-contract any portion of work, upto a limit specified in Contract in contract data with the approval of the Engineer but may not assign the Contract without the approval of the Employer in writing. Sub-contracting does not alter the Contractor's obligations.

8. Other Contractors

8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors. The Contractor shall as referred to in the Contract Data, also provide facilities and services for them as described in the Schedule. The employer may modify the schedule of other contractors and shall notify the contractor of any such modification.

9. Personnel

9.1 The Contractor shall employ the key personnel named in the Schedule of Key Personnel as referred to in the Contract Data to carry out the functions stated in the Schedule or other personnel approved by the Engineer. The Engineer will approve any proposed replacement of key personnel only if their qualifications, abilities, and relevant experience are substantially equal to or better than those of the personnel listed in the Schedule.

9.2 If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or his work force stating the reasons the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

10. Employer's and Contractor's Risks

10'1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. Employer's Risks

11'1 The Employer is responsible for the excepted risks which are (a) in so far as they directly affect the execution of the Works in India, the risks of war, hostilities, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot commotion or disorder (unless restricted to the Contractor's employees), and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive, or (b) a cause due solely to the design of the Works, other than the Contractor's design.

12. Contractor's Risks

12.1 All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks are the responsibility of the Contractor.

13. Insurance

13.1 The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

- (a) Loss of or damage to the Works, Plant and Materials;
- (b) Loss of or damage to Equipment;
- (c) Loss of or damage of property (except the Works, Plant, Materials and Equipment) in connection with the Contract; and
- (d) Personal injury or death.

13.2 Policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

13.3 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has

paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.

13.4 Alterations to the terms of insurance shall not be made without the approval of the Engineer.

13.5 Both parties shall comply with any conditions of the insurance policies.

14. Site Investigation Reports

14.1 The Contractor, in preparing the Bid, shall rely on any site Investigation Reports referred to in the Contract Data, supplemented by any information available to the Bidder.

15. Queries about the Contract Data

15.1 The Engineer will clarify queries on the Contract Data.

16. Contractor to Construct the Works

16.1 The Contractor shall construct and install the Works in accordance with the Specification and Drawings.

17. The Works to be completed by the Intended Completion Date

17.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the program submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

18. Approval by the Engineer

18.1 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer, who is to approve them if they comply with the Specifications and Drawings.

18.2 The Contractor shall be responsible for design of Temporary Works.

18.3 The Engineer's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

18.4 The Contractor shall obtain approval of third parties to the design of the Temporary Works where required.

18.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer before their use.

19. Safety

19.1 The Contractor shall be responsible for the safety of all activities on the Site.

20. Discoveries

20.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Employer. The Contractor is to notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

21. Possession of the Site

21.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the Contract Data the Employer is deemed to have delayed the start of the relevant activities and this will be Compensation Event.

22. Access to the Site

22.1 The Contractor shall allow the Engineer and any person authorized by the Engineer access to the Site, to any place where work in connection with the Contract is being carried out or is intended to be carried out and to any place where materials or plant are being manufactured / fabricated / assembled for the works.

23. Instructions

- 23.1 The Contractor shall carry out all instructions of the Engineer pertaining to works which comply with the applicable laws where the Site is located.
- 23.2 The Contractor shall permit the bank to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the Employer, if so required by the Employer.

24. Disputes

- 24.1 If the Contractor believes that a decision taken by the Engineer was either outside the authority given to the Engineer by the Contract or that the decision was wrongly taken, the decision shall be referred to the Dispute Review Expert within 14 days of the notification of the Engineer's decision.

25. Procedure for Disputes

- 25.1 The Dispute Review Expert (Board) shall give a decision in writing within 28 days of receipt of a notification of a dispute.
- 25.2 The Dispute Review Expert shall be paid daily at the rate specified in the Contract Data together with reimbursable expenses of the types specified in the Contract Data and the cost shall be divided equally between the Employer and the Contractor, whatever decision is reached by the Dispute Review Expert. Either party may refer a decision of the Adjudicator to an Arbitrator within 28 days of the Dispute Review Expert's written decision. If neither party refers the dispute to arbitration within the above 28 days, the Dispute Review Expert's decision will be final and binding.
- 25.3 The arbitration shall be conducted in accordance with the arbitration procedure stated in the Special Conditions of Contract.

26. Replacement of Dispute Review Expert

- 26.1 Should the Dispute Review Expert resign or die, or should the Employer and the Contractor agree that the Dispute Review Expert is not fulfilling his functions in accordance with the provisions of the Contract, a new Dispute Review Expert will be jointly appointed by the Employer and the Contractor. In case of disagreement between the Employer and the Contractor, within 30 days, the Dispute Review Expert shall be designated by the Appointing Authority designated in the Contract Data at the request of either party, within 14 days of receipt of such request.

B. TIME CONTROL

27. Program

- 27.1 Within the time stated in the Contract Data the Contractor shall submit to the Engineer for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works along with monthly cash flow forecast.
- 27.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any changes to the sequence of the activities.
- 27.3 The Contractor shall submit to the Engineer, for approval, an updated Program at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Program within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted.
- 27.4 The Engineer's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Engineer again at any time. A revised Program is to show the effect of Variations and Compensation Events.

28. Extension of the Intended Completion Date

- 28.1 The Engineer shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work and which would cause the Contractor to incur additional cost.
- 28.2 The Engineer shall decide whether and by how much to extend the Intended Completion Date within 35 days of the Contractor asking the Engineer for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.
- 28.3 The Engineer shall within 14 days of receiving full justification from the contractor for extension of Intended Completion Date refer to the Employer his decision. The Employer shall in not more than 21 days communicate to the Engineer the acceptance or otherwise of the Engineer's decision. If the Employer fails to give his acceptance, the Engineer shall not grant the extension and the contractor may refer the matter to the Dispute Review Expert under Clause 24.1.

29. Deleted

30. Delays Ordered by the Engineer

- 30.1 The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works.

31. Management Meetings

- 31.1 Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.
- 31.2 The Engineer shall record the business of management meetings and is to provide copies of his record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken is to be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

32. Early Warning

- 32.1 The Contractor is to warn the Engineer at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price or delay the execution of works. The Engineer may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate is to be provided by the Contractor as soon as reasonably possible.
- 32.2 The Contractor shall cooperate with the Engineer in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Engineer.

C. QUALITY CONTROL

33. Identifying Defects

- 33.1 The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect

34. Tests

- 34.1 If the Engineer instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect the test shall be a Compensation Event.

35. Correction of Defects

35.1 The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.

35.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Engineer's notice.

36. Uncorrected Defects

36.1 If the Contractor has not corrected a Defect within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.

D. COST CONTROL

37. Bill of Quantities

37.1 The Bill of Quantities shall contain items for the construction, installation, testing, and commissioning work to be done by the Contractor.

37.2 The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the Bill of Quantities for each item.

38. Changes in the Quantities

38.1 If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent provided the change exceeds 1% of initial Contract Price, the Engineer shall adjust the rate to allow for the change, duly considering,

- (a) Justification for rate adjustment as furnished by the contractor,
- (b) Economies resulting from increase in quantities by way of reduced plant, equipment, and overhead costs,
- I Entitlement of the contractor to compensation events where such events are caused by any additional work

38.2 The Engineer shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 15 percent, except with the Prior approval of the Employer.

38.3 If requested by the Engineer, the Contractor shall provide the Engineer with a detailed cost breakdown of any rate in the Bill of Quantities.

39. Variations

39.1 All Variations shall be included in updated Programs produced by the Contractor.

40. Payments for Variations

40.1 The Contractor shall provide the Engineer with a quotation (with breakdown of unit rates) for carrying out the Variation when requested to do so by the Engineer. The Engineer shall assess the quotation, which shall be given within seven days of the request or within any longer period stated by the Engineer and before the Variation is ordered.

40.2 If the work in the Variation corresponds with an item description in the Bill of Quantities and if, in the opinion of the Engineer, the quantity of work above the limit stated in Sub Clause 38.1 or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.

40.3 If the Contractor's quotation is unreasonable, the Engineer may order the Variation and make a change to the Contract Price which shall be based on Engineer's own forecast of the effects of the Variation on the Contractor's costs.

40.4 If the Engineer decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.

40.5 The Contractor shall not be entitled to additional payment for costs which could have been avoided by giving early warning.

41. Cash flow forecasts

41.1 When the Program is updated, the contractor is to provide the Engineer with an updated cash flow forecast.

42. Payment Certificates

42.1 The Contractor shall submit to the Engineer monthly statements of the estimated value of the work completed less the cumulative amount certified previously.

42.2 The Engineer shall check the Contractor's monthly statement and within 14 days certify the amount to be paid to the Contractor after taking into account any credit or debit for the month in question in respect of materials for the works in the relevant amounts and under conditions set forth in sub-clause 51(3) of the Contract Data (Secured Advance).

42.3 The value of work executed shall be determined by the Engineer.

42.4 The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.

42.5 The value of work executed shall include the valuation of Variations and Compensation Events.

42.6 The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

43. Payments

43.1 Payments shall be adjusted for deductions for advance payments, retention, other recoveries in terms of the contract and taxes, at source, as applicable under the law. The Employer shall pay the Contractor the amounts certified by the Engineer within 28 days of the date of each certificate. If the Employer makes a late payment, the Contractor shall be paid interest on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made upto the date when the late payment is made at 12% per annum.

43.2 If an amount certified is increased in a later certificate as a result of an award by the Adjudicator or an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.

43.3 Items of the Works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

44. Compensation Events

44.1 The following are Compensation Events unless they are caused by the Contractor:

- (a) The Employer does not give access to a part of the Site by the Site Possession Date stated in the Contract Data.

- (b) The Employer modifies the schedule of other contractors in a way which affects the work of the contractor under the contract.
- (c) The Engineer orders a delay or does not issue drawings, specifications or instructions required for execution of works on time.
- (d) The Engineer instructs the Contractor to uncover or to carry out additional tests upon work which is then found to have no Defects.
- (e) The Engineer does not approve for a subcontract to be let, within 15 days.
- (f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of Letter of Acceptance from the information issued to Bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.
- (g) The Engineer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
- (h) Other contractors, public authorities, utilities or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
- (i) The advance payment is delayed, beyond 28 days after receipt of application and Bank Guarantee.
- (j) The effect on the Contractor of any of the Employer's Risks.
- (k) The Engineer unreasonably delays issuing a Certificate of Completion.
- (l) Other Compensation Events listed in the Contract Data or mentioned in the Contract.

44.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date is extended. The Engineer shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.

44.3 As soon as information demonstrating the effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it is to be assessed by the Engineer and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Engineer shall adjust the Contract Price based on Engineer's own forecast. The Engineer will assume that the Contractor will react competently and promptly to the event.

44.4 The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor not having given early warning or not having cooperated with the Engineer.

45. Tax

45.1 The rates quoted by the Contractor shall be deemed to be inclusive of the sales and other taxes that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

46. Currencies

46.1 All payments shall be made in Indian Rupees.

47. Deleted

48. Retention

- 48.1 The Employer shall retain from each payment due to the Contractor the proportion stated in the Contract Data until Completion of the whole of the Works.
- 48.2 On Completion of the whole of the Works half the total amount retained is repaid to the Contractor and half when the Defects Liability Period has passed and the Engineer has certified that all Defects notified by the Engineer to the Contractor before the end of this period have been corrected.
- 48.3 In case, contractor requests for refund of the Retention Money deducted by the Employer under the provision of this clause, Employer shall consider the said request of the Contractor provided that the refund hereunder shall be made in tranches of not less than 1% (one percent) of the Contract price and Contractor furnishes an irrevocable and unconditional bank guarantee for an equal amount substantially in the format of bank guarantee for performance guarantee enclosed with SBD and valid up to 28 days beyond the scheduled/extended defect liability period. On completion of the whole works, the contractor has however an option to submit a fresh irrevocable and unconditional bank guarantee for an amount equal to 2.5% of the total value of work executed substantially in the format of bank guarantee for performance guarantee enclosed with SBD and valid up to 28 days beyond the Defects Liability Period and get refund the retention money and bank guarantees submitted for refund of retention money

49. Liquidated Damages

- 49.1 The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date (for the whole of the works or the milestone as stated in the contract data). The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages does not affect the Contractor's liabilities.
- 49.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the over payment calculated from the date of payment to the date of repayment at the rates specified in Sub Clause 43.1.

49.3 If the contractor fails to comply with the time for completion as stipulated in the tender, then the contractor shall pay to the employer the relevant sum stated in the Contract Data as Liquidated damages for such default and not as penalty for everyday or part of day which shall elapse between relevant time for completion and the data stated in the taking over certificate of the whole of the works on the relevant section, subject to the limit stated in the contract data.

The employer may, without prejudice to any other method of recovery deduct the amount of such damages from any monies due or to become due to the contractor. The payment or deduction of such damages shall not relieve the contractor from his obligation to complete the works on from any other of his obligations and liabilities under the contract.

49.4 If, before the Time for Completion of the whole of the Works or, if applicable, any Section, a Taking – Over Certificate has been issued for any part of the Works or of a Section, the liquidated damages for delay in completion of reminder of the Works or of that Section shall, for any period of delay after the date stated in such Taking-Over Certificate, and in the absence of alternative provisions in the Contract, be reduced in the proportion which the value of the part so certified bears to the value of the whole of the Works or Section, as applicable. The provisions of this Sub-Clause shall only apply to the rate of liquidated damages and shall not affect the limit thereof.

50. Deleted

51. Advance Payment

51.1 The Employer shall make advance payment (not to be paid in less than two instalments except in special circumstances for which the reasons to be recorded in writing) to the Contractor of the amounts stated in the Contract Data by the date stated in the Contract Data, against provision by the Contractor of an Unconditional Bank Guarantee in a form and by a bank acceptable to the Employer in amounts and currencies equal to be at least 110% of the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. The mobilization advance would be deemed as interest bearing advance at an interest rate of 10% to be compounded quarterly.

51.2 The Contractor is to use the advance payment only to pay for Equipment, Plant and Mobilization expenses required specifically for execution of the Works. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Engineer.

51.3 The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, or Liquidated Damages.

52. Securities

52.1 The Performance Security (including additional security for unbalanced bids) shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer, and denominated in Indian Rupees. The Performance Security shall be valid until a date 28 days from the date of expiry of Defects Liability Period and the additional security for unbalanced bids shall be valid until a date 28 days from the date of issue of the certificate of completion.

53. Deleted

54. Cost of Repairs

54.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. FINISHING THE CONTRACT

55. Completion

- 55.1 The Contractor shall request the Engineer to issue a Certificate of Completion of the Works and the Engineer will do so upon deciding that the Work is completed.

56. Taking Over

- 56.1 The Employer shall take over the Site and the Works within seven days of the Engineer issuing a certificate of Completion.

57. Final Account

- 57.1 The Contractor shall supply to the Engineer a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Engineer shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the Contractor and issue a payment certificate, within 56 days of receiving the Contractor's revised account.

58. Operating and Maintenance Manuals

- 58.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.
- 58.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the Contract Data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

59. Termination

- 59.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.
- 59.2 Fundamental breaches of Contract include, but shall not be limited to the following:
- (a) The Contractor stops work for 28 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Engineer;
 - (b) The Engineer instructs the Contractor to delay the progress of the Works and the instruction is not withdrawn within 28 days;
 - I The Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
 - (d) A payment certified by the Engineer is not paid by the Employer to the Contractor within 56 days of the date of the Engineer's certificate;
 - (e) The Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
 - (f) The Contractor does not maintain a security which is required;
 - (g) The Contractor has delayed the completion of works by the number of days for which the maximum amount of liquidated damages can be paid as defined in the Contract data; and
 - (h) If the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in the executing the Contract.

For the purpose of this paragraph : “corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. “Fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.”

59.3 When either party to the Contract gives notice of a breach of contract to the Engineer for a cause other than those listed under Sub Clause 59.2 above, the Engineer shall decide whether the breach is fundamental or not.

59.4 Notwithstanding the above, the Employer may terminate the Contract for convenience.

59.5 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

60. Payment upon Termination

60.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the Contract Data. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor the difference shall be a debt payable to the Employer.

60.2 If the Contract is terminated at the Employer’s convenience or because of a fundamental breach of Contract by the Employer, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor’s personnel employed solely on the Works, and the Contractor’s costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

61. Property

61.1 All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Employer, if the Contract is terminated because of a Contractor’s default.

62. Release from Performance

62.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which commitment was made.

F. SPECIAL CONDITIONS OF CONTRACT

1. **LABOUR:**

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

2. **COMPLIANCE WITH LABOUR REGULATIONS:**

During continuance of the contract, the Contractor and his sub contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given below. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority 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 Engineer/Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/Engineer 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 employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTION WORK.

- a) Workmen Compensation Act 1923:- The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- b) Payment of Gratuity Act 1972:- Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed 5 years service or more on death the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments employing 10 or more employees.
- c) Employees P.F. and Miscellaneous Provision Act 1952: The Act Provides for monthly contributions by the employer plus workers @ 10% or 8.33%. The benefits payable under the Act are :
 - (i) Pension or family pension on retirement or death, as the case may be.
 - (ii) Deposit linked insurance on the death in harness of the worker.
 - (iii) Payment of P.F. accumulation on retirement/death etc.
- d) Maternity Benefit Act 1951:- The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- e) Contract Labour (Regulation & Abolition) Act 1970:- The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails

to provide, the same are required to be provided, by the Principal Employer by Law. The Principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ 20 or more contract labour.

- f) Minimum Wages Act 1948 :- The Employer is supposed to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Construction of Buildings, Roads, Runways are scheduled employments.
- g) Payment of Wages Act 1936 :- It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- h) Equal Remuneration Act 1979 :- The Act provides for payment of equal wages for work of equal nature to Male and Female workers and for not making discrimination against Female employees in the matters of transfers, training and promotions etc.
- i) Payment of Bonus Act 1965 :- The Act is applicable to all establishments employing 20 or more employees. The Act provides for payments of annual bonus subject to a minimum of 8.33% of wages and maximum of 20% of wages to employees drawing Rs.3500/-per month or less. The bonus to be paid to employees getting Rs.2500/- per month or above up-to Rs.3500/- per month shall be worked out by taking wages as Rs.2500/-per month only. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. Some of the State Governments have reduced the employment size from 20 to 10 for the purpose of applicability of this Act.
- j) Industrial Disputes Act 1947 :- The Act lays down the machinery and procedure for resolution of Industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- k) Industrial Employment (Standing Orders) Act 1946 :- It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the States and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get the same certified by the designated Authority.
- l) Trade Unions Act 1926 :- The Act lays down the procedure for registration of trade unions of workmen and employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- m) Child Labour (Prohibition & Regulation) Act 1986 :- The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulation of employment of children in all other occupations and processes. Employment of Child Labour is prohibited in Building and Construction Industry.
- n) Inter-State Migrant workmen's (Regulation of Employment & Conditions of Service) Act 1979:- The Act is applicable to an establishment which employs 5 or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, travelling expenses from home upto the establishment and back, etc.
- o) The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996 :- All the establishments who carry on any building or other construction work and employs 10 or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost

of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as Canteens, First-Aid facilities, Ambulance, Housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.

- p) Factories Act 1948 :- The Act lays down the procedure for approval at plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing 10 persons or more with aid of power or 20 or more persons without the aid of power engaged in manufacturing process.

3. **ARBITRATION (GCC Clause 25.3)**

The procedure for arbitration will be as follows:

- (a) In case of Dispute or difference arising between the Employer and a domestic contractor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The parties shall make efforts to agree on a sole arbitrator and only if such an attempt does not succeed and the Arbitral Tribunal consisting of 3 arbitrators one each to be appointed by the Employer and the Contractor and the third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties to act as Presiding Arbitrator shall be considered. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the * Council, Indian Road Congress.
- (b) The Arbitral Tribunal shall consist of three Arbitrators one each to be appointed by the Employer and the Contractor. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties, and shall act a presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding arbitrator shall be appointed by the * Council, Indian Road Congress.
- (c) If one of the parties fails to appoint its arbitrator in pursuance of sub-clause (a) and (b) above within 30 days after receipt of the notice of the appointment of its arbitrator by the other party, then the * Council, Indian Road Congress, shall appoint the arbitrator. A certified copy of the order of the Council, Indian Road Congress, making such an appointment shall be furnished to each of the parties.
- (d) Arbitration proceedings shall be held in India, and the language of arbitration proceedings and that of all documents and communications between the parties shall be English.
- (e) The decision of the majority of arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the 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.
- (f) Performance under the contract shall continue during the arbitration proceedings and payments due to the contractor by the owners shall not be withheld, unless they are the subject matter of the arbitration proceedings.

SECTION – 4

CONTRACT DATA

CONTRACT DATA

Items marked “N/A” do not apply in this Contract.

1. The employer is **Chief Engineer, Public Works Department, Roads & Bridges, Nagaland, Kohima – 797001** [Cl.1.1]

Name: Er. Swarai Meru

Address: Chief Engineer (R&B) Public Works Department Nagaland, Kohima-797001

Name of the Authorized Representative (will be intimated later)

2. The Engineer is **Executive Engineer PWD (R&B), Zunheboto, Division.**

Name of Authorized Representative:

3. The Dispute Review Expert appointed jointly by the Employer and Contractor is: [Cl.1.1]

*Name: _____

*Address: _____

4. The Defects Liability Period is **3(Three) year** from the date of completion. [C.1.1&35]

5. The start date shall be 15 days from the date of issue of the notice to proceed with the work. [Cl.1.1]

6. The Intended Completion Date for the whole of the Works is **24 (Twenty-Four)** months 1.1, 17&28] after start of work with the following milestones

Milestone dates (including non-working season): [Cl.2.2 & 49.1]

Physical works to be completed

MILESTONE

Period from the date of start

Foundation Works

6 Months

Substructure & River Training works

10 Months

Super-Structure works

6 Months

Approach Road

2 Months

- | | | |
|----|---|-------------------|
| 7. | The proposed bridge connects Thakiye village to Shishimi village over Kithu river | [Cl. 1.1] |
| 8. | The name and identification number of the Contract is: “Construction of Bailey Bridge over Kithu river between Thakiye village (Zunheboto) and Shishimi (Kiphire)” span 70 feet (21.34m) under Setu Bandhan Scheme of Central Road and Infrastructure Fund (CRIF) in the State of Nagaland. | [Cl. 1.1] |
| 9. | The scope and design project includes: | 10. [Cl
. 1.1] |

(A) Road Works

Earth work in widening of road of 1120 m length on Thakiye side and 1120 m length on Shishimi side, Provision of 150mm thick GSB-for 4.75m width (Carriage width- 3.75, shoulder - 0.5m both sides), WBM Gr-II & III of 75mm thickness each, PC till Premix for 240m length Unlined side drain for 240m length, construction of 8 Nos. of 1000mm dia HP culverts; all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety.

(B) Bridge

Earth work in excavation of foundation (Abutments, U/s and D/s Wing Walls), Provision of Random Rubble Masonry work (RRM) Soling- (Abutments, U/s and D/s Wing Walls, CSRM wall Approach Slab), Provision of PCC 1:3:6 in foundation (Abutments, U/s and D/s Wing Walls, CSRM wall Approach Slab), Provision of HYSD bar Reinforcement in foundation (Abutments, U/s and D/s Wing Walls), Provision of RCC Grade M25 in foundation (Abutments, U/s and D/s Wing Walls), Provision of PCC 1:3:6 in Sub-structure (Parapet on Approach Slab), Provision of HYSD bar Reinforcement for Substructure (Abutments, U/s and D/s Wing Walls, Dirt Wall, Abutment cap), Provision of RCC Grade M20 in Substructure (Abutments, U/s and D/s Wing Walls, Dirt Wall, Abutment Caps), Provision of RRM in CM 1:3 in CSRM wall approach slab, and Weep holes (Abutments & Wing Walls), Back filling (Abutments), Provision of Filter media (Abutments), Provision of HYSD bar Reinforcement in Superstructure (Approach Slab), Centering and Shuttering (Abutments, Wing Walls, Approach Slab), Provision of RCC Grade M20 in Superstructure (Approach Slab); all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety.

(B) River Training & Protection Works

Provision of Cement Concrete bedding Rubble stone laid in CM 1:3 (River bed), Provision of Gabain structure; all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety

(D) Other Items

Supply, Carriage & Erection of Extra Width DS Bailey Bridge; all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety
Any other items as required to fulfil at contractual obligations as per the Bid documents.

10. The following documents also form part of contract: [Cl. 2.3(9)]
.....
11. The law which applies to the Contract is the law of Union of India [Cl. 3.1]
12. The language of the Contract documents is English [Cl. 3.1]
13. Limit of subcontracting Nil [Cl. 7.1]
14. The Schedule of Other Contractors [Cl. 8]
15. The Schedule of Key Personnel As per Annex.-II to Section I [Cl. 9]
16. The minimum insurance cover for physical property, injury and death is Rs. 5 lakh as per occurrence with the number of occurrences limited to four. After each occurrence, contractor will pay additional premium necessary to make insurance valid for four occurrences always. [Cl. 13]
17. Site Investigation Report [Cl. 14]
18. The Site Possession Dates shall be within 15 days of award of the work. [Cl. 21]
19. Fees and types of reimbursable expenses to be paid to the Dispute Review Expert (To be inserted later) [Cl. 26]
20. Appointing Authority for the Dispute Review Expert – Council, Indian Roads Congress, New Delhi
21. The period for submission of the programme for approval of Engineer shall be 21 days from the issue of Letter of Acceptance. [Cl. 27.1]
22. The period between programme updates shall be 30 days. [Cl. 27.3]
23. The amount to be withheld for late submission of an updates programme shall be Rs. 2.00 lakhs. [Cl. 27.3]
24. The following events shall also be Compensation Events: [Cl. 44]

Substantially adverse ground conditions encountered during the course of execution of work not provided for in the bidding documents
(i) Removal of unsuitable material like marsh, debris dumps, etc not caused by the contractor
(ii) Artesian conditions
(iii) Seepage, erosion, landslide
(iv) Presence of historical, archaeological or religious structures, monuments interfering with the works
(v) Restriction of access to ground imposed by civil, judicial, or military authority
25. The currency of the Contract is Indian Rupees. [Cl. 46]

[Cl. 25]

26. — The formula(e) for adjustment of prices are:

[Cl. 47]

~~R = Value of work as defined in Clause 47.1 of Conditions of Contract.~~

Adjustment for labour component

- (i) — ~~Price adjustment for increase or decrease in the const due to labour shall be paid in accordance with the following formula:~~

$$V_L = 0.85 \times P_L / 100 \times R \times (L_i - L_o) / L_o$$

~~V_L = increase or decrease in the cost of work during the month under consideration due to changes in rates for local labour.~~

~~L_o = the consumer price index for industrial workers for the state on 28 days preceding the date of opening of Bids as published by Labour Bureau, Ministry of Labour, Government of India.~~

~~L_i = The consumer price index for industrial workers for the state under consideration as published by Labour Bureau, Ministry of Labour, Government of India.~~

~~P_L = Percentage of labour component of the work.~~

Adjustment for cement component

- (ii) — ~~Price adjustment for increase or decrease in the cost of cement procured by the contractor shall be paid in accordance with the following formula.~~

$$V_c = 0.85 \times P_c / 100 \times R \times (C_i - C_o) / C_o$$

~~V_c = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for cement~~

~~C_o = The all India wholesale price index for cement for on 28 days preceding the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi~~

~~C_i = The all India average wholesale price index for cement for the month under consideration as published by Ministry of Industrial Development, Government of India, New Delhi~~

~~P_c = Percentage of cement component of the work~~

Adjustment for steel component

- (iii) ~~Price adjustment for increase or decrease in the cost of steel procured by the Contractor shall be paid in accordance with the following formula:~~

$$V_s = 0.85 \times P_s / 100 \times R \times (S_i - S_o) / S_o$$

~~V_s = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for steel~~

~~S_o = The all India wholesale price index for steel (Bars and Rods) on 28 days preceding the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi~~

~~S_i = The all India average wholesale price index for steel (Bars and Rods) for the month under consideration as published by Ministry of Industrial Development, New Delhi~~

~~P_s = Percentage of steel component of the work~~

~~*Note: For the application of this clause, index of Bars and Rods has been chosen to represent steel group.*~~

Adjustment of Bitumen component

- (iv) ~~Price adjustment for increase or decrease in the cost of bitumen shall be paid in accordance with the following formula:~~

$$V_b = 0.85 \times P_b / 100 \times R \times (B_i - B_o) / B_o$$

~~V_b = Increase or decrease in the cost of work during the month under consideration due to changes in the rate for bitumen.~~

~~B_o = The official retail price of bitumen at the IOC depot at center on the day 28 days prior to date of opening of Bids.~~

~~B_i = The official retail price of bitumen at IOC depot at nearest center for the 15th day of the month under consideration.~~

~~P_b = Percentage of bitumen component of the work.~~

Adjustment of POL (fuel and lubricant) component

- (v) ~~Price adjustment for increase or decrease in cost of POL (fuel and lubricant) shall be paid in accordance with the following formula:~~

$$V_f = 0.85 \times P_f / 100 \times R \times (F_i - F_o) / F_o$$

~~V_f = Increase or decrease in the cost of work during the month under consideration due to changes in rates for fuel and lubricants.~~

~~F_o = The official retail price of High Speed Diesel (HSD) at the existing consumer pumps of IOC at nearest centre on the day 28 days prior to the date of opening of Bids.~~

~~F_i = The official retail price of HSD at the existing consumer pumps of IOC at nearest centre for the 15th day of month of the under consideration.~~

~~P_f = Percentage of fuel and lubricants component of the work.~~

Note: For the application of this clause, the price of High Speed Diesel oil has been chosen to represent fuel and lubricants group.

Adjustment for Plant and Machinery Spares component

- (vi) ~~Price adjustment for increase or decrease in the cost of plant and machinery spares procured by the Contractor shall be paid in accordance with the following formula:~~

$$V_p = 0.85 \times P_p / 100 \times R \times (P_i - P_o) / P_o$$

~~V_p = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for plant and machinery spares~~

~~P_o = The all India wholesale price index for heavy machinery and parts on 28 days preceding the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi~~

~~P_i = The all India average wholesale price index for heavy machinery and parts for the month under consideration as published by Ministry of Industrial Development, New Delhi~~

~~P_p = Percentage of plant and machinery spares component of the work~~

Note: For the application of this clause, index of Heavy Machinery and Parts has been chosen to represent the Plant and Machinery Spares group.

Adjustment of Local materials

- (vii) ~~Price adjustment for increase or decrease in cost of local materials other than cement, steel, bitumen and POL procured by the contractor shall be paid in accordance with the following formula:~~

$$V_m = 0.85 \times P_m / 100 \times R \times (M_i - M_o) / M_o$$

~~V_m = Increase or decrease in the cost of work during the month under consideration due to changes in rates for local materials other than cement, steel, bitumen and POL.~~

~~M_o = The all India average wholesale price index (all commodities) on 28 days preceding the date of opening of Bids, as published by the Ministry of Industrial Development, Government of India, New Delhi.~~

~~M_i = The all India average wholesale price index (all commodities) for the month under consideration as published by Ministry of Industrial Development, Government of India, New Delhi.~~

~~P_m = Percentage of local material component (other than cement, steel, bitumen and POL) of the work.~~

~~The following percentages will govern the price adjustment for the entire contract:~~

1. Labour— P_l	25%
2. Cement— P_c	5%
3. Steel— P_s	5%
4. Bitumen— P_b	10%
5. POL— P_f	5%
6. Plant & Machinery Spares— P_p	5%
7. Other materials— P_m	45%
	100%

27. The proportion of payments retained (retention money) shall be 6% from each bill subject to a maximum of 5% of final contract price [Cl. 48]
28. Amount of liquidated damages for delay in completion of works Rs. 4500 (Rupees Four thousand Five hundred only) per day [Cl. 49]
29. Maximum limit of liquidated damages for delay in completion of work 10 per cent of the Initial Contract Price rounded off to the nearest thousand. [Cl. 49]
30. Amount of Bonus for early completion of whole of the works NA [Cl. 50]
31. Maximum limit of bonus for early completion of work NA. [Cl. 50]
32. The amount of the advance payment NA [Cl. 51 & 52]
33. Deleted
34. Deleted
35. Deleted
36. Deleted
37. The data by which “as-built” drawings (in scale as directed) in 2 sets are required is within 28 days of issue of certificate of completion of whole of section of the works, as the case may be. [Cl. 58]
38. The amount to be withheld for failing to supply “as built” drawings by the date required is **Rs. 2.00 Lakhs.** [Cl. 58]
39. The following events shall also be fundamental breach of contract: “The Contract has contravened Sub-clause 7.1 and Clause 9 of GCC.” [Cl. 59.2]
40. The percentage to apply to the value of the work not completed representing the Employer’s additional cost for completing the Works shall be 20 per cent. [3, Cl. 60]

SECTION – 5

TECHNICAL SPECIFICATIONS

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1. WORK AND SITE CONDITIONS

1.1 PROJECT DESCRIPTION

Construction of Bailey Bridge over Kithu river between Thakiye village (Zunheboto) and Shishimi (Kiphire)” span 70 feet (21.34m) under Setu Bandhan Scheme of Central Road and Infrastructure Fund (CRIF) in the State of Nagaland.

The work site is at Kithu river between Thakiye to Shishimi.

Climate	Max – 38 Degree Centigrade
	Min – 4 Degree Centigrade

Salient Features of the work:

(A) Road Works

Earth work in widening of road of 1120 m length on Thakiye side and 1120 m length on Shishimi side, Provision of 150mm thick GSB-for 4.75m width (Carraige width- 3.75, shoulder - 0.5m both sides), WBM Gr-II & III of 75mm thickness each, PC till Premix for 240m length Unlined side drain for 240m length, construction of 8 Nos. of 1000mm dia HP culverts; all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety.

(B) Bridge

Earth work in excavation of foundation (Abutments, U/s and D/s Wing Walls), Provision of Random Rubble Masonry work (RRM) Soling- (Abutments, U/s and D/s Wing Walls, CSRM wall Approach Slab), Provision of PCC 1:3:6 in foundation (Abutments, U/s and D/s Wing Walls, CSRM wall Approach Slab), Provision of HYSD bar Reinforcement in foundation (Abutments, U/s and D/s Wing Walls), Provision of RCC Grade M25 in foundation (Abutments, U/s and D/s Wing Walls), Provision of PCC 1:3:6 in Sub-structure (Parapet on Approach Slab), Provision of HYSD bar Reinforcement for Substructure (Abutments, U/s and D/s Wing Walls, Dirt Wall, Abutment cap), Provision of RCC Grade M20 in Substructure (Abutments, U/s and D/s Wing Walls, Dirt Wall, Abutment Caps), Provision of RRM in CM 1:3 in CSRM wall approach slab, and Weep holes (Abutments & Wing Walls), Back filling (Abutments), Provision of Filter media (Abutments), Provision of HYSD bar Reinforcement in Superstructure (Approach Slab), Centering and Shuttering (Abutments, Wing Walls, Approach Slab), Provision of RCC Grade M20 in Superstructure (Approach Slab); all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety.

(C) River Training & Protection Works

Provision of Cement Concrete bedding Rubble stone laid in CM 1:3 (River bed), Provision of Gabion structure; all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety

(D) Other Items

Supply, Carriage & Erection of Extra Width DS Bailey Bridge; all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety

1.2 CONTRACT DRAWINGS

The drawings listed in the form of agreement form part of the contract. They shall be read as part of the specifications and shall be held to include also all further modified and additional drawings that may be issued from time to time by the engineer or contractor under the terms of contract. The works shall be constructed from dimensions given on the drawings. No dimension shall be deduced by scaling.

1.3 UNITS OF MEASUREMENT

Unless otherwise stated, all units of measurements used in the specification and Bill of quantities are in metric units.

1.4 SCOPE OF WORKS**(D) Road Works**

Earth work in widening of road of 1120 m length on Thakiye side and 1120 m length on Shishimi side, Provision of 150mm thick GSB-for 4.75m width (Carraige width- 3.75, shoulder - 0.5m both sides), WBM Gr-II & III of 75mm thickness each, PC till Premix for 240m length Unlined side drain for 240m length, construction of 8 Nos. of 1000mm dia HP culverts; all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety.

(B) Bridge

Earth work in excavation of foundation (Abutments, U/s and D/s Wing Walls), Provision of Random Rubble Masonry work (RRM) Soling- (Abutments, U/s and D/s Wing Walls, CSRM wall Approach Slab), Provision of PCC 1:3:6 in foundation (Abutments, U/s and D/s Wing Walls, CSRM wall Approach Slab), Provision of HYSD bar Reinforcement in foundation (Abutments, U/s and D/s Wing Walls), Provision of RCC Grade M25 in foundation (Abutments, U/s and D/s Wing Walls), Provision of PCC 1:3:6 in Sub-structure (Parapet on Approach Slab), Provision of HYSD bar Reinforcement for Substructure (Abutments, U/s and D/s Wing Walls, Dirt Wall, Abutment cap), Provision of RCC Grade M20 in Substructure (Abutments, U/s and D/s Wing Walls, Dirt Wall, Abutment Caps), Provision of RRM in CM 1:3 in CSRM wall approach slab, and Weep holes (Abutments & Wing Walls), Back filling (Abutments), Provision of Filter media (Abutments), Provision of HYSD bar Reinforcement in Superstructure (Approach Slab), Centering and Shuttering (Abutments, Wing Walls, Approach Slab), Provision of RCC Grade M20 in Superstructure (Approach Slab); all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety.

(E) River Training & Protection Works

Provision of Cement Concrete bedding Rubble stone laid in CM 1:3 (River bed), Provision of Gabion structure; all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety

(D) Other Items

Supply, Carriage & Erection of Extra Width DS Bailey Bridge; all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defects Liability Period; and other item of work as may be required to be carried out for completing the works in accordance with the provisions of the contract to ensure safety

- b) Provision of site office for supervisory quality control laboratory staff and maintenance thereof for the period of construction and three months beyond completion.
The Tenderer shall have to make arrangement for providing furnished site office for the supervisory staff.
- c) All aspects of quality assurance for various components of the work as specified or as directed;
- d) Any other item of work as may be required to be carried out for completing the work in all respects in accordance with the provisions of the contract and to ensure the safety of the road during and after construction;
- e) Clearing the site and handing over of the Works, as specified or as directed;
- f) After the completion of the works and during a period of one year, execution of all such work of amendment, reconstruction and remedying defects.
- g) Submission of detailed programme showing the procedure, sequence of activities, method of construction, detail of constructional plants and equipment by which the tendered proposes to carry out the entire work.
- h) Providing surveying and other instruments during the currency of contract period.
- i) Illumination/Lighting, its fixtures and electrical installation for the project.
- j) The contractor shall have to provide supervising staff with engineers, office services for the engineers and equipment for the engineers.
- k) Any other item of work which is not specifically provided in the bill of quantities but is essential for complying with the provision of the contract.
- l) Preparing of shop drawings, bar schedule etc. For various components of the Works and obtaining approval of the Engineer, inclusive of incorporation of all modification, alterations, changes etc. That may be required to be carried out by the successful Tenderer, as specified or as directed;
- m) Any other data which may be required as per these specifications or the conditions of contract or any other annexure/appendices/schedules forming part of the contract.
- n) Submission of all data of the completed works required for elaboration of as-built drawings.

1.5 PROGRAMME OF WORKS:

The programme to be submitted shall be detailed network analysis of the works showing the critical path and stating for each activity the earliest start date, the duration and latest finish date. The programme shall be submitted in triplicate.

Each month the contractor shall update and re-issue the programme together with a list of activities with zero or negative total float. The contractor shall indicate each month his estimated completion date and draw any attention to any changes in plant, methods and rates of working which he may have made during the preceding month or is proposing in the future.

The contractor shall also furnish in triplicate a programme in bar chart form corresponding in every way to the network for all activities extended in such a manner as to show the quantities of principal materials and employment of all labour and plant. The bar chart shall be updated monthly.

The programme to be submitted shall be based on completion of the whole of the works within the period named with milestones in bid data.

Whenever required by the engineer, the contractor shall submit for approval the full details of the methods of construction he proposes to adopt or use any parts thereof during construction from the use of such methods.

The approval by the engineer of any of the contractor's proposed method shall not in any way relieve the contractor of his obligations and responsibilities under the contract.

1.6 CONTRACTORS ESTABLISHMENT ON SITE:

1.6.1 Scope

This section covers all work and costs involved in the establishment of the Contractor's organization, camps and plant, and the removal thereof after completion. It also concerns the cost of general obligations, liabilities and risks which is not covered elsewhere.

1.6.2 General Requirements

(a) Camps, plant and testing facilities

It is the Contractor's responsibility to acquire land for the sitting of all his offices, accommodation, stores, testing facilities, plant yards and workshops and for all temporary works and for the reinstatement of such land on the completion of the Contract to the satisfaction of the owners. The Contractor shall obtain the approval of the Engineer to the sitting of offices, accommodation, stores, testing facilities, plant yards cast yard and workshops before such lands acquired and he shall indemnify the employer against all claims and charges in respect of the occupation, use and reinstatement of the land.

The contractor is solely responsible for the satisfactory housing of all his employees and for complying with all Local District and Government regulations and requirements in this respect.

- (b) Legal relations and responsibility to the public

The Contractor shall take the steps necessary to comply with the terms of the General Conditions of Contract, particularly in respect of the insurances and indemnities required, and he shall comply with all regulations of statutory authorities

1.6.3 Measurement

Price for this item shall deem to be included in the respective items.

1.7 CONTRACTOR'S DRAWINGS:

All drawings, diagrams, schedules etc. Which the contractor is required to submit to the engineer under the terms of contract shall be furnished in triplicate.

The contractor shall make such revisions to the above documents as may be required by the engineer and unless otherwise specified, should re-submit such revised documents in triplicate prior to the start of any of the work to which they relate.

1.8 SITE INFORMATION:

Site information given hereunder and provided elsewhere is given as guidelines only by the Employer but the Contractor shall satisfy himself regarding all aspects of site conditions and no claim will be entertained on the plea that the information supplied by the Employer is erroneous or insufficient. The site information already supplied shall not be deemed to form part of the contract.

Site Data

A. Climatic

Maximum Temperature 36.0°C

Minimum Temperature 4.0°C

1.9 MATERIALSOURCES:

Material shall be procured only from the approved sources.

The following information is for initial guidance of the tenderers only. The tenderers shall collect the information in this regard and shall get himself acquainted with the quarry sources. The tenderers shall collect information through his own sources prior to preparation of his Tender.

Carriage of Materials etc

The Tenderer shall make his own arrangement to have the information regarding the materials required for the construction of works as called for in this tender and its availability and suitability for the construction.

1.10 AVAILABILITY OF SERVICES:

1.10.1 Power, Water, Telephone etc.

The contractor shall make his own arrangements for the supply of electricity, fresh water, telephone, telex etc. To the site and maintain and remove upon completion all equipment's, pipes, cables, fittings and other installations which may be necessary for the distribution of such services.

1.10.2 Sanitation

The contractor shall provide adequate sanitary conveniences to the approval of the engineer and the authorities concerned for the use of persons employed on the site and all persons connected with works shall be obliged to use them. The contractor shall make all temporary arrangement for the proper discharge of sewage and drainage from such sanitary conveniences and shall maintain the same to the satisfaction of the engineer and authorities concerned as long as they are required.

1.10.3 Medical services

The contractor shall arrange for adequate medical services and first-aid facilities on the site for the treatment of his staff and workmen.

The contractor shall provide with services, equipment's and medical supplies and staffed with qualified personnel to the satisfaction of the engineer. Further he shall arrange for the transfer of injured or sick employees to hospital or to their homes.

The contractor shall at all times afford engineer's site staff full use of services and facilities when required.

1.11 VARIATIONS IN SITE CONDITIONS:

1.11.1 Variation in Climatic Conditions

The climatic conditions indicated in Tender Documents are for guidance only and there may be variation in this information.

No claim for additional payment shall be entertained for any such variations in climatic conditions.

2. GENERAL SPECIFICATIONS:

GENERAL

This specification defines the standards and quality of materials and workmanship to be used for the construction. It should be read in conjunction with the special specifications, which may amplify or modify the standard specifications, conditions of contract, drawings and other documents forming the contract.

2.1 NATIONAL SPECIFICATIONS:

Where specifications issued by the national or other widely recognised bodies are referred to in this specification and in the special specifications, they shall be the latest editions of such specifications available 28 days prior to the date set for the submission of tenderers.

In referring to the specification following abbreviations are used;

IRC : Indian Roads Congress

IS : Indian Standards

MORT&H : Ministry of Road Transport & Highways

BS : British Standards

AASHTO : American Association of State Highway and Transportation officials

ASTM : American Society for Testing and Materials

The contractor shall supply and maintain one complete set of all specifications referred to in these specifications for use by the Engineer.

2.2 Submission to the Engineer:

Whenever the Contractor is required to submit to the Engineer proposals, details, drawings, Calculations, information, literature, materials test reports etc. The Engineer will consider each submission and reply in accordance with the requirements of the Contract. Unless a defined period of time is stated in this specification or special conditions, each submission shall be made by dates to be agreed with the Engineer, adequate time to consider each submission.

The drawings shall be signed by the contractor and dated with scales shown. Amendments shall be noted and dated.

Any approval given by the Engineer in accordance with the requirements of the contract shall not relieve the contractor of any of his obligations and responsibility under the contract.

2.3 Order of works

Operations shall be generally in a sequence that will achieve a continuous and consecutive output of fully completed bridge and road works without leaving any isolated section incomplete.

2.4 Method of construction

The contractor shall submit to the Engineer not later than 28 days from the date of award of the contract, a general description of his proposed arrangements and methods for the execution of works, including, interlaid, temporary offices, access roads, deviations, construction plants and its intended production output, working shift arrangement, labour strength and supervision arrangement, power arrangement, supply of material, stone crushing, aggregate production and storage, testing methods and facilities etc.

During the execution of works, the Contractor shall also submit to the Engineer full and detailed particulars of any proposed temporary works and amendments to the arrangements and methods submitted in accordance with the foregoing.

2.5 Notice of operation

No permanent work should be undertaken without notice to the Engineer sufficiently in advance of the time of the operation for him to be able to make such arrangements as he may deem necessary for its inspection.

2.6 Pollution

The Contractor shall be fully responsible for the disposal of all waste matter and shall take all necessary precautions to avoid pollution to water courses, neighbouring land and the environment generally.

2.7 Security and safety

The Contractor should take all necessary precautions against risks of whatsoever kind to any person employed on the works or to employees of the Employer and Engineer or to any other third party having good and sufficient reason to be around the Works and to this end he should properly carry out safety measures in and around the works to the satisfaction of the Engineer.

The safety measures should consist has, but not necessarily bound by the following:

- ◆ Notice boards for detours, warning or arrow signs indicating the direction to go both for vehicles and pedestrians are to be renewed or replaced according to the progress of the Works, primarily of wooden construction but with fluorescent (or Luminescent) paint applied.
- ◆ Temporary fencing or other means to keep pedestrians safe should be of wooden construction.

The contractor should, furthermore, take all necessary precautions against any damage to the property of the Employer, the Engineer or of any other third party located at or next to the Sites, inclusive of public utilities, in connection of which the Contractor is required of extremely careful in execution of the Works.

The Contractor should at all times comply with any accident prevention regulations and any safety regulations peculiar to the various trades being employed on the Works and safety regulations published by the Government of India.

2.8 Reports and Records

Data necessary for preparation of Monthly Progress Reports, which is to be completed by the Engineer and submitted to the Employer, shall be provided by the Contractor to include the actual status of progress of all items and next month schedule

a) Daily Reports

The Contractor should submit daily reports by each work item, when requested by the Engineer, in an approved form. These will be materials for weekly meeting between the Engineer and Contractor.

Daily Reports should contain, but not necessarily be limited to, the following:

- Weather conditions
- Staff and labour force employed in the Works
- Materials on the Sites
- Equipment on the Sites and the condition of such equipment
- Work items in progress or in preparation
- Accidents and other information relevant to the progress of the Works

b) Progress Photographs

The Contractor should make all arrangements to provide progress photographs and promptly submit them to the Engineer; one copy of each progress photographs of post card size (9cm x 12cm), of such portions of the Works in progress and completed as may be directed by the Engineer.

c) Technical Work Record

The Contractor should prepare and submit his technical work records to the Engineer on the construction activities.

2.9 Works to be kept clean

The Contractor should keep the work well drained of water until completion of the works, and should ensure that as far as it is practicable in the opinion of the Engineer all works should be carried out in dry condition

2.10 Construction Schedule

Within twenty eight (28) days after the date of signing the Contract, the Contractor should submit to the Engineer for his approval a Construction Schedule in accordance with the work program stipulated in the Contract Documents, showing in detail the order of procedures and methods by which he proposes to perform the Works, and should submit particulars in writing of his arrangements for performing the Works and of the construction plant and temporary works he intends to furnish, use or construct, as the case may be.

2.11 Construction Equipment's

According to the Construction Schedule, the Contractor should submit to the Engineer a detailed list of the construction equipment that he will bring to the Sites for the execution of the Works. This list should satisfy the Engineer as to date of arrival, types, sizes, capacities or power and quantities of the items included.

Type, origin, identification number and year of manufacture and whether or not reconditioned should be stated for each equipment. The Contractor should due time place on the Sites all the construction plant listed. In no case, the Contractor should remove equipment or portions thereof that become unduly worn or defective should be immediately repaired or replaced to the satisfaction of the Engineer.

The Contractor should furnish all the construction equipment necessary for the execution of the Works, and it must be on the Sites and inspected and approved by Engineer before work starts. Any equipment or portion thereof that becomes unduly worn or defective should be immediately repaired or replaced to the satisfactions of the Engineer.

2.12 As-Built Drawings

Before the substantial taking-over inspection that leads to the provision of completion of the works, the contractor shall prepare "As-Built Drawings" and submit to the Engineer one set of the original (inked) and three sets of photocopies: the former will be kept by the Engineer and the latter will be submitted to the Employer as a part of Completion Report. The Drawings should consist of the final layout plans of the foundations, substructures, and superstructures, approach roads and ancillary works.

2.13 Engineering Preparation & Control of Works Inclusive of Shop Drawings, Survey Works, Laboratory Test, As – Built Drawings, Maintenance Manual, Photography and Video Tape Recording

2.13.1 Description

MORT&H specification section 100 shall be applicable for this clause.

1. The Contractor shall submit to the Engineer for approval, shop-drawings covering all items to be constructed.

All shop-drawings made by the Contractor must be approved by the Engineer. It is expressly understood that the approval by the Engineer of the contractor's working drawings relates to the requirements for strength of detail civil engineering works and that such approval will not relieve the Contractor from responsibility for errors in dimension. In addition to the approved sets of drawings specified above, the contractor shall furnish the Engineer with 3 copies of all working drawings and erection diagram as finally approved for construction purposes.

On or before completion of the Works, the contractor shall prepare a set of as-built drawings in ink on stable reproducible materials, neatly finished showing all details of the works as constructed on site. These drawings shall be of the same standard as the contract drawings and be subject to examination and approval by the Engineer.

2. The Contractor shall make all necessary instruments available to the Engineer for checking the setting out of the works including levels and theodolites. The instruments shall be of modern pattern, and the Contractor shall maintain them in good condition at all times. In addition he shall supply levelling staves, fibreglass or steel tapes, ranging poles, folding rules and similar items together with waterproof protective clothing. All survey instruments shall be suitable for working in metric units.

The Employer and the Engineer will not be responsible for loss, damage or normal wear and tear to surveying instruments provided as above.

3. The Contractor shall take Video Tape Recording by PAL System for every different kind of works of the Project and shall submit the same to the Employer. Contents of the recording will be verbally instructed by the Engineer.

2.14 Safety Control of Existing Traffic in Road and Protection of Works from damages

The Contractor shall estimate his cost to maintain the existing traffic in road and to protect the potential dangers of risks of all works on the ground and in addition to the normal hazards associated with all construction work, taking all measures to ensure the maximum safety in working conditions at all time. The details of this item are as follows:

1. The Contractor shall supply to all personnel on site a safety helmet of approved design.
2. The Contractor shall erect and maintain at required points on the work, traffic signs, lights, flares, barricades and other facilities as required by the Engineer for the safety control of the existing traffic. When required, or where directed by the Engineer, the Contractor shall furnish and station competent flag-men whose sole duty shall consist of directing the movement of traffic on the roads.
3. The contractor shall, at his own expense, carefully protect all works, materials and plants and equipment from damages.

2.15 Installation & Removal of Field Laboratory

2.15.1 Description

This work shall consist of installation of a Field Laboratory having an area of 50 square meters and Lab office with 20 square meters for Quality control of material and construction work. The Physical test Laboratory shall be well equipped with test facilities for Road work for routine test and general test. The list of equipment's, their condition and calibration shall be as per MORT&H specifications clause 121, Indian Standards or as approved by the Engineer. All equipment's brought onto the site intended for the Quality control of the Works shall be removed upon completion of the Works.

2.15.2 Measurement

Cost of this item shall be deemed to have been included in the Quoted Rates. Upon putting all the equipment's ready for operation, the Engineer shall inspect them and if they are found in ready condition, the installation of the Field Laboratory and equipment under this category of the Works shall be deemed to have been completed

3. PARTICULARS SPECIFICATIONS

3.1 GENERAL/DEFINITIONS

3.1.1 All works related to the project shall conform to IRC standards, Codes, Guidelines and Special Publications as applicable to National Highways and MORTH specifications 2001, 4th revision. In the absence of any definite provisions on any particular issue related to the specifications and/or standards, reference may be made to the latest codes and specifications of the Bureau of Indian Standards, British Standards, American Association of State Highway and Transportation Officials (AASHTO), American Society for Testing and Materials (ASTM), American Concrete Institute (ACI) or any other international standards. But, where even these are silent, the construction and completion of the works shall conform to sound engineering practice.

3.1.2 Amendments and/or modifications carried out by MORTH in the specifications and IRC standards, and codes and Special Publications available to the public.

3.1.3 In so far as amended/modified/added clause supersedes a clause or part thereof in the said specifications and standards, then any reference to the superseded clause elsewhere shall be deemed to refer to the amended/modified/added clause or part thereof.

3.1.4 If amended/modified/added clause comes in conflict or be inconsistent with any of the provisions of the said specifications and standards, the amended/modified/added clause shall always prevail.

3.1.5 The quality of various items shall primarily be the responsibility of the Contractor. On noticing any deficiency in the quality, corrective measures as ordered by the Engineer shall be carried out by the Contractor. In case of any disagreement or non-compliance by the Contractor, the dispute will be referred for resolution in terms of the Contract Agreement.

3.1.7 DEFINITIONS

3.1.7.1 ENGINEER means – Chief Engineer, PWD (R&B), Nagaland or his representative

3.1.7.2 CLIENT means – Ministry of Shipping Road Transport & Highways..

3.1.7.3 Engineer-in-Charge – Officer deputed by Chief Engineer for getting the work executed

3.2 SPECIFICATIONS

3.2.1 “Specifications” herein under mean the specifications relating to the quality and other requirements for the Project as set forth in this schedule and any modifications thereof, or additions thereto as included in the design and engineering for the Project submitted by the Contractor.

3.2.2 Any specifications and materials used shall be consistent with MORTH specifications and other publications referred to therein and in this schedule.

3.2.3 The materials to be used in the work of the Project (including facilities thereon) shall conform to MORTH specifications. However, where the said specifications are silent in regard to specification for the material in question, in that case, specifications of the Bureau of Indian Standards, British Standards, AASHTO, ASTM, or any other international standards shall apply.

3.2.4 Amendments/Modification/Additional Clause

3.2.4.1 Amendments, modification, additions have been made to the following clauses of specification for Road and Bridge Works (Fifth revision).

SI No	Section No.	Section Title	Clause
1	100	General	103, 104, 105, 106, 107, 108, 109, 111, 112, 115, 116, 117
2	200	Site Clearance	201, 202
3	300	Earthwork, Erosion Control and Drainage	301, 304, 309
4	1000	Material for Structure	1001, 1004, 1006, 1007, 1008, 1009, 1010, 1011, 1014
5	1400	Stone & Concrete Block Masonry	1404, 1409
6	1600	Steel Reinforcement	1601, 1602, 1603, 1604, 1605,
7	1700	Structural Concrete	1701, 1703, 1704, 1706, 1707, 1708, 1710, 1712, 1713
8	2200	Substructure	2201, 2202, 2204, 2205, 2206,
9	2300	Concrete Super structure	2301, 2302, 2303, 2304, 2305, 2306, 2307
10	2600	Expansion Joints	2601, 2602, 2605, 2609
11	2700	Wearing Coat & Appurtenances	2901, 2702, 2704, , 2705, 2706
12	3000	Maintenance of road	3002, 3003, 3004

3.2.4.2 The specifications given below are replacement/partial modifications/modifications of existing corresponding clauses of MoRT&H Specifications for Road and Bridge Works (Fifth Revision). Any product/specifications not covered in these sections shall be governed by MoRT&H Specifications for Road and Bridge Works (Fifth Revision).

In case any stipulation made herein conflicts with or is inconsistent with any of provision of MoRT&H specifications, the stipulation made herein shall always prevail.

In the absence of any definite provisions on any particular issue in the aforesaid specifications, the work shall be carried out in accordance with special specifications based on technical literature comprising national (IRC and IS) and international specifications and good Engineering practice and in case of any dispute arising out of the interpretation of the above, the decision of the Engineer-in-Charge shall be final and binding on the Contractor **Section 100**

105. SCOPE OF WORK

This is the heading of the particular clause number of the MORT&H publication doesn't give the complete scope of work under this tender. Total scope of work is defined in this tender document.

105.3 Add the following

The Contractor shall establish, adhere to monitor and maintain an adequate quality assurance programme (QA-programme) based on the requirements of ISO 9001.

The QA-programme shall cover the quality assurance aspects of all services rendered, all items to be supplied and all construction activities to be performed under the Contract also including temporary structures and equipment which will influence the quality of the completed works or the progress of the Contract. The QA-programme shall as a minimum cover subject listed below:

- Organisation
- Document and data control
- Construction programme
- Method statements
- Working, inspection and testing procedures
- Safety and emergency procedures
- Control and handling of materials
- Non-conformity and corrective action
- Internal quality audits
- Education and training of staff

The general procedures of the QA-programme shall be submitted to the Employer for approval not later than twenty eight days after the date of receipt of letter of acceptance. The special part of the QA-programme shall be submitted successively to the effect that it shall have been approved Engineer-in-Charge prior to the commencement of the activities to which the programme shall apply.

Item (ii) of Clause 114.2 shall read as follows:

A detailed construction programme (using computerized critical path network method) in a form which facilitates control of the progress of the works and consequences of any changes in

terms of time. The Contractor shall be capable of transmitting data via electronic media to the Employer in a form readily compatible with the Employer's planning system.

The Contractor shall supply a progress report every month to the Employer based on a percentage completion of the individual activities in the construction programme. The report shall also state the progress which has been obtained compared with the planning system.

The first issue of the construction programme including the detailed description of the system and the procedures shall be submitted to the Employer not later than 6 weeks after the date of award of Contract.

105.4 Clause 105.4 stands deleted

106. CONSTRUCTION EQUIPMENT:

Add the following as item (g) of Cl. 106

Adequate stand by equipment shall be provided at site, so that there is no interruption to work due to any reason.

Add the following as item (h) of Cl. 106

All measuring devices and gauges shall be in good working condition. Measuring devices that can affect product quality shall be calibrated prior to use and at prescribed intervals against certified equipment. Calibration procedures shall be established, maintained and documented and corrective actions taken when results are unsatisfactory. Accuracy and fitness of measuring devices shall be ensured by proper maintenance.

107. CONTRACT DRAWING:

107.1 The contract drawings provided for tendering purposes shall be as contained in the tender document and shall be used as a reference.

108. SITE INFORMATION

108.4 Cl 108.4 shall read as follows:

The contractor shall identify source, and other sources of materials required for the work. He shall satisfy himself that required materials are available in adequate quantities and there by satisfy the requirement of specifications. No claims shall be entertained on account of non-availability of materials, and increase in leads.

111. PRECAUTIONS FOR SAFEGUARDING THE ENVIRONMENT

This is the heading of the particular clause of the MORT&H publication and does give the complete scope of work under this tender. Total scope of work is defined in these tender documents.

112. ARRANGEMENT FOR TRAFFIC DURING CONSTRUCTION

This is the heading of the particular clause of the MORT&H publication and does give the complete scope of work under this tender. Total scope of work is defined in these tender documents.

114. SCOPE OF RATES FOR DIFFERENT ITEMS OF WORK

Add the following as clause 114.4

If any work executed by the contractor does not meet the specifications, it shall be deemed as rejected. The Engineer, in his sole discretion, considers a proposal by the contractor to retain the element or part of the structure. The contractor's proposal for temporary works shall be supported by calculations, drawings and other data to prove the soundness of the proposal with respect to the safety and stability of the structure. The contractor's proposal shall clearly describe the additional measures required to ensure the intended performance of the structure. Rate/price for the rehabilitated structure shall be settled mutually between the Engineer and the Contractor and in case of failure to arrive at an agreed rate, the Engineer's decision regarding the rate shall be final and binding.

115. METHODOLOGY AND SEQUENCE OF WORK

The Clause shall read as follows:

Prior to start of the construction activities at site, the contractor shall submit to the Engineer for approval a detailed construction programme. This programme (using computerized critical path method) shall be in a form which facilitates control of works and consequences of any changes in terms of time. The contractor shall be capable of transmitting data via electronic media to the Employer in a form readily compatible with the Employer's planning system. The programme shall cover all the activities listed in Cl. 114.2(ii).

The contractor shall supply a progress report every month to the Employer based on a percentage completion of the individual activities in the construction programme. The report shall also state the progress which has been obtained compared with the planned progress, illustrate delays in the proportion to the progress planned and analyse the consequences and planned corrective measures.

In addition to the contract shall submit methods statements. The methods statement shall be submitted in parts. The General part of the methods statement shall describe the contractor's proposals regarding preliminary works, common facilities, and items which require consideration at the early stage of the contract. The general part shall include information on

(a) Sources of manufactured materials like Structural Steel wherever possible the contractor shall identify at least two sources for the items; he shall also submit samples/test certificates of recently manufactures materials for the consideration of the Engineer.

(b) The general part to the QA programme shall accompany the methods statement. Special parts of the methods statement shall be submitted to the Engineer by the contractor for each important item of work as directed by the Engineer. These statements shall be submitted at

least 4 weeks in advance of the commencement of the activity or item of work. The statement shall give information on

- (i) Details of personnel both the execution and quality control of the work.
- (ii) Equipment deployment with details of number of units, capacity, standby arrangements.
- (c) Testing and acceptance procedures.
- (d) Special part of the QA Programme referred in clause 105.3 for the particular item of work shall be submitted along with the methods statement for the concerned activity.
- (e) Engineer shall examine and approve the methods statement or direct the contractor to resubmit the statement with required modifications. The modified statement shall be submitted within 14 days of receipt of Engineer's comments.

The sole responsibility for the safety and adequacy of the methods adopted by the contract shall rest on the contractor irrespective of any approval given by the Engineer.

117. APPROVAL OF MATERIALS

Approval of all sources of material for work shall be obtained in writing from the Engineer before their use on the project.

SECTION - 6

FORM OF BID

(May be submitted as Financial Bid)

FORM OF BID

Description of the Works: **Construction of Bailey Bridge over Kithu river between Thakiye village (Zunheboto) and Shishimi (Kiphire)” span 70 feet (21.34m) under Setu Bandhan Scheme of Central Road and Infrastructure Fund (CRIF) in the State of Nagaland.**

To : _____

Address : _____

1. We offer to execute the Works described above and remedy any defects therein in conformity with the conditions of Contract, specification, drawings, Bill of Quantities and Addenda for the sum(s) of

(_____)

2. We undertake, if our Bid is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the document.
3. We agree to abide by this Bid for the period of* days from the date fixed for receiving the same, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
4. Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.
6. We accept the appointment of Shri _____ as the Dispute Review Expert.

(OR)

We do not accept the appointment of Shri _____ as the Dispute Review Expert and propose instead that Shri _____ be appointed as Dispute Review Expert, whose BIO-DATA is attached.

Dated this _____ day of _____ 20.....

Signature _____ in the capacity of _____ duly
authorized to sign bids for and on behalf of _____

(in block capitals or typed)

Address

Witness

Address

Occupation

SECTION - 7

BILL OF QUANTITIES

BILL OF QUANTITIES

Preamble

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Technical Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of ordered and carryout out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tendered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
3. The rates and prices tendered in the Priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all the general risks, liabilities and obligations set out or implied in the Contract.
4. The rates and prices shall be quoted entirely in Indian Currency.
5. A rate or price shall be entered against each item in the Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
6. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no Items are provided the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
7. General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. References to be relevant sections of the contract documentation shall be made before entering rates or prices against each item in the Bill of Quantities.
8. The method of measurement of completed work for payment shall be in accordance with the specification for Road and Bridge Works published by the Ministry of Surface Transport (edition).
9. Errors will be corrected by the Employer for any arithmetic errors pursuant to Clause 29 of the Instructions to Bidders.
10. Rock is defined as all materials which, in the opinion of the Engineer, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for its removal, and which cannot be extracted by ripping with a tractor of at least 150 kw with a single rear mounted heavy duty ripper.

Sl. No.	Description of item (with brief specification and reference to Book of specification)	Quantity	Unit	Rate		Amount
				In figures	In words	

Note:

- (1) Item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities (refer: ITB Clause 13.2 and GCC Clause 43.3).
- (2) Unit rates and prices shall be quoted by the bidder in Indian rupee [ITB Clause 14.1].
- (3) Where there is a discrepancy between the rate in figures and words, the rates in words will govern. [ITB Clause 27.1(a)]
- (4) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by quantity, the unit rate quoted shall govern [ITB Clause 27.1 (b)].

SECTION - 8

FORM(S)

BID SECURITY (BANK GUARANTEE)

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

DATE _____ SIGNATURE _____

WITNESS _____ SEAL _____

[Signature, name, and address]

* The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Clause 16.1 of the Instructions to Bidders.

** 45 days after the end of the validity period of the Bid. Date should be inserted by the Employer before the Bidding documents are issued.

PERFORMANCE BANK GUARANTEE

To: _____ [name of Employer]
 _____ [address of Employer]

WHEREAS _____ [name and address of Contractor]
 (hereinafter called "the Contractor") 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 Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of _____ [amount of guarantee]*
 _____ [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 Contractor 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 Contractor 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 28 days from the date of expiry of the Defects Liability Period.

Signature and seal of the guarantor _____
 Name of Bank _____
 Address _____
 Date _____

* An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract including additional security for unbalanced Bids, if any and denominated in Indian Rupees.

BANK GUARANTEE FOR ADVANCE PAYMENT

To: _____ [name of Employer]
 _____ [address of Employer]
 _____ [name of Contract]

Gentlemen:

In accordance with the provisions of the Conditions of Contract, sub-clause 51.1 ("Advance Payment") of the above-mentioned Contract, _____ [name and address of Contractor] (hereinafter called "the Contractor") shall deposit with _____ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of _____ [amount of guarantee]* _____ [in words].

We, the _____ [bank or financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____ [name of Employer] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding _____ [amount of guarantee]* _____ [in words].

We further agree that no change or addition to or other modification of the terms of the Contract or of Works to be performed there under or of any of the Contract documents which may be made between _____ [name of Employer] and the Contractor, 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 remain valid and in full effect from the date of the advance payment under the Contract until _____ [name of Employer] receives full repayment of the same amount from the Contractor.

Yours truly,

Signature _____	and	seal: _____
_____ Name		of
Bank/Financial	Institution: _____	
Address: _____		
Date: _____		

* An amount shall be inserted by the bank or financial institution representing the amount of the Advance Payment, and denominated in Indian Rupees.

INDENTURE FOR SECURED ADVANCES FORM 31

(for use in cases in which the contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time)

This indenture made the _____ day of _____, 20____ BETWEEN _____ (hereinafter called the contractor which expression shall where the context so admits or implies be deemed to include his executors, administrators and assigns) or the one part and the Employer of the other part.

Whereas by an agreement dated _____ (hereinafter called the said agreement) the contractor has agreed.

AND WHEREAS the contractor has applied to the Employer that he may be allowed advanced on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to executive at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges)

AND WHEREAS the Employer has agreed to advance to the Contractor the sum of Rupees _____ on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account bill for the said works signed by the Contractor on _____ and the Employer has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees _____ on or before the execution of these presents paid to the Contractor by the Employer (the receipt where of the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as a for said the Contractor doth hereby covenant and agree with the President and declare as follows:

- (1) That the said sum of Rupees _____ so advanced by the Employer to the Contractor as aforesaid and all or any further sum of sums advanced as aforesaid shall be employed by the Contractor in or towards expending the execution of the said works and for no other purpose whatsoever.
- (2) That the materials details in the said Account of Secured Advances which have been offered to and accepted by the Employer as security are absolutely the Contractor's own propriety and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnified the Employer against all claims to any materials in respect of which an advance has be made to him as aforesaid.
- (3) That the materials detailed in the said account of Secured advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Engineer.

- (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Engineer or any officer authorized by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same required by the Engineer.
- (5) That the said material shall not be any account be removed from the site of the said works except with the written permission of the Engineer or an officer authorized by him or that behalf.
- (6) That the advances shall be repayable in full when or before the Contractor receives payment from the Employer of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the Employer will be at liberty to make a recovery from the contractor's bill for such payment by deducting there from the value of the said materials than actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
- (7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing of the Employer shall immediately on the happening of such default be repayable by the Contractor to be the Employer together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs, charges, damages and expenses incurred by the **Employer** in or for the recover thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the **Employer** to reply and pay the same respectively to him accordingly.
- (8) That the Contractor hereby charges all the said materials with the repayment to the Employer of the said sum of Rupees _____ and any further sum of sums advanced as aforesaid and all costs, charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the power contained therein f and whenever the covenant for payment here-in-before contained shall become enforceable and the money owing shall not be paid in accordance there with the **Employer** may at any time thereafter adopt all or any of the following courses as he may deem best:
 - (a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the contractor in accordance with the provisions in that behalf contained in the said agreement debiting the contractor with the actual cost of effecting such completion and the amount due to the contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the contractor, he is to pay same to the **Employer** on demand.
 - (b) Remove and sell by public auction the seized materials or any part there of and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the **Employer** under these presents and pay over the surplus (if any) to the Contractor.

- (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.
- (9) That except in the event of such default on the part of the contractor as aforesaid interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been here-in-before expressly provided for the same shall be referred to the Employer whose decision shall be final and the provision of the Indian Arbitration Act for the time being in force shall apply to any such reference.

Letter of Acceptance

(Letterhead paper of the Employer)

_____(Date)

To

_____[name and address pf the Contractor]

Dear Sirs,

This is to notify you that your Bid dated _____ for execution of the _____ (name of the contract and identification number, as given in the Instructions to Bidders) for the Contract Price of Rupees figures), as corrected and modified in accordance with the Instructions to Bidder¹ is hereby accepted by our agency.

We accept / do not accept that _____ be appointed as the Adjudicator². You are hereby requested to furnish Performance Security, in the form detailed in Para 34.1 of ITB for an amount equivalent to Rs. _____ within 21 days of the receipt of this letter of acceptance valid up to 28 days from the date of expiry of defects Liability period i.e. up to _____ and sign the contract, failing which action as stated n Para 34.3 of ITB will be taken.

Yours faithfully,

Authorized Signature
Name and title of Signatory
Name of Agency

¹ Delete “corrected and” or “and modified” if only one of these actions applies. Delete as corrected and modified in accordance with the Instructions to Bidders, if corrections or modifications have not been affected.

² To be used only if the Contractor disagrees in his Bid with the Adjudicator proposed by the Employer in the “Instructions to Bidders”.

Issue of Notice to proceed with the work

(Letterhead of the Employer)

_____(Date)

To

_____[name and address of the Contractor]

Dear Sirs,

Pursuant to your furnishing the requisite security as stipulated in ITB Clause 34.1 and signing of the Contract for the construction of _____

_____ at
a Bid Price of Rs. _____.

You are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Yours faithfully,

(Signature, name and title of signatory authorized
to sign on behalf of Employer)

Agreement Form

Agreement

This agreement, made the _____ day of _____ between _____ (name and address of Employer) [hereinafter called "the _____ Employer] and _____ (name and address of contractor) hereinafter called "the Contractor" of the other part.

Whereas the Employer is desirous that the Contractor execute

_____ (name and identification number of Contract) (hereinafter called "the Works") and the Employer has accepted the Bid by the Contractor for the execution and completion of such works and the remedying of any defects therein, at a cost of Rs. _____

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.

2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.

3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:

- i) Letter of Acceptance
- ii) Notice to proceed with the works
- iii) Contractor's Bid
- iv) Conditions of Contract : General and Special
- v) Contract Data
- vi) Additional condition
- vii) Drawings

- viii) Bill of Quantities and
- ix) Any other documents listed in the Contract Data as forming part of the Contract

In witness whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The Common Seal of _____
was hereunto affixed in the presence of:

Signed, Sealed and Delivered by the said _____

in the presence of:

Binding Signature of Employer _____
Binding Signature of Contractor _____

UNDERTAKING

I, the undersigned do hereby undertake that our firm M/s _____ agree to abide by this bid for period ____ days for the date fixed for receiving the same and it shall be binding on us and may be accepted at any time before the expiration of that period.

(Signed by an Authorised Officer of the Firm)

Title of Officer

Name of Firm

DATE

SECTION - 9

DRAWINGS

SECTION - 10

DOCUMENTS TO BE FURNISHED BY

THE BIDDER

BID SECURITY (BANK GUARANTEE)

WHEREAS, _____ [name of Bidder] (hereinafter called "the Bidder") has submitted his Bid dated _____ [date] for the construction of _____ [name of Contract] (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that We _____ [name of bank] of _____ [name of country] having our registered office at _____ (hereinafter called "the Bank") are bound unto _____ [name of Employer] (hereinafter called "the Employer") in the sum of _____* for which payment well and truly to be made to the said Employer the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____, 20____.

THE CONDITIONS of this obligation are:

- (1) If after Bid opening the Bidder withdraws his bid during the period of Bid validity specified in the Form of Bid;

OR

- (2) If the Bidder having been notified of the acceptance of his bid by the Employer during the period of Bid validity:
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders; or
 - (c) does not accept the correction of the Bid Price pursuant to Clause 27;

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

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

DATE _____ SIGNATURE _____

WITNESS _____ SEAL _____

[Signature, name, and address]

* The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Clause 16.1 of the Instructions to Bidders.

** 45 days after the end of the validity period of the Bid. Date should be inserted by the Employer before the Bidding documents are issued.

PERFORMANCE BANK GUARANTEE

To: _____ [name of Employer]

_____ [address of Employer]

WHEREAS _____ [name and address of Contractor]
(hereinafter called "the Contractor") 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 Contractor
shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as
security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you
on behalf of the Contractor, up to a total of _____ [amount of guarantee]*
_____ [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 Contractor
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 Contractor 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 28 days from the date of expiry of the Defects Liability
Period.

Signature and seal of the guarantor _____
Name of Bank _____
Address _____
Date _____

- * An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract including additional security for unbalanced Bids, if any and denominated in Indian Rupees.

BANK GUARANTEE FOR ADVANCE PAYMENT

To: _____ [name of Employer]
 _____ [address of Employer]
 _____ [name of Contract]

Gentlemen:

~~In accordance with the provisions of the Conditions of Contract, sub clause 51.1 ("Advance Payment") of the above-mentioned Contract, _____ [name and address of Contractor] (hereinafter called "the Contractor") shall deposit with _____ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of _____ [amount of guarantee]* _____ [in words].~~

~~We, the _____ [bank or financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____ [name of Employer] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding _____ [amount of guarantee]* _____ [in words].~~

~~We further agree that no change or addition to or other modification of the terms of the Contract or of Works to be performed thereunder or of any of the Contract documents which may be made between _____ [name of Employer] and the Contractor, 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 remain valid and in full effect from the date of the advance payment under the Contract until _____ [name of Employer] receives full repayment of the same amount from the Contractor.~~

Yours truly,

Signature _____ and _____ seal: _____
 _____ Name _____ of
 Bank/Financial _____ Institution: _____
 Address: _____
 Date: _____

* _____
 An amount shall be inserted by the bank or financial institution representing the amount of the Advance Payment, and denominated in Indian Rupees.

~~INDENTURE FOR SECURED ADVANCES~~
~~FORM 31~~

~~(for use in cases in which the contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time)~~

~~This indenture made the _____ day of _____, 20____ BETWEEN _____ (hereinafter called the contractor which expression shall where the context so admits or implies be deemed to include his executors, administrators and assigns) or the one part and the Employer of the other part.~~

~~Whereas by an agreement dated _____ (hereinafter called the said agreement) the contractor has agreed:~~

~~AND WHEREAS the contractor has applied to the Employer that he may be allowed advanced on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to executive at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges)~~

~~AND WHEREAS the Employer has agreed to advance to the Contractor the sum of Rupees _____ on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account bill for the said works signed by the Contractor on _____ and the Employer has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.~~

~~Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees _____ on or before the execution of these presents paid to the Contractor by the Employer (the receipt where of the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as a for said the Contractor doth hereby covenant and agree with the President and declare as follows:~~

- ~~(1) That the said sum of Rupees _____ so advanced by the Employer to the Contractor as aforesaid and all or any further sum of sums advanced as aforesaid shall be employed by the Contractor in or towards expending the execution of the said works and for no other purpose whatsoever.~~
- ~~(2) That the materials details in the said Account of Secured Advances which have been offered to and accepted by the Employer as security are absolutely the Contractor's own propriety and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnified the Employer against all claims to any materials in respect of which an advance has be made to him as aforesaid.~~

- (3) — That the materials detailed in the said account of Secured advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Engineer.
- (4) — That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Engineer or any officer authorized by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same required by the Engineer.
- (5) — That the said material shall not be any account be removed from the site of the said works except with the written permission of the Engineer or an officer authorized by him or that behalf.
- (6) — That the advances shall be repayable in full when or before the Contractor receives payment from the Employer of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the Employer will be at liberty to make a recovery from the contractor's bill for such payment by deducting there from the value of the said materials than actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
- (7) — That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing of the Employer shall immediately on the happening of such default be repayable by the Contractor to be the Employer together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs, charges, damages and expenses incurred by the **Employer** in or for the recover thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the **Employer** to reply and pay the same respectively to him accordingly.
- (8) — That the Contractor hereby charges all the said materials with the repayment to the Employer of the said sum of Rupees ___ and any further sum of sums advanced as aforesaid and all costs, charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the power contained therein f and whenever the covenant for payment here in before contained shall become enforceable and the money owing shall not be paid in accordance

there with the **Employer** may at any time thereafter adopt all or any of the following courses as he may deem best:

- (a) — ~~Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the contractor in accordance with the provisions in that behalf contained in the said agreement debiting the contractor with the actual cost of effecting such completion and the amount due to the contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the contractor, he is to pay same to the **Employer** on demand.~~
- (b) — ~~Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the **Employer** under these presents and pay over the surplus (if any) to the Contractor.~~
- (c) — ~~Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.~~
- (9) — ~~That except in the event of such default on the part of the contractor as aforesaid interest on the said advance shall not be payable.~~
- (10) — ~~That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been here in before expressly provided for the same shall be referred to the Employer whose decision shall be final and the provision of the Indian Arbitration Act for the time being in force shall apply to any such reference.~~

Letter of Acceptance

(Letterhead paper of the Employer)

_____(Date)

To

_____[name and address pf the Contractor]

Dear Sirs,

This is to notify you that your Bid dated _____ for execution of the _____ (name of the contract and identification number, as given in the Instructions to Bidders) for the Contract Price of Rupees figures), as corrected and modified in accordance with the Instructions to Bidder¹ is hereby accepted by our agency.

We accept / do not accept that _____ be appointed as the Adjudicator². You are hereby requested to furnish Performance Security, in the form detailed in Para 34.1 of ITB for an amount equivalent to Rs. _____ within 21 days of the receipt of this letter of acceptance valid up to 28 days from the date of expiry of defects Liability period i.e. up to _____ and sign the contract, failing which action as stated n Para 34.3 of ITB will be taken.

Yours faithfully,

Authorized Signature
Name and title of Signatory
Name of Agency

¹ Delete “corrected and” or “and modified” if only one of these actions applies. Delete as corrected and modified in accordance with the Instructions to Bidders, if corrections or modifications have not been affected.

² To be used only if the Contractor disagrees in his Bid with the Adjudicator proposed by the Employer in the “Instructions to Bidders”.

Issue of Notice to proceed with the work

(Letterhead of the Employer)

_____(Date)

To

_____[name and address of the Contractor]

Dear Sirs,

Pursuant to your furnishing the requisite security as stipulated in ITB Clause 34.1 and signing of the Contract for the construction of _____

_____ at
a Bid Price of Rs. _____.

You are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Yours faithfully,

(Signature, name and title of signatory authorized
to sign on behalf of Employer)

Agreement Form**Agreement**

This agreement, made the _____ day of _____ between _____ (name and address of Employer) [hereinafter called "the Employer] and _____ (name and address of contractor) hereinafter called "the Contractor" of the other part.

Whereas the Employer is desirous that the Contractor execute

_____ (name and identification number of Contract) (hereinafter called "the Works") and the Employer has accepted the Bid by the Contractor for the execution and completion of such works and the remedying of any defects therein, at a cost of Rs. _____

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - i) Letter of Acceptance
 - ii) Notice to proceed with the works
 - iii) Contractor's Bid
 - iv) Conditions of Contract : General and Special
 - v) Contract Data
 - v) Additional condition
 - vi) Drawings

- vii) Bill of Quantities and
- viii) Any other documents listed in the Contract Data as forming part of the Contract

In witness whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The Common Seal of _____
was hereunto affixed in the presence of:

Signed, Sealed and Delivered by the said _____

in the presence of:

Binding Signature of Employer _____
Binding Signature of Contractor _____

UNDERTAKING

I, the undersigned do hereby undertake that our firm M/s _____ agree to abide by this bid for period days for the date fixed for receiving the same and it shall be binding on us and may be accepted at any time before the expiration of that period.

(Signed by an Authorised Officer of the Firm)

Title of Officer

Name of Firm

DATE