



NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

(MINISTRY OF ROAD TRANSPORT & HIGHWAYS)

GOVT. OF INDIA

NATIONAL COMPETITIVE BIDDING

(Through E – TENDERING MODE)

Name of Work: “Routine maintenance of Kohima to Nagaland/ Manipur border section of NH-29(Old NH-150) from Km. 0/000 to Km. 120/300 in the State of Nagaland.”

CONTRACT PACKAGE NO: NHIDCL/Nagaland/ Maint./NH -29/2018-19/01

BID DOCUMENT

VOLUME –I

NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT
CORPORATION LIMITED

March 2019

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(SECTION-I)

NOTICE INVITING E-TENDER

(E-TENDERING MODE ONLY)

National Highways & Infrastructure Development Corporation Ltd.

Notice Inviting e-tender

Notice Inviting Tender (National Competitive Bidding)

1. NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED of India (hereinafter called “the Employer”) hereby invites item rate bids on two bid systems through “e-tendering mode” from experienced firms/organizations (hereinafter referred to as the “Bidders”) to bid for the works detailed in the table as mentioned below from the eligible bidders, excluding those firms who have been declared as non-performing by NHIDCL or the firms those are black listed/debarred for specified period by NHIDCL.

SL. No.	Name of Work	Name of NH	Estimated Civil Cost (Rs. InCrore)	Bid Security (Rs. In Lakh)	Average Annual turnover for last 5years (Rs. In Lakhs)	Time of Completion	Eligibility criteria as completed work of similar nature during last 5 years (Rs. In Lakhs)
1	2	3	4	5	6	7	8
1	“Routine maintenance of Kohima to Nagaland/ Manipur border section of NH-29(Old NH-150) from Km. 0/000 to Km. 120/300 in the State of Nagaland.”	29	2.83	5.67	At least 100% of the estimated civil cost.	12 months	1. One similar completed work not less than amount equal to 90% of the estimated cost. (or) 2. Two similar each not less than the equal to 40% of the estimated civil cost.

Cost of Bid documents
Non-Refundable for each contract package

Rs. 5000 /- (through DD in favour of National Highways & Infrastructure Development Corporation Limited)

2. The Scope of Work “**Routine maintenance of Kohima to Nagaland/ Manipur border section of NH-29(Old NH-150) from Km. 0/000 to Km. 120/300 in the State of Nagaland.**” Detailed information regarding the scope of work may be seen in the Bid document.

3. The detailed tender document can be viewed from the website www.nhidcl.com & <https://eprocure.gov.in> from **02.03.2019 1700 Hrs. to 25.03.2019 upto 1400 Hrs.**

4. The Complete Bid Document can be downloaded with effect from **02.03.2019 1700 Hrs.** and will be open upto **25.03.2019 upto 1400Hr** at the NHIDCL e-tendering portal free of cost. To participate for bidding, bidders have to pay non-refundable document fee of **Rs. 5000/-** in the form of DD or Banker’s cheque drawn on any schedule bank in India in favour of “General Manager (P), National Highways & Infrastructure Development Corporation Ltd., B.O. Dimapur (Nagaland), H.No.63 (A), 1st floor, NST Colony, Behind City Tower Building Circular road, Dimapur: 797112, Nagaland, Email – nhidcltmp@outlook.com. The amendments/clarifications to the bid document if any will be hosted on the above website only.

5. The bid should be submitted online in the prescribed format given in the website. No other mode of submission is acceptable. Also no change in format is permissible.

6. The last date of online submission of the bid is **25.03.2019 upto 1400Hrs (as mentioned on the e-portal only) (“Bid Due Date”)**. The Bids would be opened on two stages (A) Technical Bid and (B) Financial Bid. Technical Bid will be opened on 26.03.2019 at 1600 Hrs at National Highways & Infrastructures Development Corporation Limited. **B.O. Dimapur (Nagaland)**, H.No.63 (A), 1st floor, NST Colony, Behind City Tower Building Circular road, Dimapur: 797112, Nagaland, Email: nhidcltmp@outlook.com. Date of opening of Financial Bid will be intimated later. Representatives of the bidders (maximum of two) who choose to attend may attend the online opening of the bids at NHIDCL, Branch Office, Dimapur on the date & time as mentioned above. However, such representatives shall be allowed to attend the opening of the bids only if they produce letter of authority on the letter head of the bidder, at the time of opening of bids as mentioned above.

7. For any clarifications, the following office may be contacted:

**General Manager (P),
B.O. Dimapur (Nagaland)**
H.No.63(A), 1st floor, NST Colony,
Behind City Tower Building Circular road,
Dimapur: 797112, Nagaland
Tel: 03862-248537
Email – nhidcltmp@outlook.com

8. Conditional bids would be rejected.

9. NHIDCL reserves the right to accept/reject any or all the bids without assigning any reasons thereof.

SECTION-(II)

INSTRUCTIONS TO BIDDERS & APPENDIX TO BID

Section II: Instructions to Bidders

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Section II
Instructions to Bidders (ITB)
A. General

1. Scope of Bid

- 1.1 The National Highways & Infrastructure Development Corporation Limited (NHIDCL) herein after called “the Employer” invites bids for the work of **“Routine maintenance of Kohima to Nagaland/ Manipur border section of NH-29(Old NH-150) from Km. 0/000 to Km. 120/300 in the State of Nagaland.”** as defined in this document hereinafter referred to as **“The Works”**. The name and identification number of works is provided in the Notice Inviting Tender.
- 1.2 The successful Bidder will be expected to complete the works by the intended completion date specified in the Contract Data (Part 1: General Conditions of Contract).
- 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 by National Highways & Infrastructure Development Corporation Ltd (NHIDCL).

3. Eligible Bidders

- 3.1 This Invitation for Bids is open to all bidders meeting the qualification requirements prescribed in this document.
- 3.2 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the Central or the State Government.

4. Qualification of the Bidder

- 4.1 Deleted
- 4.2 All bidders shall furnish the following information and documents with their bids in Section-III, Qualification Information.
 - (a) Scanned copies of original documents defining the constitution or legal status, place of registration, and principal place of business; scanned copy of written power of attorney of the signatory of the Bid to commit the Bidder & original copy of written power of attorney to be submitted in the envelop of physical form. (PI refer clause 12.2 of ITB)
 - (b) Scanned copy of total monetary value of civil engineering construction works performed for each of the last three years;

- (c) Scanned copy of experience certificate in works of a similar nature and size for each of the last seven years with certificates from the concerned officer of the rank of Executive Engineer or equivalent;
- (d) Scanned copy of evidence of availability (either owned or leased or rented) of items of construction equipment named in the Appendix to ITB.
- (e) Scanned copy of details of the technical personnel proposed to be employed for the contract having the qualification defined in Appendix to ITB.
- (f) Scanned copy of reports on the financial standing of the Bidder, and a certificate from Chartered Accountant as a proof of turnover for the last five financial years.
- (g) Scanned copy of information regarding any litigation or arbitration during the last five years in which the Bidder is involved, the parties concerned, the disputed amount, and the present status;
- (h) Evidence of access to line(s) of credit and availability of other financial resources facilities (10% of Civil Cost put to tender), certified by the Bankers (Not more than 3 months old).
- (i) Deleted
- (j) Scanned undertaking that the bidder will be able to invest a minimum cash upto 25% of contract value of work, during implementation of work.
- (k) Deleted
- (l) Deleted

4.3 Bids from joint ventures, consortiums, combination or any sort of arrangement between two or more than two entities are not allowed.

4.4 A. To qualify for award of the contract, each bidder in its name should have the following; -

- (a) Achieved an average annual financial turnover (in all classes of civil engineering construction works only) equal to the amount indicated in NIT during last five years ending 31st March of the previous financial year duly certified by Chartered Accountant.

Satisfactorily completed (not less than 90% of Contract Value) as a prime contractor (or as a nominated subcontractor, provided further that all other qualification criteria are satisfied) similar works during last five years ending last day on month previous to the one in which bids are invited, atleast one contract of Highway (Road/ or Bridge Works)/Airport runway of Rs. 113.5 Lakhs (40% approx.. of the value of Contract)

[The “similar work” means construction /maintenance of bituminous road work on National Highways /State Highways/ PMGSY (The base year should be considered as 2018-19).

(Following escalation factor shall be used to bring the value of such completed works at the level of current financial year i.e.' 2018-19).

Year	Multiplying Factor
2018-19	1.00
2017-18	1.10
2016-17	1.21
2015-16	1.33
2014-15	1.46

4.4 B (a) Each bidder must upload the scanned copies of following documents along with the submission of online bidding:

(i) An affidavit on a Stamp Paper, duly attested from the Notary Public, that the information furnished with the bid documents is correct in all respects; and

(ii) Such other certificates as defined in Section- III.

(iii) Failure to submit the certificates /documents as specified above shall make the bid non-responsive.

(b) Each bidder must demonstrate:

(i) Evidence of availability (either owned or leased or rented) of the key equipment for this work as stated in the Appendix to Instruction to Bidder.

(ii) Availability for this work of personnel with qualification & experience as stated in the Appendix to Instruction to Bidder.

4.5 Contractors' experience and resources shall not be taken into account in determining the bidder's compliance with the qualifying criteria.

4.6 Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity is more than the total bid value. The available bid capacity will be calculated as under:

$$\text{Assessed Available Bid capacity} = (A * N * 2 - B)$$

Where,

A = Maximum value of Civil Engineering works executed in any one year during the last five years (escalation factor as specified in this section shall be used to bring the maximum value of civil engineering works to the level of current financial year i.e. 2018-19) taking into account the completed as well as works for which bid is invited)

N = Number of years prescribed for completion of the works for which bid is invited.

B = Value (escalation factor as specified in this section shall be used to bring the value to the level of financial year i.e., 2018-19) of existing commitments and on-going works to be completed during the next 12 Months (period of completion of the works for which bid is invited).

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

- (i) Made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
- (ii) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc. or debarring from NHIDCL/NHAI/MORTH/PWD (Nagaland) work etc.
- (iii) Tempered the bid document in any manner.

5. One Bid per Bidder

5.1 Each Bidder shall submit only one Bid for a particular package. A Bidder who submits more than one Bid for the same package will cause 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 or liable for those costs.

7. Site Visit

7.1 The Bidder, at his own cost, responsibility and risk, is encouraged to visit, examine and familiarize himself with the Site of Works and its surroundings including source of earth, water, road aggregates etc. 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. He may contact the General Manager (Projects) of NHIDCL in this regard.

Section II
Instructions to Bidders (ITB)

B. Bidding Documents (online)

8. Content of Bidding Documents

8.1 The set of bidding documents comprises the documents listed below and addenda (if any) issued in accordance with Clause 10:

Volume- I:-

1. Notice Inviting Tender
2. Instructions to Bidders & Appendix to Bid
3. Qualification Information
4. Forms Bank Guarantee, Agreement & LOA
5. Conditions of Contract & Contract Data
6. Scope of Work
7. Technical Specifications
8. Additional Conditions

Volume - II:-

9. Bill of Quantities; (Should be filled in the prescribed format given in the bid document)

8.2 DELETED

8.3 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms, specifications, bill of quantities, etc. 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. Clarifications on Bid Documents

9.1 A prospective Bidder requiring any clarification on the bid documents may notify the Employer in writing or by cable ("cable" includes facsimile) or through e-tender portal at the Employer's address indicated in the Notice Inviting Tender. The Employer will respond to any request for clarification received earlier than 5 days prior to the deadline for submission of bids. Copies of the Employer's response will be hosted on website or which are required in the opinion of the Employer 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 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 question 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 so as 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 the enquiry) and the responses given will be transmitted without delay on website. Any modifications of the bid documents listed in Clause 8.1, which may become necessary as a result of the pre-bid meeting or which are required in the opinion of the Employer 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 Deleted

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 hosted on NHIDCL e-tendering portal. Bidders are advised to keep them self-updated of all addendums issued on e-tendering portal by daily checking the e-tendering portal and, NHIDCL does not assume any responsibility in case the bidder fails to do so and does not take any action, if required, with respect any relevant addendum.
- 10.3** To give prospective bidders reasonable time to take an addendum into account in preparing their bids, the Employer shall extend, as necessary, the deadline for submission of bids, in accordance with Clause 20.2.

Section II

Instruction to Bidders (ITB)

C. Preparation of Bids

11. Language of Bid

11.1 All documents relating to the Bid shall be in English.

12. Documents Comprising the Bid

12.1 The e-bid submitted by the Bidder shall be in two separate parts:

Part I - This shall be named Technical Bid and shall comprise of information submitted in Section-III.

Part II- It shall be named **Financial Bid** and shall comprise of Priced bill of quantities.

12.2 Document to be submitted in physical form must reach the NHIDCL by [1400Hrs] on Bid Due Date.

Though the scanned copies of following documents is required to be uploaded during submission of e-bid on the e-tendering portal of NHIDCL, As per clause 12.1 above, however, following original document in physical form shall be submitted in a sealed envelope by 1400Hrs on the date of submission of bid and addressed to the addressee given in the NIT duly super scribed "Name of Work, Bid due date and time." Name and address of the bidder should also be indicated on the envelope.

- a) Copy of Acknowledgement for Tender Submission and EMD/Bid Security.
- b) Bid Document Fee.
- c) Deleted
- d) Written Power of Attorney of the signatory (whose digital signature certificate is used during e-tender submission) of the bidder to commit the bid.
- e) Affidavit duly notarized (as per the format provided in Section III).
- f) Original experience certificate or notarized copy of certificate duly signed by authorized signatory.
- g) Undertakings mentioned in Section III (Qualification Information) of this document (duly notarized).

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

Section	Particulars
1	Notice Inviting Tender
2	Instruction to the bidders
3.	Conditions of Contract
4.	Contract Data
5.	Technical Specifications

13. Bid Prices

- 13.1** The Contract shall be for the works as described in Clause 1.1 based on the priced Bill of Quantities submitted by the Bidder.
- 13.2** The bidder shall quote bid prices on appropriate format enclosed as part of tender document on e-tender portal of NHIDCL. The items for which no rate or price is entered by the Bidder will be required to be executed free of cost and shall be deemed covered under the other rates and prices in the Bill of Quantities quoted.
- 13.3** All duties, taxes including GST, royalties and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder.
- 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.

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 payments shall be made in Indian Rupees.

15. Bid Validity

- 15.1** Bids shall remain valid for a period of 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.
- 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 bidder's responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security for a period of the extension, and in compliance with Clause 16 in all respects.

16. Earnest Money / Bid Security/ Forfeiture/ Debarment

- 16.1** The Bidder shall furnish, as part of the Bid, Earnest Money /Bid Security, in the amount as specified in the NIT. (Bank guarantee/ demand draft must be in favour of General Manager (P), National Highways & Infrastructure Development Corporation Ltd., Nagaland) and the BG encashable at Nagaland will only be considered.
- 16.2** **The Earnest Money shall, at the Bidder's option, be in the form of Bank Guarantee /Demand Draft only (the other form will not be acceptable)** of any scheduled commercial bank approved by RBI having a net worth of not less than Rs. 500 crore as per the latest annual report of the bank must be in the name of Employer. In case of

foreign bank (issued by a branch in India) the net worth in respect of the Indian operations shall only be taken into account. It shall be valid for 45 days beyond the validity of the bid. **Any bid having bid security for lesser value and shorter validity period shall be treated as non-responsive.**

A. Bank Guarantee or Demand Draft receipts, in the name of the Employer, from following banks would be accepted:-

- i. State Bank of India or its subsidiaries,
- ii. Any Indian Nationalized Bank
- iii. IDBI / ICICI Bank
- iv. A Foreign Bank (issued by a branch outside India) with a counter guarantee from SBI or its subsidiaries or any Indian Nationalized Bank.
- v. Any Scheduled Commercial Bank approved by RBI having a net worth of not less than Rs. 500 crores as per the latest Annual Report of the Bank. In the case of a Foreign Bank (issued by a branch in India), the net worth in respect of the Indian operations shall only be taken into account.

B. The acceptance of the guarantees shall also be subject to the following conditions:-

- i. The capital adequacy of the Bank shall not be less than the norms prescribed by RBI (presently 9, with effect from 31st March, 2003).
- ii. The bank guarantee issued by a Cooperative Bank shall not be accepted.

16.3 Any bid not accompanied by an acceptable Earnest Money, shall be rejected by the Employer as non-responsive.

16.4 The Earnest Money 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 Earnest Money 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 will be forfeited:

- a) if the Bidder withdraws the Bid after its submission during the period of Bid validity;
- b) if the Bidder does not accept the correction of the bid price, pursuant to Clause 27; or
- c) in the case of a successful Bidder, if the Bidder fails within the specified time limit to
 - i. Sign the Agreement; and/or
 - ii. Furnish the required Performance Security.
 - iii. Does not commence the work within reasonable time of placing of work order.

16.7 Deleted

17. Alternative Proposals by Bidders

17.1 Bidder shall submit offers that fully comply with the requirement of the Bidding Documents. Conditional offer or alternate offer will not be considered further in the process of evaluation and the bid will be declared non-responsive.

18. Format and Signing of Bid

18.1 The Bidder shall submit e-bid comprising of the document as described in clause 12 of the ITB.

18.2 DELETED.

18.3 DELETED.

18.4 The document to be submitted in the physical form along with the demand draft for fees/security shall be typed or written in ink and shall be signed by a person duly authorized to sign on behalf of the bidder. All the pages of the documents as mentioned here shall be signed by the person/persons signing the bid. Document as mentioned here shall contain no overwriting, alternation 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 made by scoring out the cancelled portion, writing the correction and signing and dating it along with the stamp by the person or persons signing the Bid.

Section II
Instruction to Bidders (ITB)

D. Submission of Bids

19. Marking of Bids

19.1 The document to be submitted in physical form as per clause 12.2 of ITB shall be submitted in a sealed Envelope super scribed as “Documents in physical Form” at the top left corner. In case of any discrepancy between documents submitted online and documents submitted in the physical form, the documents submitted in physical form shall prevail over the document submitted through online process.

19.2 DELETED.

19.3 DELETED.

19.4 DELETED.

19.5 DELETED.

20. Deadline for Submission of Bids

20.1 Complete e-Bid to be uploaded on NHIDCL e-tender portal before due date &time. The Envelope containing “Documents in Physical Form” must also be received by the Employer at the address General Manager (Projects), National Highways & Infrastructure Development Corporation Ltd., Dimapur, Nagaland, H.No.63(A), 1st floor, NST Colony, Behind City Tower Building Circular road, Dimapur: 797112,Nagaland Tel: 03862-248537,Email – nhidcltmp@outlook.com not later than the date and time indicated in the NIT. In the event of the specified date for the submission of documents in Physical form being declared a holiday for the Employer, the same will be received up to the specified time on the next working day.

20.2 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.

20.2 NHIDCL assumes no responsibility for inability of a bidder to submit bids through NHIDCL’s e-tendering portal on account of delay in submission at bidder's end. Bidder shall ensure that they submit the bid well before the "Due Date & Time of Bid-Submission". NHIDCL shall not be responsible if bidder is not able to submit the bid on account of failure in network/internet connection or any other technical reason.

21. Late Submission of Document in physical Form.

21.1 Any document in physical form if received by the Employer after the deadline prescribed in Clause 20 will be returned unopened to the Bidder and also the e-bid submitted by such bidder shall not be considered.

22. Modification and Withdrawal of Bids.

22.1 Bidders may modify or withdraw their e-bids as directed on the e-tendering portal, before the Bid Due Date and time as prescribed in Clause 20.

22.2 DELETED.

22.3 No bid may be modified after the deadline for online submission of bids.

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 shall result in the forfeiture of the Bid security pursuant to Clause 16.

22.5 Bidders may modify the prices of their bids before deadline of online submission of bid.

22.6 No Late and delayed bids after Bid Due date/time shall be permitted in e-tendering portal System. Time being displayed on our e-Tendering Portal shall be final and binding on bidder and bids have to be submitted by bidders considering this time only and not the time as per their location/country.

Section II
Instruction to Bidders

E. Bid Opening and Evaluation

23. Bid Opening

Bid opening shall be carried out in two stages. Firstly, 'Technical Bid' of all the bids received (except those received late) shall be opened on the date and time mentioned in Notice Inviting Tender (NIT). 'Financial Bid' of those bidders whose technical bid has been determined to be substantially responsible shall be opened on a subsequent date through online process of e-tendering, which will be notified to such bidders.

- 23.1** The Employer will open the "Technical Bid" of all the bids received (except those received late), in the presence of the bidders /bidders" representatives who choose to attend at the time, date and place specified in the **NIT**. In the event of the specified date for the submission of bids 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** In all cases, the amount of Bid Security, forms and validity shall be announced. Thereafter, the Employer at the opening as the Employer may consider appropriate, will announce the bidders' names and such other details.
- 23.3** The Employer will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Clause 23.1.
- 23.4** (i) The bids accompanied with valid bid security, bid document fee, will be taken up for evaluation with respect to the Information furnished in Part I of the Qualification Information and other bid.
- (ii) As soon as possible, the Evaluation Committee will finalize the list of responsive bidders whose financial bids are eligible for consideration. However, to assist in the examination, evaluation of technical bids, the Employer may at his discretion, ask any bidder for clarification of his bid, however, no additional documents in support of clarification will be entertained.
- 23.5** The Employer shall inform the bidders whose technical bids are found responsive, of the date, time and place of opening of the financial bids. The bidders so informed, or their representative, may attend the meeting of opening of financial bids.
- 23.6** At the time of the opening of the Financial Bid, the names of the bidders whose bids were found responsive in accordance with clause 23.5 will be announced. The financial bids of only these bidders will be opened. The responsive bidders names, the Bid prices, the total amount of each bid, pursuant to clause 22 and such other details as the Employer may consider appropriate will be announced by the Employer at the time of bid opening. Any Bid price, which is not read out and recorded, will not be taken into account in Bid Evaluation.

23.7 The Employer shall prepare the minutes of the opening of the Financial Bids.

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 person not officially concerned with such process until the award to the successful Bidder has been announced. Any attempt 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 Bids and Contacting the Employer

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

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.

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 Clauses 3 and 4 of ITB;
- (b) the required documents in physical form submitted by the bidder as well as the documents uploaded by the bidder are in order; and
- (c) is substantially responsive to the requirements of the Bidding Documents. During the detailed evaluation of the "Financial Bids", the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications etc.

26.2 DELETED.

26.3 DELETED.

27. DELETED.

28. Evaluation and Comparison of Financial Bids

28.1 The Employer will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 26.

28.2 DELETED

28.3 If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer's/Employer'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 33 be increased and an additional performance security of 05 (five) percent of the contract price may be obtained 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.

28.4 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.

29. Price Preference

29.1 There will be no price preference to any bidder

Section II
Instruction to Bidders (ITB)

F. Award of Contract

30. Award Criteria

30.1 Subject to Clause 32, the Employer will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price, provided that such Bidder has been determined to be:

- a) Eligible in accordance with the provision of clause 3, and
- b) Qualified in accordance with the provision of clause 4

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

31.1 Notwithstanding Clause 30, 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.

32. Notification of Award and Signing of Agreement.

32.1 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 Part I *General Conditions of Contract* called the "Letter of Acceptance") will state the sum that the Employer will pay to 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").

32.2. The notification of award (LOA) will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause

32.3. The Agreement will incorporate all agreements between the Employer and the successful Bidder. It will be signed by the Employer and the successful Bidder after the performance security is furnished.

32.4 Upon furnishing by the successful Bidder of the Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful.

33. Performance Security

33.1 Within 15 (Fifteen) days after receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a Performance Security of Five percent of the Contract

Price, valid for the period of 28 days after the expiry of defect liability period of 12(Twelve) months plus additional security for unbalanced Bids in accordance with Clause 28.3 of ITB and sign the contract.

33.2 The performance security shall be either in the form of a Bank Guarantee in the name of the Employer, from a Bank as specified in case of bid security in Appendix to ITB.

33.3 Failure of the successful bidder to comply with the requirement of sub-clause 33.1 shall constitute sufficient ground for cancellation of the award and forfeiture of the bid security.

33.4 The successful bidder to whom 'LOA' has been issued is required to sign the agreement at Employer's office within 10 days of issue of LOA.

34. Advances- Deleted

35. Corrupt or Fraudulent Practices

The Employer will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in computing 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 & Infrastructure Development Corporation Limited/ 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.

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

Appendix to ITB

The Employer should fill out this Appendix to ITB before issuing the bidding documents. The insertions should correspond to the information provided in the Invitation for Bids.	
Instructions to Bidders Clause Reference	
(1.1)	The Employer is the "General Manager (Projects), National Highways & Infrastructure Development Corporation Ltd " Branch Office: Dimapur (Nagaland) H.No.63(A), 1st floor, NST Colony, Behind City Tower Building Circular road, Dimapur: 797112,Nagaland Tel: 03862-248537 Email – nhidcltmp@outlook.com
(1.1)	Routine maintenance of Kohima to Nagaland/ Manipur border section of NH-29(Old NH-150) from Km. 0/000 to Km. 120/300 in the State of Nagaland
(4.4) B) (b) (i)	Any other equipment required for carrying out work as per Ministry's specification.

	<p>Note: The bidder must upload scanned copy of the Documentary evidence in support of his owning/ leased/rented of the above equipment. In case the bidder proposes to hire or take the above equipment on lease, he should along with the lease/rent agreement; attach the proof of ownership of these equipment with the Company/entity from whom the equipment are proposed to be hired on lease/rent. Any conditional evidence of deployment of above equipment or inadequate proof as required for any of the equipment shall make the bid non-responsive and financial bid shall not be opened.</p>			
(4.4. B) (b) (i)	The Key equipments to be deployed on contract work(minimum)			
	Name of the Equipments			Quantity
1	Tipper Truck			4
2	JCB			3
3	Excavator (220) or equivalent with rock breaker attachment			2
4	Motor Grader			1
5	Water tanker			1
N.B: Any other equipment required for carrying out work as per Ministry's specification.				
(4.4) (B) (b) (ii)	The Number of Technical personnel, Qualifications and Experience will be as follows per part of work:The technical Personnel are:			
SI No	Personnel	Qualification	Particular Experience (minimum requirement)	No of Persons
1	Project Engineer	B.E (Civil) or equivalent + 2 years Exp.		1
2	Site Engineer	Diploma + 4 years Exp.		2
			Total	3
	<p>Note: The detailed signed and scanned CV's of the Key Technical Personnel at SI No 1, signed by the key personnel himself, and must be uploaded along with the bid. The name and educational qualification of other personnel should be given. Noncompliance of the above or non-furnishing of the CV as above or conditional deployment of any of the above personnel or proposal to employ lesser number of personnel than above shall make the bid non responsive and financial bid shall not be opened.</p>			
(7.1)	<p>The contact person is: General Manager (Projects) NHIDCL, Branch Office: Dimapur (Nagaland) H.No.63(A), 1st floor, NST Colony, Behind City Tower Building Circular road, Dimapur: 797112,Nagaland Tel: 03862-248537, Email – nhidclmp@outlook.com</p>			
(16.1)	<p>The amount of Bid Security for the package shall be as per package given in NIT and must be in favour of “National Highways &Infrastructure Development Corporation Ltd.”</p>			
(16.1 & 33.2)	<p>The bid security shall be in favour of the Employer and may be in one of the following forms: a) Demand Draft from any scheduled Indian Bank or a foreign Bank</p>			

	<p>located in India and approved by the Reserve Bank of India (RBI).</p> <p>b) Fixed Deposit Receipt, a certificate cheque or an irrevocable letter of credit, issued by any Scheduled Indian Bank or a foreign Bank approved by the Reserve Bank of India.</p> <p>c) Bank Guarantee issued by the following banks</p> <p>(i) State Bank of India or its subsidiaries</p> <p>(ii) Any Indian Nationalized Bank</p> <p>(iii) IDBI/ICICI Bank</p> <p>(iv) A foreign Bank (issued by a branch outside India) with a counter guarantee from SBI or its subsidiaries or any Indian Nationalized Banks</p> <p>(v) Export Import Bank Of India</p> <p>(vi) Any RBI approved scheduled commercial bank having net worth of more than Rs 500 Crore as per latest Annual Report of the bank. In the case of a foreign Bank (issued by a branch in India), the net worth in respect of the Indian operation shall only be taken into account and acceptable to Employer.</p> <p>The acceptance of the Guarantee shall also be subject to the following conditions</p> <p>(i) The capital adequacy of the Bank shall not be less than norms prescribed by RBI (presently 9, with effect from 31st March 2003,10)</p> <p>(ii) The bank guarantee issued by a cooperative Bank shall not be accepted.</p>
(20.1)	<p>The Employer's address for the purpose of Bid submission is</p> <p>General Manager (P), B.O. Dimapur (Nagaland), H.No.63(A), 1st floor, NST Colony, Behind City Tower Building Circular road, Dimapur: 797112,Nagaland Tel: 03862-248537, Email – nhidcltmp@outlook.com</p>
(12.2 & 20.1)	<p>The deadline for submission of documents in physical form:</p> <p>Date:02/03/2019 Time: upto1400Hrs</p>
(20.1)	<p>The deadline for online submission of e-bid:</p> <p>Date:25/03/2019 Time: upto1400Hrs</p>
(23.1)	<p>The date, time and place for opening of the Technical Bids are:</p> <p>(A) Technical Bid Date:26/03/2018 Time: 1600Hrs, Place: B.O. Dimapur (Nagaland), H.No.63(A), 1st floor, NST Colony, Behind City Tower Building Circular road, Dimapur: 797112,Nagaland Tel: 03862-248537, Email – nhidcltmp@outlook.com</p> <p>(B) Financial Bid (For qualified bidder as) To be intimated later</p>

SECTION III

QUALIFICATION INFORMATION

The information to be filled in by the Bidder in this section & document submitted in physical form will be used for the purposes of post qualification as provided for in Clause 4 of the Instructions to Bidders. This information will not be incorporated in the Contractor.

Qualification Information

1. For Individual Bidders

1.1 (a) Year of Constitution

(b) Legal status of Bidder (Proprietorship/Partnership or Pvt. Ltd. firm)

[Upload scanned copy of original]

(c) Place of registration:

(d) Principal place of business:

1.2 Power of attorney of signatory of Bid *[Upload scanned copy & also supply Original copy in envelop of physical form]*

1.3. Total value of Civil Engineering construction work performed in the last five years (in Rs. ___ Lakhs) refer ITB Clause 4.4 A (a)

(Upload scanned copies of certificate from Chartered Accountant & also supply original certificate from Chartered Accountant)

2018-2019 _____

2017-2018 _____

2016-2017 _____

2015-2016 _____

2014-2015 _____

Total _____

Average per year

1.4 (a) Work performed as prime contractor, work performed in the past as a nominated sub-contractor provided further that all other qualification criteria are satisfied (in the same name) of a similar nature during the last five years as per ITB Clause 4.4A(b).

Project Name	Name of The Employer*	Description of work	Contract No.	Value of Contract (Rs. Crore)	Date of issue of work order	Stipulated period of completion	Actual date of completion*	Remarks explaining reasons for delay & work Completed
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* Upload certificate(s) from the Employer (to be given by an officer at the rank of Executive Engineer or equivalent & also supply original or certified copy in physical form envelop)

Note: In case of nominated sub-contractor – a certificate from the Executive Engineer or equivalent of the Prime Employer should be obtained from whom an approval for subcontractor has been obtained.

1.4 (b) Information on Bid Capacity (works for which bids have been submitted and accepted and works which are yet to be completed) as on the date 7 days before the last date for bid submission (as per Cl 4.6 of the ITB).

(i) Existing commitments and on-going works (B)

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)	Escalation factor	Anticipated date of completion factor	Escalated value of remaining work during completion on period of work of which bids are invited
1	2	3	4	5	6	7	8	9	10

* Upload certificate (s) from the Engineer(s)-in-Charge of the rank of Executive Engineer or equivalent & also supply original or certified copy of certificate in physical form envelop.

(ii) Details of works for which bid submitted and accepted (i.e. where contract signing is pending)

Description of works	Place & State	Name & Address of Employer	Date of issue of letter of Acceptance (LOA)*	Value given in LOA	Stipulated period for completion	Value of work During completion period of work for which bids are invited
1	2	3	4	5	6	7

* Upload copy of LOA

(iii) Bid Capacity (Bidder shall calculate, mention his bid capacity and enclose the supporting calculation)

A = Rs.lakhs (enclose the details)

N =years

B = Rs.lakhs (enclose the details)

Assessed available bid capacity = $A \times N \times 2 - B$
= Rs. lakhs

1.5. Availability of Key Equipment essential for carrying out the Works [Ref. Clause 4.4(B)(b) (i)]. The Bidder should list all the information requested below.

Item of Equipment	Requirement		Availability Proposals			Page No. of the proof attached
	No	Capacity	Owned/ Leased rented	Nos./ Capacity	Age/ Condition	

Note: The bidder must upload the documentary evidence in support of his owning/leased/ rented of the above equipments. In case the bidder proposes to hire or take the above equipment on lease, he should, along with the lease/rent agreement, attach the proof of ownership of these equipments with the company/ entity from whom the equipments are proposed to be hired on lease/ rent. The bidder shall submit an undertaking as per Performa Appendix 1.7 (ITB, Section -2) of the bid document.

- 1.6 Qualification and Experience of Key Personnel required for administration and execution of the Contract [Ref. Clause 4.4 (B) (b) (ii)]. **Upload biographical data for technical personnel (Refer also to Cl. 4.2 (e) of Instruction to Bidders).**
(Refer also to Sub Clause 9.1 of the Conditions of Contract).

Position	Name	Qualification	Total Professional Experience (Years)	Experience in the proposed position (Years)
Project Manager				
Site Engineer				
Site Engineer				

Note: The detailed and signed CV"s of the Key Technical Personnel at Sl. No. 1, signed by the key personnel he must be uploaded along with the bid. The name and educational qualification of other personnel should be given. Noncompliance of the above or non-furnishing of the CV as above or conditional deployment of any of the above personnel or proposal to employ lesser number of personnel than above shall make the bid non responsive and financial bid shall not be opened.

- 1.7. Information on litigation history in which the Bidder is involved.

Other Party (ies)	Employer	Cause of Dispute	Amount involved	Remarks showing Present Status

2. Bidders should upload the scanned copy of the following affidavits/ undertakings as per formats enclosed hereinafter & also send original copy of Affidavit: -

- (i) Affidavit (it should be on stamp paper attested by Notary Public)
- (ii) Undertaking regarding minimum investment of cash towards working capital.
- (iii) Undertaking that the Bids shall remain valid for the period specified in Clause 15.1.

**SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILIBILTY 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 contractor for the work, namely _____ is 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 enclosed attachments are true and correct.

2. The undersigned also hereby certifies that neither our firm M/s _____ has 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, person, firm or corporation to furnish pertinent information deemed necessary and requested by NHIDCL to verify this statement or regarding my (our) competence and general reputation.

4. The undersigned understands and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the NHIDCL and within the prescribed time.

(Signed by an Authorized Representative of the Firm)

Name of the Representative

Name of Firm

Date

To be notarized by Notary

UNDERTAKING

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

(Signed by an Authorized Representative of the Firm)

Name of the Representative

Name of Firm

DATE

UNDERTAKING

I, the undersigned do hereby undertake that our firm M/s _____ agree to abide by this bid for a period of _____ Days after 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 Authorized Representative of the Firm)

Name of the Representative

Name of Firm

DATE

(On the letter head of the bidder)

Appendix 1.7 [Ref. clause 4.4 B (b) (i)]

Undertaking

I, the undersigned do hereby undertake that our firm M/s..... agree to provide and will deploy required equipment as mentioned in the Appendix to ITB of the work..... further it iscertified that the documents submitted as an evidence of availability of the key equipments for this work as stated in the Appendix to ITB, are genuine and correct. If anything contrary to the details as submitted is found at any stage NHIDCL would be at liberty to debarred/blacklist my firm for an appropriate period as decided by NHIDCL.

(Signed by an Authorized Representative of the Firm)

Name of the Representative

Name of Firm

(Seal of the company)

Date

(SECTION-IV)

FORMS OF BANK GUARANTEES, BANK CERTIFICATE, LETTER OF APPLICATION (LOA) & AGREEMENT.

FORM OF BANK GUARANTEE FOR BID SECURITY

WHEREAS _____ (Name of Tenderer) (hereinafter called the Tenderer) wishes to submit his tender for maintenance work of NH- _____ (from Km. _____ to km. _____) in the state/s of _____ herein after called "the Tender" KNOW ALL MEN by these present that we _____ (Name of Bank) of _____ (Name of country) having our registered office at (_____) (hereinafter called the „Baňkare bound unto the National Highways & Infrastructure Development Corporation Ltd. (hereinafter called "the Employer") in the sum of the Rs. _____ (Rupees _____) *for which payment can truly be made to the said Employer. The Bank bind themselves, their successors and assigns by these present with the common seal of the Bank this day _____ of _____ and undertake to pay the amount of _____ Rs. _____ to the employer upon receipt of his first written demand without the employer having to substantiate his demand.

The conditions of this obligation are:

(i) If the tenderer withdraws his tender during the period of Tender validity specified in the Form of Tender.

Or

(ii) If the Tenderer having been notified of the acceptance of his Tender by the Employer during the period of tender 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.

We undertake to pay to the Employer upto 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 any one of the above conditions, specifying the occurred condition or conditions.

This guarantee will remain in force upto and including the date 45 days beyond the validity of the bid as stated in the Instructions to Bidders or as it may be extended by the Employer, at any

time prior to the closing date for submission of the Tenders Notice of which extension to the Bank is hereby waived. Any demand in respect of this guarantee should be made on the Bank on or before the date of expiry of this guarantee.

This guarantee shall also be operatable at our Branch at Dimapur, from whom, confirmation regarding the issue of this guarantee or extension/ renewal thereof shall be made available on demand. In the contingency of this guarantee being invoked and payment there under claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.

Notwithstanding anything contained herein before, our liability under this guarantee is restricted to Rs. _____ (Rs. _____ in words) and the guarantee shall remain valid till _____. Unless a claim or a demand in writing is served upon us on or before _____ all our liability under this guarantee shall cease.

Bank Guarantee has been sent to authority's bank through SFMS gateway as per the details below:-

Sl. No.	Particulars	Details
1	Name of Beneficiary	NHIDCL, Dimapur
2	Beneficiary Bank Account No.	79803070005290
3	Beneficiary Bank Branch	Dimapur Branch, Branch Code: 7980 IFSC Code No: SYNB0007980
4	Beneficiary Bank Branch Name	Syndicate Bank
5	Beneficiary Bank Address	Nyamo Lotha Road, Dimapur-797112, Nagaland

SIGNATURE OF AUTHORISED REPRESENTATIVE OF THE BANK _____

NAME AND DESIGNATION _____ EMPLOYEE CODE NUMBER SEAL
OF THE BANK _____

SIGNATURE OF THE WITNESS (IF THIS IS TO BE WITNESSED AS PER BANK'S POLICY)

NAME OF THE WITNESS _____

ADDRESS OF THE WITNESS _____

FORM OF BANK GUARANTEE FOR PERFORMANCE SECURITY

To

National Highways and Infrastructure Development Corporation Ltd.

Branch Office: **Dimapur (Nagaland)**

H.No.63 (A), 1st floor, NST Colony,
Behind City Tower Building Circular road,
Dimapur: 797112, Nagaland

Tel: 03862-248537, Email – nhidcltmp@outlook.com

WHEREAS..... (Name and address of contractor) hereinafter called “the contractor” has undertaken, in pursuance of Letter of Acceptance No.

Dated..... to execute..... (Name of Contract and brief description of Works) (Here in after 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 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 THEREOF we hereby affirm that we are the guarantor and responsible to you on behalf of the Contractor, up to a total of Rs..... (Amount of guarantee) Rupees..... (In words), 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 there under 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.

This guarantee shall also be operatable at our branch at Dimapur, Nagaland, from whom, confirmation regarding the issue of this guarantee or extension/ renewal thereof shall be made available on demand. In the contingency of this guarantee being invoked and payment there under claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.

Notwithstanding anything contained herein before, our liability under this guarantee is restricted to Rs. _____ (Rs. _____ in words) and the guarantee shall remain valid till _____. Unless a claim or a demand in writing is served upon us on or before _____ all our liability under this guarantee shall cease.

Signature and seal of the Guarantor with Name, Designation, Employee Code Number & Telephone Number.....

Name of the Issuing Bank/ BranchName of the Controlling Branch/Bank.....

Address & Telephone Number.....Address & Telephone Number.....

Date.....

In the presence of (if this is to be witnessed as per bank's policy).....

1.....
(Name, Address & Occupation)

2.....
(Name, Address & Occupation)

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

FORM OF LETTER OF APPLICATION

To
General Manager (P),
B.O. Dimapur (Nagaland)
H.No.63(A), 1st floor, NST Colony,
Behind City Tower Building Circular road,
Dimapur: 797112,Nagaland
Tel: 03862-248537, Email – nhidcltmp@outlook.com

DESCRIPTION OF WORKS: Routine maintenance of Kohima to Nagaland/ Manipur border section of NH-29(Old NH-150) from Km. 0/000 to Km. 120/300 in the State of Nagaland

Dear Sir,

Having examined the Bid Document, Instruction to Bidders, Qualification, Information, Scope of works, etc., for the subject work. We, hereby submit our bid for the subject work.

It is certified that the information furnished in this document is true and correct. The proposal is unconditional and unqualified. We undersigned accept that NHIDCL reserves the right to reject any or all application without assigning any reason.

Thanking you,

Yours faithfully,

(Authorized Signatory) for and on behalf of

M/s _____

FORM OF LETTER OF ACCEPTANCE

No.

Dated

To

M/s.....

Sub.: **Name of Work**

Sir,

Based on your bid submitted on in compliance of bidding document of NHIDCL for execution of the work of , it is hereby notified that your bid for a contract price of **Rs**..... (**Rupees in words**.....) has been accepted for and on behalf of NHIDCL

You are hereby requested to furnish Performance Security plus additional security in the form detailed in para. 33.2 of ITB for an amount equivalent to **Rs**..... (**Rupees in words**.....) within 15 days as per provisions of clause 33.1 of ITB of the bid document and sign the contract agreement failing which the actions as stipulated in clause 33.3 of ITB shall be taken.

Thanking you,

Yours faithfully,

(.....)

General Manager (Projects)

FORM OF AGREEMENT

AGREEMENT

This agreement made on the _____ day of _____

2019 _____ between the National Highways & Infrastructure Development Corporation Ltd., Nagaland (hereinafter called "the Employer" of the one part and _____ (here in after called "the Contractor") of the other part.

AND WHEREAS the Employer invited bids from eligible bidders for the execution of certain works, viz.....

AND WHEREAS pursuant to the bid submitted by the Contractor, vide _____ (here in after referred to as the "BID" or "OFFER") for the execution of works, the Employer by his letter of acceptance dated _____ accepted the offer submitted by the Contractor for the execution and completion of such works and remedying of any defects thereon, on terms and conditions in accordance with the documents listed in para 2 below.

AND WHEREAS the Contractor by a deed of undertaking dated _____ has agreed to abide by all the terms of the bid, including but not limited to the amount quoted for the execution of Contract, as stated in the bid, and also to comply with such terms and conditions as may be required from time to time.

AND WHEREAS the contractor has agreed to undertake such works and has furnished a performance security pursuant to clause 33 of the instructions to bidders (Section-I).

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this agreement words and expressions shall have the same meaning as are respectively assigned to them in the conditions of contract hereinafter referred to;
2. The following documents shall be deemed to form and be read and construed as part of this agreement viz.
 - (a) Agreement,
 - (b) Letter of Acceptance
 - (c) Notice to proceed with the works
 - (d) Contractor's Bid,
 - (e) Contract Data,
 - (f) Conditions of Contract
 - (g) Technical Specifications,
 - (h) Drawings, if any
 - (i) Scope of Work
 - (j) Bill of Quantities, and
 - (k) Any other document listed in the Contract Data.

3. The foregoing documents shall be construed as complementary and mutually explanatory one with another. Should any ambiguity or discrepancy be noted then the order of precedence of these documents shall be subject to the order as listed above and interpreted in the above order of priority.
4. 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 respects with the provisions of the contract.
5. the employer hereby covenants to pay the contractor in consideration of the execution and completion of the works and remedying of defects therein, the contract price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS WHEREOF the parties here to have caused this agreement to be executed the day and year above written. Signed, sealed and delivered by the said Employer through his Authorized Representative and the said Contractor through his Power of Attorney holder.

Binding Signature of Employer _____

For and on behalf of National Highways & Infrastructure Development Corporation, New Delhi – 110 001

Binding Signature of Contractor _____

For and on behalf of M/s. _____

In the presence of

1. Name :
Address:

2. Name :
Address:

In the Presence of

1. Name:
Address:

2. Name:
Address:

(SECTION-V)
CONDITIONS OF CONTRACT

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Section V 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.

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

The Completion Date is the date of completion of the Works as certified by the Engineer, in accordance with Clause 13.

The Contract is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in Clause 2.2.

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 upon the online submission of the Bid and subsequent submission of documents to be submitted in the physical form as required under the ITB.

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 Certificate is the certificate issued by Engineer, after the Defect Liability Period has ended and upon correction of Defects by the Contractor.

Defect liability period for work shall be 12 months from the date of completion certificate issued by the Engineer.

The Employer is the party as defined in the Contract Data, who employs the Contractor to carry out the Works. The Employer may delegate any or all of its functions to a person or body nominated by him for specified functions.

The Engineer is the person named in the Contract Data (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Engineer) who is responsible for supervising the execution of the Works and administering the Contract.

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

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 after the approval from Employer.

Materials are all supplies, including consumables, used by the Contractor for incorporation in the Works.

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

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

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 the date within 7 days after the date of issue of Notice to Proceed with the work.

Temporary Works are works designed, constructed, installed and removed from NHIDCL, which varies the works.

A **Variation** is an instruction given by the Engineer after the approval from NHIDCL, which varies the Works.

The **Works** are what the Contract requires the Contractor to construct, install, maintain, and handover 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 these Conditions of Contract.

2.2 The documents forming the Contract shall be interpreted in the following order of priority.

- (a) Agreement,
- (b) Letter of Acceptance
- (c) Contractor's Bid,
- (d) Contract Data,
- (e) Conditions of Contract

- (f) Technical Specifications,
- (g) Drawings, if any

- (h) Implementation Manual
- (i) Scope of Work
- (j) Bill of Quantities, and
- (k) Any other document listed in the Contract Data.

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 Decisions

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, duly informing the Employer, 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 that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.

7. Deleted

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, as referred to in the Contract Data. The Contractor shall 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 technical personnel named in the Contract Data or other technical persons approved by the Engineer. The Engineer will approve any proposed replacement of technical personnel only if their relevant qualifications and experience are substantially equal to or better than those of the personnel stated in the Contract Data. If the personnel stated in the contract data are not deployed on site by the contractor, it will be treated as a breach of contract and action will be taken as per clause 40.2.

9.2 If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or 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 Works 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 to 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 at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of defect liability period for events (a) to (d), 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 to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and
- d) Personal injury or death.

13.2 Insurance 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 Indian Rupees 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 effect 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 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, may rely on any Site Investigation Reports referred to in the Contract Data, supplemented by any other information available to him, before submitting the bid.

15. Queries about the Contract Data

15.1 The General Manager (P), NHIDCL, Dimapur will clarify queries on contract data.

16. Contractor to Construct the Works & do maintenance

16.1 The Contractor shall construct, install and maintain the Works in accordance with the documents forming part of the contract.

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 Programme 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 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. The contractor shall make necessary arrangements for safety of traffic as the road.

19.2 All the construction activities are to be performed on the Highways with heavy traffic. For the safety of road users, and that of labourer working at site, traffic management installations are to be set up by the contractor in accordance with MORT&H clause no. 112. A schematic figure / arrangement showing various components of traffic management installations should be submitted by the contractor to the engineer for his approval.

20. Discoveries

20.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall 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 complete possession of the Site to the Contractor on the date of signing of agreement.

22. Access to the Site

22.1 The Contractor shall allow access to the Site and to any place where work in connection with the Contract is being carried out, or is intended to be carried out to the engineer and any person/persons/agency authorized by:

- a. The Engineer
- b. The Employer

23. Instructions

23.1 The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.

23.2 The Contractor shall permit the Employer 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. Dispute Resolution

24.1.1 Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure set forth in Clause 24.2.

24.1.2 The Parties agree to use their best efforts for resolving all Disputes arising under or in respect of this Agreement promptly, equitably and in good faith, and further agree to

provide each other with reasonable access during normal business hours to all non-privileged records, information and data pertaining to any Dispute.

24.2 Conciliation :In the event of any Dispute between the Parties, either Party may call upon the Authority's Engineer, or such other person as the Parties may mutually agree upon (the "Conciliator") to mediate and assist the Parties in arriving at an amicable settlement thereof. Failing mediation by the Conciliator or without the intervention of the Conciliator, either Party may require such Dispute to be referred to the Chairman of the Authority and the Chairman of the Board of Directors of the Contractor for amicable settlement, and upon such reference, the said persons shall meet no later than 7 (seven) business days from the date of reference to discuss and attempt to amicably resolve the Dispute. If such meeting does not take place within the 7 (seven) business day period or the Dispute is not amicably settled within 15 (fifteen) days of the meeting or the Dispute is not resolved as evidenced by the signing of written terms of settlement within 30 (thirty) days of the notice in writing referred to in Clause 24.1.1 or such longer period as may be mutually agreed by the Parties, either Party may refer the Dispute to arbitration in accordance with the provisions of Clause 25.

25. Arbitration

25.1.1 Any Dispute which is not resolved amicably by conciliation, as provided in Clause 24.2, shall be finally settled by arbitration in accordance with the rules of arbitration of the SOCIETY FOR AFFORDABLE REDRESSAL OF DISPUTES (SAROD).

25.1.2 Deleted.

25.1.3 The arbitrators shall make a reasoned award (the "Award"). Any Award made in any arbitration held pursuant to this Article 25 shall be final and binding on the Parties as from the date it is made, and the Contractor and the Authority agree and undertake to carry out such Award without delay.

25.1.4 The Contractor and the Authority agree that an Award may be enforced against the Contractor and/or the Authority, as the case may be, and their respective assets wherever situated.

25.1.5 This Agreement and the rights and obligations of the Parties shall remain in full force and effect, pending the Award in any arbitration proceedings hereunder.

25.1.6 In the event the Party against whom the Award has been granted challenges the Award for any reason in a court of law, it shall make an interim payment to the other Party for an amount equal to 75% (seventy five per cent) of the Award, pending final settlement of the Dispute. The aforesaid amount shall be paid forthwith upon furnishing an irrevocable Bank Guarantee for a sum equal to 120 % (one hundred and twenty per cent) of the aforesaid amount. Upon final settlement of the Dispute, the aforesaid interim payment shall be adjusted and any balance amount due to be paid or returned, as the case may be, shall be paid or returned with interest calculated at the rate of 10% (ten per cent) per

annum from the date of interim payment to the date of final settlement of such balance.

25.2 Adjudication by Regulatory Authority, Tribunal or Commission

In the event of constitution of a statutory regulatory authority, tribunal or commission, as the case may be, with powers to adjudicate upon disputes between the Contractor and the Authority, all Disputes arising after such constitution shall, instead of reference to arbitration under Clause 25, be adjudicated upon by such regulatory authority, tribunal or commission in accordance with the Applicable Law and all references to Dispute Resolution Procedure shall be construed accordingly. For the avoidance of doubt, the Parties hereto agree that the adjudication hereunder shall not be final and binding until an appeal against such adjudication has been decided by an appellate tribunal or court of competent jurisdiction, as the case may be, or no such appeal has been preferred within the time specified in the Applicable Law.

26. Deleted

B. Time Control

27. Programme

27.1 The Engineer shall issue the indent of works in stages specifying the time limit for the same as and when required. The contractor shall submit to the Engineer for approval a programme with in the time stipulated in the contract data showing the general methods, arrangements, order, and timing for all the activities in the works, along with monthly cash flow forecasts.

27.3 An update of the Programme shall be a programme 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 sequences of the activities.

27.4 The contractor shall submit to the engineer, for approval, an updated programme at intervals no longer than the period stated in the Contract Data. If the contractor does not submit an updated programme 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 programme has been submitted.

27.5 The Engineer's approval of the programme shall not alter the Contractors obligations. The contractor may revise the programme and submit it to the engineer again at any time. A revised programme is to show the effect of variations and compensation events.

28. Extension of the Intended Completion Date

28.1 The Engineer shall extend the Completion Date in case full justification exists, only after the approval of NHIDCL, 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 Works, which would cause the Contractor to incur additional cost. No price variation will be payable during the extended period.

- 28.2** The Engineer shall decide whether and by how much time to extend the Intended Completion Date within 21 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 cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Indented Completion Date.

29. Delays Ordered by the Engineer

- 29.1** The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works. Delay/delays totaling more than 30 days will require prior written approval of the Employer.

30. Management Meetings

- 30.1** The Engineer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the plans for the Works.
- 30.2** The Engineer shall record the business of management meetings and provide copies of the record to those attending the meeting. The responsibility of the parties for actions to be taken shall be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all those who attended the meeting.

C. Quality Control

31. Identifying Defects

- 31.1** 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.

32. Tests

- 32.1** The contractor shall be solely responsible for:
- a. Carrying out the mandatory tests prescribed in the documents forming part of contract.
 - b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.
- 32.2** 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.

32.3 Subject to further condition in contract data

33. Correction of Defects noticed during the Defect Liability Period.

33.1 It is the terms of contract that Short Term Improvement and Maintenance of road shall be of very high standard, requiring no major repairs for at least Twenty four (24) months after the date of completion of works.

33.2 If any defects including shrinkage, cracks and other faults appear in the work within Twenty four months of "Taking over" certificate, 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 for Twenty four months thereafter. The Defects Liability shall be extended for as long as defects remain to be corrected.

33.3 Every time notice of a defect is given, the Contractor shall correct the notified defect at his own cost within the length of time specified by the Engineer's notice. If the contractor is in default the Engineer shall cause the same to be made good by other workmen and deduct the expenses from any sums that may be due to the contractor.

34. Uncorrected Defects

34.1 If the Contractor has not corrected a Defect/ completed the work, to the satisfaction of the Engineer, within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected/completed, and the Contractor will pay this amount.

D. Cost Control

35. Bill of Quantities

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

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

35.3 Changes in the Quantities

35.3.1 Deleted

35.3.2 Deleted

35.3.3 Deleted

36. Variations

36.1 The Engineer shall, having regard to the scope of the Works and the sanctioned

estimated cost, have power to order only after approval from NHIDCL /as per NHIDCL guidelines, in writing, Variations within the scope of the Works he considers necessary or advisable during the progress of the Works. Such Variations shall form part of the Contract and the Contractor shall carry them out and include them in updated Programmes produced by the Contractor. Oral orders of the Engineer for Variations, unless followed by written confirmation, shall not be taken into account.

37. Payments for Variations

- 37.1 If rates for Variation items are specified in the Bill of Quantities, the Contractor shall carry out such work at the same rate. This shall apply for Variations only up to the limit prescribed in the Clause 35. If the Variation exceeds this limit, the rate shall be derived under the provisions of clause 37.2 and 37.3 for quantities (higher) exceeding the deviation limit.
- 37.2 If the rates for Variation are not specified in the Bill of Quantities, the Engineer shall derive the rate from similar items in the Bill of Quantities
- 37.3 If the rate for Variation item cannot be determined in the manner specified in Clause 37.1 or 37.2, the Contractor shall, within 14 days of the issue of order of Variation work, inform the Engineer the rate which he proposes to claim, supported by analysis of the rates. The Engineer shall assess the quotation and determine the rate based on prevailing market rates within one month of the submission of the claim by the Contractor and approval from NHIDCL will be taken. As far as possible, the rate analysis shall be based on the standard data book and the current schedule of rates of the district public works division. The decision of the Employer on the rate so determined shall be final and binding on the Contractor.

38. Cash Flow Forecasts

- 38.1 When the Programme is updated, the Contractor shall provide the Engineer with an updated cash flow forecast.

39. Payment Certificates

- 39.1 The Contractor shall submit to the Engineer fortnightly statements of the value of the work executed less the cumulative amount certified previously supported with detailed measurement of the items of work executed.
- 39.2 The Engineer shall check the Contractor's fortnightly statement within 7 days and certify the amount to be paid to the Contractor after taking into account any credit or debit for the month in question.
- 39.3 The value of work executed shall be determined, based on measurements by the Engineer.
- 39.4 The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- 39.5 The value of work executed shall also include the valuation of Variations and

Compensation Events.

- 39.6 The Engineer/ Employer 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.
- 39.7 The final bill shall be submitted by the contractor within 30 days of the actual date of completion of the work; otherwise the Engineers certificate of the measurement and of the total amount payable for work accordingly shall be final and payment made accordingly within a period of sixty days as far as possible.

40. Payments

- 40.1 Payments shall be adjusted for deductions for advance payments (if any), security deposit, other recoveries in terms of the Contract and taxes at source, as applicable under the law. The Employer shall pay the Contractor the amounts Engineer had certified within 15 days of the date of each certificate.
- 40.2 The Authorized Representative of the Employer shall make the payment certified by the Engineer.
- 40.3 Items of the Works for which no rate or price has been entered in the Bill of Quantities, will not be paid for by the Employer and shall be deemed to be covered by other rates and prices in the Contract.

41. Compensation Events

- 41.1 The following shall be Compensation Events unless they are caused by the Contractor:
- a) The Engineer orders a delay or delays exceeding a total of 30 days.
 - b) The effects on the Contractor of any of the Employer's Risks.
- 41.2 If a Compensation Event would prevent the Works being completed before the Intended Completion Date, the Intended Completion Date shall be extended. The Engineer shall decide whether and by how much the Intended Completion Date shall be extended after the approval of the employer.
- 41.3 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/Employer.

42. Taxes & Currencies for payments

- 42.1 The rates quoted by the Contractor shall be deemed to be inclusive of all taxes that the Contractor will have to pay for performance of this contract. The Employer will perform such duties in regard to the deduction of such taxes at sources as per applicable law. All payments shall be made in Indian Rupees.
- 42.2 All payments will be made in Indian Rupees.

43. Price Adjustment - Deleted

43.1. Deleted

43.2. Deleted

44. Security Deposit / Retention Money

44.1 The Employer shall retain security deposit of five percent of the amount from each payment due to the Contractor until Completion of the whole of the Works.

44.2 The security deposit/retention money and the performance security will be released to the Contractor when the Defect Liability period is over, and the Engineer has certified that the Defects, if any, notified by the Engineer to the Contractor before the end of this period have been corrected.

44.3 If the contractor so desires then the Security Deposit/retention money can be released on submission of unconditional Bank Guarantee at the following two stages:-

(a) At a point after the progress of work in financial term (gross value of work done) has reached 50% of the contract amount

(b) After the retention money has been deducted to the full value (5% of the Contract Amount).

45. Liquidated Damages

45.1 The Contractor shall pay liquidated damages to the Employer at the rate or part thereof stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date. 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 shall not affect the Contractor's other liabilities.

45.2 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 in the next payment certificate. The contractor shall not be paid interest on the over payment of liquidated damages.

46. Advance Payment: Deleted

47. Securities

47.1 Subject to further condition in contract data, the Performance Security equal to Five percent of the contract price and 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 the form given in the Contract Data and by a prescribed bank. The Performance Security shall be valid until a date 28 days after the expiry of Defect Liability Period and the additional performance security for unbalanced bids shall be valid until a date 28 days from the date of issue of the certificate of completion. The

validity shall account for additional 3 months time to account for BG verification, signing of contract and start date.

48. Cost of Repairs

- 48.1** Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Liability Period shall be remedied/ rectified by the Contractor at their cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

49. Completion

- 49.1** 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 Works is completed.

50. Taking Over

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

51. Final Account

- 51.1** The Contractor shall supply to the Engineer with 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 Defects 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.

52. Operating and Maintenance Manual

- 52.1** If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them within 28 days from date of issue of certificate of completion.
- 52.2** If the Contractor does not supply the Drawings and/or manuals by the stipulated date or they do not receive the Engineer's approval, the Engineer shall withhold the amount equal to Rs. 5 lakhs from payments due to the Contractor.

53. Termination

- 53.1** The Employer may terminate the Contract if the Contractor causes a fundamental breach of the Contract.

53.2 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 Programme and the stoppage has not been authorized by the Engineer;
- b) The Contractor is declared as bankrupt or goes into liquidation other than for approved reconstitution or amalgamation;
- c) The Engineer/Employer 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;
- d) The Contractor does not maintain a Security, which is required;
- e) The Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in clause 45;
- f) The Contractor fails to provide insurance cover as required under clause 13;
- g) If the Contractor, in the judgment of the Employer, has engaged in the corrupt or fraudulent practice in competing for or in executing the Contract. For the purpose of this clause, "corrupt practice" means 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 Employer and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid process at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.
- h) If the Contractor has not completed at least thirty percent of the value of Work required to be completed after half of the completion period has elapsed;
- i) If the Contractor fails to set up a field laboratory with the prescribed equipment, within the period specified; and
- j) Any other fundamental breach as specified in the Contract Data.

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

53.4 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 but in no case later than 7 days.

54. Payment upon Termination

54.1 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 and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of 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.

- 54.2 Save and except Cl. 35.3.3, if the Contract is terminated at the Employer's convenience, 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 outstanding on 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.

In case of termination on account of award of 2 laning work stated in Cl. 35.3.3, the Engineer shall issue a certificate for the value of work done till termination, less advance payments outstanding, less other recoveries due in terms of contract and less taxes due to be deducted at source as per applicable law.

55. Property

- 55.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer for use for completing balance work if the Contract is terminated because of the Contractor's default.

56. Release from Performance

- 56.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of 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 a commitment was made.

F. Other Conditions of Contract

57. Labour

- 57.1 The Contractor shall, make arrangements of his own cost and expenses for the engagement of all staff and labour, local or others; for their payment, housing, feeding and transport; and for compliance with various labour laws/ regulations.
- 57.2 The Contractor shall, as asked 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.

58. Applicable Laws & Regulations

- 58.1 The Contractor shall comply with all Applicable Laws and Applicable Permits (including renewals as required) in the performance of its obligations under this Agreement.
- 58.2 The Contractor will indemnify, defend, save and hold harmless the Authority and its officers, servants, agents, Government Instrumentalities and Government owned and/or controlled entities/enterprises, (the "Authority Indemnified Persons ") against any and all suits, proceedings, actions, demands and third party claims for any loss, damage, cost and expense of whatever kind and nature, whether arising out of any breach by the

Contractor of any of its obligations under this Agreement or from any negligence under the Agreement, including any errors or deficiencies in the design documents, or tort or on any other ground whatsoever, except to the extent that any such suits, proceedings, actions, demands and claims have arisen due to any negligent act or omission, or breach or default of this Agreement on the part of the Authority Indemnified Persons.

- 58.3 Without limiting the generality of Clause 58.2, the Contractor shall fully indemnify, hold harmless and defend the Authority and the Authority Indemnified Persons from and against any and all loss and/or damages arising out of or with respect to:
- (a) failure of the Contractor to comply with Applicable Laws and Applicable Permits;
 - (b) payment of taxes required to be made by the Contractor in respect of the income or other taxes of the Sub-contractors, suppliers and representatives; or
 - (c) non-payment of amounts due as a result of Materials or services furnished to the Contractor or any of its Sub-contractors which are payable by the Contractor or any of its Sub-contractors.

59. Drawings and Photographs of the Works

- 59.1 The contractor shall do photography/videography of the site firstly before the start of the work, secondly mid-way in the execution of different stages of work and lastly after the completion of the work. No separate payment will be made to the contractor for this.
- 59.2 The Contractor shall not disclose details of Drawings furnished to him and works on which he is engaged without the prior approval of the Engineer in writing. No photograph of the works or any part thereof or plant employed thereon, except those permitted under clause 59.1, shall be taken or permitted to be taken by the Contractor or by any of his employees or any employees of his sub-Contractors without the prior approval of the Engineer in writing. No photographs/ Videography shall be published or otherwise circulated without the approval of the Engineer in writing.

60. Deleted

CONTRACT DATA TO GENERAL CONDITIONS OF CONTRACT

SI No.	Items marked “N/A” do not apply in this Contract.	Clause Reference
1	The Employer is :- Managing Director, NHIDCL Address: 3 rd Floor, PTI Building 4 – Parliament Street, New Delhi	[Cl.1.1]
	Name of Authorized Representative:- General Manager (P), B.O. Dimapur (Nagaland) H.No.63(A), 1st floor, NST Colony, Behind City Tower Building Circular road, Dimapur: 797112,Nagaland Tel: 03862-248537 Email – nhidcltmp@outlook.com	
2	The Engineer is: To be intimated later	[Cl.1.1]
3	The Intended Completion Date for the whole work is 12 months from start date.	[Cl 2.2, 17& 28]
4	The Start Date shall be within 7 days after the date of issue of the Notice to proceed with the work.	[Cl.1.1]
5	(a) The law which applies to the contract is the law of Union of India	[Cl 3.1]
	(b) The language of the Contract document is English	[Cl 3.1]
6	The Technical Personnel are as given in the ITB (Section II)	[Cl. 7.1]
7	Amount for insurance are: a) Rupees equivalent to Contract price. b) Rupees equivalent to 5% of Contract price. c) Rupees Equivalent to 5% of contract price. d) Rupees 20 lakhs for multiple incidents.	[Cl. 11.1]
8	(a)Amount of liquidated damages for delay in completion of - 0.1 percent of the Contract value rounded off to the nearest thousand, per day with the minimum of Rs. 1000/- per day.	[Cl. 34.1]
	(b) 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. 34.1]
9	The following documents also form part of the contract: Addendum/Corrigendum/any clarification to the Bid documents.	[Cl. 2.2]
10	The period of submission of the programme for approval of Engineer shall be 7 days from the issue of Letter of Acceptance	[Cl. 27.2]
11	The period between programme updates shall be 15 days	[Cl.27.3]

12	The amount to be withheld for later submission of an updated programme shall be 1% of the value work corresponding to the updated progress.	[Cl. 27]
13	Appointing Authority for the Arbitrator/Presiding Arbitrator – Chairman of the Executive Committee of Indian Road Congress, New Delhi	[Cl. 25]
14	The Key equipments as mentioned in Appendix to bid no. (4.4.B) (b) (i) be deployed on contract work.	

(SECTION – VI)

TECHNICAL SPECIFICATIONS

1. PREAMBLE:

The Technical Specifications contained herein shall be read in conjunction with the other Bidding Documents as specified.

2 GENERAL REQUIREMENTS

The Technical Specifications in accordance with which the entire work described hereinafter shall be executed and completed by the Contractor shall comprise of the following:

2.1. PART – I: GENERAL TECHNICAL SPECIFICATIONS

The General Technical Specifications shall be the “SPECIFICATIONS FOR ROAD AND BRIDGE WORKS” (Fifth REVISION, April 2013) issued by the Ministry of Road

Transport & Highways, Government of India and published by the Indian Roads Congress, hereinafter referred to as MORT&H.

2.2. PART – II: SUPPLEMENTARY TECHNICAL SPECIFICATIONS

The Supplementary Technical Specifications shall comprise of various Amendments/ Modifications/ Additions to the “SPECIFICATIONS FOR ROAD AND BRIDGE WORKS” referred to in PART- I above and Additional Specifications for particular item of works not already covered in Part – I. A particular clause or a part thereof in “SPECIFICATIONS FOR ROAD AND BRIDGE WORKS” (**FIFTH REVISION, April 2013**), referred in Part-I above, where Amended/ Modified/ Added upon and incorporated in Part-II, referred to above, the Amendment/ Modification/ Addition supersedes the relevant clause or part of the clause.

When an Amended/Modified/Added Clause supersedes a Clause or part thereof in the said Specifications, then any reference to the superseded clause shall be deemed to refer to the Amended/Modified/Added Clause or part thereof.

In so far Amended/ Modified/ Added Clause may come in conflict or be inconsistent with any of the provisions of the MOST Specifications under reference, the Amended/ Modified/ Added clause and the additional specifications shall always prevail.

In the absence of any definite provisions on any particular issue in the aforesaid Specifications, reference may be made to the latest codes and specifications of IRC and BIS in that order, Where even these are silent, the construction and completion of the works shall conform to sound engineering practice as approved by the Engineer and, in case of any dispute arising out of the interpretation of the above, the decision of the Engineer shall be final and binding on the Contractor.

2.3. PART – II: AMENDMENTS/MODIFICATIONS/ADDITIONS TO EXISTING CLAUSES OF GENERAL TECHNICAL SPECIFICATIONS (PART- I).

SECTION 100 – GENERAL

Clause 102 Definitions:

The following abbreviation shall be added in this Clause: “MOST” – Ministry of Surface Transport, Govt. of India (Now Ministry of Road Transport and Highways) “NHIDCL” – National Highways & Infrastructure Development Corporation Ltd.

Clause 106 Construction Equipment:

Clause 106 (a) Add the following sentence. “The trial run is to be carried out laying the relevant pavement material and it is not to be part of the Permanent works. The trial is to be carried out on prior approval of Equipment by Engineer-in-Charge.”

Add Sr. No. (g)

“The Contractor shall furnish to the engineer the detailed technical literature and other relevant documents regarding the performance of plant/equipment for approval prior to its purchase or mobilization on site.”

Clause 107 Contract Drawings:

Clause 107.3 Deleted this Sub-Clause entirely.

Clause 108.4 The clause shall be read as follows:

“Identification of quarry sites and borrow areas shall be the responsibility of the Contractor. Materials procured from quarry sites and borrow areas identified by the Contractor and to be used in Works must comply with the requirements of quality as stipulated in the Technical Specifications for particular item of work”. The details of quarry and its test reports of the materials procured from the quarry be intimated to BO-Dimapur before execution the works

Clause 109 Setting Out:

Clause 109.10 Add new sub-clause

“Before carrying out any survey work the Contractor shall submit to the Engineer for the approval a programme and methodology for the calibration of all optical and electronic survey equipment to be Used on site during construction of the works. The Contractor will maintain calibration records for all such equipment in his site office,

Available at all times for inspection by the Engineer.

Clause 110 Public Utilities:

Clause 110.1 Revise the clause as under:

Existing services like water pipes, sewers, oil pipelines, cables, gas ducts etc. owned by various authorities including Public Undertaking and Local Authorities shall be checked and located by the Contractor prior to Commencement of work.

Clause 110.2 Revise the clause as under:

The Contractor's programme must take into account the period of notice and duration of diversionary works of each body as existing at site. The Contractor must also allow for any effect of these services and alterations upon the Works and for arranging regular meetings with the various bodies at the commencement of the Contract and throughout the period of the Works in order to maintain the required co-ordination. During the period of the Works, the contractor shall have no objection if the public utility bodies and their decisions in the execution of their proposal in terms of programme and construction. Provided that, in the opinion of the Engineer, the Contractor has received reasonable notice thereof before the relevant alterations are put in hand.

Clause 111 Precautions for Safeguarding the Environment:

Clause 111.1 General

Add the following after the first paragraph:

The Contractor shall preserve existing trees, plants and other vegetation that are to remain within or adjacent to the works and shall use every precaution necessary to prevent damage or injury thereto. On completion of the Works, all areas disturbed by the Contractor's construction activities shall be restored in their original condition, or as may be acceptable to the Engineer. The cost of this work shall be deemed to be included in the rates generally.

Clause 111.4 Add the following sentence:

"The Contractor is to ensure that there is good drainage at all construction areas, to avoid creation of stagnant water bodies especially in urban/ industrial areas, including water in old water bodies."

Clause 111.6 Substances Hazardous to Health

Add the following after the first paragraph as follows:

“The use of any herbicide or other toxic chemical shall be strictly in accordance with the manufacturer’s instructions. The Engineer shall be given at least 6 working days notice of the proposed use of any herbicide or toxic chemical.

A register of all herbicides and other toxic chemicals delivered to the site, shall be kept and maintained up to date by the contractor. The register shall include a name physical properties and characteristics, chemical ingredients, health and safety hazard information, safe handling and storage procedures, and emergency and first aid procedures for the product.”

Clause 111.9 Add the following sentence at the end of the para.
Vehicles delivering materials to the site shall be covered to avoid spillage of materials on public roads.

Clause 111.12 After the last sentence adds the following:
“The costs of compliance with Clause 111 shall be deemed to be included in the rates for items included in the Bill of Quantities.”

Refer to Clause 114.2 (xv) of MOST Specification.

Clause 111.13 Add new Sub-Clause:
“The Discharge Standards promulgated under the Environment Protection Act, 1986 shall be adhered to strictly. All waste arising from the project is to be disposed of in a manner which is acceptable to the State Pollution Control Board and the Engineer.”

All vehicles and machinery employed in the execution of the works shall be regularly maintained to ensure that pollutant emission levels comply with the relevant requirements of current pollution control legislation. During routine servicing operations, the effectiveness of exhaust silencers must be checked and if found to be defective must be replaced. Notwithstanding this requirement, noise levels from any item of plant must comply with the relevant legislation for levels of sound emission. Non-compliant plant is to be removed from site.

Vehicle maintenance and refueling shall be carried out in such a fashion that spillage of fuels and lubricants do not contaminate the ground or nearby watercourse. An “oil interceptor” shall be provided for wash down and refueling areas. Fuel storage shall in proper bounded areas. All spilt and collected petroleum products shall be disposed of in accordance with

the relevant legislation.

Clause 111.14 Add the following New Sub-Clause:

All temporary accommodation must be constructed and maintained in such a fashion that uncontaminated water is available for drinking, cooking and washing. The sewage system for the camp must be properly designed, built and operated so that no health hazard occurs and no pollution to the air, ground or adjacent watercourses take place compliance with relevant legislation must be strictly adhered to Garbage bins must be provided in the camp and regularly emptied and the garbage disposed of in a hygienic manner. Construction camps are to be sited away from vulnerable people and adequate health care is to be provided for the work force.

Clause 111.15 Add the following New Sub-Clause:

All works are to be carried out in such a fashion that the damage or disruption to the flora and fauna is reduced to a minimum wherever Possible. Trees or shrubs will only be felled or removed that impinge Directly on the permanent works or necessary temporary works, after Seeking approval of the Engineer.

Clause 112 Arrangement for Traffic during Construction:

Clause 112.1 General

Delete the last sentence and add the following:

“The Contractor shall submit, for the Engineer’s approval, Traffic Control Plan 5 days prior to commencement of the temporary / permanent works.”

The plan shall include:

- i. Typical drawings for temporary diversions in accordance with Clause 112.3
- ii. Typical details of arrangements for construction under traffic including details of traffic arrangement after the cessation of work each day. Special consideration shall be given in the preparation of the Traffic Control Plan to the safety of pedestrians and workers at night. Temporary diversions will be constructed only with the approval of the Engineer.

Clause 112.2 Passage of Traffic along a part of the Existing Carriage way under improvement:

Delete this clause replace as follows:

“For strengthening of existing carriage way, where part of the existing carriage way is proposed to be used for passage of traffic & hard shoulder are not available then, treated shoulders shall be provided on the side on which work is not in progress. If the existing shoulder width less than 1.5m the same shall be extended up to 1.5m for earth work duly compacted. The top 15.0cm or as directed by the engineer including extended shoulder of 1.5m width shall be filled up by granular sub base material duly bounded with binding material and compacted. The sub base material shall conform to MoRT&H specification Clause 401, the work of excavation and filling of granular sub-base material so carried out shall be paid under relevant items of bill of quantities. The contractor shall maintain the bypass/diversion during the period of construction by way of watering, compacting, and making good loss of sub-base material after filling up of the rutting/depression etc. by additional quantity of granular sub base material. The items operations like maintenance, making good the loss of material, watering, compacting, leveling and dressing along with additional quantity of sub –base material shall be considered as incidental to the work and no extra payment will be made for these operations. The continuous length in which such works shall be carried out would be within a range of 200 to 500m at a place.

Clause 112.6 Measurements for Payments and Rate

Add “and no extra payment will be made except the treatment of shoulders for earth work and granular sub-base as per Clause 112.2 above.” At the end of first paragraph.

Clause 112.7 Side Roads and Property Accesses

Add new sub Clause:

“At all times, the Contractor shall provide safe and convenient passage for vehicles pedestrians and livestock to and from side roads and property accesses connecting to the roadway. Work which affects the use of side roads and existing accesses shall not be undertaken without providing adequate prior provisions to the satisfaction of the Engineer.”

Clause 112.8 **Plant and Equipment**

Add new sub Clause:

“During the day, plant and equipment working in a position adjacent to traffic and having a projection beyond the normal width of the item, for example, a grader blade shall have a fluorescent red marker attached to the outer end of the projection. During poor light conditions an additional traffic controller with an illuminated red marker shall direct traffic around such plant and equipment. At night, all plant items and similar obstructions shall be removed from the normal path of vehicles, to

provide a lateral clearance of at least 6m where practicable, with a minimum clearance of 1.2m. Plant and equipment, within 6m of the normal path of vehicles, shall be lit by not less than two yellow steady lamps suspended vertically from the point of the obstruction nearest to a traffic lane, and one yellow steady lamps at each end of the obstruction on the side farthest away from the traffic lane.”

Clause 113 General Rules for the Measurement of Works for Payment:

Clause 113.2 Measurements for Lead of Materials

Delete this Clause and replace with:

“The rates in the Bill of Quantities are deemed to include the costs of haulage from source of supply to the site for all materials required for the Works.”

Clause 114 Scope of rates for different items of work:

Add to Clause 114.2 (xvii). Cost of all provisions for executing the work safely including all protective clothing, barriers, earplugs etc.

Clause 115 Methodology and Sequence of Work:

Substitute “28 days” for “30 days” in the 2nd line.

Clause 121 Field Laboratory:

Clause 121.1 Scope

Delete this Clause and replace with:

“The work under this Clause covers the provision and Maintenance of a fully equipped laboratory.” The equipment in the laboratory shall be as decided by Engineer, keeping in view of item of works prescribed in BOQ.

Clause 121.2 Description

Delete this Clause and replace with:

laboratory to the satisfaction of the Engineer. The laboratory will be located at a site approved by the Engineer and must be of adequate size to perform all the tests required under the contract including sufficient light, electric and water supply. The Contractor shall provide working drawings incorporating all the services based on the information given in construction. An office must be provided in the laboratory for the exclusive use of the Engineer's, Materials Engineer, adequate toilet and washing facilities must be provided. The contractor shall provide the field laboratory within one month from the date of the commencement of the work. Prior to this, contractor must make suitable alternative arrangements for the testing of materials, which are acceptable to the Engineer.

Clause 121.3.2 For soils and aggregates

Delete item no. (xi) and (xii)

Clause 121.3.5 Add New Sub-Clause:

For Control of Profile and Surface Evenness

- | | | |
|------|-------------------------------|--------|
| i) | Theodolite | 1 sets |
| ii) | Precision automatic level | 1 sets |
| iii) | Precision staff | 1 sets |
| iv) | Camber templates 2 lane | |
| | a) Crown type cross-section | 1 sets |
| | b) Straight run cross-section | 1 sets |

Steel Tape

- | | | |
|----|-----------|--------|
| a) | 3 m long | 2 sets |
| b) | 5 m long | 2 sets |
| c) | 10 m long | 2 sets |
| d) | 20 m long | 2 sets |
| e) | 30 m long | 2 sets |

Clause 121.3.6 Add New Sub-Clause:

In addition clause 121.3 any equipment which is not mentioned in this clause but which is necessary for the work for complying with the provisions of the contract and Section 900 of MOST specifications or as required by the engineer shall be provided by the contractor. No extra

payment shall be made to the contractor and it will be considered as incidental to the work.

Clause 121.6 Delete this Sub-Clause.

Clause 121.7 Substitute this Sub-Clause by the following:
“There is no separate item in the Bill of Quantities for establishing and maintenance of the laboratory and supply, erection maintenance of equipment and also running cost of testing. The rates quoted by the Contractor shall be deemed to cover the cost of all these items.”

Clause 126: Supply of Video Cassettes

126.1 Description

The work consists of taking video films of important activities of the work as directed by the Engineer during the currency of the project and editing them and converting them to a CD (master CD+ 4 copies) film of playing time not less than 60 minutes and upto 180 minutes as directed by the Engineer. It shall contain narration of the activities in English by competent narrator. The editing of the film and the script for narration shall be as approved by the Engineer. The CD shall be acceptable quality and the film shall be capable of producing colour pictures.

126.2 Measurement for Payment & Rates

No separate payment shall be made and the work shall be treated as incidental.

SECTION CONTROL	300	–	EARTHWORK EROSION AND DRAINAGE
			Excavation for Roadway and Drains
Clause 301			Excavation – General
Clause 301.3.3			Delete the last two sentences of last paragraph. And add, “The earthwork shall be carried out as per the sequences stated in this contract or as directed by engineer-in-charge”.
			Back-filling
			After the last sentence add the following:
Clause 301.3.12			“Density requirements for back filling shall be in accordance with Table 300-2” of MOST.
			Rates
			This Clause is replaced as follows:
Clause 301.9			“The contract unit rate for loosening and re-compacting at sub-grade level shall include full compensation for loosening to the specified depth, removing the loosened soil outside the roadway wherever considered necessary, rolling the surface below, breaking the clods, spreading the excavated soil layers, watering where necessary and compacting to the requirements.”
Clause 301.9.2			Excavation for Structures:
Clause 304			
Clause 304.3.7			Back filling
			Add second paragraph as under:
			“The working space between the structure and the excavation shall be cleared out completely of all construction materials and loose earth that fallen into the excavation during construction. The excavation shall be pumped dry and all saturated and soft earth removed prior to being inspected by the Engineer who will give his permission for the placement of any fill material, provided the space has been properly prepared. Compaction will only be carried out with mechanical compactors of sufficient capacity to ensure correct compaction of the back fill material. The fill is to be brought up in layers not greater than 150 mm. Mass filling of structures with machines will not be permitted and contractors Should make allowance in their rates for the methodology described above.”

Clause 305	Embankment Construction:
Clause 305.2	Material and General Requirements
Clause 305.2.1	Physical Requirements
Clause 305.2.1.2	Amend the first sentence of this Clause as under: “Highly expansive soils such as Ch, MH or OH exhibiting marked swell and shrinkage properties („free swelling index” exceeding 50 per cent when tested as per IS 2720 – Part 40) shall not be used in construction of sub grade and embankment.”
Clause 305.2.1.4	Delete the second and third sentence of Clause 305.2.1.4, i.e., “However, the Engineer may.....Compacted layer thickness.”
Clause 305.2.2.2	Borrow Materials Paragraph 1 of this clause shall read as under: “No borrow area shall be made available by the Employer for this work. The arrangement for the source of supply of the material for embankment and sub grade as well as compliance to the different environmental requirements in respect of excavation and borrow areas as stipulated, from time to time, by the Ministry of Environment and Forest, Government of India and the local bodies, as applicable shall be the sole responsibility of the Contractor.” Paragraph 8 of this Clause given below Table 300-2 shall read as under: “The contractor shall at least 7 working days before commencement of compaction submit the following to the Engineer for approval:
	<ul style="list-style-type: none"> i) The Values of maximum dry density and optimum moisture content obtained in accordance with IS 2720 (Part 8) for each fill material he intends to use. ii) The graphs showing values of density against moisture content from which each of the values in (i) above of the maximum dry density and optimum moisture content were determined. iii) The dry density-moisture content-CBR relationship for each of the fill materials be intends to use in the sub grade.”
Clause 305.3	Construction Operations

- Clause 305.3.4 Compacting ground supporting embankment/subgrade
Delete “where necessary” in the first sentence of the first paragraph.
- Clause 305.3.5.2 In Paragraph 3, delete “IS: 2720 (Part 7) or “and “as the case may be”
- Clause 305.3.6 Compaction
The second paragraph of this Clause shall read as under:
“Only vibratory rollers of not less than 8 – 10 ton static weight with Plain or pad foot drum shall be used for compaction.”
- Clause 305.4 Construction of Embankment and sub-grade under special Condition.
- Clause 305.4.1 Add new para after para 1 as under:
“The earthwork for widening the existing road embankment and shoulders shall be carried out in layers duly compacted. On completion of earth work to the required height the triangular portion on the sloping face of the layers shall be cut in such a manner that the specified slope is achieved. This operation is incidental to work and no extra payment shall be made for this.”
- Clause 305.4.7 Earthwork for high Embankment
Substitute the first paragraph of this clause as under:
“In the case of high embankments, the Contractor shall use the material from the approved borrow area.”
Soil Erosion and Sedimentation Control
- Clause 306.4 Measurement for Payment
Substitute the Clause 306.4 as follows:
“All temporary sedimentation and pollution control works shall be deemed as incidental to the earthwork and other items of work and as such no separate payment shall be made for the same.”
- Clause 306.5 Rate
This Clause is deleted.
- Clause 307 Turfing with sods.
- Clause 307.5 Add “(iii) application of top soil” after (ii). Delete “the contract unit rate for application of top soil shall be as per clause 301.9.5”.
- Clause 309 Surface/Sub-Surface Drains

- Clause 309.2 Surface Drains
- Add at the end of third paragraph:
Metal grates for sumps on concrete lined surface drains shall be heavy duty (trafficable by commercial vehicle) proprietary products with gaps between bars no greater than 26mm. The Contractor shall submit proposals for grating to the Engineer for approval before commencing construction of the sumps.”
- Clause 309.4 Measurement for Payment
- Delete the first sentence and replace with:
“Surface drains not lined shall be included in the items for excavation for the roadway in accordance with Clause – 301.8.”
- Clause 309.5 Rates
- Add at the end of this clause as under:
“The rate for concrete lined drains shall include bedding concrete and jointing. The rate for lined surface drains shall include inlet sumps and metal grates where specified.”
- Add Clause 314 as under:
- Clause 314 Leveling and Dressing over area:
- Clause 314.1 Scope
- The work shall consist of excavation, removal, filling and satisfactory disposal of all materials necessary for the area to be leveled and dressed in line, grades as directed by the Engineer. It shall include cutting and filling the ground in all type of soil where variation of existing ground level is + 30 cm or less. It will also include the grubbing of the existing rank vegetation and clearance of undergrowth completely.
- Clause 314.2 Construction Operation
- The engineer shall identify the area where leveling and dressing is to be carried out. The clearing and grubbing of rank vegetation and Undergrowth shall be carried out as per clause 201.1. If the stagnant water is existing on the side, the same shall be pumped / bailed out. The area shall be kept dry throughout the operation of leveling and dressing. The leveling and dressing shall be carried out by excavating the high area and filling the low area with the excavated material in proper slope. This operation will be carried out manually/mechanically as per site conditions.
- Clause 314.3 Measurements

The measurement shall be made for the area to be leveled and dressed in Sq.m.

Clause 314.4

Rates

The contract unit rates for the items for leveling and dressing shall be payment in full for carrying out the required operations including full compensation for:

1. Cost of all labour, materials, tool, equipment and incidentals to complete the work.
2. Clearing and grubbing the rank vegetation and undergrowth and their disposal within 1000m.
3. Pumping and bailing out of water and keeping the area dry during construction.
4. In all type of soils and saturated earth.

Clause 801

801 TRAFFIC SIGNS

801.1 GENERAL

801.1 The colour, configuration, size and location of all traffic signs for highways (other than Expressways for which the size of the signs, letters and their placement shall be as specified in the drawings and relevant Specifications or as directed by **the** Engineer) and for other roads, shall be in accordance with the Code of Practice for Road Signs, IRC: 67:2010, or as shown on the drawings. In the absence of any details or for any missing details (for example, chevron signs etc.), the signs shall be provided in accordance with international standards and/or as directed by the Engineer.

801.1.2 Unless otherwise specified, the signs shall be reflectorised as shown on the drawings or as directed by the Engineer. They shall be of retro-reflectorised type and made of micro-prismatic type reflective as per IRC: 67:2010.

801.1.3 In general, cautionary and mandatory signs' shall be fabricated through process of screen printing. In regard to informatory signs with inscriptions or cut letters of, coloured retro-reflective sheeting comprising unmetalised micro-prismatic element material as per IRC:67:2010 or durable transparent, coloured overlay film shall be used which must be bonded well on the base sheeting, as directed by the Engineer.

801.2 Materials: The various materials and fabrication of the traffic signs shall conform to the following requirements:

801.2.1 Concrete: Concrete shall be of the grade shown on the Contract drawing or otherwise as directed by the Engineer.

- 801.2.2 Reinforcing steel:** Reinforcing steel shall conform to the requirement of IS: 1786 unless otherwise shown on the drawing.
- 801.2.3 Bolts, nuts, washers:** High strength bolts shall conform to IS: 1367 whereas precision bolts, nuts, etc., shall conform to IS: 1364.
- 801.2.4 Plates and supports:** Plates and support sections for the sign posts shall conform to IS: 226 and IS: 2062 or any other relevant IS Specifications.
- 801.2.5. Substrate:** Sign panels may be fabricated on aluminium sheet, aluminium composite panel, fibre glass sheeting, or sheet moulding compound. Aluminum sheets used for sign boards shall be of smooth, hard and corrosion resistant aluminium alloy conforming to IS:736-Material designation 24345 or 1900. Aluminium Composite Panel and other materials shall meet the relevant ASTM (D903, E8, E393, and E732)/BS/BIS requirements.
- 801.2.6** Shoulder mounted ground signs with a maximum side dimension not exceeding 600mm shall not be less than 1.5 mm thick with Aluminium and 3 mm thick with Aluminium Composite Material. All other signs shall be at least 2 mm thick with Aluminium and 4 mm thick with Aluminium Composite Material. The thickness of the sheet shall be related to the size of the sign and its support and shall be such that it does not bend or deform under prevailing wind and other loads. All overhead signs made with Aluminium Composite Material shall be minimum 4 mm thick to withstand wind and other loads without deformation.
- 801.2.7** In respect of sign sizes not covered by IRC:67: 2010 the structural details (thickness, etc.) shall be as per the approved drawings or as directed by the Engineer.

801.3 Deleted

801. 4. Deleted

801.5. Deleted

SECTION 1000 MATERIALS FOR STRUCTURES:

Clause 1014 Storage of Materials:

Clause 1014.3 Aggregates

The following shall be added at the end of the Clause: “Aggregates shall be stockpiled in a manner that will avoid segregation, contamination by foreign materials and intermixing of various sizes of aggregates.”

SECTION 3002 RESTORATION OF RAIN CUTS:

Clause 3002.4 Amend this as under: “The earth works for restoration of rain cuts shall be measured in cum.”