



Regional Office - Port Blair

**National Highways & Infrastructure Development Corporation Ltd.
(A Government of India Undertaking)**

NATIONAL COMPETITIVE BIDDING (THROUGH E-TENDERING MODE)

Name of the Work: Urgent Road Repair Works along the Habitations and Fatally Damaged Road Sections from Km 107+760 to Km 127+650 on NH-4 in the UT of Andaman & Nicobar Islands at the Risk & Cost of existing EPC Contractor for Package-III on Item rate & work order basis, through Limited Tender in FY2022-23 - 2nd Call

[Contract Package No.: NHIDCL/RO/A&N/FY 2022-23/2nd Call/23]

BID DOCUMENT

VOLUME-I

October 2022

CONTENTS

Volume - I

TITLE	DESCRIPTION
SECTION I	NOTICE INVITING TENDER
SECTION II	INSTRUCTIONS TO BIDDERS & APPENDIX TO BID
SECTION III	QUALIFICATION INFORMATION
SECTION IV	FORM OF BANK GUARANTEE, AGREEMENT & LOA
SECTION V	CONDITIONS OF CONTRACT & CONTRACT DATA
SECTION VI	TECHNICAL SPECIFICATIONS
SECTION VII	ADDITIONAL CONTRACT CONDITIONS

(SECTION-I)
NOTICE INVITING TENDER
(E-TENDERING MODE ONLY)

Regional Office - Port Blair

National Highways & Infrastructure Development Corporation Limited
Notice Inviting e-Tender
(National Competitive bidding through e-Tendering mode only)

NHIDCL/RO/A&N/FY 2022-23/2nd Call/23

Date: **29.10.2022**

1. National Highways and Infrastructure Development Corporation Ltd. (hereinafter called "the Employer") invites sealed bids in single stage two cover system i.e., the Technical and Financial Bids on item rate and work order basis for the following works from the experienced Road/Bridge Contractors/firms/organizations excluding those firms who have been declared as non-performing by MoRTH/NHAI/NHIDCL or the firms those are blacklisted/debarred for specified period by MoRTH/NHAI/NHIDCL: -

Sr. No.	Name of work/Contract Package	Length (km)	Estimated Civil Cost Put to Tender (Rs. In Lakhs) (including 18% GST)	Bids Security	Time of Completion	Eligibility Criteria Average annual turnover for last 5 Years (Rs. In Lakhs)	Eligibility Criteria as Completed work of similar nature during last 5 Years (Rs. In Lakhs)
1	Urgent Road Repair Works along the Habitations and Fatally Damaged Road Sections from Km 107+760 to Km 127+650 on NH-4 in the UT of Andaman & Nicobar Islands at the Risk & Cost of existing EPC Contractor for Package-III on Item rate & work order basis, through Limited Tender in FY2022-23 - 2nd Call	19.89	483.04	Bid Security Declaration	3 Months	483.04	One similar Completed work not less than the amount equal to 40% of the total value of contract (Rs. 193.22 Lakhs)

Cost of Bid Documents: RTGS/NEFT of Rs. 11,800.00 (Rs. 10,000.00 plus 18% GST on the same) in the project account of Executive Director (Projects), NHIDCL payable at Port Blair (Non-Refundable). (Project Account of ED (P) details as mentioned in RFP). Exemption to MSME registered firms is applicable on produce of documentary evidence.

2. Date of Publishing is from 31.10.2022
3. The complete BID document can be viewed / downloaded from web portal www.eprocure.gov.in from 31.10.2022 to 07.11.2022 (up to 18:00 Hrs. IST).

4. Bidder must submit its financial bid at <https://eprocure.gov.in> and Technical Bid at <https://eprocure.gov.in> on or before 07.11.2022 up to 18:00 Hrs. IST. Bids received online shall be opened on 09.11.2022 (at 11:00 Hrs. IST).
5. Bid documents can be seen at and downloaded from the website www.nhidcl.com and <https://eprocure.gov.in> in Bid documents contain qualifying criteria for bidder, specification, bill of quantities, conditions and other details.
6. The site for the work is available.
7. The original copy of payment proof of Bid security, hard copy of Power of Attorney etc. in original can be submitted at the time of signing of Agreement as per MoRTH circular no. RW/NH-37010/4/2010-EAP (Printing) Vol IV dated 30.04.2020.
8. The interested bidder can download the NIT / bidding document from the website <https://eprocure.gov.in> & www.nhidcl.com
9. To participate in bidding process, bidders have to get (DSC) “Digital Signature Certificate” as per Information Technology Act-2000, to participate in online bidding. This certificate will be required for digitally signing the bid. Bidder can get above mentioned digital certificate from any approved vendors. The Bidder, who already possess valid (DSC) “Digital Signature Certificate” need not to procure new Digital Signature Certificate.
10. The bidders have to submit their bids online in electronic format with Digital Signature. The bid cannot be uploaded without Digital Signature. No proposal will be accepted in physical form.
11. Bids will be opened online as per time schedule mentioned at Sl. No. 20.
12. Before submission of online bids, bidder must ensure that scanned copy of all the necessary documents have been attached with bid.
13. The department will not be responsible for delay in online submission of bids whatsoever reasons may be.
14. All the required information for bid must be filled and submitted online.
15. Bidders should get ready with the scanned copies of cost of documents & Bid Security as specified in the tender documents. The original instruments in respect of cost of documents, Bid Security and relevant documents will be submitted to the Tenders Inviting Authority by Registered post/courier/by hand as per time schedule.
16. The details of cost of documents, Bid Security specified in the tender documents should be the same, as submitted online (Scanned copies) otherwise bid will not be accepted.
17. Bidders can contact the undersigned for any guidance for getting DSC or any other relevant details in respect of e-tendering process. Bidders should get ready with the scanned copies of cost of documents & Bid Security as specified in the tender documents. The original instruments in respect of cost of documents, Bid Security and

relevant documents will be submitted to the Tenders Inviting Authority by Registered post/courier/by hand as per time schedule specified.

18. The guidelines for submission of bid online can be downloaded from the website www.nhidcl.com & <https://eprocure.gov.in>.

19. The MSME registered firms may ask for exemption from Bid document cost, on produce of documentary evidence. No other prime criteria in experience, turnover, bid capacity, etc. are diluted/exempted for MSME firm in this tender.

20. Schedule of Bidding Process

The Company shall endeavor to adhere to the following schedule:

	Description	Period
1.	Date of issue of NIT	31.10.2022 (09:00Hrs)
2.	Date of issue of Sale of Tender Documents	31.10.2022 (09:00 Hrs)
3.	Date of close of sale of Tender Documents (through online)	07.11.2022 (up to 18:00 Hrs.)
4.	Last Date of receipt of pre-bid queries	02.11.2022 (till 15:00 Hrs.)
5.	Date of Pre-Bid meeting	02.11.2022 (at 16:00 Hrs.)
6.	Date of uploading of reply to the pre-bid queries	03.11.2022
7.	Last Date of submission of Tender/ Bid (online & hard copy)	07.11.2022 (up to 18:00 Hrs.)
8.	Opening of Technical BIDs at venue	09.11.2022 (at 11:00 Hrs. IST)
9.	Date of Uploading of list of Technically Qualified Applicants	To be intimated later
10.	Date of Opening of Financial Bids of Qualified Applicants	To be intimated later
11.	Date of issue of letter of award (LOA)	To be intimated later
12.	Validity of Bid	120 Days
13.	Return of signed duplicate copy of LOA	To be intimated later
14.	Submission of Performance Security (PS) and Additional Performance Security (APS), if any; along with the	Within 7 days of receipt of LOA.

	confirmation.	
15.	Signing of Agreement	Within 10 days of receipt of LOA.

21. Conditional bids would be rejected.

22. The Prospective Bidders should ensure, that their financial bid/price bid should be inclusive of all the necessary safety measures for execution of repair and maintenance works.

23. Any corrigendum or information with regard to this NIT shall only be uploaded online on www.nhidcl.com & <https://eprocure.gov.in>.

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

Date: 29.10.2022

Executive Director (P)
National Highways & Infrastructure Development Corporation Limited
Regional Office - Port Blair, Oyster Building,
Ward No. 23, Near Airforce Station, Prothrapur,
Garacharma (PO), Port Blair -744105 (A&N Islands)
E-mail: edp.portblair@nhidcl.com
land line-03192-296755

(SECTION-II)
INSTRUCTIONS TO BIDDERS
& APPENDIX TO BID

Section II: Instructions to Bidders			
Table of Clauses			
Clause		Clause	
	A. General		D. Submission of Bids
1	Scope of Bid	19	Sealing and marking of Bids
2	Source of Funds	20	Deadline for submission of Bids
3	Eligible Bidders	21	Late Bids
4	Qualification of Bidders	22	Modification & withdrawal of Bids
5	One Bid per Bidder		E. Bid Opening & Evaluation
6	Cost of Bidding	23	Bid Opening
7	Site Visit	24	Process to be Confidential
	B. Bidding Document	25	Clarification of Bids and Contacting the Employer
8	Content of Bidding Document	26	Examination of Bids and Determination of Responsive
9	Clarification of Bidding Document	27	Correction of Errors
10	Amendment of Bidding Document	28	Evaluation and Comparison of Financial Bids
	C. Preparation of Bids	29	Price Preference
11	Language of Bid		F. Award of Contract
12	Documents Comprising the Bid	30	Award Criteria
13	Bid Prices	31	Employer's Right to Accept any Bid and to reject any or all Bids
14	Currencies of Bid and Payment	32	Notification of Award and signing of agreement
15	Bid Validity	33	Performance of Security
16	Earnest Money/ Bid Security / Forfeiture/ Debarment	34	Advances
17	Alternative Proposals by Bidders	35	Corrupt or Fraudulent Practices
18	Format and Signing of Bid		

Section II

Instructions to Bidders (ITB)

A. General

1. Scope of Bid

1.1 The Employer (i.e., Managing Director, National Highways & Infrastructure Development Corporation Ltd.) invites bids for “as described in these documents and referred to as “the works”. The name and identification number of the 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.

1.3 Throughout these Bidding Documents, the terms “bid” and “tender” and their derivatives (bidder/tender, 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; (Pl. Refer clause 12.2 of ITB)

b) Scanned copy of total monetary value of civil engineering construction works performed for each of the last five years; (2017-18, 2018-2019, 2019-2020, 2020-21, 2021-22)

c) Scanned copy of experience certificate in works of a similar nature and size for each of the last five financial years (commencing from year 2017-18) with certificates from the concerned officer of the rank of Executive Engineer or equivalent;

d) Scanned copy of Undertaking of availability (either owned or leased or rented) of items of construction equipment named in the Appendix to ITB. [Clause 4.4 B(b) (i)]

- e) Scanned copy of Undertaking of details of the technical personnel proposed to be employed for the Contract having the qualifications defined in Appendix to ITB. [Clause 4.4 B(b) (ii)]
- f) Scanned copy of a certificate from Chartered Accountant as a proof of turnover for the last five years; **(mentioning the UDIN in the certificate).**
- g) Scanned document in support of evidence access to line (s) of credit and availability of other financial resource facilities (10 % of Contract value), certified by bankers (not more than 3 months old).
- h) Scanned undertaking that the bidder will be able to invest minimum cash up to 25 % of contract value of work, during implementation of work.
- i) [DELETED]
- j) 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; If the bidder is under litigation on grounds breach of tender Conditions during Bidding/ agreement conditions/ arbitration due to poor performance upon award of work by any authority, such bidders would not be eligible to participate in this current tender.
- 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.

Experience in successfully completing or substantially completing at least one contract of highway (road and/or bridge works)/airport runway of at least 40 per cent of the value of proposed contract within the last five years. For evaluation of the aforesaid 40% value, no escalation factor shall be used to bring the value of such completed work at the level of current financial year i.e., 2022-23.

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

- b) Substantially completed (not less than 90% of contract value), as a prime contractor similar works during last five years ending last day of month previous to the one in which bids are invited, at least one contract inclusive maintenance or restoration or construction of flexible pavement on Highway (Road or Bridge or

Airport works) with 40% of the value of contract (i.e., Rs. 130.39 Lakhs) as per the standards of MoRTH.

[The “similar work” constitutes maintenance or restoration or construction of flexible pavement on Highway (Road or Bridge or Airport works) (2022-23 would be considered as the base year)]

(Following escalation factor shall be used to bring the value of such completed works at the level of current financial year i.e., 2022-23)

Year Before	Multiplying Factor
One	1.10
Two	1.21
Three	1.33
Four	1.46
Five	1.61

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. Undertaking of evidence of availability (either owned or leased or rented) of the key equipment's for this work as stated in the Appendix to ITB.
- ii. Undertaking of availability of key personnel for this work with essential qualification & experience as stated in the Appendix to ITB.

c) [DELETED]

d) [DELETED]

4.4 C: [DELETED]

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:

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., 2022-23) taking into account the completed as well as works in progress.

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 current financial year i.e., 2022-23) of existing commitments and on-going works to be completed during the next 01 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 MoRTH/NHAI/NHIDCL/State PWD work etc.
- iii. Tampered 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 Regional Office, Port Blair of NHIDCL in this regard.

7.2 The following information is given for consideration by the prospective bidders:

As per the ongoing EPC Contract Agreement, this Repair & Maintenance work is proposed as per clause 10.4 due to failure of the EPC Contractor for attending the repair and maintenance work. Further, for this tender/work, the existing EPC Contractor of the above project stretch or any sub-contractor or any associated companies are not eligible to participate.

As per the ongoing EPC Contract Agreement, it is the responsibility of the EPC contractors carrying out the all repair works and to maintain existing project highway in traffic worthy condition. It is however noticed that the EPC contractors at times fail to perform their obligations as per the provisions of the Contract Agreement. Notices have been given/are being given to the EPC Contractor to fulfill their obligations as per the Contract Agreement. The bid invited by NHIDCL for Urgent Repair and Maintenance works and NIT is to carry out the repair and maintenance works of the National Highways which is under development, in case the EPC contractors fail to carry out the Maintenance and Repair of existing highway and take necessary preventive action to ensure that the existing highway does not get damaged and remains in traffic worthy condition at all times. This Maintenance and Repair work for which bids have been invited shall accordingly be carried out on as required basis by placing of work order (s) as per defaults of Maintenance obligations of EPC Contractor on his "Risk and Cost".

Section II

Instructions to Bidders (ITB)

B. Bidding Documents (On line)

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. Implementation Manual & Maintenance Intervention Levels

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 10 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.

a. Pre-bid meeting

9.2.1 The bidder or his official representative is invited to attend pre-bid meeting 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/email 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 rose (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 i.e., <https://eprocure.gov.in> and www.nhidcl.com. Bidders are advised to keep them self-updated of all the 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 Instructions 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.

Documents to be submitted in physical form must reach to **Executive Director (P) NHIDCL, Regional Office - Port Blair, Oyster Building, Ward No. 23, Near Airforce Station, Prothrapur, Garacharma (PO), Port Blair -744105 (A&N Islands)** at the time of signing of agreement.

12.2 Though, the scanned copies of following documents is required to be uploaded during submission of e-bid on the e-tendering portal, As per clause 12.1 above, however, following **original documents in physical form** shall be submitted in a sealed envelope at the time of signing of agreement duly 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) Original copy of payment of proof of Bid Security
- b) Original copy of proof of payment of 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
- f) Original experience certificate or notarized copy of certificate duly signed by authorized signatory.

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 whole 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 i.e., <https://eprocure.gov.in>. 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 bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, 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. (make online payment of bid security through RTGS/ NEFT must be in in the Project Account of **Executive Director (Projects), NHIDCL payable at Port Blair.**

Sl. No.	Particulars	Details
1	Name of Beneficiary	Executive Director (P) NHIDCL, PORT BLAIR
2	Beneficiary Bank Account No.	99003210000019
3	Beneficiary Bank Branch	IFSC CNRB0019900
4	Beneficiary Bank Branch Name	CANARA BANK, PORT BLAIR-II BRANCH
5	Beneficiary Bank Address	Canara Bank, Port Blair-II Branch (19900) 19-TAGORE ROAD, MOHANPURA, PORT BLAIR, ANDAMAN & NICOBAR ISLANDS-744101.

16.2 [DELETED]

- A. [DELETED]
- B. [DELETED]

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

16.4 The Bid Security of unsuccessful bidders will be returned within 28 days of the end of the Bid validity period specified in Sub-Clause 15.1 or award of contract package, whichever is earlier.

16.5 The Bid Security of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Performance Security.

16.6 The Bid Security/ Earnest Money will be forfeited:

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

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 documents as described in Clause 12 of the ITB.

18.2 [DELETED]

18.3 [DELETED]

18.4 The documents 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. Documents as mentioned here shall contain no overwriting, alterations or additions, except those to comply with instructions, issued by the employer or as necessary to correct errors made by the bidder, in which case such corrections shall be 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

Instructions to Bidders (ITB)

D. Submission of Bids

19 Marking of Bids

- 19.1 The documents 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.
- 19.2 DELETED
- 19.3 DELETED
- 19.4 DELETED
- 19.5 DELETED

20 Deadline for Submission of Bids

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 **Executive Director (P), NHIDCL, Regional Office - Port Blair, Oyster Building, Ward No. 23, Near Airforce Station, Prothrapur, Garacharma (PO), Port Blair -744105 (A&N Islands)** at the time of signing of agreement. 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.

20.1 The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

21 Late Submission of Document in Physical Form:

- 21.1 DELETED

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.

Section II

Instructions to Bidders (ITB)

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 responsive 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.

23.1.1 [DELETED]

23.1.2 [DELETED]

23.2 In all cases, the Bid Security Declaration and its 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 declaration and 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 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

Instructions 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.

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 33.

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 10 (ten) days after receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a Performance Security of 3% (three) percent of the Contract Price, valid for the period of 28 days after the expiry of Defect Liability Period and additional security for unbalanced Bids in accordance with Clause 28.3 of ITB and sign the contract. The validity shall account for additional 3-month time to account for BG verification, signing of contract and start date.

33.2 The performance security shall be in the form of a Bank Guarantee in the name of the Employer, from a Bank.

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 and debarment for a period as specified in clause 16.7.

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 competing for the contract in question and will declare the firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract with NHIDCL 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				
Instructions to Bidders Clause Reference				
(1.1)		The Employer is National Highways & Infrastructure Development Corporation Limited, 3rd Floor, PTI Building, 4-Parliament Street, New Delhi-110001		
(1.1)		Urgent Road Repair Works along the Habitations from Km 205+895 to Km 209+851 on NH-4 in the UT of Andaman & Nicobar Islands at the Risk & Cost of existing EPC Contractor for Package-IV, on Item Rate & Work Order Basis, through Limited Tender, in FY 2022-23 (2nd Call).		
(4.4) B) (b) (i)		Name of the Equipment		Quantity
		Tipper/Trucks		04
		Hydraulic Excavator / JCB		03
		Motor Grader		02
		Auto Level/Dumpy Level		01
		Smooth Wheeled Roller		02
		Water Tanker		02
		Vibratory Roller (8 to 10 Ton)		02
		Plate Vibrator		03
		Generator set (63/100/250 KVA)		02
		Bitumen Sprayer		01
		Hot Mix Plant (Mobile/Static)		01
		Any other equipment required for carrying out work as per Ministry’s specification.		
		Note: The bidder must upload scanned copy of the documentary evidence in support of his owning/leased/ rented of the above equipment’s. 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 this equipment’s with the company/ entity from which the equipment’s are proposed to be hired on lease/ rent.		
(4.4) (B) (b) (ii)		The Number of Technical personnel, Qualifications and Experience will be as follows: The Technical Personnel are:		
SL. No.	Key Personnel	Qualification	Particular Experience (minimum requirement)	No. of Persons
2	Project Manager	B.E (Civil) or equivalent + 10 Years Exp.	2-year relevant Exp.	1
3	Site Engineer	B.E (Civil) + 3Years Exp. Or Diploma + 5 Years Exp.	2 years on highway constructions / maintenance work.	2

4	Quantity Surveyor	B.E. Civil +3Years Exp. Or Dip. Civil. + 5Years Exp.	2 years on highway constructions / maintenance work.	1
5	Soil and Material Engineer	B.E. Civil+ Year Exp.Or Dip. Civil+ 7year Exp.	2 years on highway constructions / maintenance work	1
			Total	5
		Note: The detailed signed and scanned CV's of the Key Technical Personnel at S. No. 1 signed by the key personnel himself, 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.		

SECTION-III
QUALIFICATION INFORMATION
(To be Filled by Bidder)

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 Contract.

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 as per Cl. 4.2 (f))

2021-2022-----
2020-2021-----
2019-2020-----
2018-2019-----
2017-2018-----

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 completion	Actual date of completion	Remarks explaining reasons for delay & work
--------------	------------------------	---------------------	--------------	-------------------------------	-----------------------------	------------------------------	---------------------------	---

*** Upload certificate(s) from the Employer (to be given by an officer at the rank of Executive Engineer or equivalent as per Cl. 4.2 (b) & 4.3 (c))**

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.

(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.lakh (enclose the details)
N =years
B = Rs.lakh (enclose the details)

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

1.4 Undertaking of 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
		Owned/Leased/rented	Nos./Capacity	Age/Condition	

Note: The bidder shall submit an undertaking as per Performa enclosed in the bid document.

1.5 Undertaking of availability Key Personnel required for administration and execution of the Contract [Ref. Clause 4.4 (B) (b) (ii)].

(Refer also to Sub Clause 9.1 of the Conditions of Contract).

Sl. No.	Position	Name	Qualification	Total Professional Experience (Years)	Experience in the proposed position (Years)
1.					
2.					
3.					

Note: The bidder shall submit an undertaking as per Performa enclosed in the bid document.

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

Other Party	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/Undertakings at the time of signing of Agreement:

- (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.
- (iv) Undertaking of availability of Key Equipment essential for carrying out the Works.
- (v) Undertaking of availability Key Personnel required for administration and execution of the Contract.
- (vi) Bid Security Declaration.

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

(Clause 4.2(g) of ITB)

BANK CERTIFICATE

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

If the contract for the work, namely “Urgent Road Repair Works along the Habitations and Fatally Damaged Road Sections from Km 107+760 to Km 127+650 on NH-4 in the UT of Andaman & Nicobar Islands at the Risk & Cost of existing EPC Contractor for Package-III on Item rate & work order basis, through Limited Tender in FY2022-23 - 2nd Call”, 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

(On Non-Judicial Stamp Paper, duly Notarized)

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 MoRTH/NHAI/PWD/NHIDCL 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 MoRTH/NHAI/PWD/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 MoRTH/NHAI/PWD/NHIDCL and within the prescribed time.

(Signed by an Authorized Representative of the Firm)

Name of the Representative

Name of Firm

DATE

(On Non-Judicial Stamp Paper, duly Notarized)

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

(On Non-Judicial Stamp Paper, duly Notarized)

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 Non-Judicial Stamp Paper, duly Notarized)

[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 **“Urgent Road Repair Works along the Habitations and Fatally Damaged Road Sections from Km 107+760 to Km 127+650 on NH-4 in the UT of Andaman & Nicobar Islands at the Risk & Cost of existing EPC Contractor for Package-III on Item rate & work order basis, through Limited Tender in FY2022-23 - 2nd Call”**. If anything, contrary to the details as submitted is found at any stage NHIDCL would be at liberty to debar/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

(On Non-Judicial Stamp Paper, duly Notarized)

[Ref. clause 4.4 B (b) (ii)]

Undertaking

I, the undersigned do hereby undertake that our firm M/s..... agree to provide and will deploy required Key Personnel as mentioned in the Appendix to ITB of the work **“Urgent Road Repair Works along the Habitations and Fatally Damaged Road Sections from Km 107+760 to Km 127+650 on NH-4 in the UT of Andaman & Nicobar Islands at the Risk & Cost of existing EPC Contractor for Package-III on Item rate & work order basis, through Limited Tender in FY2022-23 - 2nd Call”**. If anything, contrary to the details as submitted is found at any stage NHIDCL would be at liberty to debar/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

(On Non-Judicial Stamp Paper, duly Notarized)

[Ref. clause 23.2 & 23.4(i)]

BID SECURITY DECLARATION

I/We, the undersigned do hereby undertake that the bid documents by our firm M/s..... shall not be withdrawn or modified during period of validity i.e., not less than 120 (one hundred eighty) days from the bid due date.

I, on behalf of M/s..... also accept the fact that in case the bid is withdrawn or modified during the period of its validity or if we fail to sign the contract in case the work is awarded to us or we fail to submit a performance security before the deadline defined in clause 21 of the request of proposal (RFP), then (Name of bidder) will be suspended for participating in the tendering process for the work of MoRTH/NHAI/NHIDCL and work under other Centrally Sponsored Scheme, for a period of one year from the bid due date of this work.

(Signed by an Authorized Representative of the Firm)

Name of the Representative

Name of Firm
(Seal of the company)

Date

FORM OF LETTER OF APPLICATION

To,

Executive Director (P)

National Highways & Infrastructure Development Corporation Ltd.

Regional Office - Port Blair,

Oyster Building, Ward No. 23,

Near Air Force Station, Prothrapur,

Garacharma (PO), Port Blair-744105 (A&N Islands)

E-mail: edp.portblair@nhidcl.com

**Name of Work: Urgent Road Repair Works along the Habitations and Fatally Damaged Road Sections from Km 107+760 to Km 127+650 on NH-4 in the UT of Andaman & Nicobar Islands at the Risk & Cost of existing EPC Contractor for Package-III on Item rate & work order basis, through Limited Tender in FY2022-23 - 2nd Call
[Contract Package No.: NHIDCL/RO/A&N/FY 2022-23/2nd Call/23]**

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_____

(SECTION-IV)

**FORMS OF BANK GURANTEES,
LOA & AGREEMENT**

FORM OF BANK GUARANTEE FOR PERFORMANCE SECURITY

Contract Package No: NHIDCL/RO/A&N/FY 2022-23/21

To

Executive Director (P)

National Highways & Infrastructure Development Corporation Ltd.

Regional Office - Port Blair,

Oyster Building, Ward No. 23,

Near Air Force Station, Prothrapur,

Garacharma (PO), Port Blair-744105 (A&N Islands)

E-mail: edp.portblair@nhidcl.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) (hereinafter called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the Contractor shall furnish you with a Bank Guarantee 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 RO, Port Blair, 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 thereunder 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	Executive Director (P) NHIDCL, PORT BLAIR
2	Beneficiary Bank Account No.	99003210000019
3	Beneficiary Bank Branch	IFSC CNRB0019900
4	Beneficiary Bank Branch Name	CANARA BANK, PORT BLAIR-II BRANCH
5	Beneficiary Bank Address	Canara Bank, Port Blair-II Branch (19900) 19-TAGORE ROAD, MOHANPURA, PORT BLAIR, ANDAMAN & NICOBAR ISLANDS-744101.

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

Name of the Issuing Bank/ Branch
Address & Telephone Number.....

Name of the Controlling Branch/Bank.....
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)

NOTE: 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 AWARD (LOA)

No.

Dated

To

M/s.....

Sub.: Urgent Road Repair Works along the Habitations and Fatally Damaged Road Sections from Km 107+760 to Km 127+650 on NH-4 in the UT of Andaman & Nicobar Islands at the Risk & Cost of existing EPC Contractor for Package-III on Item rate & work order basis, through Limited Tender in FY2022-23 - 2nd Call

Sir,

This is to notify that your Bid dated for execution of the work of “URGENT REPAIR AND MAINTENANCE for Sections of NH-04 from Km 107.760 to Km 129.445, Km 130.60 to Km 138.00 and Km 155.00 to Km 181.00, length 54.71 Km in the UT of Andaman & Islands at the Risk & Cost of the EPC Contractor in FY 2022-23”, at your quoted bid price amounting to Rs. (in words only) has been determined to be the lowest evaluated bid and is substantially responsive and has been accepted.

2. You are requested to return a duplicate of the LOA as an acknowledgement and sign the Contract Agreement within the period 10 (ten) days as per the stipulated conditions of the RFP.
3. You are requested to furnish Performance Security for an Amount of Rs. (in words only) as per the stipulated conditions of the RFP within 10 (ten) days of receipt of this Letter of Acceptance (LOA).
4. In case of failure of submission of Performance Security as brought out above, the award shall be deemed to be cancelled and/or you will be debarred from participating in the future projects of NHIDCL, for a period of one year.
5. It may also be noted that, in case of failure to submit the Performance Security, within 7(seven) days of Letter of Acceptance, LOA shall be withdrawn and action shall be taken as per RFP.

Thanking you,

Yours faithfully,

(.....)
Executive Director (Project)

FORM OF AGREEMENT

AGREEMENT

This agreement made the _____ day of _____ 2022 _____
_____ between the National Highways & Infrastructure Development
Corporation Ltd., New Delhi (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 of the execution of certain works, viz **“Urgent Road Repair Works along the Habitations and Fatally Damaged Road Sections from Km 107+760 to Km 127+650 on NH-4 in the UT of Andaman & Nicobar Islands at the Risk & Cost of existing EPC Contractor for Package-III on Item rate & work order basis, through Limited Tender in FY2022-23 - 2nd Call”**, AND WHEREAS pursuant to the bid submitted by the Contractor, vide letter dated _____ (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 the 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 pursuant to the bid submitted by the Contractor vide letter dated _____ (hereinafter referred to as the “the Offer”), the employer has by his letter of acceptance no. _____ accepted the offer submitted by the Contractor for the execution and completion of such works and the remedying of any defects therein, on terms and conditions in accordance in the conditions of particular application and condition included hereinafter;

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

- 3 The foregoing documents shall be constructed as complementary and mutually explanatory one with another. Should any ambiguities or discrepancy be noted then the order of precedence of these documents shall subject to the condition of particular applications be as listed above.
- 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 respect 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 the remedying of defects therein the contract price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS WHEREOF the parties here to have caused this agreement to be executed the day and year first before written, signed, sealed and delivered by the said Employer through his Authorized Representative and the said Contractor through his Power of Attorney holder in the presence of:

Binding Signature of Employer _____

For and on behalf of
National Highways & Infrastructure Development Corporation Ltd.
3rd Floor, PTI Building,
4-Parliament Street,
New Delhi-110001

Binding Signature of Contractor _____

For and on behalf of _____

In the presence of		In the Presence of	
1.	Name:	1.	Name:
	Address:		Address:
2.	Name:	2.	Name:
	Address:		Address:

FORMAT OF WORK ORDER

Urgent Road Repair Works along the Habitations and Fatally Damaged Road Sections from Km 107+760 to Km 127+650 on NH-4 in the UT of Andaman & Nicobar Islands at the Risk & Cost of existing EPC Contractor for Package-III on Item rate & work order basis, through Limited Tender in FY2022-23 - 2nd Call

[Contract Package No. NHIDCL/RO/A&N/FY 2022-23/2nd Call/23]

Date:								
Sl. No.	BOQ Item No Description	Quantity	Date of start	Time for complete the work	Chainage		Length (Mts)	Remarks
					From	To		

Contractor

Engineer-In-Charge

(SECTION-V)

**CONDITIONS OF CONTRACT AND CONTRACT
DATA**

Table of Clauses

Sl. No.		Sl. No.	
	A. General		D. Cost Control
1	Definitions	35	Bill of Quantities
2	Interpretation	36	Variations
3	Language and Law	37	Payments for Variations
4	Engineer's Decisions	38	Cash Flow Forecasts
5	Delegation	39	Payment Certificates
6	Communications	40	Payments
7	Subcontracting	41	Compensation events
8	Other Contractors	42	Tax and currencies for payment
9	Personnel	43	Price adjustment
10	Employer's and Contractor's Risks	44	Security Deposit/ Retention Money
11	Employer's Risks	45	Liquidated damages
12	Contractor's Risks	46	Advance Payment
13	Insurance	47	Securities
14	Site Investigation Reports	48	Cost of Repairs
15	Queries about the Contract Data		E. Finishing the Contract
16	Contractor to Construct the works and do maintenance	49	Completion
17	The works to be Completed by the Intended Completion Date	50	Taking Over
18	Approval by the Engineer	51	Final Account
19	Safety	52	Operating and maintenance manual
20	Discoveries	53	Termination
21	Possession of the Site	54	Payment upon Termination
22	Access to the Site	55	Property
23	Instructions	56	Release from performance
24	Deleted		F. Special Conditions of Contract
25	Arbitration	57	Labour
26	Deleted	58	Compliance with Labour Regulation
	B. Time Control	59	Drawings and Photographs of the works
27	Program	60	The Apprenticeship Act, 1961
28	Extension of Completion Date		
29	Delays Ordered by the Engineer		
30	Management Meetings		
	C. Quality Control		
31	Identifying Defects		
32	Tests		
33	Correction of Defects		
34	Uncorrected Defects		

Section V

CONDITIONS OF CONTRACT

Part I General Conditions of Contract (GCC) and Contract Data

A. General

1. Definitions

1.1 Terms which are defined in the Contract Data are not 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.

Compensation Events are those defined in Clause 41 hereunder.

The Completion Date is the date of completion of the Works as certified by the Engineer, in accordance with Clause 49.1.

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 2.3.

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

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

The Contractor's Bid is the completed bidding document submitted by the Contractor to the Employer and includes technical and financial bids.

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

Days are calendar days; months are calendar months.

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

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

The Defects Liability Period is **12 months** calculated from the Completion Date.

Drawings include calculations and other information provided or approved by the Engineer for the execution of the Contract.

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 Initial Contract Price is the Contract Price listed in the Employer's Letter of

Acceptance.

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

Site Investigation Reports are those that were included in the bidding documents and are factual interpretative reports about the surface and subsurface conditions at the Site.

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

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

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

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

The Work Order is the order containing the detailed scope of work to be executed at site indicated in the order when issued by the employer as and when required. The work will be done exclusively based on Item wise Work Order placed by Engineer.

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

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

- (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. Subcontracting

7.1 The Contractor may subcontract any portion of work, up to a limit specified in Contract Data, with the prior approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations.

7.2 The Contractor shall not be required to obtain any consent from the Employer for:

- a. the sub-contracting of any part of the Works for which the Sub-Contractor is named in the Contract;
- b. the provision of labour or labour component.
- c. the purchase of Materials which are in accordance with the standards specified in the Contract.

7.3 Beyond what has been stated in clauses 7.1 and 7.2, if the Contractor proposes sub-contracting of any part of the work during execution of the Works, because of some unforeseen circumstances to enable him to complete the Works as per terms of the Contract, the Employer will consider the following before according approval:

- a) The Contractor shall not sub-contract the Works more than the limit specified in Contract Data.
- b) The Contractor shall not sub-contract any part of the Work without prior consent of the Employer. Any such consent shall not relieve the Contractor from any liability or obligation under the Contract and he shall be responsible for the acts, defaults and neglects of any of his sub-Contractor, his agents or workmen as fully as if they were the acts, defaults or neglects of the Contractor, his agents and workmen.

7.4 The Engineer should satisfy himself before recommending to the Employer whether

- a) the circumstances warrant such sub-contracting; and
- b) the sub-Contractor so proposed for the Work possess the experience, qualifications and equipment necessary for the job proposed to be entrusted to him in proportion

to the quantum of Works to be sub-contracted.

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 53.

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 the Employer's country, 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), natural calamities and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive, or (b) a cause due solely to the design of the Works, other than the Contractor's design.

12. Contractor's Risks

12.1 All risks of loss of or damage to physical property and of personal injury and death, which arise during and in consequence of the performance of the Contract other than the excepted risks, referred to in clause 11.1, 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 affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be 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 Executing Director will clarify queries on the Contract Data.

16. Contractor to Construct the Works & do maintenance

16.1 The work order will be issued based on as and when required basis. The work may be required to be partially executed or may not be executed at all by NHIDCL. No claim whatsoever from any of the selected bidders on this account shall be entertained in this regard.

16.2 Not contrary to any other provisions set forth under this agreement, work order wise the section of affected lengths would be handed over to the contractor for carrying out the repair and maintenance work in the stipulated time as mentioned in the work order. From the date of handing over of any sections to the date of completion of this contract, the contractor has the obligation to keep these road sections green for all type of traffic movement in all-weather condition. Upon award of work, the repair and maintenance would be carried out strictly on work order basis, as issued by the engineer-in-charge. In addition to above, as and when required, contractor would complement the efforts of the Authority to keep the traffic worthy-ness, as directed.

17. The Works to Be Completed by the Intended Completion Date

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

18. Approval by the Engineer

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

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

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

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

18.5 All Drawings prepared by the Contractor for the execution of the temporary or

permanent Works, are subject to prior approval by the Engineer before their use.

19. Safety

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

20. Discoveries

20.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site 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. [DELETED]

25. ARBITRATION

The procedure for arbitration will be as follows:

- (a) In case of Dispute or difference arising between the Employer and a domestic contractor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of 3 arbitrators one each to be appointed by the Employer and the Contractor. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the Secretary General of Indian Road Congress.
- (b) If one of the parties fails to appoint its arbitrator in pursuance of sub-clause (a) and (b) above within 30 days after receipt of the notice of the appointment of its arbitrator by the other party, then the Secretary General of Indian Road Congress shall appoint the arbitrator. A certified copy of the order of the Secretary General of Indian Road Congress making such an appointment shall be furnished to each of the parties.
- (c) Arbitration proceedings shall be held at New Delhi, India, and the language of the arbitration proceedings and that of all documents and communications between the

parties shall be English.

- (d) The decision of the majority of arbitrators shall be final and binding upon both parties.
- (e) The cost and expenses of Arbitration proceedings will be borne equally by both parties in accordance with the following fee structure (the signing of the contract shall be the acceptance of the fee structure given below by both the parties):

Sr. No.	Particulars of fee and other charges	Schedule Amount payable per Arbitrator/ per case
1.	Arbitrator fee	Rs.15,000/- per day subject to a publishing the Award within 12 months. 12 months will be reckoned from the date of first meeting.
2.	Reading Charges	Rs.15,000/-
3.	Secretarial Assistance and Incidental Charges (telephone, fax, postage etc.)	Rs.20,000/-
4.	Charges for Publishing/ declaration of the Award	Maximum of Rs.20,000/-
5.	Other expenses (As per actual Against bills subject to maximum of the prescribed ceiling given below) Traveling Expenses, Lodging and Boarding	Economy class by air, first class AC by train, AC car by road. (i) Up to Rs.15,000/- per day (metro cities) (ii) Up to Rs.7,000/- per day (other cities) (iii) Rs.3,000/- per day own arrangement)
6.	Local Travel	Rs.1,500/- per day
7.	Extra charges for days other than hearing / meeting days (maximum for 2 days)	Rs.3,500/- per day
Not e: -	Lodging, boarding and traveling expenses shall be allowed only for those members who are residing 100kms. Away from place of meeting. Delhi, Mumbai, Chennai, Kolkata, Bangalore and Hyderabad shall be considered as Metro Cities.	

However, the expenses incurred by each party in connection with the preparation, presentation, etc. of its proceedings shall be borne by each party itself.

- (f) Performance under the contract shall continue during the arbitration proceedings and payments due to the contractor by the employer shall not be withheld, unless they are the subject matter of the arbitration proceedings.

26 [DELETED]

B. Time Control

27. Program

27.1 The Engineer shall issue the indent of work “**Work Order**” in stages specifying the time limit for the same as and when required. The Contractor shall submit to the Engineer for approval a Program within 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.

27.2 An update of the Program shall be a Program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.

27.3 The Contractor shall submit to the Engineer for approval an updated Program at intervals. If the Contractor does not submit an updated Program within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment

certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted.

27.4 The Engineer's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Engineer again at any time. A revised Program shall show the effect of Variations and Compensation Events.

28. Extension of the Intended Completion Date

28.1 The Engineer shall extend the Intended Completion Date 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.

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 twelve (12) months* after the date of completion of works.

33.2 If any defects including shrinkage, cracks, and other faults appear in the work within *twelve (12) 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 twelve (12) 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 If the final quantity of the work-done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent provided the change exceeds 1% of initial Contract Price, the Engineer shall adjust the rate to allow for the change. The Engineer shall follow the guidelines of the Employer to determine the changed rate.

35.3.2 The Engineer shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 15 percent, except with the Prior approval of the Employer. If requested by the Engineer, the Contractor shall provide the Engineer with a detailed cost breakdown of any rate in the Bill of Quantities.

35.3.3 Change of scope due to six laning or OMT

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 Programs 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 For works where Schedule of Rates (SOR) of concerned circle of State's Public Works Department are available shall be applicable for determination of costs. If the rates for Variation are not specified in the SOR, 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 PWD(NH) 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 Program 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 monthly 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 monthly statement within 14 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 one month 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, 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 14 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 the sales and other levies, duties, royalties, cess, toll, taxes of Central and State Governments, local bodies and authorities that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

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 As per MoRTH circular date 11.04.2022, no reduction of retention money will be made from the Bills raised by the Contractor till 31.10.2022. However, from 01.11.2022 onwards the Employer shall retain security deposit of 6 % (six 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 Three percent (3%) 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 10 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 Program 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.

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;

if the Contractor fails to set up a field laboratory with the prescribed equipment, within the period specified; and

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. COMPLIANCE WITH LABOUR REGULATIONS

58.1 During the currency of the Contract, the Contractor and his sub-Contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be notified already or that may be notified under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given below. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including from his performance security/ retention money. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

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

a) **Workmen Compensation Act 1923:** - The Act provides for compensation in case of injury by accident arising out of and during the course of employment.

b) **Payment of Gratuity Act 1972:** - Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed the prescribed minimum years (say, five years) of service or more or on death the rate of prescribed minimum days" (say, 15 days) wages for every completed year of service. The Act is applicable to all establishments employing the prescribed minimum number (say, 10) or more employees.

c) **Employees P.F. and Miscellaneous Provision Act 1952:** The Act Provides for monthly contributions by the Employer plus workers at the rate prescribed (say, 10% or 8.33%). The benefits payable under the Act are:

- i. Pension or family pension on retirement or death as the case may be.
- ii. Deposit linked insurance on the death in harness of the worker.
- iii. Payment of P.F. accumulation on retirement/death etc.

d) **Maternity Benefit Act 1951:** - The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.

e) **Contract Labour (Regulation & Abolition) Act 1970:** - The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ prescribed minimum (say 20) or more contract labour.

f) **Minimum Wages Act 1948:** - The Employer is to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Constructions of buildings, roads, runways are scheduled employment.

g) **Payment of Wages Act 1936:** - It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.

h) **Equal Remuneration Act 1979:** - The Act provides for payment of equal wages for work of equal nature to male and female workers and for not making discrimination against female employees in the matters of transfers, training and promotions etc.

i) **Payment of Bonus Act 1965:** - The Act is applicable to all establishment employing prescribed minimum (say, 20) or more workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of wages to employees drawing up to the prescribed amount of wages, calculated in the prescribed manner. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.

j) **Industrial Disputes Act 1947:** - The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.

k) **Industrial Employment (Standing Orders) Act 1946:** - It is applicable to all establishments employing prescribed minimum (say, 100, or 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get these certified by the designated Authority.

- l) Trade Unions Act 1926:** - The Act lays down the procedure for registration of trade unions of workmen and Employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- m) Child Labour (Prohibition & Regulation) Act 1986:** - The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labour is prohibited in building and construction industry.
- n) Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act 1979:** - The Act is applicable to an establishment which employs prescribed minimum (say, five) or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as Housing, Medical-Aid, Travelling expenses from home up to the establishment and back etc.
- o) The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996:** -All the establishments who carry on any building or other construction work and employs the prescribed minimum (say, 10) or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, first-aid facilities, ambulance, housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- p) Factories Act 1948:** - The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say, 10) persons or more with aid of power or another prescribed minimum (say, 20) or more persons without the aid of power engaged in manufacturing process.

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. The Apprenticeship Act 1961

60.1 The Contractor shall duly comply with the provisions of the Apprenticeship Act 1961 (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so he shall be subject to all liabilities and penalties provided by the said Act and said Rules.

61. FORECLOSURE:

61.1 The scope of the work shall be reduced or if deemed necessary, the Work Contract may be foreclosed, at any time, as the instant work is being carried out on Risk & Cost of the EPC Contractor, presently mobilized in the section. Intimation for such reduction of scope/foreclosure shall be made 7 days prior to the expected Foreclosure Date. Further, such reduction in scope/foreclosure shall be binding upon to the Contractor, without any additional financial implication.

CONTRACT DATA TO GENERAL CONDITIONS OF CONTRACT

Clause Reference

[CL.1.1]

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

The Employer is: -

National Highways and Infrastructure Development Corporation Ltd.
3rd Floor, PTI Building,
4-Parliament Street,
New Delhi-110001

Name of AUTHORIZED REPRESENTATIVE of NHIDCL: -

EXECUTIVE DIRECTOR (PROJECTS)

Address: National Highways & Infrastructure Development Corporation Ltd. Regional Office - Port Blair,
Oyster Building, Ward No. 23, Near Air Force Station,
Prothrapur, Garachama (PO), Port Blair-744105 (A&N Islands)

2. THE AUTHORITY'S ENGINEER/ ENGINEER-IN-CHARGE is: [CL.1.1]

Designation: **TEAM LEADER**

Address: M/s Yongma Engineering Company Ltd association with Technicko Consultancy Services Pvt Ltd. A&N Islands.

3. The intended Completion Date for the whole of the works is **03 (Three) months** from start date. [CL.1.1, 17&28]

4. The Defects Liability Period is **12 months** calculated from the Completion Date. [CL.1.1, 33]

5. The location of site is given in the Bid notice (SECTION I) [CL.1.1]

6. The start date shall be reckoned within 15 days after the date of issue of the notice to proceed with the work. [CL.1.1]

7. (a) The name and identification number of the contract is given in the table given in Bid Notice (SECTION I) [CL.1.1]

8. (a) The law which applies to the contract is the law of Union of India. [CL.3.1]

(b) The language of the contract documents is English [CL.3.1]

9. The limit of subcontracting is NIL of initial contract price [CL.7.1]

10. Schedule of other contractor -NIL [CL.8.1]

11. Technical Personnel are as given in the ITB (SECTION II) [CL.7.1]

12. Amount of Insurance are: [CL.13.1]

(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

And deductible as per premium rate.

13. Site investigation report-NIL [CL.14.1]

14. (A) The period for submission of the Program for approval of Engineer/Engineer-in-charge shall be made immediately after issue of letter of commencement. [CL.27.1]

(B) (a) Identified indented work

(1) Weekly Indent, Monthly Indent, Quarterly Indent and Bi-annual Indent - 3 days before start of week; 7 days

before start of month; 15 days before start of quarter
and 28 days before bi-annual period concerned
(2) Emergent Indents - Within 24 hours

15. Amount to be withheld for delays in submission of updated Program: 1% of value of work corresponding to the updated Program.
16. The period for setting up a field laboratory with the prescribed equipment relevant to items of work in BOQ is 30 days from the date of notice to start work.
17. (a) Amount of liquidated damages for delay in completion of works
For whole of work $(1/2000)^{\text{th}}$ of the Initial Contract Price, rounded off to the nearest Thousand, per day.
For Sectional Completion (wherever specified, in item 6 of Contract Data $(1/200)^{\text{th}}$ of initial contract price for 5 km section, rounded off to the nearest thousand per day.
- (b) Maximum limit of liquidated damages for delay in completion of work. 10 percent of the initial contract price rounded off to the nearest thousand. [CL.45.1]
18. The standard form of Performance Security acceptable to the Employer shall be an unconditional Bank Guarantee of the type as presented in the Bidding Documents. [CL.47.1]
19. Other fundamental breach is that the contractor has failed to complete 75% of value of indented work in any 3 indents issued by the Engineer. [CL.53.2]
20. The percentage to apply to the value of work not completed representing the Employer's additional cost for completing the work shall be 20%. [CL.54.1]

(SECTION-VI)

TECHNICAL SPECIFICATIONS

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” (FOURTH REVISION, August 2014) issued by the Ministry of Road Transport & Highways, Government of India and published by the Indian Roads Congress, hereinafter referred to as MORT&H Specifications.

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.

5.2.2 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.

PART - II

3 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”.

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 a 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 111.5 Pollution from Hot Mix Plants and Batching Plants

Add the following paragraph at the end of this Sub-clause.

The H.M.P. should be sited at least 500m away from the nearest

habitation. The H.M.P. shall be fitted with a dust extraction unit in order that the exhaust gases comply with the requirements of the relevant current emission control legislation. “All operations at plants shall be undertaken in accordance with all current rules and regulations protecting the environment.”

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 add 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 holder 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 MOST 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 apposition 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 3rd 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:

“The Contractor shall construct a fully furnished and equipped field 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 the changes for the approval of the Engineer prior to commencement of 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 Laboratory Equipment shall be provided as prescribed by the Engineer relevant to items of work in BOQ.

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 | 2 sets |
| ii) | Precision automatic level | 2 sets |
| iii) | Precision staff | 4 sets |
| iv) | Camber templates 2 lane | |
| | a) Crown type cross-section | 4 sets |
| | b) Straight run cross-section | 4 sets |

Steel Tape

- | | | |
|----|-----------|--------|
| a) | 3 m long | 4 sets |
| b) | 5 m long | 4 sets |
| c) | 10 m long | 4 sets |
| d) | 20 m long | 4 sets |
| e) | 30 m long | 4 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.
Substitute this Sub-Clause by the

Clause 121.7 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 300 - EARTHWORK EROSION CONTROL AND DRAINAGE

Clause 301 Excavation for Roadway and Drains

Clause 301.3.3 Excavation - General

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”.

Clause 301.3.12 Back-filling

After the last sentence add the following:
“Density requirements for back filling shall be in accordance
with Table 300-2” of MOST.

Clause 301.9 Rates

Clause 301.9.2 This Clause is replaced as follows:

“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 304 Excavation for Structures:

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 150mm 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

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:

- 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 he 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 Sqm.

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.

SECTION 400 - SUB-BASES, BASES (NON-BITUMINOUS) AND SHOULDERS:

Clause 401.4.1 Substitute “Smooth wheeled roller” by “Vibratory Roller” or as approved by Engineer-In-charge.

Clause 401.4.2 Spreading and Compacting

The following shall be added to Paragraph 1:

“The thickness of the loose layers shall be so regulated that the maximum thickness of the layer after compaction does not exceed 150 mm.”

The fifth paragraph of this Clause shall be as under:

“Immediately thereafter, rolling shall start with the help of a vibratory roller of minimum 80 to 100 KN static weight with plain drum or pad foot drum of heavy pneumatic tire roller of minimum 200 to 300 KN weight having a minimum tire pressure of 0.7 kN/m² or adequate capacity capable of achieving the required compaction. Rolling shall commence at the lower edge and proceed towards the upper edge longitudinally for portions having unidirectional cross fall and super-elevation and shall commence at the edges and proceed towards the crown for portions having cross falls on both sides.”

Clause 401.7 Measurement for payment:

Add paragraph 3 as under:

For carrying out full depth repair and/or reconstruction of road pavement, if the granular sub-base materials laid on the shoulders for diversion of traffic (as per clause 112) is required to be scarified/removed and re-laid after compensating the loss during handling and by movement of traffic on completion of Full depth repair/reconstruction of road pavement, this operation shall be considered incidental to the work of providing granular sub-base and no extra payment shall be made for the same.

Clause 404.2.1 Coarse aggregate:

Amend this clause as under:

Coarse aggregate shall be either crushed or broken stone. The

Clause 404.2.3

Clause 404.2.4

Clause 404.3.4

Page 83 of 98

cannot reach.”

“After preparing the granular surface as in Clauses 501.8.3.1 and 501.8.3.2, the profile corrective course with materials as per Clause 501.8.2.3/501.8.2.4 shall be laid and compacted to the requirement of particular Specification Clause.”

Clause 502 Prime Coat Over Granular Base:

Clause 502.2.3 The type of bitumen emulsion shall be slow setting.

Clause 503 Tack Coat

Clause 503.2.1 The type of bitumen emulsion shall be medium setting.

Clause 504 Bituminous Macadam:

Clause 504.2 Materials

Clause 504.2.1 Bitumen:

The penetration grade of bitumen shall be 60/70.

Clause 507 & 509 Bitumen

The penetration grade of bitumen shall be 60/70.

Clause 507.9 For DBM, Clause 508.9 for SDBC and Clause 509.9 for BC

These clauses stand amended to the extent that the rate shall cover the provision of bitumen in the mix as per job mix formula. No variation in the rate for this item will be admissible on account of quantity of bitumen used.

Clause 801

801 TRAFFIC SIGNS

801.1 GENERAL

801.1 The color, 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 reflectorized as shown on the drawings or as directed by the Engineer. They shall be of retro-reflectorized 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, colored retroreflective sheeting comprising un metalized micro prismatic element material as per IRC:67:2010 or durable transparent, colored 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 aluminum sheet, aluminum composite panel, fiber glass sheeting, or sheet molding compound. Aluminum sheets used for sign boards shall be of smooth, hard and corrosion resistant aluminum alloy conforming to IS:736-Material designation 24345 or 1900. Aluminum Composite Panel and other materials shall meet the relevant ASTM (D903, E8, E393, 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 Aluminum and 3 mm thick with Aluminum Composite Material. All other signs shall be at least 2 mm thick with Aluminum and 4 mm thick with Aluminum 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 Aluminum 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 Traffic Signs having Retro-Reflective Sheeting

801.3.1 General requirements: The retro-reflective sheeting used on the sign shall consist of the white or colored sheeting having a smooth outer-surface which has the property of retro-reflection over its entire surface. It shall be weather-resistant and show color fastness. It shall be new and unused and shall show no evidence of cracking, scaling, pitting, blistering, edge lifting or curling and shall have negligible shrinkage or expansion. A certificate of having tested the sheeting for co-efficient of retro-reflection, day/night time color luminous, shrinkage, flexibility, linear removal, adhesion, impact resistance, specular gloss and fungus resistance 3 years outdoor weathering and its having

passed these tests shall be obtained from a Government Laboratory, by the manufacturer of the sheeting. The retro- reflective sheeting shall be either of Engineering Grade material with enclosed lens, High Intensity Grade with encapsulated lens or Micro-prismatic Grade retro-reflective element material as given in Clause below

801.3.2 Micro Prismatic Grade Sheeting (Type XI): Retro reflective sheeting typically manufactured as a cube corner. The reflective sheeting shall be retro reflective sheeting made of micro prismatic retro reflective material. The retro reflective surface, after cleaning with soap and water and in dry condition shall have the minimum co-efficient of retro reflection (determined in accordance with ASTM D 4956-09) as indicated in Table 800

Table 800 Acceptable Minimum Coefficient of Retro-reflection for Type XI Prismatic Grade Sheeting (Candelas per Lux per Square Meter)

Observation Angle	Entrance Angle	white	Yellow	Orange	Green	Red	Blue	Brown	Florescent yellow -Green	Florescent yellow	Florescent Orange
0.1° ^B	-4°	830	620	290	83	125	37	25	660	500	250
0.1° ^B	+30°	325	245	115	33	50	15	10	260	200	100
0.2°	-4°	580	435	200	58	87	26	17	460	350	175
0.2°	+30°	220	165	77	22	33	10	7	180	130	66
0.5°	-4°	420	315	150	42	63	19	13	340	250	125
0.5°	+30°	150	110	53	15	23	7	5	120	90	45
1.0°	-4°	120	90	42	12	18	5	4	96	72	36
1.0°	+30°	45	34	16	5	7	2	1	36	27	14

A Minimum Coefficient of Retro reflection (R_A) ($\text{cd.lx}^{-1}.\text{m}^{-2}$).

B Values for 0.1° observation angles are supplementary requirements that shall apply only when specified by the purchaser in the contract or order.

When totally wet, the sheeting shall show not less than 90 percent of the values, of retro reflection indicated in above Table. At the end of 10 years, the sheeting shall retain at least 80 percent of its original retro-reflectance.

801.3.3 Messages / borders: The messages (legends, letters, numerals etc.) and borders shall either be screen-printed or of cut-outs from durable transparent overlay or cut-out from same type of reflective sheeting (excluding for black color) for the cautionary/ mandatory signs. Screen printing shall be processed and finished with materials and in a manner specified by the sheeting manufacturer. For the information and other signs, the messages (legends, letters, numerals etc.) and borders shall be cut-out from durable transparent overlay film or cut out from same reflective sheeting only. Cut-outs shall be bonded with the sheeting in the manner specified by the manufacturer. Both the screen-printed areas and cut-out messages sheeting and cut-out durable transparent overlay film shall be covered under the warranty period of the sheeting type, issued by the sheeting manufacturer

801.3.4 For screen-printed transparent colored areas on white sheeting, the coefficient of retro-reflection shall not be less than 50 per cent of the values of corresponding color in Tables 800 as applicable.

801.3.4.1 Cut-out messages and borders, wherever used, shall be made out of retro-reflective sheeting (as per Clauses 801.3.2 as applicable), except those in black which shall be of non-reflective sheeting.

801.3.5 Color: Unless otherwise specified, the general color scheme and properties shall be as stipulated in ASTM 4956-09. The colors shall be durable and uniform in acceptable hue when viewed in day light or under normal headlights at night and in inclement weather conditions.

801.3.6 Adhesives: The sheeting shall have either a pressure-sensitive adhesive of the aggressive-tack type requiring no heat, solvent or other preparation for adhesion to a smooth clean surface, or a tack free adhesive activated by heat, applied in a heat-vacuum applicator, in a manner recommended by the sheeting manufacturer. The adhesive shall be protected by an easily removable liner (removable by peeling without soaking in water or other solvent) and shall be suitable for the type of material of the base plate used for the sign. The adhesive shall form a durable bond to smooth, corrosion and weather resistant surface of the base plate such that it shall not be possible to remove the sheeting from the sign "base in one piece by use of sharp instrument. In case of pressure-sensitive adhesive sheeting, the sheeting shall be applied in accordance with the manufacturer's Specifications. Sheeting with adhesives requiring use of solvents or other preparation for adhesive shall be applied strictly in accordance with the manufacturer's instructions.

801.3.7 Refurbishment: Where existing signs are specified for refurbishment, the sheeting shall have a semi-rigid aluminum backing or materials as per Clause 801.2.5, pre-coated with aggressive-tack type pressure sensitive adhesive. The adhesive shall be suitable for the type of material used for the sign and should thoroughly bond with that material.

801. 3.8 Fabrication

801.3.8.1 Surface to be reflectorized shall be effectively prepared to receive the retro-reflective sheeting. The sheeting of the material as per IRC: 67:2010, shall be degreased either by acid or hot alkaline etching and all scale/dust/ coating of any type removed/ scrubbed to obtain a smooth plain surface before the application of retro-reflective sheeting. If the surface is rough, approved surface primer may be used. After cleaning, metal shall not be handled, except by suitable device or clean canvas gloves, between all cleaning and preparation operation and application of reflective sheeting/primer. There shall be no opportunity for the substrate to come in contact with grease, oil or other contaminants prior to the application of retro-reflective sheeting.

801.3.8.2 Complete sheets of the material shall be used on the signs except where it is unavoidable; at splices, sheeting with pressure sensitive adhesives shall be overlapped not less than 5 mm. Where screen printing with transparent colors is proposed, only butt

jointing shall be used. The material shall cover the sign surface evenly and shall be free from twists, cracks and folds. Cut-outs to produce legends and borders shall be bonded with the sheeting in the manner specified by the manufacturer.

801.3.9 Warranty and durability: The Contractor shall obtain from the manufacture a ten-year warranty for satisfactory field performance including stipulated retro-reflectance of the retro-reflective sheeting of micro-prismatic sheeting, a seven-year warranty for high intensity grade and a five-year warranty for the sheeting of engineering grade and submit the same to the Engineer. In addition, a ten-year, seven year and a five-year warranty for satisfactory In-field performance of the finished sign with retro-reflective sheeting of micro prismatic, high intensity grade and engineering grade respectively, inclusive of the screen printed or cut out letters/legends and their bonding to the retro-reflective sheeting shall be obtained from the contractor/supplier and submitted to the Engineer. The Contractor/ supplier shall also furnish the LOT numbers and certification that the signs and materials supplied against the assigned work meets all the stipulated requirements and carry the stipulated warranty and that the contractor/supplier is the authorized converter of the particular sheeting:

All signs shall be dated during fabrication with indelible markings to indicate the start of warranty. The warranty shall also cover the replacement obligation by the sheeting manufacturer as well as contractor for replacement/repair/restoration of the retro-reflective efficiency.

A certificate in original shall be given by the sheeting manufacturer that its offered retro-reflective sheeting has been tested for various parameters such as co-efficient of retro-reflection, day/night time color and luminance, shrinkage, flexibility, linear removal, adhesion, impact resistance, specular gloss and fungus resistance and 3 year outdoor weathering; the tests shall be carried out by a Government Laboratory in accordance with various ASTM procedures and the results must show that the sheeting have passed the requirements for all the above mentioned parameters. A copy of the test reports shall be attached with the certificate.

801.4 Installation

801.4.1 The traffic signs shall be mounted on support posts, which may be of GI pipes conforming to IS: 1239, Rectangular Hollow Section conforming to IS :4923 or Square Hollow Section conforming to IS:3589. Sign posts, their foundations and sign mountings shall be so constructed as to hold these in a proper and permanent position against the normal storm wind loads or displacement by vandalism. Normally, signs with an area up to 0.9 sqm shall be mounted on a single post, and for greater area two or more supports shall be provided. Post-end(s) shall be firmly fixed to the ground by means of properly designed foundation. The work of foundation shall conform to relevant Specifications as specified.

801.4.2 All components of signs (including its back side) and supports, other than the reflective portion and G.I. posts shall be thoroughly de scaled, cleaned, primed and painted with two coats of epoxy/ fiber glass/ powder coated paint, any part of support

post below ground shall be painted with protective paint.

801.4.3 The signs shall be fixed to the posts by welding in the case of steel posts and by bolts and washers of suitable size. After the nuts have been tightened, the tails of the bolts shall be furred over with a hammer to prevent removal.

801.5 Measurements for Payment

The measurement of standard cautionary, mandatory and information signs shall be in numbers of different types of signs supplied and fixed, while for direction and place identification signs, these shall be measured by area in square, meters.

801.6. Rate

The Contract unit rate shall be payment in full for the cost of making the road sign, including all materials, installing it at the site furnishing of necessary test certificates, warranty and incidentals to complete the work in accordance with these Specifications.

Note: The warranty as specified in clause- 801.3.9 should be in the name of NHIDCL and it must be deposited to the PD.

802 OVERHEAD SIGNS

802.1 General

802.1.1 Overhead signs may be used in lieu of, or as an adjunct to, kerb mounted signs where the situation so warrants for proper information and guidance of the road users. The following conditions may be considered while deciding about the provision of overhead signs:

- Traffic volume at or near capacity
- Complex interchange design
- Three or more lanes in each direction
- Restricted sight distance
- Closely spaced interchanges
- Multi.-lane exits
- Large percentage of commercial vehicles
- High speed traffic

804 Reflective Pavement Markers (Road Studs/Cat eyes)

804.1 General

The work cover the providing and mixing of reflective pavement marker (RPM) or road stud, a device which is bonded to or anchored within the road surface for lane marking and delineation for nighttime visibility. It reflects incident light in directions close to the direction from which it came.

804.2 Material

804.2.1 Plastic body of RPM/road stud shall be molded from ASA (Acrylic Styrene Acrylonitrile) or HIPS (Hi-impact Polystyrene) or Acrylonitrile Butadiene Styrene (ABS) or any other suitable material approved by the Engineer. The markers shall support a load of 13635 kg tested in accordance with ASTM D 4280.

804.2.2 Reflective panels shall consist of number of lenses containing single or dual prismatic cubes capable of providing total internal reflection of the light entering the lens face. Lenses shall be molded of methyl methacrylate conforming to ASTM D 788 or equivalent.

804.3 Design

The slope or retro-reflecting surface shall preferably be 35+5 degree to base and the area of each retro-reflecting surface shall not be less than 13.0 sqcm.

804.4 Optical Performance

804.4.1 Unidirectional and bi-directional studs

Each reflector or combination of reflectors on each face of the stud shall have a Coefficient of Luminous Intensity (C.I.L.) not less than that given in Table 800-12 or Table 800-13 as appropriate.

804.4.2 Omni-directional studs

Each Omni-directional stud shall have a minimum (C.I.L.) of not less than 2 mcd/lx

Table 800-12 Minimum C.I.L. Values for Category „A” studs

Entrance Angle	Observation angle	White	C.I.L. in mcd/lx Amber	Red
0°U 5° L&R	0.3°	220	110	44
0°U 10° L&R	0.5°	120	60	24
Table 800-13 Minimum C.I.L. Values for Category „B” studs				
Entrance Angle	Observation angle	White	C.I.L. in mcd/lx Amber	Red
0°U 6° L&R	0.3°	20	10	4
0°U 10° L&R	0.5°	15	7.5	3

Note: 1) The entrance angle or 0°U corresponds to the normal aspect of the reflectors when the reflecting road stud is installed in horizontal road surface.

2) A stud that incorporates one or more corner cube reflectors shall be considered to be included in category „A”. A stud that incorporates one or more bi-convex reflectors shall be considered to be included in category „B”.

804.5 Tests

804.5.1 Coefficient of luminance intensity can be measured by procedure described in ASTM E 809 “Practice for Measuring Photometric Characteristics” or as recommended in BS: 873 - Part 4:1973.

- 804.5.2 Under test conditions, a stud shall not be considered to fail the photometric requirements if the measured C.I.L at any one position of measurement is less than the values specified in Table 800-12 or 800-13 provided that
- (i) the value is not less than 80% of the specified minimum, and
 - (ii) the average of the left and right measurements for the specific angle is greater than the specified minimum.

804.6 Solar Powered Road Markers (Solar Studs)

The solar studs shall be made of Aluminum alloy and poly carbonate material which shall be absolutely weather resistance and strong enough to support a load of 13635 kg tested in accordance with ASTM D4280. Its color may be white, red, yellow, green or blue or combination as directed by the Engineer. Its water resistance shall meet the requirements of IP 65 in accordance with IS: 12063:1987 Category 2 for protection against water ingress. The dimensions of solar studs shall not be less than 100 mm x 100 mm x 10 mm. It shall have super bright LEDs so as to provide long visibility from a distance of more than 800m. Its flashing rate shall not be less than 1 Hz. It should be able to give the prescribed performance in the temperature range of -40°C to +55°C. Its life shall be not less than 3 years.

804.7 Fixing of Reflective Markers

804.7.1 Requirements

The enveloping profile of the head shall be smooth and the studs shall not present any sharp edges in traffic. The reflective portions of the studs shall be free from crevice or ledges where dirt might accumulate. All road studs shall be legibly marked with the name, trademark or other means of identification of the manufacturer. Marker height shall not exceed 20 mm. Marker width shall not exceed 130 mm. The base of the marker shall be flat within 1.3 mm. If the bottom of the marker is configured, the outermost faces of the configurations shall not deviate more than 1.3 mm from a flat surface. All road studs shall be legibly marked with the name, trade mark or other means of identification of the manufacturer.

804.7.2 Placement

The reflective marker shall be fixed to the road surface using the adhesives and the procedure recommended by the manufacturer. No nails shall be used to affix the marker, as nails are hazardous for the roads. Regardless of the type of adhesive used, the markers shall not be fixed if the pavement is not surface dry and on new asphalt concrete surfacing until the surfacing has been opened to traffic for a period of not less than 14 hours. The portions of the highway surface, to which the marker is to be bonded by the adhesive, shall be free of dirt, curing compound, grease, oil, moisture, loose or unsound layers, paint and any other material which would adversely affect the bond of the adhesive. The adhesive shall be placed uniformly on the cleaned pavement surface or on the bottom of the marker in a quantity sufficient to result in complete coverage of the area of contact of the marker with no voids present and with a slight excess after the marker has been lightly pressed in place. For epoxy installations, excess adhesive around the edge of the marker, excess adhesive on the pavement and adhesive on the exposed surfaces of the markers shall be immediately removed.

804.7.3 Warranty and durability

The contractor shall obtain from the manufacturer a two-year warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel and submit the same to the Engineer, In addition, a two year warranty for satisfactory infield performance of the finished road marker shall also be given by the contractor who carried out the work of fixing of reflective road markers. In case the markers are displaced, damages, get worn out or lose their reflectivity compared to stipulated standards, the contractor would be required to replace all such markers within 15 days of the intimation from the Engineer at his own cost.

804.8 Measurement for Payment

The measurement of reflective road markers shall be in numbers of different types of markers supplied and fixed.

804.9 Rate

The contract unit rate for reflective road markers shall be payment in full compensation for furnishing all labour, material, tools, equipment including incidental costs necessary for carrying out the work at site conforming to the specifications complete as per approved drawings or as directed by the Engineer.

Note: The warranty as specified in clause- 804.7.3 should be in the name of NHIDCL and it must be deposited to the BO.

SECTION 900 - QUALITY CONTROL FOR ROAD WORKS

Clause 901	General
	Amend the clause 901.10 as under:
Clause 901.10	For bitumen, cutback, emulsion, mild steel, cement and other similar material where essential tests are to be carried out at the manufacture's plant or at laboratories other than the site laboratory, the cost of samples, sampling, testing, and furnishing of the test certificates shall be borne by the Contractor. The frequency of tests regarding bitumen, cutback and emulsion in respect of its quality shall be as per the Table 900-4 of MOST Specification.

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."
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(SECTION-VII)

ADDITIONAL CONTRACT CONDITIONS

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1. INTRODUCTION:

Maintenance & Repair works of highway through one agency is the work of typical nature, which shall continue up to the expiry of construction period specified in the contract. The work shall include rectification of the damages setforth as per Repair & Maintenance Program at approved rates as quoted during bidding/ MoRTH / DSR and rectification of the sub-standard repair work at its own cost upto completion of the construction period for this contract. These works need attention, efficiency, continuous monitoring and responsive management. This package includes routine, periodic, recurrent and urgent maintenance activities to repair highway surface, shoulders, road side, drainage facilities. The works has scattered locations within specified time frame need to be performed confirming to specifications and standards in order to keep carriageway in perfect condition.

2. REPAIR & MAINTENANCE PROGRAM PLANNING:

The maintenance program planning shall be in two stages

a. **First Stage:** Within 7 days of issuance of Letter of Commencement by the Employer. Contractor & Engineer shall identify the activities of Routine Maintenance, which shall have to be taken up immediately who check the further deterioration of paved and unpaved surface of carriageway separately. To identify these activities formal field inspection shall be carried out by technical staff of Contractor & Engineer. A management meeting shall then be called within 2 (two) days of inspection to scrutinize the identified works and then these works shall be quantified. Engineer shall then issue indent to contractor for execution of these works specifying quantity to be executed at different locations, amount of works calculated on the basis of the unit rates quoted by contractor and date of completion. This part of work shall certainly be commenced not later then stipulated date of commencement.

b. **Second Stage:** Finalization of maintenance program: This activity shall begin with the stipulated date of commencement. The various steps proposed to be taken under this are as under :

- i. to carryout present state inspection of entire stretch of Highway by Contractor & Engineer.
- ii. To identify defects as per various available engineering characteristics of road & measurement of all defects in each sub-section (length of subsection shall be 200 m) based on representative measurements for 25 m length in each sub section. The extent of defects shall be recorded in forms finalized in consultation with NHIDCL for paved road, unpaved road and structure / furniture. All Defects with its extent shall be assessed in terms of length & area of the sub section, mentioning chainage (locations) in order to have exact estimate of work.
- iii. A comprehensive documentation shall be prepared separately by Engineer and Contractor mentioning their assessment of various types of defects in each km of road.
- iv. Management meetings shall be called within 15 days of inspection to finalize and then to quantity the defects after comparison of measured condition of road and maintenance intervention levels set out in this Section on commonly acceptable basis. This shall be followed by identification of particular maintenance work proposed to be carried out at site to make good the defects noted above, out of various alternatives available in BOQ.

3. ADDITIONAL CONDITIONS:

- 3.1 Before tendering, the tenderer shall inspect the site of work and shall full acquainthimself the above terms and conditions with regard to site, nature of soil, availability of material suitable location for execution of work and time involved in the work (over the entire duration of contract) including local conditions that restrictions, obstructions and other conditions, as required for satisfactory and timely execution of the work. His rates should take into consideration all such factors like supply and storage of materials, man and machinery, land etc. and contingencies. No claim whatsoever shall be entertained by the NHIDCL on this account.
- 3.2 The contractor must study the specifications and conditions carefully before tendering.
- 3.3 Before the start of the work, the contractor shall submit the program of execution of work, get it approved from the Engineer/ NHIDCL and strictly adhere the same for the timely completion of the project work.
- 3.4 The contractor shall have to make approaches to the site, if so required and keep them in good condition for transportation of labour and materials as well as inspection of work by the Engineer. Nothing extra shall be paid on this account.
- 3.5 The contractor shall all times carryout work on the highway in a manner creating No interference in the flow of traffic as per direction of Engineer/Employer and ensure continuity of traffic worthy carriageway during the Contract period at all the time.
- 3.6 All arrangements for traffic diversion during construction including M&R works for diversion road shall be considered as incidental to the work and contractor's responsibility and nothing shall be payable to him in this respect. However, if any new diversion road is constructed by the contractor, the same shall be paid separately.
- 3.7 The work shall be carried out in such a manner so as not to interfere or effect or disturb either works, being executed by other agencies, if any.
- 3.8 Any damage done by the contractor to any existing work shall be made good by him at his own cost.
- 3.9 The work shall be carried out in the manner complying in all respect with the requirement of relevant bye-laws of the local bodies under the jurisdiction of which the work is to be executed and nothing extra shall be paid on this account.
- 3.10 For completing the work in time, the contractor might be required to work in twoor more shifts including night shifts and no claim whatsoever shall be entertained on this account notwithstanding the facts that the contractor will have to pay to the labor and other staff engaged directly or indirectly on the work according to the provision of the law regulation and the agreement entered upon and/or extra amount for any other reason.
- 3.11 The contractor shall make his own arrangements for obtaining electric connection(s) as required and make necessary payment directly to the department concerned. The Department will however make all reasonable recommendations to the authority concerned in this regard.

- 3.12 The contractor or his authorized representative should always be available at the site of work to take instructions from Engineer or his authorized representative and ensure proper execution of work(s) or work should not be done in the absence of such authorized representative.
- 3.13 The structural and other drawings for the work, shall at all times, be properly corrected before executing the work.
- 3.14 The contractor shall maintain in good condition all works executed till the completion of the entire work allotted to the contractor.
- 3.15 No payment will be made to the contractor for damage caused by rains, or other natural calamities during the execution of works and no such claims on this account will be entertained.
- 3.16 Royalty at the prevalent rates and all other incidental expenditure shall have to be paid by the contractor on all the boulders, metal, earth, sand, bajri etc. collected him for the execution of the work direct to the concerned Revenue Authority of the state or central Govt. His rates are deemed to include all such expenditure and nothing extra shall be paid.
- 3.17 The contractor shall take all necessary measures for the safety of traffic during construction period, erect and maintain such barricades, including signs, markings, flags, lights and flagman, as necessary at either end of the excavation embankment and at such intermediate points as directed by the Engineer for the proper identification of construction area. The Contractor's rate shall include above items of work and nothing extra shall be paid to Contractor. He shall be responsible for all damages and accidents caused due to negligence on the part.
- 3.18 The contractor shall provide suitable barricading with suitably painted single row of the sheets about 3'0" wide (90cms) nailed or bolted with wooden poles spaced 2 to 3 meter apart and each pole 1.6m to 2m long, 8 cm to 10 cm dia. The poles will be embedded to mobile iron pedestal rings suitably framed for giving stable support without hindrances to the traffic as per direction of the Engineer/ NHIDCL
All management (including, watch and ward) of barricades shall be the full responsibility of the contractor. The barricade shall be removed only after completion of the work or part of the work. The contractor's rates which include all above items of work and nothing extra shall be paid to the contractor over and above his quoted rates.
- 3.19 The temporary warning lamps shall be installed at all barricades during the hours of darkness and kept lit at all times during these hours.
- 3.20 The malba/garbage, removed from the site shall be disposed off by the contractor at any suitable place as directed by the Engineer.
- 3.21 All work and materials brought and left upon the ground by the contractor or by his order for the purpose of forming part of the works are to be considered to be the property of the NHIDCL and the same are not to be removed or taken away by the contractor or any other person without special license and consent in writing of the Engineer/ NHIDCL but the NHIDCL is not be in any way responsible for any loss or damaged which may happen to or in respect of any such work or materials either by the same being lost or damaged by weather or otherwise.

- 3.22 The Contractor will be responsible to provide deep hand pump/tube well at site of work to make potable and safe drinking water to labour engaged in execution of work.
- 3.23 The rates for all items of work, unless clearly specified otherwise, shall include the cost of all labour, materials dewatering and other inputs involved in the execution of the items. If any reason contractor fails to quote his rate for any item provided in the schedule of quantities it will be assumed that contractor is ready to execute that item free of cost.
- 3.24 Unless otherwise provided in the schedule of quantities the rates tendered by the contractor shall be all-inclusive and shall apply to all heights, depths, leads and lifts.
- 3.25 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials.
- 3.26 The nature of work is such that contractor may have to carry out a part of work announced not less than Rs. 50,000/- (Fifty Thousand) or full work on short notice of 48 hours from Engineer in writing on site order book or through special messenger. Failure to comply with the instruction or delay in taking up the work as per schedule issued by the Engineer shall attract penalty clause as mentioned in the agreement. In addition a fine of Rs.1000/-per day for each day of default shall be recovered from contractor and decision of Engineer shall be final, binding and not open to arbitration.
- 3.27 Existing drains, pipes, cables, overhead wires, sewer lines, water line and similar services encountered in the course of the execution of the work shall be protected against the damages by the contractor. The contractors shall not store material or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.
- 3.28 The contractor will not have any claim in case of any delay by the Engineer in removal of trees or shifting, removing of telegraph, telephone or electric lines (overhead and underground), water and sewer lines and other structure etc. if any, which may come in the way of the work. However, suitable extension of time can be granted to cover such delay.
- 3.29 Stipulated material shall be arranged by the contractor at site of work or all the items where such materials are required.
- i) Tendered rates are exclusive of all taxes and levies payment under the respective statutes. However, pursuant to the constitution (46th amendment) Act 1982, it also further tax or levy is imposed by statute, after the date of receipt of tenders and the contractor there upon necessarily and properly pays such taxes/levies, the contractor shall be reimburse the amount so paid, provided such payment, if any, is not in the opinion of General Manager (P) / Executive Director(P) whose decision shall be final and binding) attributable to delay in execution of the work within the control of the contractor.
- ii) The contractor shall keep necessary books of account and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of Govt. and further shall furnish such other information/documents as Engineer may require.
- iii) The contractor shall within a period of 30 days of imposition of any

further tax or levy in pursuant to the constitution of (46th Amendment) Act 1982, given a written notice thereof to the Engineer that the same is given pursuant to this condition together with all necessary information relating thereto.

- 3.30 Contractor may be required to execute this work under foul position. The decision of the Engineer whether the position is foul or not shall be final and the binding of the contractor and nothing extra for executing the work in foul position is payable, beyond what is provided in the schedule of quantities.

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