



**NATIONAL HIGHWAYS AUTHORITY OF INDIA  
(MINISTRY OF ROAD TRANSPORT & HIGHWAYS, GOVT.OF INDIA)**

**Name of the work:** Annual Maintenance including Incident Management of Two laning with Paved Shoulders of Paramakudi to Ramanathapuram section from Km 81/064 to Km 120/484 of NH-87 (Old NH-49) in the State of Tamil Nadu on Item Rate Basis (2<sup>nd</sup> Call).

**(Tender No: NHAI/17011/01/123/2025/RO Madurai)**

**VOLUME - I**

The Regional Officer,  
National Highways Authority of India,  
2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza,  
No.1, Lake Area, Melur Main Road,  
Mattuthavani, Madurai – 625107.  
Phone: 0452-2588999

**June - 2025**

## **CONTENTS**

### **Volume-I**

<b>Title</b>	<b>Description</b>
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	SCOPE OF WORK
SECTION VII	TECHNICAL SPECIFICATIONS
SECTION VIII	IMPLEMENTATION MANUAL AND MAINTENANCE INTERVENTION LEVELS
ANNEXURE-I	INTEGRITY PACT

**(SECTION-I)**  
**NOTICE INVITING TENDER**

---

**(E-TENDERING MODE ONLY)**

## National Highways Authority of India RO - Madurai

### Notice Inviting Tender (National Competitive Bidding through e-Tendering mode only)

The National Highways Authority of India (NHAI) here by invites bids through “**e-tendering mode**” from experienced firms/organizations (here in after referred to as the “Bidders”) to bid for the works detailed in the table as mentioned below from the eligible bidders, excluding those firms who have been declared as non-per forming by NHAI or the firms those are black listed/debarred for a specified period by NHAI.

S. No.	Section	NH No.	Length in Km	State	Estimated Cost (Rs. in Lakh)
1	Annual Maintenance including Incident Management of Two laning with Paved Shoulders of Paramakudi to Ramanathapuram section from Km 81/064 to Km 120/484 of NH-87 (Old NH-49) in the State of Tamil Nadu on Item Rate Basis (2 <sup>nd</sup> Call).	87 (Old NH-49)	39.420	Tamil Nadu	<b>238.98</b> <b>(Excluding GST)</b>

Cost of Bid Documents (Non-Refundable): **Rs. 25,000/-**

E-Tender Processing Fee (Non-Refundable): **Nil.**

The preliminary requirements (detailed requirements are given in the Bid Document) of bidding firm/contractor for the above packages are mentioned as under:

Bid Security (Rs. in lakh)	Average turnover during the last 3 years (Rs. in lakh) (Excluding GST)	Work of a similar nature during the last 7 years (Rs. in lakh) (Excluding GST)	Time for completion
Rs. 4.78 Lakh	Rs. 71.69 Lakh	Single work of Rs 191.18 Lakh or Two works of Rs 119.49 Lakh or Three works of Rs 95.59 Lakh	12 Months

The Scope of Work: As per BOQ and as per Section VI.

It is mandatory for all the bidders to have a class-III Digital Signature Certificate (With Both DSC Components, i.e. Signing & Encryption in the name of the authorized signatory (who will sign the Bid)) from any of the licensed Certifying Agency (Bidders can see the list of licensed CA's from the link [www.cca.gov.in](http://www.cca.gov.in) to participate in e-tendering of NHAI).

To participate in the e-bid, it is mandatory for the Applicants to get themselves registered with the NHAI e-Tendering Portal (<https://etenders.gov.in>) to have a user ID & Password. The detailed tender document can be viewed/downloaded/purchased from the website (<https://etenders.gov.in>) from **11.06.2025 to 26.06.2025 (up to 12:00 Hrs IST)**.

The complete bid documents can be viewed/downloaded from the E-Tender Portal-NIC (<https://etenders.gov.in>) or [www.nhai.gov.in](http://www.nhai.gov.in) free of cost. To participate for bidding, bidder has to pay a non-refundable fee of the tender document i.e. **Rs. 25,000/-, through Online Mode Only** on or prior to the last date & time of submission of bid documents.

The Payment Should be made to:

Particulars	Details
Name of Beneficiary	National Highways Authority of India
Name of Bank	Canara Bank, Moondrumavadi, Madurai
Account No.	62093030000071
IFSC Code	CNRB0016209

The Bidder must upload Copy of Receipt (Indicating Reference No./Transaction ID) towards payment of cost of Bid document. The amendments /clarifications to the bid document if any will be hosted on the above website.

The bid should be submitted online in the prescribed format given in the website. No other mode of submission is acceptable. **However, Bidder must produce the originals of the Bid Security (EMD) viz., Bank Guarantee (along with SFMS Confirmation)/Demand Draft to this office on or before the bid due date.** The financial bid shall be opened online only of those bidders whose technical bid is found responsive.

*The authorized signatory holding Power of Attorney shall only be the Digital Signatory. In case the authorized signatory holding Power of Attorney and Digital Signatory are not the same, the bid shall be considered non-responsive.*

The last date for submission of Bid in online is **26.06.2025 up to 12.00 Hrs IST.** (as mentioned on the e-portal only) ("Bid Due Date"). The bids would be opened on **27.06.2025 at 12.00 Hrs IST** online at **Regional Office, National Highways Authority of India, 2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza, No.1, Lake Area, Melur Main Road, Mattuthavani, Madurai – 625 107**, representatives of the bidders (maximum of two) who choose to attend, may attend the online opening of the bids at Regional Office, National Highways Authority of India, 2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza, No.1, Lake Area, Melur Main Road, Mattuthavani, Madurai— 625107 on the date and time as mentioned above. However, such representatives shall be allowed to attend the opening of the bids only if they produce letter of authority on the letterhead of the bidder, at the time of opening of bids as mentioned above.

Key Dates for download/view/submission/opening of bid.

Availability of Bid Documents (last date & time of sale of Bid documents):	At:- <a href="https://nhai.etenders.gov.in">https://nhai.etenders.gov.in</a> From <b>11.06.2025 to 26.06.2025 (12.00 Hrs IST)</b>
Last date & time of submission of e-bids (Bid due date):	<b>Up to 26.06.2025 @ 12.00 Hrs IST</b>
<b>Last date &amp; time of submission of earnest money in physical form</b>	<b>Up to 26.06.2025 @ 16.00 Hrs IST</b>
The date & time of opening of bid online:	<b>27.06.2025, @ 12.00 Hrs IST</b> at RO- Madurai, 2 <sup>nd</sup> & 3 <sup>rd</sup> Floor, Vijay Krishna Plaza, No.1, Lake Area, Melur Main Road, Mattuthavani, Madurai – 625 107.

1. It is clarified that, the bidder shave to upload the details of the cost of the bid document, on or before the last date & time of sale of bid documents mentioned above on the e-tendering portal, otherwise, it will not be possible for them to upload thee-tender documents on the e-tendering portal. Bidders are advised to upload their bids well in time,to avoid last minutes rushon the server or complications in uploading.NHAI,in any case, will not be responsible for any type of problem in uploading the bid.

2. Submission of the Bids after the Bid Due date and time shall not be permitted. Time being display done e-tendering portal of NHAI ("Standard Time") shall be final and binding on Bidder. Bids are required to be submitted by Bidders, only as per the Standard Time and not the time as per their location/country.

3. The Bidders are advised to submit their Bids well before the Bid Due Date. The Authority shall not be responsible for any delay in submission of Bids for any reason including server and technical problems. NHAI reserves the right to accept or reject any or all Bids without assigning any reason thereof.

4. In case of any problem with the submission of the Bid, the Bidder may have the assistance of help desk or use the help manual given on the said website.

5. Following Three Independent External Monitors (IEMs) have been engaged by NHAI vide: NHAI/Policy Guidelines/Vigilance/2025, Policy Circular No. 5.12/2025 dated 18.03.2025.

- (i) Dr. Parvez Hayat, IPS (Retd.)
- (ii) Sh. Rajvir Singh, IA&AS (Retd.)
- (iii) Sh. Arun Kumar Gupta, Ex-CMD, SCI.

6. For any clarification, the office of the undersigned may be contacted.

**The Regional Officer,  
National Highways Authority of India, 2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza,  
No.1, Lake Area, Melur Main Road, Mattuthavani, Madurai-625107.  
Phone: 0452-2588999.  
Email: romadurai@nhai.org**

**(SECTION-II)**

**INSTRUCTIONS TO BIDDERS  
& APPENDIX TO BID**

**Section-II****Instructions to Bidders Table of Clauses**

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



## **Section- II**

### **Instructions to Bidders (ITB)**

#### **A. General**

##### **1. Scope of Bid**

- 1.1 The Employer (i.e. Chairman, National Highways Authority of India) 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 (Part I General Conditions of Contract).
- 1.3 Throughout these bidding documents, the terms “bid” and “tender” and their derivatives (bidder/tendered, bid/tender, bidding/tendering, etc.) are synonymous.

##### **2. Source of Funds**

- 2.1 The expenditure on this project will be met by National Highways Authority of India (NHAI).

##### **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-3, 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 form of Letter of Application as per formation Section-IV and other documents as per Section-III; scanned copy of written power of attorney of the signatory of the Bid to commit the Bidder. (Refer Clause 12.2 of IT Band Section-III Qualification Information).

- (b) Scanned copy of total monetary value of Civil Construction works performed for each of the last three years;
- (c) Scanned copy of experience certificate in works of a similar nature and size for each of the last seven years with certificates from the concerned officer of the rank of Executive Engineer or equivalent; clearly indicating date of start and date of completion.
- (d) Scanned copy of evidence of availability (either owned or leased or rented) of items of construction equipment named in Clause 4.4 B (b)(i).
- (e) Scanned copy of the CV of the technical personnel proposed to be employed for the Contract having the qualifications defined in Clause 4.4 B(b)(ii).
- (f) Scanned copy of reports on the financial standing of the Bidder, and a certificate from Chartered Accountant as a proof of turnover for the last three years;
- (g) Deleted
- (h) Deleted
- (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;
- (k) Deleted
- (l) Deleted.
- (m) **Self Certification**; Self-certification by the Bidder that its Bid meets the Local Content requirement for 'Class-I Local supplier'/'Class-II Local supplier', as the case may be. The Self-certification shall also have the details of the location(s) at which the local value addition is made. In case, bidder do not submit the aforesaid Certification, the bidder will be summarily treated as 'Non Local Supplier'. In case of procurement for a value in excess of Rs.10 crores, the 'Class-I Local supplier'/'Class-II Local supplier' shall have to provide a Certificate from the Statutory Auditor or Cost Auditor of the Company (in case of Companies) or from a practicing Cost Accountant or practicing Chartered Accountant (in respect of Suppliers other than Companies) giving the percentage of Local Content upon Construction of the Project.
- (n) Scanned copy of certificate regarding Compliance with Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

4.3 Bids from joint ventures are not allowed.

4.4 A. To qualify for the 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 the last three years ending 31<sup>st</sup> March of the previous financial year duly certified by a Chartered Accountant.(Not withstanding anything to the contrary contained herein, in the event that the bid due date falls within three months of the closing of the latest financial years, it shall ignore such financial year for the purpose of the bid and furnish annual financial turnover w.r.t. 3 years preceding in last financial year).
- (b) satisfactorily completed (not less than 90% of contract value), as a prime contractor (or as a nominated/approved sub contractor, provided further that all other qualification criteria are satisfied) similar works during last seven years ending last day of month previous to the one in which bids are invited, either of the following:
- Three similar completed works costing not less than an amount equal to each of **Rs. 95.59 lakh** (Excluding GST)
  - Two similar completed works costing not less than an amount equal to each of **Rs. 119.49 lakh** (Excluding GST).
  - One similar completed work costing not less than an amount equal to **Rs.191.18 lakh** (Excluding GST).

**(The similar work constitutes experience in Operation and Maintenance / Construction of 2/4/6 lane highway)**

(Escalation factors under shall be used to bring the value of such completed works to the level of current financial year i.e., 2025-26) Escalation factor (for the cost of works completed during the last 7 years & financial figures required for the calculation of bid capacity) may be taken as follows:

Year before	Multiplying Factor
One .....	1.10
Two .....	1.21
Three .....	1.33
Four .....	1.46
Five .....	1.61
Six.....	1.77
Seven.....	1.95

**The work may have been executed by the bidders as prime contractor or as anominated/approved sub-contractor. The similar work constitutes experience in the Operation and Maintenance /Construction of 2/4/6 lane highway.**

- (c) Deleted
- (d) Deleted
- (e) Deleted

#### 4.4 B (a) Each bidder must produce:

- (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) A Bidder is required to submit, along with its technical BID, a self-certification that the item offered meets the local content requirement for 'Class-I local Supplier' / 'Class-II local Supplier', as the case may be. The self-certification shall also have details of the location(s) at which the local value addition is made. In case, bidder has not submitted the aforesaid certification the bidder will be treated as 'Non- Local Supplier'.

In the above pretext, the Class-I Local Supplier, Class-II Local Supplier and the Non-Local Supplier are defined as under:

- i) 'Class-I local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content as prescribed for 'Class – I local Supplier' under this RFP. The 'local content' requirement to categorize a supplier as 'Class I local Supplier' is minimum 50%.
- ii) 'Class-II local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content as prescribed for 'Class –II local Supplier' under this RFP. The 'local content' requirement to categorize a supplier as 'Class-II local Supplier' is minimum 20%.
- iii) 'Non-local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than that prescribed for 'Class – II local supplier' under this RFP.
- iv) 'Local content' means the amount of value added in India which shall be the total value of item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

In case of procurement for a value in excess of Rs.10 crores, the 'Class-I local supplier' / 'Class-II local supplier' shall provide a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

In addition to this Public Procurement (Preference to Make in India), Order 2017 -Revision dated 19.07.2024 will be applicable. Format attached as **Annexure-I**.

- (iv) Certificate regarding Compliance with Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 as per Format attached. Format attached as **Annexure-II**.

- (v) **Failure to submit the certificates/documents as specified above at (i), (ii), (iii) and (iv) shall make the bid “Non-responsive”.**

(b) Each bidder must demonstrate:

- (i) Evidence of availability (either owned or leased or rented) of the key equipment for this work as stated in the Appendix to ITB and as per Form in Section III.
- (ii) Availability for this work of personnel with qualification & experience as stated in the Appendix to ITB.
- (iii) 'Non-local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than that prescribed for 'Class – II local supplier' under this RFP.

'Local content' means the amount of value added in India which shall be the total value of item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

In case of procurement for a value in excess of Rs.10 crores, the 'Class-I local supplier'/ 'Class-II local supplier' shall provide a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

In addition to this Public Procurement (Preference to Make in India), Order 2017 -Revision dated 19.07.2024 will be applicable. Format attached as Annexure-I.

(c) Deleted

- (d) Failure to demonstrate the certificates as specified above at (i), (ii) and (iii) may make the bid **Non-responsive**.

#### 4.4. C Deleted

- 4.5 Sub-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\*2.5-B)**

Where,

A = Maximum value of civil engineering works executed in any one year during the last three 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. 2025-26) taking in to account the completed as well as works in progress.

N = Number of years prescribed for completion of the works for which bid is invited.  
**(1 year)**

B = Value (updated to the price level of the year indicated in table below under note) of existing commitments, works **for which the Appointed Date/Commencement Date has been declared, or on-going works** to be completed during the period of completion of the works (12 Months) for which bid is invited. For the Sake of clarification, it is mentioned that works for which LOA has been issued but Appointed Date/Commencement Date not declared as on Bid Due Date shall not be considered while calculating value of B.

**Note:** The Statement showing the value of all existing commitments, works **for which Appointed Date/Commencement Date has been declared or on-going works** as well as the stipulated period of completion remaining for each of the works listed should be counter signed by the Client or its Engineer-in-charge not below the rank of Executive Engineer or equivalent or Concessionaire/Authorized of SPV in respect of BOT Projects and verified by Statutory Auditor. The factors for updation of the value of civil engineering works to the price level of the year are indicated as mentioned in Section II, ITB - 4.4 A (b).

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 NHAI 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 the work. A Bidder who submits more than one Bid will cause such bids to be disqualified.

## **6. Cost of Bidding**

6.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will, in no case, be responsible 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 **Project Director, Project Implementation Unit - Ramanathapuram, No. 4/1574, Kattorani East Street, Ramanathapuram-623 504** in this regard.

## **B. Bidding Documents (Online)**

### **8. Content of Bidding Documents**

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

Volume-I:

- i. Notice Inviting Tender
- ii. Instructions to Bidders & Appendix to Bid
- iii. Qualification Information
- iv. Forms of Bank Guarantee, Agreement, LOA, POA & Integrity Pact
- v. Conditions of Contract & Contract Data
- vi. Scope of work
- vii. Technical Specifications
- viii. Special Conditions of Contract
- ix. Implementation Manual & Maintenance Intervention Levels

Volume-II:

#### **Bill of Quantities**

*Bidders will be required to quote a single percentage above/below the overall estimated amount. This percentage would be applicable for all the items of work in the contract for working out the rates for each item of work. If anywhere in the bid document there is mismatch, the above said condition will be applicable.*

- 8.2 Deleted
- 8.3 The bidder is expected to examine carefully all instructions, conditions of 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 document may notify the Employer in writing or by e-mail (scanned copy) 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.
- 9.2.1 Deleted
- 9.2.2 Deleted
- 9.2.3 The bidder is requested to submit any questions in writing or by 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 raised (without identifying the source of the enquiry) and the responses given will be transmitted without delay on website. Any modifications of the bid documents as per clause 10, 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/ corrigendum 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 an addenda/corrigendum.

10.2 Any addendum thus issued shall be part of the bidding documents and shall be hosted on website of NHAI e-tendering portal.

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.

## **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 (i) Priced bill of quantities.

#### **12.2 Documents to be submitted online**

The two parts of the proposal (Technical bid & Financial bid) must be submitted through online mode only, with all pages numbered serially along with an index of submission as per procedure under e-tendering. Physical submission of the bid shall not be accepted.

The scanned copies of the following documents are required to be uploaded during submission of e-bid on the tendering portal of NHAI, as per clause 12.1 above.

- a) Proof of submission for Bid Document Fee (Online Mode)
- b) Original Written Power of Attorney of the signatory (whose digital signature certificate is used during e-tender submission) of the bidder to commit the bid
- c) Original Affidavit duly notarized and undertaking (format enclosed in Section-IV)
- d) Information to be submitted in Section III
- e) Integrity Pact.



- 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.	Scope of work
6.	Technical Specifications
7.	Implementation Manual and Maintenance Intervention Level

### 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 of NHAI. Bidders will be required to quote a single percentage above/below the overall estimated amount.

This percentage would be applicable for all the items of work in the contract for working out the rates for each item of work.

- 13.3 All duties, taxes (except GST), royalties and other levies payable by the Contractor under the Contractor for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder. Nothing extra shall be payable on this account except GST which shall be payable at the applicable rates. The GST shall be reimbursed (if applicable) subject to production of proof of such payment by the contractor specific to the subject work.
- 13.4 The rates and prices quoted by the Bidder are subject to adjustment during the performance of the contract in accordance with the provisions of Clause 43 of the Conditions of Contract **(no adjustment on any account will be admissible for contracts upto 12 month period)**.

### 14. Currencies of Bid and Payment

- 14.1 The unit rates given in the BOQ is in Indian Rupees. All payments shall be made in Indian Rupees.

### 15. Bid Validity

- 15.1 Bids shall remain valid for a period of **165 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 email. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be

required to extend the validity of his bid security for a period of the extension, and in compliance with Clause 16 in all respects

## **16. Earnest Money/ Bid Security/Forfeiture/Debarment**

**16.1** The Bidder shall furnish, as part of the Bid, Earnest Money/Bid Security, in the amount as specified in the NIT. (Bank Guarantee (Physical/e-BG)/ Demand Draft must be in favour of National Highways Authority of India).

**16.2** The Earnest Money shall, at the Bidder's option, be in the form of Bank Guarantee/Demand Draft only (the other form will not be acceptable) of any scheduled commercial bank approved by RBI having a net worth of not less than Rs.500 crore as per the latest annual report of the bank must be in the name of Employer and operatable at Delhi. In case of foreign bank (issued by a branch in India) the net worth in respect of the Indian operations shall only be taken into account. It shall be valid for 45 days beyond the validity of the bid. **Any bid having bid security for lesser value and shorter validity period shall be treated as non-responsive.**

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

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

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

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

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

**16.4** The Earnest Money of unsuccessful bidders will be returned within 28 days of the end of the Bid validity period specified in Sub-Clause 15.1.

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

**16.6** The Bid Security/Earnest Money will be forfeited:

- a) if the Bidder withdraws the Bid after its submission during the period of Bid validity;

- b) if the Bidder does not accept the correction of the bid price, pursuant to Clause 27; or
- c) in the case of a successful Bidder, if the Bidder fails within the specified time limit to:
  - i. Sign the Agreement; and/or
  - ii. Furnish the required Performance Security.

16.7 In case of forfeiture of bid security, the bidder shall also be debarred from participation in NHAI works for a period as decided by NHAI.

## **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.

## **D. Submission of Bids**

### **19. Marking of Bids**

19.1 The documents to be submitted in Online Mode should be as per clause 12.2 of ITB

19.2 DELETED.

19.3 DELETED.

19.4 DELETED.

19.5 DELETED.

### **20. Deadline for Submission of Bids**

20.1 Complete E-Bid to be uploaded on NHAI e-tender portal before due date & time.

20.2 The Employer may extend the deadline for submission of bids by issuing 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. DELETED

21.1 DELETED

### **22. Modification and Withdrawal of Bids**

22.1 Bidders may modify or withdraw their e-bids before the deadline prescribed in Clause 20.

22.2 DELETED.

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

## **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. '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 amount of Earnest Money, forms and validity shall be announced. Thereafter, the Employer at the opening as the Employer may consider appropriate, will announce the bidders' names and such other details.

23.3 The Employer will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Clause 23.1.

23.4 (i) The bids accompanied with valid Bid Security Declaration, bid document fee, Tender processing fee will be taken up for evaluation with respect to the Qualification Information and other information furnished in Part I of the bid pursuant to Clause 12.1.

(ii) Deleted

(iii) Deleted

(iv) 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.

(v) Bidders shall have to submit Originals of all documents as mentioned in Clause 12.2 after declaration of bid evaluation result by Authority.

- (vi) Bidder failing to submit the Original Documents as mentioned in Clause 12.2 shall be unconditionally debarred from bidding in NHAI projects for a period of 5 years.

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 except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with Clause 27.

25.2 Subject to sub-clause 25.1, no Bidder shall contact the Employer on any matter relating to his bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Employer, it should do so in writing.

25.3 Any effort by the Bidder to influence the Employer in the Employer's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidders' bid.

## **26. Examination of Bids and Determination of Responsiveness**

26.1 During the detailed evaluation of "Technical Bids", the Employer will determine whether each Bid

- (a) Meets the eligibility criteria defined in Clauses 3 and 4;

- (b) the required 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 and drawings etc.

26.2 DELETED.

26.3 DELETED.

## **27. Correction of Errors**

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

- a) Where there is a discrepancy between the rates in figures and in words, the rate in words will govern

27.2 The amount stated in the Financial Bid will be corrected by the Employer in accordance with the above procedure for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected, and the Bid Security shall be forfeited in accordance with Sub-Clause 16.6

## **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 In evaluating the bids, the Employer will determine for each Bid the evaluated Bid price by adjusting the Bid price after making any correction for errors pursuant to Clause 27;

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 of whole work or cost of one or more items to be performed under the contract, the Employer may require the Bidder to produce detailed price analysis 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 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. The amount of the additional increased performance security as decided by the Employer shall be final, binding and conclusive on the bidder.

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 Deleted

**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:

- i. to be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price.
- ii. Deleted.

**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 courier/ 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, and of routine maintenance of roads by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

32.2 The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause 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 **Ten Percent (10%)** of the Contract Price, valid for a period of 28 days after the expiry of defect liability period and sign the contract.

In case of abnormally low bids, the Selected Bidder, along with the Performance Security, shall also furnish to the Authority an irrevocable and unconditional guarantee from a Bank in the same form given at Appendix-VII towards an Additional Performance Security (the “Additional Performance Security”) for an amount calculated as under:

- i) If the Bid Price offered by the Selected Bidder is lower than 20% of the estimated project cost/cost put to tender, the additional performance security shall be calculated @ 20% of the difference in (i) Estimated Project Cost (as mentioned in RFP) - 20% of the Estimated Project Cost and (ii) the Bid Price offered by the selected Bidder.
- ii) Maximum limit of the additional Performance Security shall be limited to 10% of the bid price offered by the selected bidder. The Additional Performance Security shall be valid until 28 (twenty-eight) days after the issue of Completion Certificate under this Agreement.
- iii) The Additional Performance Security shall be treated as part of Performance Security.

33.2 The performance security shall be either in the form of a Bank Guarantee or fixed deposit Receipts, in the name of the Employer, from a Bank as specified in case of earnest money/bid security.

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**

34.1 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 bid for any work with National Highways Authority of India, if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for the contract, or in its execution. For the purpose of this clause, the following terms shall have the meaning hereinafter respectively assigned to them

- (a) “**Corrupt practice**” means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (For avoidance of doubt, offering of employment to, or employing, or engaging in any manner whatsoever, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly, with Bidding Process, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Authority, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process);



- (b) **"Fraudulent practice"** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process;

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

36. Preference to Make in India Order 2017-Revision dated 16.09.2020 will be applicable.

**Appendix to ITB****(4.4. B) (b) (i) The key equipment to be deployed on contract work.**

<b>Appendix to ITB</b>		
<b>(4.4.B) (b) (i)</b>	The key equipment to be deployed	
<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Age (in years)</b>
Patrol Vehicle with VTS	1	2
Crane of 20-tonne capacity with VTS	1	2
Mechanical Broom with VTS	1	2
Generator 250 KVA	1	5
Static Roller	1	5
Water Tanker (5000 liters Capacity)	1	5
Tractor with Trolley	1	5
Tipper (10 Tonne Capacity)	1	5
Front End Loader (0.6 cum. Bucket capacity)	1	5
Mobile Road Repair and Patching Machine	1	5

**Note:** The bidder must produce documentary evidence in support of his owning/leased/rented of the above equipment. In case the bidder proposes to hire or take the above equipment on lease, he should, along with the lease/rent agreement, attach the proof of ownership of these equipments with the company/entity from whom the equipment are proposed to be hired on lease/rent.

B (b) (ii) The Number of Technical Personnel, Qualifications and Experience will be as follows:

<b>Sl. No.</b>	<b>Personnel</b>	<b>Minimum Qualifications and Experience</b>	<b>Particular Experience (minimum requirement)</b>	<b>No. of Persons</b>
1	Project Manager	Graduation in Civil Engineering	5 years as Project Manager on NH / SH, bridge construction/Maintenance works	1
2	Site Engineer cum Surveyor Engineer	Diploma/Graduation in Civil Engineering.	5 years on highway construction / Maintenance works	2
3	Incident Cum Road property Manager Cum Route Operation Manager	Graduate from a recognized university + 5 years of experience	5 years on highway property management and maintenance	2

Note: The detailed and signed CV's of all the Key Technical Personnel, recently signed (not older than 3 months from the due date of submission of bid) by the key personnel him self, must be furnished along with the bid as per proforma given below. Non-compliance of the above or non-furnishing of the CV as above or conditional deployment of any of the above personnel or proposal to employ lesser number of personnel than above may make the bid non-responsive and a financial bid may not be opened.

**Format of Curriculum Vitae (CV) For Proposed Key Staff**

Photo

1. Proposed Position: \_\_\_\_\_
2. Name of Staff: \_\_\_\_\_  
\_\_\_\_\_
3. Date of Birth: \_\_\_\_\_ (Please furnish proof of age)
4. Nationality: \_\_\_\_\_
5. Educational Qualification:  
(Summarize college/university and other specialized education of staff member, giving names of schools, dates attended and degrees obtained).  
(Please furnish proof of qualification)  
Contact Address with Phone and mobile numbers:
6. Membership of Professional Societies: \_\_\_\_\_
7. Publication:  
(List of details of major technical reports/papers published in recognized national and international journals)
8. Employment Record:  
(Starting with present position, list in reversed order and every employment held. List all positions held by staff member since graduation, giving dates, names of employing organization, title of positions held and location of assignments. For experience *period of specific assignment must be clearly mentioned*, also give client references, where appropriate).
9. Summary of the CV  
(Furnish a summary of the above CV. The information in the summary shall be precise and accurate. The information in the summary will have bearing on the evaluation of the CV).
  - A) Education:
    - i) Field of Diploma/Graduation and year
    - ii) Field of post-graduation and year
    - iii) Any other specific qualification
  - B) Experience
    - i) Total experience in highways: \_\_\_\_\_ Yrs
    - ii) Responsibilities held:
      - i) Yrs.
      - ii) Yrs.
      - iii) Yrs.
    - iii) Relevant Experience: \_\_\_\_\_ Yrs.

- C) Permanent Employment with the Firm (Yes/No):  
If yes, how many years:  
If no, what is the employment?  
Arrangement with the firm?

**Certification:**

- 1 *I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage myself in any other assignment during the currency of this assignment on the project*
- 2 I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes myself my qualifications and my experience.

Signature of the Candidate\_\_\_\_\_

Place:\_\_\_\_\_

Date:\_\_\_\_\_

Signature of the Authorized Representative of  
the firm\_\_\_\_\_

Place

Date

**Note:** Each page of the CV shall be signed in ink by both the staff member and the Authorized Representative of the firm.

**Annexure - I**

(on the letter head of the bidder)

**Self Certificate towards Local Content**

To,

The Regional Officer  
National Highways Authority of India  
Madurai Region,  
2<sup>nd</sup> & 3<sup>rd</sup> floor, Vijay Krishna Plaza,  
No.1, Lake Area, Melur Main Road,  
Mattuthavani, Madurai - 625 107.

**Sub:** Name of Work : .....

Dear Sir,

With reference to your Bid document dated \*\*\* \*\*\$, I/we, (Name of bidder...), having examined the Bidding Documents and understood their contents, hereby certified that the items offered in our Bid meets the local content requirement for

(a) **‘Class-I local supplier’** contributing minimum local content 50%.

(OR)

(b) **‘Class-II local supplier’** contributing minimum local content 20%.

(OR)

(c) **‘Non Local supplier’** contributing local content less than 20%.

(\*Please strike out whichever is not applicable)

‘Local Content’ means the amount of value added in India which shall be the total value of item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.

Details of locations (s) at with the local value addition is made is as follows :

S.No.	Description (Items)	Percentage of local content	Locations

Date:

Place:

Yours faithfully,

(Signature of the Authorised signatory)

(Name and designation of the of the Authorised signatory)

Name and seal of Bidder

**Note:**

{In case of procurement for a value in excess of Rs. 10 crores, the ‘Class – I local Supplier’/‘Class – II local Supplier’ shall provide a certificate from the statutory auditor or cost auditor of the Company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than Companies) giving the percentage of local content.}

## Annexure – II

(on the letter head of the bidder)

**Certificate regarding Compliance with Restrictions under Rule 144 (xi) of the  
General Financial Rules (GFRs), 2017**

To,

The Regional Officer  
National Highways Authority of India  
Madurai Region,  
2<sup>nd</sup> & 3<sup>rd</sup> floor, Vijay Krishna Plaza,  
No.1, Lake Area, Melur Main Road,  
Mattuthavani, Madurai - 625 107.

**Sub:** BID for \*\*\*\*\* Project.

Dear Sir,

With reference to your RFP document dated \*\*\* \*\*\$, I/we, having examined the Bidding Documents and understood their contents, hereby undertake and confirm as follows:

*I/We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries;*

*I certify that this Bidder is not from such a country or, if from such a country, has been registered with the Competent Authority as defined in Public Procurement Order No. F.No.6/18/2019-PPD dated 23<sup>rd</sup> July 2020s and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.*

*I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered.*

Yours faithfully,

Date:

Place:

(Signature of the Authorized Signatory)  
(Name and designation of the Authorized Signatory)  
Name and seal of Bidder/Lead Member

**Notes:**

{Where applicable, evidence of valid registration by the Competent Authority shall be attached}. In case the above certification is found to be false, this would be a ground for immediate rejection of Bid / termination and further legal action in accordance with law.

**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 on E-portal & Scanned Copies of documents to be submitted online will be used for the purposes of post qualification as provided for in Clause 4 of the Instructions to Bidders.

**Qualification Information****1. For Individual Bidders**

(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:

---

Power of attorney of signatory of Bid *[Upload scanned copy & also supply its Original Copy in an envelope of physical form]*

**1.3. Total value of Civil Engineering construction**

Work performed in the last three years (in Rs. Lakhs) refer ITB Clause 4.4A (a)  
(Upload scanned copies of certificate from Chartered Accountant & also supply original certificate from Chartered Accountant)

2022-2023

2023-2024

2024-2025

Total 

---

Average per year

1.4 (a) Work performed as prime contractor, work performed in the past as a nominated/approved subcontractor provided further that all other qualification criteria are satisfied (in the same name) of a similar nature during the last seven 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	Stipulate the period of Completion	Actual date of completion *	Remarks explaining the reasons for delay & work Completed

*\* Upload certificate(s) from the Employer (to be given by an officer at the rank of Executive Engineer or equivalent)*

Note: In case of nominated/approved sub-contractor, a certificate from the Executive Engineer or equivalent of the Prime Employer should be obtained from whom an approval for sub-contractor 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 ongoing 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 in the next N years (Rs. Cr)	Escalation factor	Anticipated Date of completion	Escalated value of remaining work during completion period of work for 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 was 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 is given in LOA	Stipulated period for completion	Value of work during the 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 = 1 year

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

Assessed Available Bid capacity =  $(A \times N \times 2.5 - B)$

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

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

**Note:** The bidder must upload the documentary evidence in support of his owning/leased/ rented of the above equipment. In case the bidder proposes to hire or take the above equipment on lease, he should, along with the lease/rent agreement, attach the proof of ownership of these equipment with the company/entity from whom the equipment are proposed to be hired on lease/rent.

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

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

Position	Name	Qualification	Total Professional Experience (Years)	Experience in the proposed position (Years)

**Note:** The detailed and signed CVs of all the Key Technical Personnel, signed by the key personnel himself, must be uploaded along with the bid as per Performa given in Appendix to ITB. Non-compliance of the above or non-furnishing of the CV as above or conditional deployment of any of the above personnel or proposal to employ lesser number of personnel than above may make the bid non-responsive and financial bid may not be opened.

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

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

## 2. Bidders should upload the scanned copy of the following affidavits/undertakings as per formats enclosed here in after &amp; also send original copy of Affidavit:-

- (i) Affidavit (it should be on stamp paper attested by Notary Public)
- (ii) Undertaking regarding minimum investment of cash flow towards working capital.
- (iii) Undertaking that the Bids shall remain valid for the period specified in Clause 15.1 of the ITB—165 Days.
- (iv) Letter of Application as per format in Section-IV

## AFFIDAVIT

**(it should be on stamp paper attested by Notary Public)**

1. I, the undersigned, do hereby certify that all the statements and documents made in the enclosed attachments are true and correct.
2. The undersigned also here by certifies that neither our firm M/s \_\_\_\_\_ have abandoned any work on National Highways in India nor any contract awarded to us for such works have been rescinded, during last five years prior to the date of this bid.
3. The undersigned hereby authorize(s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by NHAI 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 NHAI and with in the prescribed time.

\_\_\_\_\_  
(Signed by an Authorized Representative of the Firm)

\_\_\_\_\_  
Name of the Representative

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
DATE

To benotarized by Notary



## UNDERTAKING

I, the under signed 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

**Note:** It should not be later than one month before bid due date.

## UNDERTAKING

I, the undersigned, do hereby undertake that our firm M/s

\_\_\_\_\_ agree to abide by this bid for a period of **165 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

**Note:** It should not be later than one month before bid due date.

(On the letterhead of the bidder)

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

### **Undertaking**

I, the undersigned do hereby undertake that our firm M/s..... agree to provide and will deploy required equipment as mentioned in the Appendix to ITB of the work..... further

it is certified that the documents submitted as an evidence of availability of the key equipment for this work as stated in the Appendix to ITB, are genuine and correct. If anything contrary to the details as submitted is found at any stage NHA will be at liberty to debar/black list my firm for an appropriate period as decided by NHA.

\_\_\_\_\_  
(Signed by an Authorized Representative of the Firm)

\_\_\_\_\_  
Name of the Representative

\_\_\_\_\_  
Name of Firm

(Seal of the company)

\_\_\_\_\_  
Date

Note: It should not be later than one month before bid due date.

**(SECTION-IV)**

**FORMS OF BANK GUARANTEES  
LOA & AGREEMENT**

**FORM OF BANK GUARANTEE FOR BID SECURITY**

WHEREAS..... (Name of Tenderer) (herein after called the Tenderer) wishes to submit his tender for the work of.....herein after called "the Tender" KNOW

ALL MEN by these present that we.....(Name of Bank) of.....(Name of country) having our registered office at (.....) (herein after called the 'Bank') are bound unto the National Highways Authority of India (herein after called "the Employer") in the sum of the Rs.(Rupees.....)\*for which payment can truly be made to the said Employer. The Bank bind themselves, their successors and assigns by these present with the common seal of the Bank this day..... of.....and undertake to pay the amount of.....Rs.....to the employer upon receipt of his first written demand without the employer having to substantiate his demand.

The conditions of this obligation are:

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

or

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

(a) fails or refuses to execute the Form of Agreement in accordance with the instructions to bidders, if required; or

(b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders.

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

This guarantee will remain in force upto and including the date 45 days beyond the validity of the bid as stated in the Instructions to Bidders or as it may be extended by the Employer, at any time prior to the closing date for submission of the Tenders Notice of which extension to the Bank is hereby waived. Any demand in respect of this guarantee should be made on the Bank on or before the date of expiry of this guarantee.

This guarantee shall also be operatable at our **Canara Bank, Moonrumavadi branch at Madurai**, 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.....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.

This guarantee shall also be operatable at our branch at Madurai, 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.

***“The guarantor/bank hereby confirms that it is on the SFMS (Structural Finance Messaging System) Platform & shall invariably send and advise of this Bank Guarantee to the designated bank of NHAI after obtaining details there of from NHAI”.***

Particulars	Details
Name of Beneficiary	National Highways Authority of India
Name of Bank	Canara Bank, Moondrumavadi, Madurai
Account No.	62093030000071
IFSC Code	CNRB0016209

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

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

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

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

Date.....

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

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

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

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

**FORM OF BANK GUARANTEE FOR PERFORMANCE SECURITY**

To

The Regional Officer,  
National Highways Authority of India  
2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza,  
No.1, Lake Area, Melur Main Road,  
Mattuthavani,  
Madurai – 625107.  
Phone: 0452-2588999  
Email: romadurai@nhai.org

WHEREAS..... (Name and address of contractor)  
herein after called “the contractor” has undertaken, in pursuance of Letter of  
Acceptance No..... Dated.....to execute(name of Contract and  
brief description of Works)(Herein after called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the Contractor  
shall furnish you with a Bank Guarantee for the sum specified therein as security for  
compliance with his obligations in accordance with theContract;

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 with out 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 **Canara Bank, Moonrumavadi  
branch at Madurai**, from whom, confirmation regarding the issue of this guarantee  
or extension/renewal thereof shall be made available on demand. In the contingency  
of this guarantee being invoked and payment there under claimed, the said branch  
shall accept such invocation letter and make payment of amounts so demanded  
under the said invocation

*"The guarantor / bank hereby confirm that it is on the SFMS (Structural Finance Messaging System) Platform & shall invariably send and advice of this Bank Guarantee to the designated bank of NHAI after obtaining details thereof from NHAI".*

Particulars	Details
Name of Beneficiary	National Highways Authority of India
Name of Bank	Canara Bank, Moondrumavadi, Madurai
Account No.	62093030000071
IFSC Code	CNRB0016209

Not with standing 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 up on us on or before \_\_\_\_\_ all our liability under this guarantee shall cease.

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

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

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

Date.....

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

1.....

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

2.....

(Name, Address & Occupation)

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



**FORM OF LETTER OF APPLICATION**

To

The Regional Officer,  
National Highways Authority of India,  
2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza,  
No.1, Lake Area, Melur Main Road,  
Mattuthavani,  
Madurai-625107.  
Phone:0452-2588999  
Email:romadurai@nhai.org

DESCRIPTION OF WORKS:

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 NHAI reserves the right to reject any or all application without assigning any reason.

Thankingyou,

Yours faithfully,

(Authorized Signatory)

for and on behalf of M/s \_\_\_\_\_

**FORM OF LETTER OF ACCEPTANCE**

No.....

Dated.....

To M/s.....

Sub.: ..... Name of Work .....

Sir,

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

You are hereby requested to furnish Performance Security in the form detailed in para. 33.2 of ITB for an amount equivalent to Rs ..... (Rupees in words.....) within 10 days as per provisions of clause 33.1 of ITB of the bid document and sign the contract agreement failing which the actions as stipulated in clause 33.3 of ITB shall be taken.

Thank you,

Yours faithfully,

(.....)  
Regional Officer

**FORM OF AGREEMENT**

This agreement made the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_ between the National Highways Authority of India, (herein after called "the Employer" of the one part and \_\_\_\_\_ (here in after called "the Contractor") of the other part.

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

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

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

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

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this agreement words and expressions shall have the same meaning as are respectively assigned to them in the conditions of contract herein after referred to;
2. The following documents shall be deemed to form and be read and construed as part of this agreement viz.

- (a) Agreement,
- (b) Letter of Acceptance
- (c) Contractor's Bid including Financial Bid Form,
- (d) Contract Data,
- (e) Conditions of Contract
- (f) Technical Specifications,
- (g) Drawings, if any
- (h) Implementation Manual and Maintenance Intervention Level
- (i) Scope of Work
- (j) Bill of Quantities, and
- (k) Any other document listed in the Contract Data.

3. The foregoing documents shall be construed as complementary and mutually explanatory one with another. Should any ambiguity or discrepancy be noted then the order of precedence of these documents shall be subject to the order as listed above and interpreted in the above order of priority.

4. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the works and remedy any defects therein in conformity in all respects with the provisions of the contract.
5. The employer hereby covenants to pay the contractor in consideration of the execution and completion of the works and remedying of defects therein, the contract price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

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

Binding Signature of Employer\_\_\_\_\_

For and on behalf of National Highways Authority of India, RO- Madurai.

Binding Signature of Contractor\_\_\_\_\_

For and on behalf of M/s.\_\_\_\_\_

In the presence of

1. Name:  
Address:

2. Name:  
Address:

In the Presence of

1. Name:  
Address:

2. Name:  
Address:

**(SECTION-V)**

**CONDITIONS OF CONTRACT AND CONTRACT DATA**

## Table of Clauses

<p>A. General</p> <ol style="list-style-type: none"> <li>1. Definitions</li> <li>2. Interpretation</li> <li>3. Language and Law</li> <li>4. Engineer's Decisions</li> <li>5. Delegation</li> <li>6. Communications</li> <li>7. Sub contracting</li> <li>8. Other Contractors</li> <li>9. Personnel</li> <li>10. Employer's and Contractor's Risks</li> <li>11. Employer's Risks</li> <li>12. Contractor's Risks</li> <li>13. Insurance</li> <li>14. Site Investigation Reports</li> <li>15. Queries about the Contract Data</li> <li>16. Contractor to Construct the Works &amp; do maintenance</li> <li>17. The Works to Be Completed by the Intended Completion Date</li> <li>18. Approval by the Engineer</li> <li>19. Safety</li> <li>20. Discoveries</li> <li>21. Possession of the Site</li> <li>22. Access to the Site</li> <li>23. Instructions</li> <li>24. Deleted</li> <li>25. Arbitration</li> <li>26. Deleted</li> </ol> <p>B. Time Control</p> <ol style="list-style-type: none"> <li>27. Programme</li> <li>28. Extension of the Intended Completion Date</li> <li>29. Delays Ordered by the Engineer</li> <li>30. Management Meetings</li> </ol> <p>C. Quality Control</p> <ol style="list-style-type: none"> <li>31. Identifying Defects</li> </ol>	<ol style="list-style-type: none"> <li>32. Correction of Defects</li> <li>33. Uncorrected Defects</li> </ol> <p>D. Cost Control</p> <ol style="list-style-type: none"> <li>34. Bill of Quantities</li> <li>35. Variations</li> <li>36. Payments for Variations</li> <li>37. Cash Flow Forecasts</li> <li>38. Payment Certificates</li> <li>39. Payments</li> <li>40. Compensation Events</li> <li>41. Taxes and currencies for payment</li> <li>42. Price adjustment</li> <li>43. Security Deposit/Retention Money</li> <li>44. Liquidated Damages</li> <li>45. Advance Payment</li> <li>46. Securities</li> <li>47. Cost of Repairs</li> </ol> <p>E. Finishing the Contract</p> <ol style="list-style-type: none"> <li>48. Completion</li> <li>49. Taking Over</li> <li>50. Final Account</li> <li>51. Operating and Maintenance Manual</li> <li>52. Termination</li> <li>53. Payment upon Termination</li> <li>54. Property</li> <li>56. Release from Performance</li> </ol> <p>F. Other Conditions of Contract</p> <ol style="list-style-type: none"> <li>57. Labour</li> <li>58. Compliance with Labour Regulations</li> <li>59. Drawings and Photographs of the Works</li> <li>60. The Apprenticeship Act, 1961</li> </ol>
--	---

## Section V

### Conditions of Contract

#### 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 the period named in contract data and 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 NHAI, which varies the Works.

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

## 2. Interpretation

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



2.2 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 including Financial Bid Form,
- (d) Contract Data,
- (e) Conditions of Contract
- (f) Technical Specifications,
- (g) Drawings, if any
- (h) Implementation Manual and Maintenance Intervention Level
- (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 Contract or 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 the 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 the 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 work men 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 subcontracting; and
- b) The sub-Contractors 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.

7.5 In the event any sub-contract for Works, or the aggregate of such sub-contracts with any Sub-contractor, the Contractor shall communicate the name and particulars, including the relevant experience of the Sub-contractor, to the Authority prior to entering into any such sub-contract. The Authority shall examine the particulars of the Sub-contractor from the national security and public interest perspective and approve the sub-contract to the Contractor.

7.6 In the event any sub-contract referred to in Clause 7.5 relates to a Sub-contractor who has, over the preceding 3 (three) years, not undertaken at least one work of a similar nature with a contract value exceeding 40% (forty per cent) of the value of the sub-contract to be awarded hereunder, and received payments in respect thereof for an amount equal to at least such 40% (forty per cent).

## **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.

8.2 The Contractor should take up the works in convenient reaches as decided by the Engineer to ensure there is least hindrance to the smooth flow of traffic including movement of vehicles and equipment of other Contractors till the completion of the

## **9. Personnel**

9.1 The Contractor shall employ the technical personnel named in the Contract Data. The Engineer will approve any proposed replacement of technical personnel (except Project Manager) 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 a penalty of Rs 50,000/- per month in case of the Project Manager and Rs 25,000/- in case of other key personnel will be imposed up to a maximum period of 3 months. Thereafter, it will be treated as a breach of contract and action will be taken as per Clause 53. The replacement of the Project Manager will be approved by NHAI, Regional Officer, Madurai.

9.2 If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or workforce, 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 radio active toxic explosive, or (b) a cause due solely to the design of the Works, other than the Contractor's design.

## **12. Contractor's Risks**

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

## **13. Insurance**

13.1 The Contractor at his cost shall provide CAR Policy, 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 due.

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

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

#### **14. Site Investigation Reports**

14.1 The Contractor, in preparing the Bid, may rely on any Site Investigation Reports referred to in the Contract Data, supplemented by any other information available to him, before submitting the bid.

#### **15. Queries about the Contract Data**

15.1 **The Regional Office** will clarify queries on the Contract Data.

#### **16. Contractor to construct the Works & do maintenance**

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

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

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

#### **18. Approval by the Engineer**

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

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

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

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

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

## **19. Safety**

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

## **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 and to any place where material or plant are being manufactured /fabricated / assembled for the works 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**

25.1 In case of dispute or difference arising between the Employer and a Contractor relating to any matter arising out of or connected with this agreement, such disputes or differences shall be settled as set forth below:

- (i) The Dispute shall be finally referred to Society for Affordable Resolution of Disputes (herein after called as SAROD), a Society registered under Society's Act, 1860 vide Registration no. S/RS/SW1049/2013, duly represented by Authority and National Highways Builders Federation (NHBF). The dispute shall be dealt with in terms of Rules of SAROD. The

detailed procedure for conducting Arbitration shall be governed by the Rules of SAROD and provisions of Arbitration & Conciliation Act, 1996, as amended from time to time.

- (ii) The Dispute shall be governed by Substantive Law of India.
  - (iii) The appointment of Tribunal, Code of conduct for Arbitrators and fees and expenses of SAROD and Arbitral Tribunal shall also be governed by the Rules of SAROD as amended from time to time. The rules of SAROD are as per Annex-I.
  - (iv) Arbitration may be commenced during or after the Contract Period, provided that the obligations of Authority and the Contractor shall not be altered by reason of the Arbitration being conducted during the Contract Period.
  - (v) The seat of Arbitration shall be NewDelhi or a place selected by governing body of SAROD and the language for all documents and communications between the parties shall be English.
  - (vi) The expenses incurred by each party in connection with the preparation, presentation, etc., of arbitral proceedings shall be shared by each party itself.
- 25.2 The arbitrators shall make a reasoned award (the "Award"). Any Award made in any arbitration held pursuant to this Clause shall be final and binding on the Parties as from the date it is made, and the Contractor and the Authority agree and undertake to carryout such Award without delay.
- 25.3 The Contractor and the Authority agree that an Award may be forced against the Contractor and/or the Authority, as the case may be, and irrespective assets wherever situated.
- 25.4 This Agreement and the rights and obligations ofthe Parties shall remain in full force and effect, pending the Award in any arbitration proceedings hereunder.

## **25.5 Adjudication by Regulatory Commission or Authority**

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

## **26. Deleted**

### **B. Time Control**

## **27. Programme**

27.1 The Engineer shall issue the indent of work in stages specifying the time limit for the same as and when required. The Contractor shall submit to the Engineer for approval a programme 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 Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.

27.3 The Contractor shall submit to the Engineer for approval an updated Programme at intervals. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

27.4 The Engineer's approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Engineer again at any time. A revised Programme 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 NHAI 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 intended 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.

## **30. Management Meetings**

30.1 Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for the remaining Works and to deal with matters raised in accordance with the early warning procedure.

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 noticed. Such checking shall not absolve the contractor from its obligations and its responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work (existing work/work executed by the contractor) 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 technical specifications forming part of contract.
- b. For the correctness of the test results, whether performed in his laboratory or elsewhere.
- c. The Authority may engage third party for testing of executed items. The payment for the same would be made by the Authority.

32.2 If the Engineer instructs the Contractor to carry out a test not specified in the Specification to check whether any work (executed by the contractor) has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect, the cost of such tests shall be borne by the Authority otherwise, by the Contractor.

32.3 Subject to further condition in contract data

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

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

33.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the reasonable time specified by the Engineer's notice as per good industry practice. If any defect including shrinkage cracks, other faults appear in the work within defect liability period, the Engineer shall give Notice to the Contractor of such defects before end of defect liability period and shall extend the defect liability period as long as defects remain to be corrected.

### **34. Uncorrected Defects/Incomplete Works**

34.1 If the Contractor has not corrected the Defect, to the satisfaction of the Engineer, within the time specified in the Engineer's notice/indent, the Engineer will assess the cost of having the Defect corrected and get the defects rectified through some other agency and the Contractor will pay 1.2 times of this amount.



- 34.2 If the Contractor has not completed the work to the satisfaction of the Engineer, within the time specified in the Engineer's notice/indent, in no case exceeding one month, the Engineer will assess the cost of having the work completed and get the work completed through some other agency and the Contractor will pay this amount in addition to the damages specified as per clause 45.

## **D. Cost Control**

### **35. Bill of Quantities**

- 35.1 The Bill of Quantities shall contain items for the construction, installation, testing, and commissioning and maintenance 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**

Deleted

### **36. Variations**

- 36.1 All variations shall be included in updated programmes produced by the Contractor. Variation if any, arises will be submitted to employer for approval.

### **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.
- 37.2 If the rates for Variation are not specified in the Bill of Quantities, the Engineer shall derive the rate from similar items in the Bill of Quantities. If the rates are not specified in the bill of quantities but are available in SOR of State Public Works department/SDB, the Engineer shall derive the rates for such variation items at the rates of SOR/SDB reduced/increased in the same proportion as perdis count/premium quoted by the contractor and if it cannot be derived from similar item in Bill of Quantities or from SOR of State Public Works department/SDB, then the rate will be derived as per Clause 37.3. The decision of the employer in determination of rates for variations shall be final and binding on the contractor.
- 37.3 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 NHAI will be taken. As far as possible, the rate analysis shall be based on the standard data book and the current schedule of rates of the district public works division.

### **38. Cash Flow Forecasts**

- 38.1 When the Programme is updated, the Contractor shall provide the Engineer

with an updated cash flow forecast.

### **39. Payment Certificates**

- 39.1 The Contractor shall submit to the Engineer 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 7 days and certify the amount to be paid to the Contractor after taking into account any credit or debit for the month in question.
- 39.3 The value of work executed shall be determined based on measurements by the Engineer.
- 39.4 The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- 39.5 The value of work executed shall also include the valuation of Variations and Compensation Events.
- 39.6 The Engineer 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 to rectify the mistakes with detailed justification acceptable to the Employer.
- 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 Engineer's 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 has certified within 14 days of the date of each certificate.
- 40.2 Deleted
- 40.3 Deleted.

### **41. Compensation Events**

- 41.1 The following shall be Compensation Events unless they are caused by the Contractor:
- a) The Employer modifies the Schedule of other contractors in a way which affects the work of the contractor under the Contract.
  - b) The Engineer orders a delay or does not issue drawings, specifications or instructions required for execution of works in reasonable time
  - c) The Engineer instructs the Contractor to uncover or to carry out additional tests upon work which is then found to have no defects.

- d) The Engineer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
  - e) Other contractors, public authorities, utilities or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
  - f) The effect 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 Sales and other levies, duties, royalties, cess, toll, taxes (excluding GST and labour cess which shall be payable at applicable rates) 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

## **44. Security Deposit/Retention Money**

- 44.1 The Employer shall retain security deposit of five percent of the amount from each payment due to the Contractor until Completion of the whole of the Works.
- 44.2 The security deposit/retention money and the performance security will be released to the Contractor when the Defect Liability period is over, and the Engineer has certified that the Defects, if any, notified by the Engineer to the Contractor before the end of this period have been corrected.
- 44.3 If the contractor so desires then the Security Deposit/retention money can be released on submission of unconditional Bank Guarantee at the following two stages:-
- (a) At a point after the progress of work in financial term (gross value of work done) has reached 50% of the contract amount
  - (b) After the retention money has been deducted to the full value (5% of the Contract Amount).

**45. Liquidated Damages**

- 45.1 The Contractor shall pay liquidated damages to the Employer at the rate or part thereof stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor and/or Performance Bank Guarantee. 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 overpayment of liquidated damages.

**46. Advance Payment**

DELETED

**47. Securities**

- 47.1 Subject to further condition in contract data, the **Performance Security equal to Ten Percent (10%) 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 the unbalanced bids shall be valid until date 28 days from the date of issue of certificate of completion. The validity shall account for additional 45 days 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 When the whole of the works has been completed as per the provision of the Contract, the Contractor shall request the Engineer to issue a certificate of Completion of the Works. The Engineer shall, within 14 days of the date of receipt of such request, either issue to the Contractor, with a copy to the Employer, a completion certificate, stating the date on which, the works were completed in accordance with the contract, or give instructions in writing to the contractor specifying all the work which, in the Engineer's opinion, is required to be done by the Contractor before the issue of such certificate.

**50. Taking Over**

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

## **51. Final Account**

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

## **52. Operating and Maintenance Manual**

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

## **53. Termination/Foreclosure**

- 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 stop page of work is shown on the current Programme and the stoppage has not been authorized by the Engineer;
  - b) the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstitution or amalgamation;
  - c) the Engineer/Employer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
  - d) the Contractor does not maintain a Security, which is required;
  - e) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in clause 45;
  - f) the Contractor fails to provide insurance cover as required under clause 13;
  - g) If the Contractor, in the judgment of the Employer, has engaged in the

corruptor fraudulent practice in competing for or in executing the Contract. For the purpose of this paragraph, "Corrupt practice" means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (For avoidance of doubt, offering of employment to, or employing, or engaging in any manner whatsover, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly, with Bidding Process, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Authority, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process);

- h) **"Fraudulent practice"** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process; if the Contractor has not completed at least thirty percent of the value of Work required to be completed after half of the completion period has elapsed;
- i) If the Contractor fails to setup a field laboratory with the prescribed equipment, within the period specified; and
- j) Any other fundamental breach as specified in the Contract Data.

53.3 Without prejudice to any other right or remedies which the Employer may have under this contract, upon occurrence of a Contractor's fundamental breach of contract, the Employer shall be entitled to terminate this contract by issuing a Termination Notice to the Contractor; provided that before issuing the Termination Notice, the Employer shall by a Notice inform the Contractor of its intention to issue such Termination Notice and grant 15 days to the Contractor to make a representation, and may after the expiry of such 15 days, whether or not it is in receipt of such representation, issue the Termination Notice.

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

53.5 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible but in no case later than 7 days.

53.6 **Foreclosure**-NHAI may foreclose the contract before the expiry of the scheduled contract period on account of taking up the stretch for future development such as 4/6-laning or OMT of the highway or any such administrative decision by giving three months' Notice.

#### **54. Payment upon Termination/Foreclosure**

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 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 and Employer may recover the same from Performance Bank Guarantee.

In case of foreclosure of contract on account of proposed future development of the highway or otherwise, as specified in Clause 53.6, within a period of 18 months from the date of start of contract, the Engineer shall issue a certificate for the value of work done till foreclosure and balance value of work left out. The agency shall be compensated 10% of the balance value of work left beyond the Notice period, of the original contract amount, so certified by the Engineer and necessary deductions of income tax and other statutory taxes as applicable at that time will be made and the agency will not have any claim whatsoever on this account". In case, contract is foreclosed after the expiry of 18 months no such compensation will be admissible.

## **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 fundamental breach of contract.

## **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 thereunder, 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's 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 retires mentor 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. Construction of buildings, roads, runways are schedule demployment.

- g) **Payment of Wages Act 1936:-** It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- h) **Equal Remuneration Act 1979:-** The Act provides for payment of equal wages for work of equal nature to male and female workers and for not making discrimination against female employees in the matters of transfers, training and promotions etc.
- i) **Payment of Bonus Act 1965:-** The Act is applicable to all establishments employing 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 labouris 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 upto the establishment and back etc.

- o) **The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996:-** All the establishments who carry on any building or other construction work and employs 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
- p) Housing accommodations for workers near the workplace etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- q) **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. Drawing 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 for 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 Employer in writing. No photographs/ Video graphy shall be published or otherwise circulated without the approval of the Employer 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.

## **ANNEX-I**

### **ARBITRATION RULES OF SAROD**

#### **Rules**

1. Scope of Application
2. Definitions
3. Notice, Calculation of Periods of Time
4. Commencement of Arbitration
5. Response by Respondent
6. Filing of Case Statements
7. Contents of Case Statements
8. Default in Filing and Serving Case Statements
9. Further Written Statements
10. SAROD to Provide Assistance
11. Appointment of Tribunal
12. Multi-party Appointment of the Tribunal
13. Appointment of Sub-Statute Arbitrator
14. Independence and Impartiality of the Tribunal
15. Code of Ethics for Arbitrators
16. Challenge of Arbitrators
17. Decision on Challenge
18. Removal of the Tribunal
19. Re-hearing in the Event of Replacement of the Tribunal
20. Jurisdiction of the Tribunal
21. Fees of SAROD and Arbitral Tribunal
22. Transmission of File of the Tribunal
23. Juridical Seat of Arbitration
24. Language of Arbitration
25. Conduct of the Proceeding
26. Communications between Parties and the Tribunal
27. Party Representatives
28. Hearings
29. Documents- only Arbitration
30. Witnesses
31. Experts Appointed by the Tribunal
32. Rules applicable to substance of dispute
33. Closure of Hearings
34. Additional members of the Tribunal
35. Deposits to Costs and Expenses
36. Decision Making by the Tribunal
37. The Award
38. Additional Award
39. Correction of Awards

- 40. Settlement
- 41. Interest
- 42. Costs
- 43. Waiver
- 44. Exclusion of Liability
- 45. General Provisions
- 46. Amendment to Rules

## PREAMBLE

In order to seek speedy, affordable, just and reasonable Redressal of Dispute/Differences between NHAI and Concessionaire/Contractor arising out of and during the course of execution of various contracts, a Society for Affordable Redressal of Disputes (SAROD) has been formed as a Society under Societies Registration Act, 1860 with registration No. S/RS/SW/I044/2013. It has been formed by National Highways Authority of India (NHAI) and National Highways Builders Federation (NHBF) with founding members as mentioned in the Memorandum of Association of SAROD.

## SAROD ARBITRATION RULES

### Rule 1-Scope of Application

- 1.1 Where any agreement, submission or reference provides for arbitration at the Society for Affordable Redressal of Disputes ("SAROD"), or under the Arbitration Rules of the SAROD and where the case is a domestic arbitration shall be conducted in accordance with the following Rules, or such Rules as amended by the SAROD where the amendment take effect before the commencement of the Arbitration. Parties may adopt following clause for inclusion in the contract:-

"Any dispute or difference whatsoever arising between the parties and of or relating to the construction, interpretation, application, meaning, scope, operation or effect of this contract or the validity or the breach thereof, shall be settled by arbitration in accordance with the rules of arbitration of the "SAROD" and the award made in pursuance thereof shall be final and binding on the parties subject to Provisions of The Arbitration and Conciliation Act, 1996".
- 1.2 These rules shall come into effect from the day of approval by Governing Body of SAROD.

### Rule 2-Definitions

- 2.1 These Rules shall be referred to as "**the SAROD Arbitration Rules**".
- 2.2 In these Rules:

"**Act**" means the 'Arbitration and Conciliation Act 1996' of India and any statutory modifications or re-enactments thereof.

"**SAROD**" means the Society for Affordable Redressal of Disputes.

"**SAROD Arbitrator Panel**" means the list of persons admitted to serve as

arbitrators under these Rules.

“**NHAI**” means National Highways Authority of India.

“**NHBF**” means the National Highways Builders Federation.

“**GOVERNING BODY**” means Governing Body of SAROD as defined in Article 9 of Memorandum of Association.

“**PRESIDENT**” means President of Governing Body of SAROD as defined in Rules & Regulation of SAROD

“**SECRETARY**” means Secretary of SAROD as defined in Rules & Regulation of SAROD.

“**TRIBUNAL**” means either a Sole Arbitrator or all arbitrators when more than one is appointed.

“**PARTY**” means a party to an arbitration agreement,

“**E-Arbitration**” means submission of pleadings, defence statement etc by E-mail and holding of proceedings via video conferencing.

### **Rule 3-Notice, Calculation of periods of Time**

- 3.1 For the purposes of these Rules, any notice, including a notification, communication or proposal, is deemed to have been received if it is physically delivered to the addressee or if it is delivered at his habitual residence, place of business or mailing address, or, if none of these can be found after making reasonable inquiry, then at the addressee's last-known residence or place of business. Notice shall be deemed to have been received on the day it is so delivered.
- 3.2 For the purposes of calculating a period of time under these Rules, such period shall begin to run on the day following the day when a notice, notification, communication or proposal is received. If the last day of such period is an official holiday or a non-business day at the residence or place of business of the addressee, the period is extended until the first business day which follows. Gazetted public holidays or non-business days occurring during the running of the period of time are included in calculating the period.
- 3.3 With out prejudice to the effectiveness of any other form of written communication, written communication may be made by fax, email or any other means of electronic transmission effected to a number, address or site of a party.
- 3.4 The transmission is deemed to have been received on the day of transmission.

### **Rule 4-Commencement of Arbitration**

- 4.1 Any party wishing to commence an arbitration under these Rules (“the Claimant”) shall file with the Secretary and serve on the other party (“the Respondent”), a written Notice of Arbitration (“the Notice of Arbitration”) which shall include the following:
  - a. a request that the dispute be referred to arbitration;
  - b. the names, addresses, telephone numbers, fax numbers and email

addresses of the parties to the dispute;

- c. a reference to the arbitration clause or any separate arbitration agreement that is invoked and provide a copy of the arbitration clause or arbitration agreement;
  - d. a reference to the contract out of which the dispute arises and provide a copy of the contract where possible;
  - e. a brief statement describing the nature and circumstances of the dispute;
  - f. the relief or remedy sought, including the amount of claim if quantifiable at the time the Notice of Arbitration is filed;
  - g. a proposal as to the number of arbitrators (i.e. one or three), if the parties have not previously agreed on the number; and
  - h. The name of the Claimant's nominated arbitrator.
- 4.2 A filing fee of Rs 10,000/- (Ten thousand) or any amount decided by Governing Body from time to time is payable at the time of filing the Notice of arbitration.
- 4.3 The date of filing of the Notice of Arbitration with the Secretary is the date of commencement of the arbitration for the purpose of these Rules.

#### **Rule 5–Response by Respondent**

- 5.1 Within 14 days of receipt to the Notice of Arbitration, the Respondent shall file with the Secretary and serve upon on the Claimant a Response including
- a. A confirmation or denial of all or part of the claims;
  - b. Brief statement of the nature and circumstances of any envisaged counterclaims
  - c. A comment in response to any proposals contained in the Notice of Arbitration; and
  - d. The name of the respondent's nominated arbitrator.
- 5.2 A filing fee of Rs 10,000/- or any amount decided by Governing Body from time to time is payable at the time of filing the Response.
- 5.3 In case parties have objection to the jurisdiction of Arbitral Tribunal, such objection shall be raised not later than 15 days of the commencement of Arbitration proceedings failing which it will be deemed that parties have waived their right to objection.

#### **Rule 6–Filing of Case Statements**

- 6.1 Within 30 days after the filing of the Notice of Arbitration, the claimant must file with the Secretary and serve on the Respondent, a Statement of Claimant's Case along with all documents to be relied upon by the Claimant.
- 6.2 Within 30 days after the service of the statement of Claimant's Case, the Respondent must file with the Secretary and serve on the Claimant, a statement of respondent's defense and counterclaim (if any) along with all documents to be relied upon by the Respondent.
- 6.3 Within 30 days after the service of the statement of Respondent's defense, if the Claimant intends to challenge anything in the statement of Respondent's

defense and/or counterclaim, the Claimant must then file with the Secretary and serve on the Respondent, a statement Claimant's reply and if necessary, defense to counterclaim.

- 6.4 No further case statements may be filed without the leave of the Tribunal or, if Tribunal has not been appointed, the Secretary.
- 6.5 The Tribunal or if a Tribunal has not been appointed, the Secretary, may upon the written application of a party, extend the time limits provided under this Rule,
- 6.6 The party required to file a case statement must at the same time deposit with the Secretary for eventual transmission to the Tribunal an additional copy or additional copies of the case statement, according to the number of arbitrators constituting or who will constitute the Tribunal.

### **Rule 7– Contents of Case Statements**

- 7.1 The case statements must contain the detailed particulars of the party's claim, defense or counterclaim and must thus contain a comprehensive statement of the facts and contentions of laws up porting the party's position.
- 7.2 It must:
  - a. Set out all item sofrelies for other remedies sought together with the amount of all quantifiable claims and detailed calculations.
  - b. Statefully its reasons for denying any allegation or statement of the other party.
  - c. Statefully its own version of events if a party intend stop ut forward a version of events different from that given by the other party.
- 7.3 A case statement must be signed by or on behalf of the party making it.

### **Rule 8- Default in Filing and Serving Case Statements**

- 8.1 If the Claimant fails within the time specified under these Rules or as may be fixed by the Tribunal or by the Secretary, to submit its Statement of Case, the Tribunal or if a Tribunal has not been appointed, the Governing Body may issue an order for the termination of the arbitral proceedings or make such other directions as may be appropriate in the circumstances.
- 8.2 It the Respondent fails to submit a Statement of Respondent's Defense, the Tribunal may never the less proceed with the arbitration and make the award.

### **Rule 9- Further Written Statements**

- 9.1 The Tribunal will decide which further written statements, in addition to the case statement(s) already filed, are required from the parties and shall fix the periods of time for giving, filing and serving such statements.
- 9.2 All such further statements must be given to the Tribunal, filed with the Secretary and served on the Claimantor Respondent, which ever is applicable.

### **Rule 10-SAROD to Provide Assistance**

- 10.1 At the request of the Tribunal or either party, the Secretary will tender such assistance as is required for the conduct of the arbitration, including arranging

for facilities, and suitable accommodation for sittings of the Tribunal, secretarial assistance or interpretation of these rules.

- 10.2 Any additional expenses incurred or to be incurred for any such arrangements shall be borne by the parties.

### **Rule 11-Appointment of Tribunal**

- 11.1 The disputes shall be decided by a Sole Arbitrator when the total claim of dispute is Rs.3 Crores or less.
- 11.2 In all cases of disputes claimed for more than Rs. 3 Crores, the tribunal shall consist of odd number of Arbitrators to be nominated by the parties. The Presiding Arbitrator shall be appointed by the Arbitrators nominated by the parties from amongst the panel maintained by SAROD. For deciding the Presiding Arbitrator, a draw of lots can be carried out from amongst the names suggested by the Arbitrators nominated by the Parties. The eligibility criteria for empanelment of Arbitrators will be decided by the Governing Body.
- 11.3 If a Sole Arbitrator is to be appointed, the Governing Body will appoint the Arbitrator within 21 days from the date the Respondent's Statement of Defence and Counter claim (if any) is filed or falls due, whichever is earlier. The Governing Body will appoint the Arbitrator from the panel of Arbitrators by draw of lots,
- 11.4 An Arbitrator/Presiding Arbitrator to be appointed under these Rules shall be a person on the SAROD Arbitration Panel as at the date of the appointment.
- 11.5 In the event of any party failing to appoint Arbitrator within 30 days of receipt of the notice of Arbitration, the Governing Body shall appoint the Arbitrator or Presiding Arbitrator as the case may be by a draw of lots.

### **Rule 12-Multiparty appointment of the Tribunal**

- 12.1 If there are more than 2 parties in the arbitration, the parties shall agree on the procedure for appointing the Tribunal within 21 days of the receipt of the Notice of Arbitration.
- 12.2 If the parties are unable to do so, upon the lapse of the 21 day time period mentioned herein, the Tribunal shall be appointed by the Governing Body as soon as practicable.

### **Rule 13-Appointment of Substitute Arbitrator**

- 13.1 In the event of the death or resignation of any of the arbitrators, a substitute arbitrator must be appointed by the same procedure as in Rule 11 by which the arbitrator concerned was appointed, failing which, the Governing Body will make the appointment.

### **Rule14-Independence and Impartiality of the Tribunal**

- 14.1 The Tribunal conducting arbitration under these Rules shall be and remain at all times independent and impartial, and shall not act as advocate for any party.
- 14.2 A prospective arbitrator shall disclose to those who approach him in connection



with his possible appointment, any circumstances likely to give rise to justifiable doubts as to his impartiality or independence.

- 14.3 An arbitrator, once nominated or appointed, shall disclose any such circumstance referred to in Rule 14.2 to the Secretary and/or to all parties.

### **Rule 15-Code of Ethics for Arbitrators**

An Arbitrator is a fountain of justice and emblem of equity, fairness and good conscience. Therefore he/she is expected to exhibit noble conduct. The code of conduct prescribed by the Governing Body has to be adopted.

#### **Appointment**

- 15.1 A prospective arbitrator shall accept an appointment only if he is fully satisfied that he is able to discharge his duties without bias, he has an adequate knowledge of the language of the arbitration, and he is able to give to the arbitration the time and attention which the parties are reasonably entitled to expect,
- 15.2 In this code, the masculine includes the feminine.

#### **Disclosure**

- 15.3 A prospective arbitrator shall disclose all facts or circumstances that may give rise to justifiable doubts as to his impartiality or independence, such duty to continue through out the arbitral proceedings with regard to new facts and circumstances.
- 15.4 A prospective arbitrator shall disclose to the Secretary and any party who approaches him for a possible appointment:
- (a) Any past or present close personal relationship or business relationship, whether direct or indirect, with any party to the dispute, or any representative of a party, or any person known to be a potentially important witness in the arbitration;
  - (b) The extent of any prior knowledge he may have of the dispute.

#### **Bias**

- 15.5 The criteria for assessing questions relating to bias are impartiality and independence. Partiality arises when an arbitrator favours one of the parties or where he is prejudiced in relation to the subject matter of the dispute. Dependence arises from relationships between an arbitrator and one of the parties, or with someone closely connected with one of the parties.
- 15.6 Any close personal relationship or current direct business relationship between an arbitrator and a party, or any representative of a party, or with a person who is known to be a potentially important witness, will normally give rise to justifiable doubts as to a prospective arbitrator's impartiality or independence. Past business relationships will only give rise to justifiable doubts if they are of such magnitude or nature as to be likely to affect a prospective arbitrator's judgment. He should decline to accept an appointment in such circumstances unless the parties agree in writing that he may proceed.

## **Communications**

- 15.7 Before accepting an appointment, an arbitrator may only enquire as to the General nature of the dispute, the names of the parties and the expected time period required for the arbitration.
- 15.8 No arbitrator shall confer with any of the parties or their Counsel until after the Secretary gives notice of the formation of the Tribunal to the parties.
- 15.9 Throughout the arbitral proceedings, an arbitrator shall avoid any unilateral communications regarding the case with any party, or its representatives.

## **Fees**

- 15.10 In accepting an appointment, an arbitrator agrees to the remuneration as prescribed in the rules of SAROD, and he shall make unilateral arrangements with any of the parties or their Counsel for any additional fees or expenses without the agreement of all the parties and the consent of the Secretary of SAROD.

## **Conduct**

- 15.11 Once the arbitration proceedings commence, the arbitrators shall acquaint himself with all the facts and arguments presented and all discussions relative to the proceedings so that he may properly understand the dispute.

## **Confidentiality**

- 15.12 The arbitration proceedings shall remain confidential. An arbitrator is in a relationship of trust to the parties and should not, at any time, use confidential information acquired during the course of the proceedings to gain personal advantage or advantage for others, or to affect adversely the interest of another.
- 15.13 This Code is not intended to provide grounds for the setting aside of any award.

## **Rule 16-Challenge of Arbitrators**

- 16.1 An arbitrator may be challenged if there are circumstances that give rise to justifiable doubts as to his impartiality or independence and also if he or she has committed any misconduct.
- 16.2 An arbitrator may also be challenged if he does not possess the qualifications required by the agreement of the parties,
- 16.3 A party may challenge an arbitrator appointed on its nomination or with its agreement only for reasons of which it becomes aware after the appointment has been made.
- 16.4 A party who intends to challenge an arbitrator shall file with the Secretary and serve on the other party or all other parties, whichever is applicable, a Notice of Challenge.
- 16.5 The Notice of challenge must be filed and served within 14 days from the appointment of the arbitrator or within 14 days after the circumstances mentioned in Rule 15.1 became known to that party.

- 16.6 The Notice of Challenge must state the reasons for the challenge.
- 16.7 The arbitration shall be suspended until the challenge is resolved or decided upon.
- 16.8 When an arbitrator has been challenged by one party, the other party may agree to the challenge. The arbitrator may also, after the challenge, withdraw from his office. However, it is not implied in either case that there has been an acceptance of the validity of the grounds for the challenge. In both cases, the procedure provided in Rule 11 read with Rule 13, shall be used for the appointment of a substitute arbitrator.

#### **Rule 17-Decision on Challenge**

- 17.1 If the other party does not agree to the challenge and the arbitrator does not withdraw, the decision on the challenge will be made by the Governing Body.
- 17.2 If the Governing Body sustains the challenge, a substitute arbitrator shall be appointed or chosen pursuant to the procedure applicable to the appointment of an arbitrator as provided in Rule 11 read with Rule 13. If the Governing Body dismisses the challenge, the arbitrator shall continue with the arbitration.

#### **Rule 18-Removal of the Tribunal**

- 18.1 The Governing Body may on the application of a party remove an arbitrator:
- Who is physically or mentally incapable of conducting the proceedings or where there are justifiable doubts as to his ability to do so; or
  - Who has refused or failed to use all reasonable dispatch in conducting the arbitration or making an award.
  - Who has continuously absented from attending the proceedings for more than 3 sittings without prior permission of Presiding Arbitrator/Governing Body of SAROD.
- 18.2 The arbitrator(s) concerned is entitled to appear and be heard at the hearing of the application to remove him.
- 18.3 Upon the removal of the arbitrator, a substitute arbitrator shall be appointed in accordance with Rule 11 read with Rule 13.
- 18.4 The Governing Body's decision on the application is final and is not subject to appeal or review.

#### **Rule 19-Re-hearing in the Event of Replacement of the Tribunal**

If the sole or presiding Arbitrator is replaced, there shall be a re-hearing. If any other arbitrator is replaced, such re-hearing may take place at the discretion of the Tribunal.

#### **Rule 20-Jurisdiction of the Tribunal**

- 20.1 The Tribunal shall have the power to rule on its own jurisdiction, including any objection with respect to the existence, termination or validity of the arbitration agreement. For that purpose, an arbitration agreement which forms part of a contract shall be treated as an agreement independent of the other terms of the contract. A decision by the Tribunal that the contract is null and void shall

not entail ipso jure the invalidity of the arbitration agreement.

- 20.2 The plea that the Tribunal does not have jurisdiction shall be raised not later than in the Statement of Defense. A plea that the Tribunal is exceeding the scope of its authority shall be raised promptly after the Tribunal has indicated its intention to decide on the matter alleged to be beyond the scope of its authority. In either case the Tribunal may nevertheless admit a late plea under this Rule if it considers the delay justified. A party is not precluded from raising such a plea by the fact that he has nominated, or participated in the appointment of an arbitrator.
- 20.3 The Tribunal must rule on an objection that it lacks jurisdiction as a preliminary question upon the objection being raised. It may rule on an objection that it exceeds the scope of its authority either as a preliminary question or in an award on the merits, as it deems just and convenient.
- 20.4 In addition to the jurisdiction to exercise the powers defined elsewhere in these Rules, the Tribunal shall have jurisdiction to determine any question of law arising in the arbitration; proceed with the arbitration notwithstanding the failure or refusal of any party to comply with these Rules or with the Tribunal's orders or directions, or to attend any meeting or hearing, but only after giving that party written notice that it intends to do so; and to receive and take into account such written or oral evidence as it shall determine to be relevant, whether or not strictly admissible in law.

#### **Rule 21–Fees of SAROD and Arbitral Tribunal Fee Schedule**

**Registration Fee (Non-Refundable) :** Rs,10,000/- or any amount fixed by Governing Body from time to time. The Schedule of Fees and allied expenditure shall be decided by Governing Body.

#### **Rule 22-Transmission of File to the Tribunal**

- 22.1 The Secretary shall, as soon as practicable transmit to the Tribunal, a file containing the Notice of Arbitration, the Response and all case statements.
- 22.2 The Tribunal shall as soon as practicable, after consultation with the parties, issue such orders and/or directions as are necessary for the conduct of the arbitration to conclusion, including a timetable for steps to be taken in the arbitration and for the hearing of the arbitration.

#### **Rule 23-Judicial Seat of Arbitration**

- 23.1 Unless otherwise agreed by the parties, the judicial seat of arbitration shall be New Delhi.
- 23.2 Notwithstanding Rule 22.1 and 22.2, the Tribunal may, unless otherwise agreed by the parties, hold hearings and meetings anywhere convenient, subject to the provisions of Rule 28.2.

#### **Rule 24-Language of Arbitration**

The language of arbitrators shall be English. In case of material existing in

any other language, other than English the same has to be translated to English language.

### **Rule 25-Conduct of the Proceedings**

The Tribunal shall have the widest discretion allowed by the Act to ensure the just, expeditious, economical and final determination of the dispute. The proceedings shall be conducted from 10.AM to 5PM with a recess of one hour.

### **Rule 26-Communication between Parties and the Tribunal**

- 26.1 Where the Tribunal sends any written communication to one party, it shall send a copy to the other party or parties as the case may be.
- 26.2 Where a party sends any written communication (including Statements, expert reports or evidentiary documents) to the Tribunal, the same shall be copied to the other party or all other parties, whichever is applicable, and show to the Tribunal that the same has been so copied.
- 26.3 The address of the parties for the purpose of all communications during the proceedings shall be those set out in the Notice of Arbitration, or as either party may at anytime notify the Tribunal and the other party or parties, whichever is applicable.
- 26.4 A copy of correspondence between the parties and the Tribunal shall be sent to the Secretary.

### **Rule 27-Party Representatives**

Any party may be represented by legal practitioners or any other representatives, subject to such proof of authority as the Tribunal may require. The names and addresses of such representatives must be notified to the other party or parties. In case one party is represented by non-legal person, another party will also be represented by non-legal person so as to maintain natural justice.

### **Rule 28-Hearings**

- 28.1 Unless the parties have agreed on documents-only arbitration, the tribunal shall hold a hearing for the presentation of evidence by witnesses, including expert witnesses, or for or all submissions.
- 28.2 The Tribunal shall fix the date, time and place of any meetings and hearings in the arbitrations on the first hearing, and complete time table pertaining to all the activities of the Arbitration e.g. submission of statement of claim, reply, counter claim, reply there in, admission and denial of documents, visit/inspection of site if any. The tribunal shall stick to the time table without any deviations unless there are unavoidable circumstances warranting such deviation which will be with the prior permission of the tribunal.
- 28.3 Prior to the hearing, the Tribunal may provide the Parties with matters or questions to which it wishes them to give special consideration.
- 28.4 In the event that a party to the proceedings without sufficient cause, fails to appear at a hearing of which the notice has been given, the Tribunal may

proceed with the arbitration and may make the Award after the party present has submitted evidence to prove its case.

28.5 All meetings and hearing shall be in private unless the parties agree otherwise.

### **Rule 29-Documents Only Arbitration**

29.1 The Disputes may be decided without an oral hearing if it is so agreed by the parties.

29.2.1 Where the parties agree to dispense with oral hearing, the Tribunal must be promptly informed by either of the parties, as soon as is practicable. The Tribunal must also be promptly informed, at a later stage, if either of them intends to apply for an oral hearing.

29.2.2 Parties may seek discovery of documents if they are not satisfied with existence of documents annexed with statement of claim, reply and counter claim by giving self-contained request to the Tribunal justifying the necessity for such documents. Decision of Tribunal shall be final and binding upon the parties.

### **Rule 30-Witnesses**

30.1 The Tribunal may require each party to give notice of the names and designations of the witnesses it intends to call and reasons for legal necessity of such witness.

30.2 No party shall call any expert witness without the leave of the Tribunal.

30.3 Any witness who gives evidence may be questioned by each party or its representative subject to any rulings made by the Tribunal,

30.4 A Witness may be required by the Tribunal to testify under oath or affirmation.

30.5 Subject to such order or direction which the Tribunal may make, the testimony of witness may be presented in written form, either as signed statements or by duly sworn or affirmed affidavits,

30.6 Any party may require a witness to attend an oral examination at a hearing. If the witness fails to attend, the Tribunal may place such weight on the written testimony as it thinks fit, or may exclude it altogether,

30.7 The Tribunal shall determine the admissibility, relevance, materiality and weight of the evidence given by any witness.

### **Rule 31-Experts Appointed by the Tribunal**

31.1 Unless otherwise agreed by the parties, the Tribunal may:

- a. Appoint one or more experts to report to the Tribunal on specific issues;
- b. Require a party to give any such expert any relevant information or to produce, or to provide access to, any relevant documents, goods or property for inspection by the expert.

31.2 Unless otherwise agreed by the parties, if a party so requests or if the Tribunal deems it fit, the expert shall, after delivery of his written or oral report, participate in an oral hearing, at which the parties may question him and present expert witnesses in order to testify on the points at issue.

31.3 Rule 30.2 shall not apply to an assessor appointed by agreement of the

parties, or to an expert appointed by the Tribunal to advise solely in relation to procedural matters.

**Rule 32 - Rules applicable to substance of dispute-(1)** Where the place of arbitration is situated in India,

32.1 In an arbitration, the arbitral tribunal shall decide the dispute submitted to arbitration in accordance with the substantive law for the time being in force in India;

**Rule 33-Closure of Hearing**

33.1 The Tribunal may inquire of the parties if they have any further proof to offer or witnesses to be heard or submission to make and, if there are none, declare the hearing closed.

33.2 The Tribunal may also, in view of exceptional circumstance, reopen the hearings at any time before the award is made.

**Rule 34-Additional Powers of the Tribunal**

34.1 In addition to the powers conferred by the Act, the Tribunal shall also have the power to:-

- a. Allow any party, upon such terms (as to costs and otherwise) as it shall determine, to amend claims or counterclaims;
- b. Extend or abbreviate any time limits provided by these Rules;
- c. Conduct such enquires as may appear to the Tribunal to be necessary or expedient;
- d. Order the parties to make any property or thing available for inspection
- e. Order any parties to produce to the Tribunal, and to the other parties for inspection, and to supply copies of any documents or classes of documents in their possession, custody or power which the Tribunal determines to be relevant;
- f. Make orders or give directions to any party for interrogatories;
- g. Make orders or give directions to any party for an interim injunction or any other interim measure;
- h. Make such orders or give such directions as it deems fit in so far as they are not inconsistent with the Act or any statutory re-enactment thereof such law which is applicable or these Rules.

34.2 If the parties so agree, the Tribunal shall also have the power to add other parties (with their consent) to be joined in the arbitration and make a single Final Award determining all disputes between them.

**Rule 35-Deposits to Costs and Expenses**

35.1 The Tribunal's fees and SAROD administration fees shall be ascertained in accordance with the Schedule of Fees in Force at the time of commencement of the arbitration.

- 35.2 The Claimant shall deposit with the SAROD half of the fees payable at the time of filing of the Statement of Case. The Respondent shall deposit with the SAROD one-half of the fees payable at the time of filing the Statement of Respondent's Defence and Counterclaim (if any). The balance of fees payable shall be paid 60 days before the date of the final hearing or on such other date that the Secretary may direct.
- 35.3 Where the amount of the claim or the counter claim is not quantifiable at the time payment is due, the Secretary will make a provisional estimate. The fees will be adjusted in the light of such information as may subsequently become available. If the arbitration is settled or disposed of without a hearing, the amount of the Tribunal's fees and SAROD administration fees shall be finally determined by the Secretary who will have regard to all the circumstances of the case, including the stage of proceedings at which the arbitration is settled or otherwise disposed off.
- 35.4 The Secretary may from time to time direct parties to make one or more deposit(s) towards any further expenses incurred or to be incurred on behalf of or for the benefit of the parties.
- 35.5 All deposit(s) shall be made to and held by the SAROD. Any interest which may accrue on such deposit(s) shall be retained by the SAROD.
- 35.6 If a party fails to make the payments or deposits required or directed, the Tribunal may refuse to hear the claims or counter claims, which ever is applicable, by the non-complying party, although it may proceed to determine claims or counter claims by any party who has complied with orders.
- 35.7 The parties shall remain jointly and severally liable to the SAROD for payment of all such fees and expenses until they have been paid in full even if the arbitration is abandoned, suspended or concluded, by agreement or otherwise, before the final Award is made.

### **Rule 36-Decision Making by the Tribunal**

- 36.1 Where a Tribunal has been appointed, any direction, order, decision or award of the Tribunal must be made by the whole Tribunal or a majority. If an arbitrator refuses or fails to sign the Award, the signatures of the majority shall be sufficient, provided that the reason for the omitted signature is stated.
- 36.2 If there is no unanimity, the same shall be made by the majority arbitrators as well as by the dissenting Arbitrator alone as if acting as a sole arbitrator.
- 36.3 However, in the case of a three-member Tribunal the presiding arbitrator may, after consulting the other arbitrators, make procedural rulings alone.

### **Rule 37-The Award**

- 37.1 It will be mandatory for the parties to submit written synopsis of their arguments respectively which will form part of the arbitral proceedings.
- 37.2 The Tribunal shall assemble at the assigned place in SAROD and shall exercise utmost secrecy and confidentiality in writing the award,
- 37.3 Unless the Secretary extends the time or the parties agree otherwise, the Tribunal shall make its Award in writing within 30 days from the date on which



the hearings are closed and shall state the reasons upon which its award is based. The award shall contain the date and shall be signed by the arbitrator or arbitrators.

- 37.4 The Tribunal may make interim awards or separate awards on different issues at different times.
- 37.5 All Awards must be submitted by the Tribunal to the Secretary and they shall be issued through the Secretary.
- 37.6 The Tribunal must deliver to the Secretary number of originals of the award sufficient for the parties and for filing with the Secretary.
- 37.7 The Secretary shall release the award to the parties only upon receipt of sufficient deposits to cover the fees and expenses due to the Tribunal and to the SAROD.
- 37.8 By agreeing to have arbitration under these Rules, the parties undertake to carry out the award without delay.
- 37.9 Stamp duty on award shall be payable by the party in whose favor the award has been pronounced.

#### **Rule 38-Additional Award**

- 38.1 Within 30 days after the receipt of the award, either party, with notice to the Secretary and the other party may request the Tribunal to make an additional award as to claims presented in the arbitral proceedings but omitted from the award.
- 38.2 If the Tribunal considers the request for an additional award to be justified and considers that the omission can be rectified without any further hearings or evidence, it shall notify all the parties within 7 days of the receipt of the request, that it will make an additional award, and complete the additional award within 30 days after the receipt of the request.

#### **Rule 39-Correction of Awards**

- 39.1 Within 30 days of receiving an Award, unless another period of time has been agreed upon by the parties, a party may by notice to the Secretary and the other party request the Tribunal to correct in the Award, any errors in computation, any clerical or typographical errors or any errors of similar nature.
- 39.2 If the Tribunal considers the request to be justified, it shall make the corrections) within 30 days of receiving the request. Any correction shall be notified in writing to the parties and shall become part of the Award.
- 39.3 The Tribunal may correct any error of the type referred to in Rule 37.1 on its own initiative within 30 days of the date of the Award.

#### **Rule 40-Settlement**

- 40.1 If, the parties arrived at amicable settlement of the dispute during the currency proceedings, the parties shall file memo of settlement before the tribunal who

shall either issue an order for the termination of the arbitral proceedings or, if requested by both parties and accepted by the Tribunal, record the settlement in the form of an arbitral award on agreed terms. The Tribunal is not obliged to give reasons for such an award.

40.2 The Parties shall:

- a. Notify the Tribunal and the Secretary immediately if the arbitration is settled or otherwise terminated:
- b. Make provision in any settlement for payment of all the costs of the arbitration and fees and expenses due to the SAROD and the Tribunal.

40.3 If the continuation of the arbitral proceedings becomes unnecessary or impossible for any reason not mentioned in Rule 38.1, before the award is made, the Tribunal shall inform the parties of its intention to issue an order for the termination of the proceedings. The Tribunal shall have the power to issue such an order unless party raises justifiable grounds for objection.

40.4 Copies of the order for termination of the arbitral proceedings or of the arbitral award on agreed terms, signed by the Tribunal, shall be communicated by the Tribunal to the parties through the Secretary.

#### **Rule 41-Interest**

The Tribunal may award interest on any sum awarded at such rate as applicable in fixed deposits of State Bank of India in respect of such periods ending not later than the date of the award as the Tribunal considers just.

#### **Rule 42–Costs**

42.1 The Tribunal shall specify in the final award, the costs of the arbitrations and decide which party shall bear them and in what proportion they shall become.

42.2 In this Rule, “costs of the arbitration” shall include:

- a. The fees and expenses of the Tribunal and the administration fees of the SAROD as determined by the Secretary in accordance with the Schedule of Fees;
- b. The costs of tribunal appointed experts or of other assistance rendered; and
- c. All expenses which are reasonably incurred by the SAROD in connection with the arbitration.

42.3 The Tribunal has power to order in its Award, that all or part of the legal or other costs (such as legal fees and expenses, costs incurred in respect of party appointed experts etc) of one party shall be paid by the other party.

#### **Rule 43- Waiver**

A party which is aware of non-compliance with these Rules and yet proceeds with the arbitration without promptly stating its objection in writing to such non-compliance shall be deemed to have waived its right to object.

#### **Rule 44-Exclusion of Liability**

- 44.1 The Tribunal, the President, the SAROD and any of its officers, employees or agents shall not be liable to any party for any act or omission in connection with any arbitration conducted under these Rules,
- 44.2 After the Award as been made and the possibilities of corrections and additional Awards have lapsed or been exhausted, neither the Tribunal nor the President shall be under any obligation to make any statement to any person about any matter concerning the arbitration, and no party shall seek to make any arbitrator or the President or the SAROD and any of its officers a witness in any legal proceedings arising out of the arbitration.

#### **Rule 45-General Provisions**

- 45.1 In all matters not expressly provided for in these Rules, the President, the Secretary and the Tribunal shall act in the spirit of these Rules and shall make every reasonable effort to ensure the just, expeditious and economical conclusion of the arbitration.
- 45.2 The Secretary may from time – to time issue Practice Notes on the implementation of these Rules.

#### **Rule 46-Amendment to Rules**

These Rules may from time to time be amended by the Governing Body of SAROD.

**Contract Data**

## Clause Reference

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

1. The Employer is [Cl.1.1]  
 Chairman, National Highways Authority of India (NHAI)  
 Acting through Regional Officer, NHAI, Madurai.  
 Address: 2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza, No.1, Lake Area,  
 Melur Main Road, Mattuthavani, Madurai-625107.  
 Name of authorized Representative: (**Project Director, PIU, Ramanathapuram**)  
 The Supervision Consultant: M/s. Bloom Companies, LLC  
 Designation: Resident Engineer  
 Address: 67, A, Anbu Nagar, Manamadurai, Sivagangai District-630606 [Cl.1.1]
2. The Intended Completion Date for the whole of the Works is 12 months from start date. [Cl.1.1, 17&28]
3. The Site is located various locations on the Paramakudi-Ramanathapuram section of NH-87 (Old No. NH-49) from Km 81/064 to Km 120/484 in the State of Tamil Nadu. [Cl.1.1]
4. The Start Date shall be within 7 days after the date of issue of the Notice to proceed with the work. [Cl.1.1]
5. The scope of this work shall be curtailed or terminated at any point of time as decided by the NHAI Employer/Authority.
6. (a) The name and identification number of the Contract is herein after called “the tender” No. ) [Cl.1.1]  
 (b) The works consists of “Annual Maintenance including Incident Management of Two laning with Paved Shoulders of Paramakudi to Ramanathapuram section from Km 81/064 to Km 120/484 of NH-87 (Old NH-49) in the State of Tamil Nadu on Item Rate Basis”. The Work consist of “Routine maintenance of all assets, facilities and services created within RoW on the above-mentioned sections of National Highways including maintenance of carriageway, shoulders, median, etc., providing incident management by way of route patrol and surveillance, value addition to the road by way of providing cats-eye, delineators, solar- blinkers, High Mast lights, Solar Street Lights, LED lights and their maintenance etc., Toll Plaza repairing works, Toilet repairing works, wherever required, road property management, etc., for 12 months” [Cl.1.1]

3.1 (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]

7.1 The limit of sub contracting is 50% of initial contract price. [Cl.7.1]

8.1 Schedule of Other Contractor–NIL [Cl.8.1]

9.1 The Technical Personnel are: [Cl.9.1]

Sl. No.	Personnel	Minimum Qualification and Experience	Particular Experience (minimum requirement)	No. of Persons
1	Project Manager	Graduation in Civil Engineering	5 years as Project Manager on NH / SH, bridge construction/ Maintenance works	1
2	Site Engineer cum Surveyor Engineer	Diploma/Graduation in Civil Engineering.	5 years on highway construction / Maintenance works	2
3	Incident Cum Road property Manager Cum Route Operation Manager	Graduate from a recognized university +5 years experience	5 years on highway property management and maintenance	2

13.1 Amount for insurance are: [Cl.13.1]

- Rupees equivalent to Contract price.
- Rupees equivalent to 5% of Contract price.
- Rupees equivalent to 5% of Contract price.
- Rupees 20 lakhs for multiple incidents and deductible as per premium rate.

14.1 Site Investigation Report–NIL [Cl.14.1]

27.1 (A) The period for submission of the programme for approval of Engineer shall be 15 days from the issue of Letter of Commencement [Cl.27.1]

(B). (a) Identified indented work

- 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 concern.

- Emergent Indents–Within 24 hours.

27.3 Amount to be withheld for delays in submission of updated programme: 1% of value of work corresponding to the updated programme.

32 The period for setting up a field laboratory with the prescribed equipment relevant to items of work in BOQ is 30 days from the days from the date of notice to start work.

33 The Defect Liability Period will be 12 months from the Date of Completion.

45.1 (a) Amount of liquidated damages for delay in completion of works

For identified work 0.1 percent of the Indented value, Rounded off to the nearest thousand, per day with the minimum of Rs.10,000/- per day.

(b) Maximum limit of liquidated damages for delay incompletion of work

10% of the Initial Contract Price rounded off to the nearest thousand. [Cl.45.1]

47.1. The standard form of Performance Security acceptable to the Employer shall be an unconditional Bank Guarantee of the type as specified in the Bidding Documents. [Cl.47.1]

53.2 (j) 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(j)]

54.1. 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)**

---

---

**SCOPE OF WORK**

## SCOPE OF WORK

### 6.1 General

- **Road maintenance** – this includes emergency; routine, periodic (if required) and disaster maintenance. Broadly routine maintenance will include maintenance of shoulders and slopes, side drains, CD works, carriageway and crust.
- **Road property management** – Identification of encroachments and ribbon development, enforcement of regulations, Liaisoning with the relevant authorities for above including procurement of land records with ownership as per mutation from the concerned Revenue Authorities and help in mutation, if required and maintenance of road signs and road furniture, demarcation of ROW with Boundary Pillars etc.
- **Incident management:** Route Patrols and surveillance, basic automobile assistance, to way cranes, wireless/mobile facility and roadsafety works.
- **Safety Improvement (Engineering Works)** – Repairing/Providing Crash Barriers, Guard Post, management of access, provision of new sign boards, Junction improvement, blinkers, solar lights, high mast light, side drain setc.
- **Inspections**

#### A. Ordinary Repair works :-

- i. Cleaning of drains.
- ii. Cleaning of structures.
- iii. M-20 grade to attend the repair work of parapet walls and other structural works etc.
- iv. M-10 grade cement concrete for MBCB and Centre median.

#### B. Carriageway Cleaning:-

- i. Cleaning of the carriageway.
- ii. Removal of rank vegetation.

#### C. Road property Management: -

- i. Replacement of damaged KM/HM stones.
- ii. Two-coat painting with synthetic enamel paint for KM & HM Stones for trilingual as per NHAI circular.
- iii. Two-coat painting (a) Road sign posts including gantry posts, (b) Smooth surface on concrete with Synthetic enamel paint.
- iv. Tack coat & Bituminous Concrete for Patch repair work.

#### D. Traffic safety Items:-

- i. Providing and fixing retro-reflective stickers.
- ii. Supplying and fixing solar lights at the bus shelter.
- iii. Fixing of Rigid Median Marker.
- iv. Installation of High mast lights.



- v. Fixing of direction and Place Identification Retro-reflective Sign & Crash Prone Area Information Sign (a) Place Identification Boards, (b) Crash Prone Area Information Sign Boards.
- vi. Replace the existing sign boards on the Overhead /Gantry, Cantilever, Canopy board, and Direction and place Identification Signs with trilingual sign boards as per the NHAI circular.
- vii. Fixing of Signboards (a) Hazard Marker, (b) Circular, (c) Triangle, (d) Octagon Sign, (e) Chevron sign board.
- viii. Fixing of LED Solar Blinkers.
- ix. Providing and erecting a Single-sided Single Guard Metal Beam Crash Barrier.
- x. Providing and fixing of missing Space Channels, Vertical posts & Beams in MBCBs.
- xi. Construction of Earthen shoulder.
- xii. Replacement of damaged or missing Guard Stone.
- xiii. Existing Guard Stone Painting.
- xiv. Hot Applied Thermoplastic marking.
- xv. Fixing of Road Studs.

#### **E. Incident Management:-**

1 No. of Patrol and 1 No. of crane for Bogalur Toll Plaza limit for total of 12 months.

### **6.2 Road Maintenance**

The Contractor shall be required to perform all routine road maintenance activities along the project roads. The Contractor shall be required to submit Maintenance Report for each component of the works.

The Contractor shall be required to utilize mechanized equipment and method stopper from these obligations.

All maintenance activities shall be carried out in accordance with relevant specifications and IRC codes prescribed in the contract. The requisite quality control tests as per specifications and codes are to be carried out by the Contractor at this cost as per directions of the Engineer.

Routine road maintenance means planned works and activities required to ensure public safety, repair small defects and to maintain the road in the required condition. Adhoc maintenance means carrying out of unscheduled maintenance occasioned by irregular events such as accidents, natural calamities, abnormal weather conditions and the like.

The routine and adhoc Road Maintenance

Shall include, amongst others, activities such as:

- Repairing Local Potholes
- Crack Sealing
- Asphalt Treatment
- Road Sign Maintenance

- Road Markings
- Guard Rail and supplementary road furniture repairs
- Maintenance of Rigid Pavements
- Repair of Fences
- Repairs of Accident Damaged Assets
- Maintenance of Culverts, Drains and Channels
- Clearing of Litter and Debris from roads and structures
- Periodic Maintenance of Flexible Pavement

### 6.3 Road property management

The Contractor shall ensure the maximum availability and efficient utilization of the assets for the NHAI. This shall also include the protection of the right of way from encroachments and other unauthorized activities.

For this purpose, the Contractor with the help of the Authority Representative and Revenue Authority shall maintain Land Record Register for entire NH ROW and shall also draw up a comprehensive asset register detailing the condition of the entire existing road and building assets. This asset register shall be maintained and continually updated after any additions to the infrastructure and after each of the required inspections.

**Any damage or loss to asset of highway like signages, delineators, boards etc. by way of theft or due to negligence of the Contractor, shall be fully recoverable from the Contractor.**

#### 6.3.1 Unauthorized Encroachments

The strict enforcement of the requirements of the NHAI shall be a significant obligation under the Contract. The NHAI shall define the Right of Way and their requirements with respect to un-authorized accesses, encroachments and the like.

The Contractor shall be required to detect report, use it's best endeavors and remove all unauthorized encroachments within the right of way as soon as possible. The Contractor shall be required to record all such encroachments and seek any assistance from Police, local authorities and the NHAI as it deems fit, in order to ensure that all such encroachments are removed.

At the start of the Contract, the Contractor shall be required to determine all encroachments and unauthorized accesses to the highway, existing at time being granted access to site. The Contractor shall list out the encroachments with a description, location and extent of each encroachment, draw up a method statement and programme for the removal of the unauthorized accesses or encroachments for approval by the NHAI. All existing encroachments shall be removed, and un- authorized accesses closed within 3 months of the Contractor being granted access to site.

### 6.4. Incident Management

The Contractor shall set up and maintain an Incident Management System (IMS) and supply regular incident statistics to NHAI.

Incident Management entails a set of coordinated activities initiated by the Contractor when an incident (an extraordinary event resulting in the reduction of road capacity or creates a hazard for users) occurs, in order to minimize the effects of the incident and restore normal capacity and safety levels to all affected road facilities as efficiently as possible.

The Contractor has to identify relevant agencies (e.g. rescue, fire, hazardous materials, traffic, police, ambulance, hospitals, alternative routes, cleanups) and their representatives and to liaise with these representatives on behalf of the employer.

The incident management centre on the project highway (minimum 500 sqm.) shall be continuously staffed on a 24 hours basis. The Contractor shall maintain records of the details of all incidents (e.g. collision, hazardous material, breakdown, etc). After occurrence of any major incident, resulting in multiple loss of life, significant periods of road closure or major route rehabilitation work, an incident debriefing report shall be produced and forwarded to NHA within 24 hours of occurrence. The Incident Management Centre shall monitor the location of route of incident management vehicles / Rescue operation vehicles through VTS on continuous basis.

Contractor will keep a record of the removed accidental/damaged vehicles by taking a dated photograph of the same and will submit the report on weekly basis to the Employer/Engineer.

Contractor will remove dead animals/birds from the carriageway and bury them at a suitable location as directed by the engineer/employer within two hours of the incident and accident vehicles/Debris within 4 hours. If contractor fails to remove the dead animals/birds from the carriageway within two hours of the incident, he will be levied a penalty of Rs.10,000/- per such incident.

#### **6.4.1. Route Patrols:**

The contractor is required to provide 24 hrs per day route patrols to assist the roadusers of the highway,to provide information,feedback and perform functions in relation to incident management. To achieve this, the Patrolvehicles fitted with VTS should be fully equipped as well as the patrol persons should be adequately trained in traffic management, road safety and primary firstaid.The purpose of these patrol sis to:

- Provide the users of the highway with basic mechanical help for vehicles that break down on the road and also protect other users from such vehicles.
- Immediately identify traffic hazards of what ever nature, such as unauthorized parking, public transport vehicles, obstructing traffic during passenger loading and unloading, debris, stray animals and the like. The operator shall take the necessary measures to remove such obstructions.
- Provide emergency management at accident scenes until such time as the appropriate authorities arrive.
- Assist with the removal of damaged or mechanically impaired vehicles from the highway.

- Provide road user information and to further the image of National Highway Section.
- Maintain daily records of assistance provided to road users.
- Observe, record and report suspect aspects of the highway, hazards and incident damage caused by vehicles, floods, storms or other and events, such that the highway maintenance record sandd at abaseare continuously improved.

## **I Patrol Vehicles / Rescue Vehicles:**

Patrol Vehicles/Rescue Vehicles deployed by the contractor shall confirm to the specification/Norm sprescribed by the **NHAI as per Policy Circular No.NHAI/Policy Guidelines/Strengthening the Incident Management Services/2018 Policy No. 12.19, dated 20<sup>th</sup> March, 2018** and **NHAI Policy Circular No.12.36/2024 dated 12.12.2024.**

## **~~II Ambulance:~~**

~~Ambulance deployed by the contractor shall confirm to the specification / Norms prescribed by the NHAI as per Policy Circular No. NHAI/Policy Guidelines/Incident Management/2021 Policy Circular No. 18.66/2021, dated 11th March' 2021. (Copy Enclosed).~~

## **III Tow Away Vehicle**

The vehicle fitted with VTS shall be in good condition and registration number not older than 2 years. The vehicle shall be painted with approved colour pattern with NHAI name and emblem painted sides, back and front. The Contract or must employ following manpower to work in shifts:

- a) Driver, with knowledge of vehicle repair
- b) Ahelper

The vehicle shall be of 20T capacity and it shall run minimum 5Km daily (even for dry run) to be eligible for monthly payment.

Number of Tow Away Vehicles: 2 (20TCapacity)

### **Note:**

Incase of absence/deficiencies in respect of vehicles/manpower/equipment as mentioned under Clause 6.4 found during inspection by Engineer/Authority Representative a penalty of Rs. 5000/- per item per incidence shall belevied.

Incident Management Vehicles may be discontinued during the period of contract by the Employer. The agency will not have any claim due to de-mobilization of these vehicles at any stage.

## **6.5. Safety Improvement (Engineering Works)**

The contractor shall execute junction improvement, provision of Blinkers, floodlights, Rumble Strips, Signages etc. and other improvements as proposed by Engineers' Representative. The Contractor shall execute the work strictly as per specifications and drawings. The drawings for same are to be got approved from Engineer's

Representative.

## **6.6 Inspection**

Full and complete inspection of the highway section shall be undertaken at appropriate intervals as mentioned in this section & section VIII (Implementation Manual & Maintenance Intervention Levels and as mentioned in Clause 6.13). The Contractor shall provide appropriate testing equipment for qualitative inspections, such as reflectivity meters, straight edges and the like.

### **6.6.1 Daily followed by weekly and monthly Inspections**

Items to be inspected daily on regular basis followed by weekly and monthly inspections shall include:

- Potholes
- Cracking&Patches
- Rutting
- Defective bridge decks are a andbumpat approach
- User information-road marking and road signs
- Blocked drains
- Toll Management System(Manual)andToll booth
- Tow AwayTrucks, Cranes etc.
- Frequency of Highway Patrol
- Accidents/Incidence/Road Block

### **6.6.2 Quarterly Inspections**

Items to be inspected at quarterly intervals shall include:

- bridges—structural elements for damage
- culverts—structural elements for damage
- blocked drains
- road marking
- road signs

## **6.7 Repairs**

Repairs arising out of the inspections shall be carried out by the Contractor as per performance standards after a joint assessment with the Engineer and approval of NHAI.

## **6.8 PERFORMANCE STANDARDS**

### **6.8.1 PERFORMANCE STANDARDS FOR MAINTENANCE:**

The performance standards define the level at which the proposed facility is to be maintained and operated.

#### **A) Road Maintenance: (As per MORTH Specifications)**

Sl.No	SERVICEABILITY INDICATOR	REQUIRED MAINTENANCE LEVEL	PERMISSIBLE TIME LIMIT FOR DEFECT RECTIFICATION	FREQUENCY OF INSPECTIONS BY THE CONTRACTOR TO ENSURE REQUIRED LEVEL OF SERVICE
1	Potholes/km (max.Numbers)	5 nos. in a stretch of 5km.	Two days	Daily on regular basis followed by weekly & monthly inspections
2	Cracking & patch (max. Permissible)	5.0 per cent of road surface in a stretch of 1 km.	Seven days	- do -
3.	Rutting (20mm), max. Permissible limit	1.0 per cent in a stretch of 1 km (measured with 3 m straight edge.)	Three days	- do -
4.	Defective bridge decks area and bump at approach (max.Permissible)	Nil	Fifteen days	- do -
5.	User information	All road signs, km stones & road marking in good condition	Seven days	- do -

## B) Route operations

Sl.No	SERVICEABILITY INDICATOR	REQUIRED MAINTENANCE LEVEL	FREQUENCY OF INSPECTIONS BY THE CONTRACTOR TO ENSURE THE REQUIRED LEVEL OF SERVICE
1	Tow away trucks, cranes & ambulances etc.	To reach the incident spot within 30 minutes of incident occurrence	Daily on regular basis
2	Frequency of highway patrol	Every 4 hours on entire stretch (logging system)	Daily on regular basis
3	Removal of dead animals /birds	To reach the incident spot within 60 minutes of incident occurrence	Daily on regular basis

## 6.8.2 Performance Standards for Drainage System

The inspection and maintenance shall follow the guidelines specified in IRC:SP35-1990 or any modification to it by Indian Roads Congress.

- Pre-monsoon inspection and repairs shall include: detailed condition inspection of all bridges, culverts and the longitudinal drainage system. This shall be followed by repairs as required. Clearance of waterways of cross-drainage (CD) works and bridge waterways (vegetation, silt) within the right-of-way and 100 m on either side of the right-of-way, clearing the longitudinal and surface drains, repairs to flooring and pitching and facewalls which should be brought to intact condition and

painting of bridge markings shall be carried out.

- During the monsoon, any blocked event-way shall be cleared immediately.
- After monsoon a detailed inspection shall be undertaken to identify any severe damage. One month after the cessation of rain, the structures shall be given one coat of white wash or colour wash as a protective measure.

### **6.8.3 Performance Standards for Operations**

a) For incident management system:

- Setup of Control Room Staffing–24hrs/day and 365days/year
- Response time to an incident–½ an hour after receiving notification
- Multiple incidents–as soon as possible
- The facility shall be kept clear of all obstructions to traffic. Broken down vehicles, accident remnants, fallen trees, or any other obstructions should be cleared at once, after completing any legal formalities. The availability of Tow-trucks, cranes, and other equipment required for this purpose shall be ensured.
- Accident relief measures, including an ambulance, shall be available round the clock. There should be 30 minutes response time. Traffic regulation and management to minimize the disturbance due to accident to other traffic shall be taken by providing temporary traffic signs, cones, reflective tape etc.
- The intersections at either end or in-between shall be managed such that delays to through traffic are minimized.
- Regular patrolling shall be done to ensure smooth traffic movement on the facility. The frequency of the patrol shall be at least once in 4 hours for the entire length of facility.
- In respect of route operation like patrol vehicle, ambulance and towing of vehicle, any case of noncompliance as per Cl 6.8 of 'Performance Standard', a penalty of Rs. 10,000/ for each noncompliance incident will be levied.
- The log books for Route Patrol Vehicle, Ambulance and Crane shall be maintained as per "Logging System". i.e. exact time reached at particular incident and time at which the spot of incidence left out. Both vehicles should not waste time unnecessarily. From the entries of log book, if it is found that time is exhausted unnecessarily / arbitrarily, reduction in the rate of concerned BOQ item shall be made. Engineer's decision in this regard shall be final.
- Signed muster rolls of staff pertaining to route patrols and Ambulances shall be maintained. Any absenteeism of route patrol staff shall attract a penalty as per Clause 6.4. The decision of Engineer shall be final in this context.
- The Route Patrol Vehicle, Ambulance and Crane shall be equipped (for 24 x 7 period and total duration of contract) with Vehicle Trafficking System, equipment / medicines as mentioned in Cl.no.6.4 of "Incident Management". Any shortage of equipment / medicines shall attract penalty as per Clause 6.4. The decision of Engineer shall be binding on the contractor.

- The contractor shall submit following documents along with each monthly statement of work done.
  - a) The photographs (hard copies) of each incidence of damaged towed vehicle with use of crane for entire month.
  - b) The undertaking of route patrol In-charge and driver of each damaged towed vehicle stating that “no charges” i.e. the services of crane made freely available to damaged vehicle.  
The claim for BOQ item, “use of crane” shall not be titled in absence of above mentioned data. Reduction in rate on pro-rata basis shall be proposed in absence of above data.
- The contractor shall submit the following documents along with each monthly statements of workdone.
  - i) There ports as per IRC53–1973 and formats approved by Engineer of accidents occurred during the month.
  - ii) The Photographs in hard and soft copies of all accidents and in soft copies for all other incidents.
  - iii) The reports of incidents other than accidents shall be submitted in the format approved by Engineer.
  - iv) The contractor shall submit hard copies of VTS of all vehicles generated reports such as transit/stoppage/Idle, average speed etc. for entire month along with each monthly bill.

The photographs (hardcopies) supplied shall be paid under concerned BOQ item.
- The contractor shall submit the daily report of accidents / incidents occurred on each of next day. Failure of which shall attract penalty of Rs.5000 /- incidence.
- Each route patrol vehicle, ~~ambulance~~ and crane vehicle shall be installed with precise Vehicle Tracking System (VTS) of reputed ISO 9001 company. The VTS shall be based on Global Positioning System (GPS) and GSM/GPRS technology. The system shall also include micro, live, realtime tracking web based software by use of which GIS maps shall be accessed and transit/stop page/idle/overspeed reports of vehicles shall be generated.
- **The payment to incident management vehicle will be made based on the report of vehicle tracking system. The payment may be proportionately deducted in case route operations has not been carried out as per Clause 6.8.1(B) of Scope of Work.**
- For operation of this system one computer of brand approved by the Engineer along with internet facility shall be installed at “Control Room, by the contractor.
- The contractor shall install one broad band internet connection. He shall also make necessary arrangements for uninterrupted electricity supply to Control Room.
- The contractor shall bear all expenditure involved in purchasing VTS, software’s, one computer and internet connection, and maintenance and operation charges (for total period of contract) inclusive of all taxes as applicable.



- The contractor shall be responsible for 24x7 working of VTS. The necessary liaison with Producer Company is sole responsibility of contractor.
- The Control Room shall be manned by a Manager 24x7 to have proper monitoring on the route operation vehicles. The Control Room shall have record of the VTS of all the vehicles, photographs of the route operations of the previous day, as mentioned above, muster roll of the staff, previous day's report of incidence, accidents details duly filled in as per format as specified above and other reports related to route operations as defined by Engineer-in-charge.

**6.9 Performance Standards for "Maintenance of existing plants/ shrubs/ hedges grass in median".**

The length of median to be maintained under this BOQ item means the stretch of median in which plantation of hedges / shrubs / flowering trees are already in existence or proposed to be planted.

The following stretches of road are excluded from median maintenance length.

- a) Flyovers/Major bridges.
- b) Median cuts
- c) Lined drain in median and where concreting is done for full width of median.
- d) Double face 'W' crash barrier installed in median & where plantations have not been planted.

**A) Removal of weeds/vegetation and unwanted debris**

- i) The contractor shall keep median without any weeds, unwanted vegetation, debris etc. for the entire period of contract. For this purpose he should deploy at least the following for each month of contract period.
  - a) One labour/day (8hours) for every four Km. of median.
  - b) One tractor with trolley/day (8 hours) for every 35 km. stretch of median.
  - c) One supervisor for every 35 km. stretch of median.

This deployment shall be made available for whole month from June to Feb of a year. From March to May one labour / day (8 hours) for every 06 km. of median and one tractor with trolley / day (8 hours) for every 50km. of median shall be deployed.
- ii) The contractor shall maintain separate signed muster rolls of deployed labours & supervisors and log book soft tractors. The muster rolls and log books shall be made available for inspection. Xerox copy of log books and muster rolls shall be submitted along with a monthly statement of work done by the contractor.
- iii) The deployment mentioned as per (i) is minimum and shall not relieve contractor from his obligation to keep the median without weeds, unwanted vegetation and debris from the median. He shall increase inputs as per requirements of site conditions and Engineer's instructions.
- iv) If a contractor fails to keep median without weeds, unwanted vegetation, debris etc. (as per provision of BOQ) penalty of Rs. 500/Km./incidence to Rs.1500/Km./incidence shall be imposed. Engineer's decision in this context is binding on contractor.
- v) Engineer/PD may ask for supporting details regarding engagement of labour

to satisfy them selves before making payment.

**B) Watering:-**

- i) For the specified period of the year excluding the monsoon months (2-3 months) [period shall be specified by Engineer depending on site condition] contractor shall prepare monthly plan for deployment of water tankers in consultation with Engineer and shall submit the same seven days prior to next month. It is obligatory on contractor to deploy the number of water tankers as per plan. If Engineer observes number of water tankers deployed (as per plan) are not sufficient as per site condition, he shall instruct to increase the water tankers. Engineer's decision shall be final.
- ii) If contractor fails to deploy the water tankers as per Engineer's instructions and as per monthly plan each incidence of non deployment, a penalty of Rs. 8000/day/ incidence shall be imposed.
- iii) The methodology suggested vide (i) to (ii) shall not relieve contractor from his obligation of non-wilting of any hedge / shrub / flowering trees of median. If any existing hedge, shrub, flowering tree etc. got dead it should be replaced by contractor at his own cost. Engineer's decisions in this context is final
- iv) Deployed water tanker shall be fitted with red electric blinking signal and red flag at top of LHS back end. The safety measures as per IRC 112 shall be taken while watering
- v) The contractor shall maintain log books of each deployed water tanker and submit the Xerox copies along with each monthly statement of work done.

**C) Trimming of plantation and application of insecticides/pesticides**

- i) Trimming of hedges and flowering trees shall be done as and when required and as ordered by Engineer.
- ii) Supplying and application of insecticides / pesticides shall be done as and when required and as ordered by Engineer.
- iii) Each incidence of failure of trimming and application of insecticides /pesticides shall be penalized at the rate of Rs. 500 / Km. / incidence. Engineer's decision shall be binding on the contractor.

- D) The contractor shall** submit the daily reports (on next day) of out put of various men and machinery deployment for median maintenance in the formats approved by Engineer. Failure of which shall impose penalty of Rs. 1000/incidence.

**6.10 Performance standard for "carrying out cleaning, removing of dust /silt/thrash from carriageway.**

- i) This BOQ item is on km basis. The total length of stretch under consideration is taken under this item. However width of the carriageway to be kept clean as per BOQ provision, it includes.
  - a) Total width of carriageway (LHS+RHS) including median width.
  - b) Width of service roads (LHS + RHS) wherever service roads are in existence.
  - c) Width of all structures such as flyovers, major bridges, minor bridges, culverts, subways, etc.

- ii) For cleaning of carriageway contractor shall deploy mechanical broom with VTS for total period of contract. The deployment of mechanical broom shall be for at least 20 days / month. Contractor shall maintain log book of this mechanical broom and submit the Xerox of this along with each monthly statements of work done along with the report of VTS.
- iii) In addition to mechanical broom contractor shall deploy following men/machinery for each month and total duration of contract.
  - a) One unskilled labour/day (8 hours) for every three km. of stretch of road.
  - b) One superior for every 30 km of stretch of road.
  - c) One tractor with trolley / day (8 hours) for every 30 km. of stretch of road.
- iv) The contractor shall maintain separate signed muster rolls of deployed labours & supervisors and logbook of tractors. The muster rolls and log books shall be made available for inspection. Xerox copy of log books and muster rolls shall be submitted along with each monthly statement of work done by the contractor.
- v) The deployment maintained as per (ii) & (iii) is minimum and shall not relieve contractor from his obligation to keep the carriage way clean as per BOQ provisions. It is obligatory on contractor to increase in puts as per requirements of site conditions and Engineers instructions.
- vi) The contractor shall submit daily reports (on next day) of out- puts of men & machinery deployment in the formats approved by Engineer. Failure of which shall attract a penalty of Rs.1000/ incidence.

**6.11 –Performance standard for “Removal of rank vegetation / weeds /..... etc.**

Indent forth is work shall be issued once in year by the Engineer. After execution of this indented quantity, it is the sole responsibility of contractor to keep that particular area without any vegetation / weeds / grass for the remaining period of contract (one year). Forth is purpose he shall make use of men/machinery deployment as in case of performance standard Cl.no.6.10.

**6.12 ADDITIONAL MAINTENANCE STANDARDS**

**6.12.1 Maintenance standard for cleaning, clearing and repairing road side lined drains**

**Scope**

- i. The work shall consist of removing material to bring them to original shape/drainage capacity.
- ii. Disposal of sediments, extraneous debris or vegetation growth, blocking flow.

**Methods, Tools and Equipment**

- i. Safety devices and signs shall be placed as per MoRT&H clause no.112
- ii. The debris, sediments, vegetation growth and excess material shall be excavated. The excavated material shall be disposal of as directed by Engineer-in-charge with all loads and lifts.
- iii. The drain slopes and sides shall be dressed up to original flow line and

cross section.

#### Measurements for Payment

The work shall be measured in terms of RM of drain cleaned, cleared and repaired

#### Rate

The contract unit rate for cleaning and clearing road side puccadrains shall mean payment in full for carrying out all the required operations explained above including compensation for:

- a. Setting out and providing safety devices and signs placed in work area. As per MoRT&H clause no.112.
- b. Furnishing all materials to be incorporated in the work including transportation of excavated material and disposing of the same with all leads and lifts.
- c. All labour, materials, tools, equipment, safety measures, testing and incidentals necessary to complete the work to specifications.

#### **6.12.2 Maintenance standard** for cleaning, clearing, deepening and reshaping of road side unlined drains

##### 6.12.2.1. Scope

The work shall consist of cleaning, clearing, deepening and reshaping of road side unlined drains and making shallow lateral drains on shoulders to drain out the rainwater/surfacewater effectively from bituminous surface as well as from roadside berms.

##### 6.12.2.2 Methods, Tools and Equipment

- i. Safety devices and signs shall be placed in accordance to MoRT&H clause no.112
- ii. The unlined drains should be cleaned and cleared of the deposition of sediments, extraneous debris or vegetation blocking freeflow in the drain. This work may be carried out manually.
- iii. In case any erosion is noticed then these drains should be deepened/widened in proper slope as directed by Engineer-in-charge.
- iv. For draining out the standing water from road edges and unpaved shoulders, the shallow lateral drains at regular intervals shall be made manually as and when required.
- v. The drain slope and sides are neatly dressed up to required flowline and cross section.
- vi. The excess excavated material should be well dressed, watered and compacted in near by area or transported away from the site with all lead sandlifts, as directed by the Engineer-in-charge.

##### 6.12.2.3 Measurements for Pavement:

The work shall be measured in unit of RM. for roadside drains only and no separate payment shall be made for making shallow lateral drains.

##### 6.12.2.4 Rate

The contract unit rate for cleaning, clearing, deepening and reshaping of roadside unlined drains and making lateral drains on shoulders shall mean

payment in full for carrying out all the required operations explained above including compensation for:

- a. Setting out and providing safety devices and signs placed in work area. As per MoRT&H clause no.112.
- b. Furnishing all materials to be incorporated in the work including all royalties, fees, rents where necessary and all leads/lifts.
- c. Transporting the excavated/recovered material and disposing of the same with all heads and lifts as directed by the Engineer-in-charge.
- d. All labour, materials, tools, equipment, safety measures testing and incidental necessary to complete the work to specifications

### **6.12.3. Maintenance standard for routine maintenance of road signs and delineators, kerbs**

#### **6.12.3.1 Scope**

The work shall consist of washing of signs, delineators, removal of posters, cleaning of kerbs etc. on a regular maintenance cycle and repair to supporting structures with repainting.

#### **6.12.3.2 Methods, Tools & Equipment**

- i. The road signs and delineators should be thoroughly washed using a detergent solution followed by a lean rinse and whole face of the sign shall be dried.
- ii. Defects in supporting structures like bullet holes, surface marks or bent posts shall be repaired with appropriate tools.
- iii. Damaged areas shall be cleaned and loose/flaking paint shall be removed. Bullet holes shall be filled with filler and supporting structures shall be painted with first quality enamel paint in two or more coats.

### **6.12.4. Maintenance standard for replacing road signs, delineators mounted on single post / multiple posts**

#### **6.12.4.1 Scope**

- i. The work shall consist of replacement of damaged signboards/delineators due to accident or worn out due to age and weathering.
- ii. Replacement of missing sign boards and major repairs especially to sign faces.

#### **6.12.4.2 Methods, Tools & Equipment**

- i. New sign boards/delineators in lieu of badly damaged/missing ones shall be provided conforming to MOST specification clause 801 to perform the function and convey message that was originally required (retro-reflective type of high intensity grade).
- ii. For major repairs following sequences shall be carried out:
  - a. Be at any holes and indentations flat with a hammer and dolly

- b. Clean the damaged area and remove any loose or flaking peeling, paint or other surface material
- c. Fill the holes and indentations with polyester body filler and excess material shall be struck off to flush with surface.
- d. Patch the whole of the affected area with existing surface material as required viz. Pressure sensitive, reflective sheeting, paint etc.
- e. Restore the legend by black screening or reflective sheeting of correct class cut to shape.

#### 6.13. Monitoring

The Contractor shall submit the daily report (by email) indicating the day's activities and the work executed at site. The Contractor shall also inform any changes observed at site such as road condition, structure damages/changes, damages to road-signs, crash barriers, railing, encroachments and any other unusual changes at site before 11.00AM every day for the preceding 24 hours.

The daily report should be submitted to PD and Engineer on daily basis as per proforma approved by Engineer in consultation with PD, NHAI.

**The detail summary of these daily inspections and work carried out shall form part of monthly bill in the form of email extracts otherwise payment may not be admissible.**

#### 6.14 a) Broad Performance Parameter for High Mast Light –30/16/12.5Mtrs.

Broad Performance Parameter for High Mast Light	
Height	30 / 16 /12.5 Mtrs.
Lux	average 40 Lux
Light Source	White Light Emitting Diode (W-LED)
Light Output	White colour (colour temperature 55000 -65000 K) minimum. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye.
Mounting of light	for high mast of LED street lighting system 8Nos. x 240 100 W a minimum 30/16 meters above ground telescopic shape pole,
PV Module	Module for High mast Street Light A. 2000 Wp module
Battery	Battery for High Mast Street Light A. 48 V 300 Ah Tubular Positive plate Lead acid or gel type VRLA , @ C/10, Max DoD 75%
Electronics	Min 85% total efficiency
Average duty cycle	Dusk to dawn
Autonomy	3 days (Minimum 42 operating hours per permissible discharge)
DUTY CYCLE	The LED lighting system will be designed to operate for dusk to dawn, under average daily insolation of 5.5 kWh/sq.m. on a horizontal surface.
Warranty :	The module will be warranted for a minimum period of 15 years from the date of supply and the complete White

	LED lighting and LED High Mast system including the battery will be warranted for a period of at least 5 years from the date of supply.
Repair/Replacement	Within 24 hours otherwise a penalty of Rs. 5000/- per day will be imposed

#### 6.14 b) Broad Performance Parameter for Solar High Mast Light – 7 mtrs.

Broad Performance Parameter for High Mast Light	
Height	7 Mtrs.
Lux	average 40 Lux
Light Source q	White Light Emitting Diode (W-LED)
Light Out put	White colour (colour temperature 5500 0 -65000 K) minimum. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye.
Mounting of light	minimum 7 meters above ground telescopic shape pole,
PV Module	Module for High mast Street Light A. 2000 Wp module
Battery	Battery for Street Light A. 12 V 500 Ah Tubular Positive plate Lead acid or gel type VRLA , @ C/10, Max DoD 75%
Electronics	Min 85% total efficiency
Average duty cycle	Dusk to dawn
Autonomy	3 days (Minimum 42 operating hours per permissible discharge)
DUTY CYCLE	The LED lighting system will be designed to operate for dusk to dawn, under average daily insulation of 5.5 kWh/sq.m. on a horizontal surface.
Warranty :	The module will be warranted for a minimum period of 15 years from the date of supply and the complete White LED lighting and LED High Mast system including the battery will be warranted for a period of at least 5 years from the date of supply.
Repair/Replacement	Within 24 hours otherwise a penalty of Rs. 5000/- per day will be imposed

#### 6.15 Road Performance Parameter for Solar Blinker:

S.No.	Specification	Details
1	Blinker Size	300 MM (12 Inch) & 200 mm (8 Inch)
2	Body	Molded Polycarbonate, Suitable for extreme weather conditions
3	Lens	U.V. Stabilized, Transport Polycarbonate
4	Gasket	Rubber Gasket for Sealing between Lens and Signal Unit

S.No.	Specification	Details
5	Color	Red / Amber / Green
6	PCB Used	1.5 mm thick, Glass Epoxy for Power Supply / LED Display
7	LED Used	Ultra Bright, Water clear
8	Viewing Angle	24 Degree for LED's
9	No. of LEDs	176 LED (300 mm)140 LED (300mm) (Power Saver Model) 96 LED (200 mm)
10	Charge Control Unit (CCU)	Built in Type, helps to protect battery from deep discharging as well as overcharging. Also protect Panel from Reverse Voltage.
11	Solar Panel	12 Volt, Wattage as per requirement
12	Battery	(SMF) Sealed Maintenance Free Type
13	Wire Harness	For making all connections easily and correctly
14	Clamps	For Mounting traffic signal, battery box and solar panel
15		Dia. 3" or 4", Height 2.5 to 4 mt., GI or MS
16	Working Voltage	12v DC
17	Power Supply	Total Solid State Electronic Circuitry
18	Frequency	30 to 40 Flashes Per Minute as desired
19	Operation	24 hours or 12 hours (Dusk to Down)
20	Control Card	In built and solid state
21	Power Factor	>0.9
22	Visibility	500 Mts., Good even during bad weather
23	Certification	IP 65, ISO 9001 : 2008
24	Warranty	All the equipments supplied are subject to satisfactory operation for a period of 3 years from the date of commissioning. The vendor will provide onsite comprehensive warranty for 3 years including LED panel light, Solar System Assembly unit with atleast 12 hours back up having solar module, solar charge controller with cabinet for keeping battery & charge controller and M.S. pole for mounting. The vendor will have to rectify any defects during the warranty free of cost within 24 hours of the receipt of complaint.
25	Repair/Replacement of damaged part/bulb	Within 24 hours otherwise a penalty of Rs. 5000/- per day will be imposed



## **Duties of the Technical / Non-Technical persons deployed for the project stretch**

### **1. Project Manager:**

Project Manager shall be in-charge for the entire project stretch and shall report to PIU, Ramanathapuram and Engineer. He shall furnish daily and weekly indent in advance to the authority as well as to Engineer as required in the contract agreement. He shall represent or accompany the NHAI - PIU, Ramanathapuram on various meetings of State Government and give compliance report for all the activities discussed during the meeting within a week. Further he shall be liable to carry out any other works as directed by the Engineer and NHAI-PIU Ramanathapuram.

### **2. Site Engineer cum Surveyor Engineer:**

Site Engineer cum Surveyor Engineer shall be responsible for the monthly statement for the value of works executed and quality control requirements. Further he shall be liable to carry out any other works as directed by the Engineer and NHAI-PIU, Ramanathapuram.

### **3. Incident cum Road Property Manager cum Route Operation Manager:**

Incident cum Road Property Manager cum Route Operation Manager shall be responsible for all the activities under his section of the project highway. Further he shall be liable to carry out any other works as directed by the Engineer and NHAI-PIU, Ramanathapuram.

In case of any failure on deploying these personnel, action shall be initiated under clauses 9 (section V- Conditions of Contract)

Deployment above persons are part of contract price and nothing shall be paid additional.

**6.16** Contractors are requested to submit consent/acceptance as the instant O&M work to be awarded for a period of 1 year with the condition that, the contract may be foreclosed at any time as per Clause 53.6 of Section-V Conditions of Contract and Contract Data of RFP and Payments will be released on pro-rata basis i.r.o. the quoted rates/quantities for the items actually executed, as applicable, during the CA period.

**(SECTION-VII)**

**TECHNICAL SPECIFICATIONS**

## **TECHNICAL SPECIFICATIONS**

### **7.1 PREAMBLE**

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

### **7.2 GENERAL REQUIREMENTS**

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

#### **PART-I-GENERAL TECHNICAL SPECIFICATIONS**

The General Technical Specifications shall be the "SPECIFICATIONS FOR ROADAND BRIDGE WORKS" (FIFTH REVISION, 2013) issued by the Ministry of RoadTransport & Highways, Government of India and published by the Indian Roads Congress, herein after referred to as MORTH Specifications.

#### **PART-II-SUPPLEMENTARY TECHNICAL SPECIFICATIONS**

When an Amended/Modified/Added Clause supersedes a Clause or part there of 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 MORTH Specifications under reference, the Amended/Modified/Addedclause and the additional specifications shall always prevail.

- 7.2.2 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, incase of any dispute a rising out of the interpretation of the above, the decision of the Engineer shall be final and binding on the Contractor.
- 7.2.3 The Authority/Client shall get the 3<sup>rd</sup> party quality audit of Bituminous work from any nearest reputed government technical institute for its gradation, bitumen content and thickness for every km. and construction agency shall bear the cost of these tests.

**(SECTION-VIII)**

**IMPLEMENTATION MANUAL**

**AND**

**MAINTENANCE INTERVENTION LEVELS**

## **SECTION – VIII**

### **IMPLEMENTATION MANUAL AND MAINTENANCE INTERVENTION LEVEL**

#### **8.1 Introduction**

8.1.1. Maintenance & Rehabilitation work of highway through one agency is the work of typical nature, which shall continue upto the expiry of base period specified in the contract (excluding defect liability period). These works need attention, efficiency, continuous monitoring and responsive management. This implementation manual spells out detailed guide-lines for implementing the maintenance programme successfully, defining the various activities to be accomplished by the Employer and the Contractor.

8.1.2. This work includes routine, periodic, recurrent and urgent maintenance activities to repair highway surface, shoulders, roadside, drainage facilities, CDwork, signs, markings, safety features and inspection facilities. The works of different nature at scattered locations with in specified time frame need to be performed confirming to specifications and standards in order to keep carriageway in perfect condition.

#### **8.2 Maintenance Procedures**

8.2.1 The complete maintenance programme shall be spread over the initial base period of three months. There are eight significant procedural areas:

- Maintenance Programme Planning
- Resource Estimation
- Identification of Priorities
- Work Scheduling
- Work Management
- Work Control and Quality Assurance
- Payment Procedures
- Records & Documentation

#### **8.3 Maintenance Programme Planning**

8.3.1 The maintenance programme planning shall be in two stages

- a. First Stage: Within 28 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 7 (seven) 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 than stipulated date of commencement.
- b. Finalization of yearly maintenance programme: 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 subsection (length of subsection shall be 200m) based on representative measurements for 25m length in each subsection. The extent of defects shall be recorded informs finalized in consultation with NHAI for paved road, unpaved road and structure/furniture. All Defects with its extent shall be assessed in terms of length & area of the subsection, 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 quantify the defects after comparison of measured condition of road and maintenance intervention levels setout 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.

#### 8.4 Resource Estimation

The Engineer shall workout the yearly requirement of funds based on unit prices rates quoted by Contractor and quantities of various items proposed to be executed. A tentative programme shall be drawn on the basis of resources available with the contractor at different times of maintenance period including available establishment, equipment and labour availability with him. Cash flow available with the contractor shall also be basic input to determine proposed maintenance programme.

#### 8.5 Identification of Priorities

8.5.1 The Engineer shall work out order of priority, judiciously in order that jobs that have the stronger claim or resources placed ahead of the list and those having least claim are placed at the end.

8.5.2 The maintenance activities by order of importance shall be reckoned in the following order or as deemed proper by Engineer:

- a. Urgent Works: Emergency repairs, removal of road blockade, repair to road breach, removal of accidental vehicles and dead animals, immediate repairs to CD works.
- b. Recurrent Works: Blading and grading of unpaved surface, spot gravelling of unpaved surfaces, clearing of drains before rains, patch repair, local sealing and repair to potholes.
- c. Periodic Works: Re-gravelling shoulders, major repair to defective carriageway, road surface markings resealing and repair to CDworks.
- d. Other Periodic Works: Laying overlays and reconstruction

8.5.3 The activities mentioned under Routine Maintenance shall be carriedout on continuous basis as does not fall in order of priority.

8.5.4 Seasonal variation in the year shall also be influencing factor to decide order of priority of maintenance works.

## 8.6 Work Scheduling

8.6.1 The maintenance and rehabilitation work of road is of unpredictable nature so quantities shown against each item or work are only representative. It is expected that they would be consumed during the entire base period of works but employer would not be responsible to pay any compensation etc. in case there is variation to any extent in quantity of actual execution of particular item of work with respect to representative quantity shown in BOQ for that particular work.

8.6.2 Scrutinized work proposals shall be negotiated by the Engineer with Contractor for quantity and time to complete those particular activities and accordingly they shall be classified into two groups:

Group—I: Works of short duration of completion (upto 2 months)

Group—II: Works of larger duration of Completion (more than 2 months)

8.6.3 For works under Group I, quarterly indents shall be issued and for works classified under Group 2, bi-annual indents shall be issued by the Engineer. These indents shall mean to identify, quantity the various works which contractor is expected to execute on his unit rates quoted by him at specified locations within the time period assigned in the indents. Each indent shall be treated as part of the work for which contractor has submitted Bids. The terms & conditions applicable in bid document shall also be applicable to these indented works.

8.6.4 In case of urgency requiring immediate actions to remove road blockade, to construct temporary diversion or urgent preventive measures to reduce extent of expected damages or to make precautionary arrangements to handle emergencies, Engineer shall issue interim indents for such works/arrangements to be complied with by the contractor in responsible manner without loss of time.

8.6.5 The price of any such work which are not covered with items mentioned in price bid, the rates and prices in the contract shall be used as the basis for valuation of reasonable rates, failing which after due consultation by the Engineer with the Employer and the Contractor; suitable rates or prices shall be decided by the Engineer with the approval of Employer.

## 8.7 Work Management

8.7.1 The success of Contract maintenance system lies with good work management. The contractor shall draw activities which shall be accomplished by in-house crew and portion of the work to be accomplished with sub-contractors.

8.7.2 The system of quarterly reports such as budget reports, resources utilization report, quality control and status of base maintenance programme (planned versus actual) has to be generated in order to evaluate working of contract maintenance system and to work out upgradation / modification required in the programme. The modification to finalized maintenance programme can be made with mutual consent to both the contractor and engineer to derive best results.

8.7.3 The contractor can also consider to introduce communication system (like mobile, etc.), on the Highway for better and efficient management of site.

## 8.8 Work Control & Quality Assurance

8.8.1 The Engineer shall adopt random sampling procedures to ensure quality control. Engineer shall carry out in- process inspections and end product inspections to collect samples and shall carryout testing in order to determine the degree of adherence to the maintenance standards of delivered or constructed material. Any testing/checking of works by Engineer shall not absolve the contractor from his responsibility to execute works strictly in accordance of MoRT&H / IRC / IS specifications or laid down standards in bid document.

8.8.2 A quality control laboratory equipped with all instruments required to perform tests as indicated in MoRT&H/IRC/IS specifications at frequency mentioned therein shall have to be provided by the contractor. Contractor shall ensure that testing of all material delivered or constructed is regularly carriedout by his filed staff as per standard norms and results of these tests are recorded in specified manner and made available to Engineer whenever required by him. The contractor shall provide the QC laboratory, as incidental to work and no separate payment shall bemade for this item. The QC lab shall also be made available to Engineer for conducting tests of his own.

### Work Control & Quality Assurance

8.8.3 In-process inspections shall be carried out by the Engineer to witness and /or to verify the quality /quantity of work, when activity is in process with aim to judge justification of payment. Engineer shall carry out end product inspections after completion of the activity to provide satisfactory evidence about acceptability of the contractors work.

8.8.4 The results of in process inspections, end product inspections and quality control tests shall form basis of acceptance of completed works and issuance of Non Conformance Report (NCR). Items of Works or unit of material or the end product do not meet the specifications/ standards shall be identified by "Non-Conformance-Report" and can be come basis of rejection of work on establishing the authorized disposition.

8.8.5 Non Conformance Report: Defective or uncompleted work shall not be paid. Such work shall also be notified to the Contractor within 10 days of submission of bill through non-conformance report (NCR). The NCR shall clearly identify the item of work that is non – conforming either to specification or to a specific requirement in the contract document. Once NCR is identified, it shall be evaluated and of the dispositions would be established.

- a. "Do" Identifies the work which has not been done at all at site with inspecified timelimit. An NCR issued with "Do"  
Disposition for the work should immediately be undertaken by contractor.
- b. "Re-Do" Identified the work, that is non-conforming of all quality aspects. Such works be totally removed & redone.
- c. "Re-work" Requires part of particular item identified in this category be reworked to bring it to the quality required.
- d. "Use-sa-is" Applied where Engineer accepts work "as-is" not with standing



the fact that it does not exactly conform to the contract requirements. This work shall be accepted only for agreed reduced rates with respect to unit rates quoted in financial bid by the contractor otherwise shall be re-classified under disposition "Do" or "Re-Do".

## 8.9 Payment Procedures

8.9.1 The contractor shall submit to the Engineer after the end of each month bill in two copies, each signed by authorized contractor's representative instandard format, showing the amounts to which the contractor considered himself to be entitled upto the end of the month. These bills should be prepared each indentwise.

- The Engineer after scrutiny of the bills shall certify and recommend the payments for completed accepted works within 14 days of presentation of bill to him to the employer subject to deductions as per bid documents.
- The employer shall pay the amount due to the Contractor under certificate and recommendations by the Engineer within 28 days after it has been delivered to the Employer.

## 8.10 Records & Documentation

8.10.1 The results of all inspections shall be documented. The test results containing documentary evidence of activities and data relevant to the quality of work and performance of the contractor shall also be documented. The field daily to be filled by Site Engineer of Contractor shall be a basic form of documentation. The activities to be entered in daily diary are

- The description of day's activities, number and type of crew on job, equipment on job weather and temperature
- Any measurement made to determine pay quantities
- Daily summary of material issued in the job
- A record of significant conversations with and direction given to the contractor
- A record of bottlenecks with the progress or execution of the work
- A record of material testing in lab
- Details of visit by officials

8.10.2 The Contractor shall carryout road roughness measurement as directed by Engineer for the entire stretch at the end of the pavement maintenance and shall submit the complete record to NHAI. There shall not be any separate payment on account of this. The payment pertaining to this shall be deemed to be included in the items of works.

## 8.11 MAINTENANCE INTERVENTION LEVELS

The following criteria shall be adopted by the Engineer while indenting the works.

Sl. No	Defects	Criteria / Extent (% of sub section length)	Treatment Action	Type of maintenance
1	Shoulder & Slopes			
1.1	Vegetation growth on shoulders & side slopes	Any kind	Vegetation growth be removed	Routine
1.2	Trees	a. All kind	Trim and remove dead / diseased branches	Routine
		b. Fallen trees on carriageway	Remove immediately	Urgent
1.3	Deformation or scour	a. Upto 50 mm	Fill & Compact	Routine
		b. More than 50 mm	Reconstruction	Recurrent
1.4	Disturbed stone pitching	a. Upto 30sqm.	Repair	Routine
		b. More than 30 sqm	Reconstruct	Urgent
2	Side drains			
2.1	Kuccha drains silted / too shallow	Any extent	Clean & repair	Routine
2.2	Standing water shoulders / drains on	Any	Realign to correct gradient and make shallow lateral drains	Routine
2.3	Silting in pucca drains	Any extent	Clean out	Routine
2.4	Damages or scouring of pucca drains side	Any extent	Repair reconstruct adequate and shape and to size	Routine
3	CD Works			
3.1	Silted or blocked openings	Any extent	De-silting cleaning	Routine
3.2	Erosion / Scour in upstream / down stream	Any extent	Repair / fill the boulders	Periodic
3.3	Pot holes erosion in paved surface floor	Any extent	Repair with concreting	Periodic
3.4	Damaged crash barriers	Any	Reconstruct	Recurring
3.5	Vegetation growth at inlet / outlet & near	Any	Remove & Clear	Routine

Sl. No	Defects	Criteria / Extent (% of sub section length)	Treatment Action	Type of maintenance
	parapets			
3.6	Damaged masonry in parapets / substructure / superstructure	Any extent	Repair to match with existing & report to the Engineer	Recurrent
3.7	Painting exposed surfaces of bridge railings, kerb stones, parapets	Any	Repaint / White wash	Periodic
3.8	Cracks in structure	Any	Repair and report to the Engineer	Recurrent/ Urgent
3.9	Leached, honeycombed, spalled concrete surface, & exposed reinforcement	a. Upto 20 sqm	Repair with epoxy mortar or injected concreting	Urgent
		b. More than 20 sqm	Reconstruct	Urgent / Special alters
3.1	Checking of expansion joints	Any	Check & repair & clean	Periodic
3.11	Maintenance bearings of	Any(In case replacement of bearings is required, then specific report to be given to the Engineer)	Check & clean & carry ordinary maintenance	Periodic
4	Road Furniture			
4.1	Dirty road signs delineators	Any	Wash & clean	Routine
4.2	Damaged / corroded road signs and delineators	Any	Repair, repaint or replace	Periodic
4.3	Missing road signs	Any	Replace	Routine
4.4	Damaged / missing median kerbs, boundary pillars, 200 m stone, km stone & 5 <sup>th</sup> km stones	Any	Replace	Periodic
4.5	Painting & printing letters on road signs, km stones, 200 stone, 5 <sup>th</sup> km stones	Any	Repaint & print to match with existing	Periodic

Sl. No	Defects	Criteria / Extent (% of sub section length)	Treatment Action	Type of maintenance
4.6	Safety barriers, fencing	Any	Repair & repaint	Periodic
4.7	Pavement markings	a. Upto 30sqm.	Repair	Recurring
		b. More than 30 sqm.	Repair	Periodic
5	Road side safety Miscellaneous			
5.1	Dead animals	Any	Remove burry and	Recurrent/ Urgent
5.2	Broken down accidental vehicle	Any	Inform police traffic and remove	Recurrent/ Urgent
5.3	Road blockade	Any	Inform traffic police, remove blockade if reqd. construction temporary diversion	Recurrent/ Urgent
6	Carriageway & Crust			
6.1	Stripping	a. <25 sqm.	Local sealing	Routine
		b. >25 sqm.	Ind coat surface dressing	Periodic
6.2	Rutting	a. depth of ruts < 50 mm		
		i. Crack < 10 mm	Seal the with slurry Crack	Routine
		ii. crack > 10 mm	Surface dressing & fill ruts with bituminous mix	Recurrent
		b. depth of ruts > 50 mm		
		i. Crack < 10 mm	Seal the cracks with slurry and fill ruts with bituminous mix	Routine
		ii. crack > 10 mm	Surface coat surface dressing over cracked area to be followed by overlay	Periodic / Special attention
6.3	Pot holes	a. <20 mm	Patch repair to pot holes	Recurrent
		b. >20 mm	Patch repair to pot holes & check dressing of crust for strengthening if reqd.	Recurrent/ Special Attention
6.4	Bleeding	a. < 25 sqm	Spread and roll over 6 mm size heated aggregates	Routine
		b. > 25 sqm	Apply surface dressing	Periodic
6.5	Cracks	a. < 25 sqm	Local sealing of cracks	Routine
		b. > 25 sqm	Local sealing followed by renewal	Periodic
6.6	Hungry surface	Any	Apply, slurry seal or fog seal	Recurrent
6.7	Corrugations	-----	Cutting of high spots and filling of low spots with existing surfacing material and seal the surface	Recurrent
6.8	Shoving	-----	Remove the material upto firm base and relay stable mix	Recurrent
6.9	Shallow depressions	-----	Repair the depression with pre-mixed material	Recurrent
6.10	Settlements &	a. <20 sqm	Remove the weak	Recurrent

Sl. No	Defects	Criteria / Extent (% of sub section length)	Treatment Action	Type of maintenance
	upheaval		/ defective fill upto base & redo.	
		b. >20 sqm	i. Remove the weak / defective fill upto base & redo	Periodic
			ii. Strengthen the crust by providing	
			additional layers	
6.11	Edge breaking & edge steps	a. <25 mm	Cut affected area and patch repair to road edge; with repair to unpaved shoulders also	Recurrent

**DRAFT INTEGRITY PACT**

*(To be executed on plain paper and submitted along with Technical Bid/Tender documents for tenders having a value between Rs.5 Cr and Rs.100 Cr. To be signed by the bidder and same signatory competent/authorized to sign the relevant contract on behalf of the NHAI). This integrity Pact is made at on this day of 20.*

Between

National Highways Authority of India (NHAI), a statutory body constituted under the National Highways Authority of India Act, 1988, which has been entrusted with the responsibility of development, maintenance and management of National Highways, having its office at G-5 & G-6, Sector-10, Dwarka, New Delhi, herein after referred to as "The Principal", which expression shall unless repugnant to the meaning or context thereof include its successors and permitted assigns.

and

\_\_\_\_\_ herein after referred to as "The Bidder/Contractor/Concessionaire/Consultant" and which expression shall unless repugnant to be meaning or context thereof include its successors and permitted assigns.

Preamble

Whereas, the Principal intends to award, under laid down organizational procedures, contract/s for **"Annual Maintenance including Incident Management of Two laning with Paved Shoulders of Paramakudi to Ramanathapuram section from Km 81/064 to Km 120/484 of NH-87 (Old NH-49) in the State of Tamil Nadu on Item Rate Basis (2<sup>nd</sup> Call)"** The Principal values full compliance with all relevant laws of the land, rules of land, regulations, economic use of resources and of fairness/transparency in its relations with its Bidder(s) and/or Contractor(s)/Concessionaire(s)/Consultant(s).

And where as to meet the purpose aforesaid, both the parties have agreed to enter into this Integrity Pact (here after referred to as Integrity Pact) the terms and conditions of which shall also be read as integral part and parcel of the Tender documents and contract between the parties. Now, therefore, in consideration of mutual covenants stipulated in this pact, the parties hereby agree as follows and this pact witnesses has under:-

Article 1 Commitments of the Principal

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
  - (a) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self, or third person, any material or immaterial benefit which the person is not legally entitled to.

- (b) The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
  - (c) The Principal will exclude all known pre judged persons from the process, whose conduct in the past has been of biased nature.
1. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act or any other Statutory Acts or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions as per its internal laid down Rules/Regulations.

#### Article 2 Commitments of the Bidder(s)/Contractor(s)/Concessionaire(s)/Consultant(s).

The Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

- (a) The Bidder(s) /Contractor(s) /Concessionaire(s) /Consultant(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- (b) The Bidder(s) /Contractor(s) /Concessionaire(s) /Consultant(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- (c) The Bidder(s) /Contractor(s) /Concessionaire(s) /Consultant(s) will not commit any offence under the relevant IPC/PC Act and other Statutory Acts; further the Bidder(s)/Contractor(s)/Concessionaire(s)/ Consultant(s) will not use improperly, for purposes of completion or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- (d) The Bidder(s)/Contractor(s)/Concessionaire(s)/Consultant(s) of foreign-origin shall disclose the name and address of the Agents/Representatives in India, if any. Similarly the Bidder(s)/Contractor(s)/Concessionaire(s) / Consultant(s) of Indian Nationality shall furnish the name and address of the foreign principle, if any.
- (e) The Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) will, when presenting his bid, disclose any and all payment she has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection

with the award of the contract. He shall also disclose the details of services agreed upon for such payments.

- (f) The Bidder(s) /Contractor(s) /Concessionaire(s) /Consultant(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- (g) The Bidder(s) /Contractor(s) /Concessionaire(s) /Consultant(s) will not bring any outside influence through any Govt.bodies/quarters directly or indirectly on the bidding process infurtherance of his bid.

#### Article-3 Disqualification from tender process and exclusion from future contracts.

1. If the Bidder(s)/Contractor(s)/Concessionaire(s)/Consultant(s), before award or during execution has committed a transgression through a violation of any provision of Article-2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) from the tender process.
2. If the Bidder/Contractor/Concessionaire/Consultant has committed a transgression through a violation of Article-2 such as to put his reliability or credibility into question, the Principal shall be entitled to exclude including blacklist and put on holiday the Bidder/Contractor/Concessionaire/Consultant for any future tenders/contract award process. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the Principal taking into consideration the full facts and circumstances of each case particularly taking into account the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder/Contractor/Concessionaire/Consultant and the amount of the damage. The exclusion will be imposed for a minimum of 1 year.
3. A transgression is considered to have occurred if the Principal after due consideration of the available evidence concludes that "On the basis of facts available there are no material doubts".
4. The Bidder/Contractor/Concessionaire /Consultant with its free consent and without any influence agrees and undertakes to respect and uphold the Principal's absolute rights to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
5. The decision of the Principal to the effect that a breach of the provisions of this Integrity Pact has been committed by the Bidder/Contractor/Concessionaire/Consultant shall be final and binding on the Bidder/Contractor/Concessionaire/Consultant.
6. On occurrence of any sanctions/disqualification etc arising out from violation of integrity pact, the Bidder/Contractor /Concessionaire/ Consultant shall not be entitled for any compensation on this account.
7. Subject to full satisfaction of the Principal, the exclusion of the Bidder/Contractor /Concessionaire /Consultant could be revoked by the Principal if the Bidder / Contractor / Concessionaire / Consultant can prove that



he has restored/ recouped the damage caused by him and has installed a suitable corruption prevention system in his organization.

#### Article- 4 Compensation for Damages.

1. If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Article-3, the Principal shall be entitled to forfeit the Earnest Money Deposit / Bid Security or demand and recover the damages equivalent to Earnest Money Deposit / Bid Security apart from any other legal right that may have accrued to the Principal.
2. In addition to 1 above, the Principal shall be entitled to take recourse to the relevant provisions of the contract related to Termination of Contract due to Contractor/Concessionaire/Consultant's Default. In such case, the Principal shall be entitled to forfeit the Performance Bank Guarantee of the Contractor/Concessionaire/Consultant and/or demand and recover liquidated and all damages as per the provisions of the contract/concession agreement against Termination.

#### Article-5 Previous Transgression

1. The Bidder declares that no previous transgressions occurred in the last 3 years immediately before signing of this Integrity Pact with any other Company in any country conforming to the anticorruption/Transparency International (TI) approach or with any other Public Sector Enterprise/Undertaking in India or any Government Department in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action for his exclusion can be taken as mentioned under Article-3 above for transgressions of Article-2 and shall be liable for compensation for damages as per Article-4 above.

#### Article 6 Equal treatments of all Bidders / Contractors / Concessionaires / Consultants / Subcontractors.

1. The Bidder(s) /Contractor(s) /Concessionaire(s)/ Consultant(s) undertake(s) to demand from all sub-contractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
2. The Principal will enter into agreements with identical conditions as this one with all Bidders/Contractors/Concessionaires/Consultants and Subcontractors.
3. The Principal will disqualify from the tender process all Bidders who do not sign this Pact or violate its provisions.

#### Article-7 Criminal charges against violating Bidder(s) / Contractor(s) / Concessionaire(s) / Consultant(s) / Sub-contractor(s).

If the Principal obtains knowledge of conduct of a Bidder / Contractor / Concessionaire / Consultant or Subcontractor, or of an employee or a representative or an associate of a Bidder / Contractor / Concessionaire / Consultant or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

#### Article- 8 Pact Duration

This Pact begins when both parties have legally signed it. (In case of EPC i.e. for projects funded by Principal and consultancy services). It expires for the Contractor /Consultant 12 months after his Defect Liability period is over or 12 months after his last payment under the contract whichever is later and for all other unsuccessful Bidders 6 months after this Contract has been awarded. (In case of BOT / DBFOT Projects) It expires for the concessionaire 24 months after his concession period is over and for all other unsuccessful Bidders 6 months after this Contract has been awarded. If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairman of NHAI.

#### Article 9 Other Provisions.

1. This pact is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal,i.e. New Delhi.
2. Changes and supplements as well as termination notices need to be made in writing.
3. If the Bidder / Contractor / Concessionaire / Consultant is a partnership or a consortium, this pact must be signed by all partners or consortium members.
4. Should one or several provisions of this agreement turn out to be invalid, there mainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. Any disputes/differences arising between the parties with regard to term of this pact, any action taken by the Principal in accordance with this Pact or interpretation there of shall not be subject to any Arbitration.
6. The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

In witness whereof the parties have signed and executed this Pact at the place and date first done mentioned in the presence of following witness:-

(For & Onbehalf of the Principal) (For & Onbehalf of the Bidder / Contractor / Concessionaire / Consultant)

(Office Seal)

Place:\_\_\_\_\_

Date:\_\_\_\_\_

Witness 1: (Name & Address):\_\_\_\_\_

Witness 2: (Name & Address):



**NATIONAL HIGHWAYS AUTHORITY OF INDIA  
(MINISTRY OF ROAD TRANSPORT & HIGHWAYS, GOVT.OF INDIA)**

**Name of the work:** “Annual Maintenance including Incident Management of Two laning with Paved Shoulders of Paramakudi to Ramanathapuram section from Km 81/064 to Km 120/484 of NH-87 (Old NH-49) in the State of Tamil Nadu on Item Rate Basis (2<sup>nd</sup> Call)”

**(Tender Ref. No: NHAI/17011/01/123/2025/RO Madurai)**

**VOLUME - II**

**The Regional Officer,  
National Highway Authority of India,  
2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza,  
No.1, Lake Area, Melur Main Road,  
Mattuthavani, Madurai-625107.  
Phone: 0452-2588999**

**June - 2025**

SECTION:IX

--

BILL OF QUANTITIES

**The Appendix forms part of Bid. Bidders are required to fill up all the blanks in the form of Bid and Appendix there to)**

**FINANCIAL BID FORM**

To

The Regional Officer,  
National Highways Authority of India,  
2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza,  
No.1, Lake Area, Melur Main Road,  
Mattuthavani, Madurai-625107.  
Phone: 0452-2588999

**Description of works:** Annual Maintenance including Incident Management of Two laning with Paved Shoulders of Paramakudi to Ramanathapuram section from Km 81/064 to Km 120/484 of NH-87 (Old NH-49) in the State of Tamil Nadu on Item Rate Basis (2<sup>nd</sup> Call).

Reference letter No.....

Dear Sir,

Having examined the site of works and Bid Documents, comprising Instructions to Bidders, Scope of works, Conditions of Contract, Technical Specifications, Bill of Quantities and schedules for the execution of the above named works, we, the undersigned offer to execute and complete such works and remedy any defects therein in conformity with the said bid documents for the sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) or such other sum as may be ascertained in accordance with the said Bid documents.

2. We undertake, if our Bid is accepted, to commence the work within Seven (7) days of receipt of the order to commence, and to complete and deliver the sections and whole of the works comprised in the Contract within the period stated in the bid hereto.
3. If our Bid is accepted, we will furnish Performance Security (ies) in the form of a Bank Guarantee to be jointly and severally bound on us, in accordance with the Conditions of Contract.
4. We agree to a bid by this Bid for the period of One Hundred & Sixty Five (165) days from the last date fixed for Bid Submission and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

5. We confirm our agreement to treat the Bid documents and other records connected with the works as secret and confidential documents and shall not communicate information contained there into any person other than the person authorized by the Employer or use such information in any manner prejudicial to the safety and integrity of the works.
6. Unless and until an agreement is prepared and executed, this Bid, together with your written acceptance there of, shall constitute a binding Contract between us, but without prejudice to your right to withdraw such acceptance with out as signing any reasons thereof.
7. We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20---

Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_ duly authorized\*\*

To sign Bid for and on behalf of

\_\_\_\_\_

(In block capital letters)

Address: \_\_\_\_\_

\_\_\_\_\_

Signature of Witness \_\_\_\_\_

Name of witness \_\_\_\_\_

Address of witness \_\_\_\_\_

\_\_\_\_\_

---

\*\* Certified copy of Power of Attorney / authorization for signature shall be furnished by the bidder.

## **Bill of Quantities**

### **9.0 Preamble**

9.01 The Bill of quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Scope of Work and Specifications.

9.02 The quantities given in the Bill of quantities are estimated quantities. The basis of payment will be actual quantities of work indented and carried out and valued at the rates and prices tendered in the priced Bills of quantities, where applicable and otherwise at such rates and prices as the Engineer may fix within the terms of Contract.

9.03 The rates and prices tendered in the priced Bill of Quantities shall include all equipment, plant, tools, spares, labour, supervision, overheads, consumables, materials, erection, maintenance, testing of input material delivered, profit, taxes and duties together with all general risks, liabilities and obligations set out and implied in the Contract and other incidentals to comply with the requirements of technical specifications and scope of work.

9.04 The rates and prices shall be quoted entirely in Indian Currency.

9.05 A rate or price shall be tendered as a single rate as Tender Premium % above/below on the amount mentioned in enclosed abstract of cost.

9.06 The whole cost of complying with the provisions of the contract shall be included in the items provided in the priced Bill of Quantities and where no rates are provided the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.

9.07 The contractor shall keep the entire carriageway neat and clean through out the contract period. The contractor shall maintain guardrails, railings, crash barriers, road furniture etc. In good condition by cleaning them frequently as advised / required by using suitable detergents / chemicals.

- The staff of the contractor shall wear safety jackets, shoes, helmets, etc. while on duty and any violation will attract a fine of Rs.5,000/- for each incident.
- Failure to erect safety signage or trying to carry out the works without proper precautions / safety measures as required will attract a fine of Rs.5,000/- for each incident.

9.08 The Tendered rate for Incident Management shall include all equipment, labour, material, consumables, tools, spares, and other incidentals to comply with the requirement of the scope of the work and technical specification.

9.09 General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. Reference to the relevant sections of the bidding document shall be made before entering rates or prices against each item in the Bill of Quantities.