

GOVERNMENT OF TELANGANA
ROADS AND BUILDINGS DEPARTMENT



BID DOCUMENT

NIT No. SE(R&B)/NH/NZB/04/2026-27, Dt: 05.06.2026

VOLUME – I

NAME OF WORK	Short Term Maintenance of (i) Kalyan- Nirmal-Jagtial road (NH-61) from Km 707/055 to 753/890 (ii) Nizamabad -Jagadalpur section of NH-63 from Km 0/0-2/700, Km 6/700-7/930, Km 10/090-10/670, Km 11/070-11/110, Km 14/500-15/100, Km 16/030-16/120, Km 16/750-16/760, Km 16/760-17/055, Km 17/055-17/110, Km 19/700-21/500 and Maharashtra state border of NH-63 road missing gap from Km 10/350-12/0 & descoped stretch from Km 14/200-14/450 in the state of Telangana.
NAME AND ADDRESS OF THE CONTRACTOR WHO DOWN LOADED THE BID DOCUMENTS.	----- ----- ----- ----- -----

Office of the Superintending Engineer (R&B),
National Highways Circle, Nizamabad.

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SECTION – 1

NOTICE INVITING TENDER

NIT No. SE(R&B)/NH/NZB/04/2026-27, Dt: 05.06.2026

- Availability of bid documents from : 06.06.2026 to 30.06.2026
- Date of Pre-bid meeting : 12.06.2026 at 15:00 Hrs
- Deadline for submission of bids : 30.06.2026 at 15:00 Hrs
(Bid Due Date)
- Deadline for physical submission of original documents : 03.07.2026 at 15:00 Hrs
- Opening of technical bids : 01.07.2026 at 15:00 Hrs
- Opening of financial bids : Intimated later
- Validity of bids : 120 Days from Deadline for submission of bid.

NOTICE INVITING TENDER

1. The Ministry of Road Transport & Highways, Government of India through Roads & Buildings Department, Government of Telangana represented by **Chief Engineer (R&B), National Highways, Errummanzil, Hyderabad** (the “Authority”) hereby invites Single Percentage Rate Bids through e-tendering from experienced firms/organizations for maintenance works and activities for the following sections of the National Highways.

Sl. No.	Section	Length (km)	Estimated Cost (incl. GST) (Rs.)	Bid Security (Rs. Lakh)	Contract Duration* (month)
1.	Short Term Maintenance of (i) Kalyan- Nirmal-Jagtial road (NH-61) from Km 707/055 to 753/890 (ii) Nizamabad -Jagadapur section of NH-63 from Km 0/0-2/700, Km 6/700-7/930, Km 10/090-10/670, Km 11/070-11/110, Km 14/500-15/100, Km 16/030-16/120, Km 16/750-16/760, Km 16/760-17/055, Km 17/055-17/110, Km 19/700-21/500 and Maharashtra state border of NH-63 road missing gap from Km 10/350-12/0 & descoped stretch from Km 14/200-14/450 in the state of Telangana.	56.06	9,56,51,582.58	9.57	12 Months*

(* Out of which Quantity Based Road maintenance and Road Property Maintenance shall be completed in 2 months and Pavement Repairs shall be spread throughout 12 months)

- Cost of bid Documents (Non-Refundable) : **Rs.11,800/- (Rupees Eleven thousand Eight Hundred only Incl GST),**
- e-Tender Processing fee (Non-Refundable) : Nil

2. The preliminary requirements (detailed requirements are given in the Bid Documents) of bidding firm/contractor for above work are mentioned as under:-

Average Annual Turn-over during last 3 years	Work of similar nature during last 5 years (completed works satisfactorily completed not less than 90% of contract value as a prime contractor)
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Minimum Average Annual Turnover Rs. 956.52 Lakhs (Equal to Estimated cost incl GST)	Single work of Rs. 478.26 Lakhs (minimum 50% of estimated cost of work) (or) Two similar works each of Rs. 334.79 Lakhs (minimum 35% of estimated cost of work) (or) Three similar works each of Rs. 239.13 Lakhs (minimum 25% of estimated cost of work)
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3. The Scope of Work includes the routine maintenance of all the assets and facilities existing within Right of Way (ROW) on the above mentioned section including maintenance of carriageway, shoulders, median, bridges, culverts, drains, footpaths, road signage, plantation etc., Pavement Repairs and carrying out other works as specified in the bid documents.

4. To participate in the bidding, it is mandatory for the Bidders to get registered their firm with e-procurement portal <https://eprocure.gov.in/eprocure/app> to have user ID & password which has to be obtained free of cost. Following may kindly be noted:

- (a) Registration with e-procurement portal should be valid at least up to the date of submission of BID.
- (b) BIDs can be submitted only during the validity of registration.

The Bidders shall update their project and other details on the portal on a regular basis and apply to the tenders via the portal.

Bidders are also required to get registered their firm with Bidder Information Management System (BIMS) Portal.

The detailed bid documents can be viewed on the website <https://eprocure.gov.in> from **06.06.2026 to 30.06.2026** (upto 15:00 Hrs).

5. The complete BID document can be viewed / downloaded from official portal of the CPPP website (eprocure.gov.in/eprocure/app) from **06.06.2026 to 30.06.2026** (up to 15.00 Hrs. IST). The amendments/ clarifications to the Bid Document if any, will be hosted on the above website. The bidder is required to submit, along with its BID, the cost of BID/RFP document, **i.e. Rs. 11,800/- (Rupees Eleven Thousand Eight Hundred only)**, to Employer's account through Bharatkosh, as mentioned below:

Sr. No.	Particulars	Details
1.	Link of Bharat Kosh	bharatkosh.gov.in
2.	Pay and Accounts Officer (PAO)	PAO Code – “002193” Regional Pay & Accounts Officer (NH) Hyderabad,
3.	Drawing and Disbursing Officer (DDO)	DDO Code - “203942” Superintending Engineer

6. The Bid should be submitted online in the prescribed format given on the website. No other

mode of submission is acceptable.

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

8. The last date for online submission of the Bid is **30.06.2026** upto 15:00 hrs (as mentioned on the e-portal only) ("Bid Due Date"). Bidder must submit its Financial Bid and Technical Bid on CPPP e-procurement portal within the above deadline. Bidder must also submit Technical Bid on BIMS Portal within the specified deadline.

9. The bids would be opened on **01.07.2026** at 15:00 hrs online at Office of the Superintending Engineer(R&B) NH Circle Nizamabad in the presence of representatives of the bidders (maximum of two) who choose to attend may attend the online opening of the bids at the Office of Superintending Engineer(R&B) NH Circle Nizamabad 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 letter head of the bidder, at the time of opening of bids as mentioned above.

10. The amount of Bid Security is **Rs. 9.57 Lakhs**. The Bid Security shall be as per the format given in section-4 of this bid document and shall be valid for a period of **180 days from** the deadline of submission of tenders.

11. The period of validity of bid is 120 days from the deadline of submission of bid.

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

- | | | |
|-----|---------------|--|
| i. | ATTN. OF. | : Mr. P. Dharma Reddy |
| | Designation | : Chief Engineer (R&B), National Highways, |
| | Address | : 4 th Floor, O/o Engineer-in-Chief (R&B),
Errummanzil, Hyderabad |
| | Email Address | : cenhts@gmail.com |
| ii. | ATTN. OF. | : Mr. B. Mohan |
| | Designation | : The Superintending Engineer (R&B), NH Circle, Nizamabad, |
| | Address | : Office of the Superintending Engineer (R&B) NH Circle,
Nizamabad Railway Station road, Opposite to old collector office,
Nizamabad, TG-503001. |
| | Email Address | : senhnizamabad@gmail.com |

SECTION-2

INSTRUCTIONS TO BIDDERS (ITB) AND APPENDIX TO ITB

SECTION – 2

INSTRUCTIONS TO BIDDERS (ITB)

TABLE OF CLAUSES

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4.	Qualification of the Bidder	23.	Bid Opening, Clarification of Bids and Evaluation
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11.	Language of Bid	31.	Notification of Award and Signing of Agreement
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16.	Earnest Money/Bid Security/ Forfeiture/Debarment		H. Labour Laws and Fundamental breach
17.	Alternative Proposals by Bidders	35.	Labour Laws and Regulations
18.	Format and Signing of Bid	36.	Fundamental Breach and other Obligations
19.	Marking of Bids		Appendix to ITB

A. GENERAL

1. Scope of bid

1.1 The Employer (as defined in the Appendix to ITB) invites Single Percentage Rate bids through the process of e-tendering for works as described in these documents and referred to as “the Works”. Then a mean identification number of the Works is as defined in the **Appendix** to ITB.

1.2 The successful Bidder will be expected to complete the Works by the intended Completion Date specified in the Contract Data.

1.3 Throughout these Bidding Documents, the terms “bid” and “tender” and their derivatives (bidder/tenderer, bid/tender, bidding/tendering, etc.) are synonymous.

2. Source of Funds

2.1 The expenditure under this contract will be met by the Ministry of Road Transport & Highways, GoI through Roads & Buildings Department, Government of Telangana represented by **Engineer-in-Chief (R&B), National Highways, Errummanzil, Hyderabad**

3. Eligible bidders

3.1 This Invitation for Bids is open to all bidders meeting the qualification requirements Prescribed in **Clause 4** of ITB.

3.2 Any entity which has been blacklisted or barred by the Central or any State Government or any public sector undertaking, autonomous body or any authority under the Central or State Government, from participating in any project, and the bar subsists as on the date of Application shall not be eligible to submit the bid.

4. Qualification of the Bidder

4.1 All bidders shall furnish the following information and documents with their Bids in **Section-3**, Qualification Information, unless otherwise stated in the **Appendix** to ITB.

a) Scanned copies of original documents defining the constitution or legal status, place of registration, and principal place of business; scanned copy of written power of attorney of the signatory of the Bid to commit the Bidder; and original copy of Written Power of Attorney to be submitted in the envelope of physical form.(refer **Clause 12.2** of ITB).

b) Scanned copy of total monetary value of civil engineering construction and maintenance works performed for each of the last three years duly certified by Chartered Accountant;

c) Scanned copy of experience certificate in works of a similar nature and size for each of the last five years with certificates from the concerned officer of the rank of Executive Engineer or equivalent or higher;

d) Scanned copy of evidence of availability (either owned or leased or rented) of items of construction and maintenance equipment named in **Clause 4.3 B(b)(i)**.

e) Scanned copy of details of the technical personnel proposed to be employed for the Contract having the qualifications defined in **Clause 4.3 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) Scanned copy of information regarding any litigation or arbitration during the last five years in which the Bidder is involved, the parties concerned, the disputed amount, and the present status;
- h) Undertaking that the bidder is not affiliated to the firm or entity that has been hired or employed by the Employer for preparation of bid documents or to supervise the contract.

42 Bids from joint ventures/consortiums are not allowed.

43 A To qualify for award of the contract, each bidder in its name should have the following:-

- a) *achieved a minimum average annual financial turnover (in all classes of civil engineering construction and maintenance works only) equal to the amount indicated in NIT during last three years ending 31st March of the previous financial year duly certified by Chartered Accountant.*
- b) satisfactorily completed (not less than 90% of contract value), as a prime contractor for similar works during last five years ending last day of month previous to the one in which bids are invited, either of the following:
 - i. Three similar completed works costing not less than amount equal to **Rs. 239.13 Lakhs** each.
 - ii. Two similar completed works costing not less than amount equal to **Rs. 334.79 Lakhs** each.
 - iii. One similar completed work costing not less than amount equal to **Rs. 478.26 Lakhs**

(The similar work constitutes construction/maintenance of Two/Four/Six Lane highway)

The following escalation factors shall be used to bring the value of such completed works to the level of current financial year **(2026-27)**:

Financial Year	2025-26	2024-25	2023-24	2022-23	2021-22
Multiplying Factor	1.1	1.21	1.33	1.46	1.61

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

- 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-3**.

Failure to submit the certificates/documents as specified above shall make the bid Non-responsive

(b) Each bidder must demonstrate for this work:

- i) evidence of availability (either owned or leased or rented) of the key equipment for this work as stated in the **Appendix** to ITB.
- ii) Availability of personnel with qualification and experience as stated in the **Appendix** to ITB.

Sub- Contractor's Experience and resources shall not be taken into account in determining the bidder's Compliance with the qualifying criteria.

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

$$\text{Available Bid capacity} = (A * N * 2.5 - B)$$

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., 2026-27) taking into account the completed as well as works in progress.

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

B = Value (escalation factor as specified in this section shall be used to bring the value to the level of current financial year i.e., 2026-27) of existing commitments and on-going works to be completed during the next 01 year (period of completion of the works for which bid is invited).

- 4.5 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 work etc.

5. One bid per bidder

- 5.1 Each Bidder shall submit only one Bid for the Works. 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, availability of labour etc. and obtain all information that may be necessary for preparing the Bid and entering into a contract for undertaking the maintenance Works. The costs of visiting the site shall be at the Bidder's own expense. For this purpose, he may contact the person whose contact details are given in the Appendix to ITB.

B. BIDDING DOCUMENTS

8. Content of bidding Documents

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

Section1: Notice Inviting Tender

Section2: Instructions to bidders (ITB) and Appendix to ITB

Section3: Qualification Information

Section4: Forms of bank Guarantee, Letter of Acceptance (LOA) and Agreement

Section5: General Conditions of Contract and Contract Data

Section6: Addendum to General Conditions of Contract

Section7: Road Maintenance Standards and Specifications for Road Maintenance Work, Part-I and Part-II

Section8: Drawings and Schedule of Drawings

Section9: Financial bid form and Bill of Quantities

8.2 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, scope, road maintenance Standards and Specifications, bill of quantities, etc. in the Bid Documents. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to **Clause 26** hereof, Bids, which are not substantially responsive to the requirements of the Bid Documents, shall be rejected.

9. Clarifications on Bid Documents

9.1 A prospective Bidder requiring any clarification on the Bid Documents may notify the Employer in writing or through e-tender portal at the Employer's address indicated in the notice inviting Tender. The Employer will respond to any such 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 including a description of the queries but without identifying its source.

9.2 *Pre-Bid Meeting*

9.2.1 The Bidder's authorized representative is invited to attend a pre-bid meeting, if it is indicated in the **Appendix** to ITB. The purpose of the pre-bid meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

9.2.2 The bidder is requested to submit any questions in writing so as to reach the Employer not later than one week before the meeting.

9.2.3 Minutes of the meeting, including the text of the questions raised (without identifying the source of the enquiry) and the responses given will be posted without delay on website. Any modifications of the bid documents listed in **Clause 8.1**, which may become necessary as a result of the pre-bid meeting or which are required in the opinion of the Employer shall be made by the Employer exclusively through the issue of an Addendum pursuant to **Clause 10** and not through the minutes of the pre-bid meeting.

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

10. Amendment of bidding Documents

10.1 Before the deadline for submission of bids, the Employer may modify the Bidding Documents by issuing addenda.

10.2 Any addendum thus issued shall be part of the Bidding Documents and shall be hosted on e-tendering portal. Bidders are advised to keep themselves updated of all the addenda issued on e-tendering portal by daily checking the e-tendering portal and the Employer does not assume any responsibility in case the bidder fails to do so and does not take any action, if required, with respect to any relevant addendum.

10.3 To give prospective bidders reasonable time to take an addendum into account in preparing their bids, the Employer shall extend, as necessary, the deadline for submission of bids, in accordance with **Clause 20.3**.

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 bid submitted by the bidder shall be in two separate parts namely Part-I and Part-II. Part-I shall be named Technical Bid and shall comprise of information submitted in **Section-3**. Part-II shall be named Financial Bid and shall comprise of Bill of Quantities-Bill no.1 to 3.

12.2 Documents to be submitted in physical form must be delivered by [15.00 Hrs] **within 3 days from Bid Due Date i.e. by 03.07.2026 @ 15.00 Hrs** to any of the address mentioned in the **Clause 20.1 of Submission of Bids**.

Though, the scanned copies of following documents is required to be uploaded during submission of e-bid on the e-tendering portal and BIMS portal as per **Clause 12.1** above, however, following original documents in physical form shall be submitted in a sealed envelope **within 3 days from Bid Due Date i.e. by 03.07.2026 @ 15.00 Hrs** at the address indicated in Clause 20.1, duly super scribed "Name of Work, Bid Due Date and time". Name and address of the bidder should also be indicated on the envelope

- i) Copy of Acknowledgement for Tender Submission and EMD/Bid Security in Original
- ii) Bid Document Fee (Bharatkosh Payment Receipt)
- iii) Deleted
- iv) Written Power of Attorney of the signatory (whose digital signature certificate is used during e-tender submission) of the bidder to commit the Bid.
- v) Affidavit duly notarized (as per the format provided in **Section-3**)

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

- i) Notice Inviting Tender
- ii) Instructions to the Bidders and Appendix to ITB
- iii) General Conditions of Contract and Contract Data
- iv) Addendum to General Conditions of Contract
- v) Road Maintenance Standards and Specifications for Road Maintenance Works,
- vi) Part-I and Part-II
- vii) Drawings and Schedule of Drawings if any

13. Bid Prices

- 13.1** The Contract shall be for the whole Works, as described in **Clause 1.1** based on the Bill of Quantities- Bill no. 1 to 3 submitted by the Bidder.
- 13.2** The Bidder shall quote single percentage rate above/below the BoQ/scheduled rates on appropriate format enclosed as part of tender document on e-tender portal of [].
- 13.3** All duties, taxes, including GST, royalties and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total bid price submitted by the Bidder.
- 13.4** The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment.

14. Currencies of bid and Payment

All payments shall be made in Indian Rupees.

15. Bid Validity and Bid Security

- 15.1** Bids shall remain valid for a period of **120** days after the deadline date for bid submission specified in **Clause 20**. A bid valid for a shorter period shall be rejected by the Employer as non- responsive.
- 15.2** In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the Bidders may extend the period of validity for a specified additional period. The request and the Bidders' responses shall be made in writing. 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.
- 15.3** The Bidder shall furnish, as part of his Bid, a Bid security amounting to **Rs. 9.57 Lakhs** for this particular work. This bid security shall be in favour of **Superintending Engineer (R&B) NH Circle Nizamabad** as per the format given in the section-4 of the bid document in the form of **Bank Guarantee**. The Bid Security shall be valid for 60 days beyond the validity of the Bid. (i.e., 180 days from the deadline for submission of bid)

16. Earnest Money/bid Security/Forfeiture/Debarment

- 16.1** The Bidder shall furnish, as part of the Bid, Earnest Money/Bid Security, in the amount as specified in the NIT. (Bank guarantee/demand draft must be in favour of the Employer.

- 162** **The Earnest Money shall, at the bidder's option, be in the form of bank Guarantee/Demand Draft only (the other forms 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 and must be in the name of Employer. In case of foreign bank (issued by a branch in India), the net worth in respect of the Indian operations shall only be taken into account. It shall be valid for 60 days beyond the validity of the bid. **Any bid having bid security for lesser value and shorter validity period shall be treated as non-responsive.**
- A. Bank Guarantee or Demand Draft receipts, in the name of the Employer, from following banks would be accepted:-
- i) State Bank of India or its subsidiaries,
 - ii) Any Indian Nationalized Bank
 - iii) IDBI/ICICI Bank
 - iv) A Foreign Bank (issued by a branch outside India) with a counter guarantee from SBI or its subsidiaries or any Indian Nationalized Bank.
 - v) Any Scheduled Commercial Bank approved by RBI having a net worth of not less than Rs.500cr or e 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 conditions that the capital adequacy of the Bank shall not be less than the latest norms prescribed by RBI.
- C. The bank guarantee issued by a Cooperative Bank shall not be accepted.
- 163** Any Bid not accompanied by an acceptable Earnest Money, shall be rejected by the Employer as non-responsive.
- 164** 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**.
- 165** The Earnest Money of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Performance Security.
- 166** *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) 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.
- 167** *In case of forfeiture of bid security, the bidder shall also be debarred from participation in the works of for a period of 1 year.*
- 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 such a bid will be declared non-responsive.

18. Format and Signing of bid

18.1 The Bidder shall submit e-bid comprising the documents as described in **Clause 12** of the ITB.

18.2 The documents as stipulated in Clause 12.2 (i), (ii), (iii) (iv) and (v) to be submitted in the physical form along with the demand draft for fees/security shall be typed or written in ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. All the pages of the documents as mentioned here shall be signed by the person/persons signing the Bid. Documents as mentioned here shall contain no over writing, alterations or additions, except those to comply with instructions, issued by the Employer or as necessary to correct errors made by the Bidder, in which case such corrections shall be made by scoring out the cancelled portion, writing the correction and signing and dating it along with the stamp by the person or persons signing the Bids

D. SUBMISSION OF BIDS

19. Marking of bids

19.1 The documents to be submitted in physical form as per **Clause 12.2 ((i), (ii), (iii), (iv) and (v))** of ITB shall be submitted in a sealed Envelope super scribed as “Documents in Physical Form” at the top left corner.

In case of any discrepancy between documents submitted online and documents submitted in the physical form, the documents submitted in physical form shall prevail over the documents submitted through online process.

20. Deadline for Submission of bids

20.1 The Bidder shall ensure that the complete e-Bid is uploaded on the e-tender portal on or before the Bid Due Date and before the time specified in NIT/e-portal. The Bidder is further required to submit Documents in Physical Form on or ~~before the Bid Due Date~~ and before the time of submission as specified in NIT, at the following address:

- | | | |
|------|---------------|--|
| i. | ATTN. OF. | : Mr. P. Dharma Reddy |
| | Designation | : Chief Engineer (R&B), National Highways, |
| | Address | : 4 th Floor, O/o Engineer-in-Chief (R&B),
Errummanzil, Hyderabad |
| | Email Address | : cenhts@gmail.com |
| iii. | ii. ATTN. OF. | : Mr. B. Mohan |
| | Designation | : The Superintending Engineer (R&B), NH Circle, Nizamabad, |
| | Address | : Office of the Superintending Engineer (R&B) NH Circle,
Nizamabad Railway Station road, Opposite to old collector office,
Nizamabad, TG-503001. |
| | Email Address | : senhnizamabad@gmail.com |

In the event of the specified date for the submission of Documents in Physical Form being declared a holiday for the Employer, the same will be received up to the specified time on the next working day.

- 202 The Employer assumes no responsibility for inability of a bidder to submit bids through the Employer's e-tendering portal on account of delay in submission at bidder's end. Bidders shall ensure that they submit the bid well before the "Bid Due Date and Time of Bid-Submission". The Employer shall not be responsible if bidder is not able to submit the bid on account of failure in network/internet connection or any other reason whatsoever.
- 203 The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with **Clause 10**, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.
21. **Late Submission of Documents in Physical Form:**
- 21.1 Any document in physical form if received by the Employer after the deadline prescribed in **Clause 20** will be returned unopened to the Bidder and also the bid submitted by such Bidder shall not be considered.
22. **Modification and Withdrawal of Bids**
- 22.1 Bidders may modify or withdraw their e-bids as directed on the e-tendering portal, before the Bid Due Date and time as prescribed in **Clause 20**.
- 22.2 *No bid may be modified after the deadline for online submission of bids.*
- 22.3 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** or as extended pursuant to **Clause 15.2** shall result in the forfeiture of the Bid Security pursuant to **Clause 16**.
- 22.4 Bidders may modify the prices of their bids before deadline of online submission of bid.
- 22.5 No Late and delayed bids after Bid Due Date and time shall be permitted in e-tendering portal System. Time being displayed on e-Tendering Portal shall be final and binding on bidders and bids have to be submitted by bidders considering this time only and not the time as per their location/country.

E. BID OPENING, CLARIFICATION OF BIDS AND EVALUATION

23. Bid Opening, Clarification of Bids and Evaluation
- 23.1 Bid opening shall be carried out in two stages. Firstly, Part-I 'Technical Bid' of all the Bidders received (except those received late) shall be opened on the date and time mentioned in Notice Inviting Tender (NIT). Part-II' 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.
- 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.

- 232 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.
- 233 The Employer will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with this Clause 23.
- 234 The bids accompanied with valid bid security, 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**.
- 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.
- 235 The Employer shall inform the bidders about the result of technical evaluation by uploading on the web portal giving **3 days** time for objections, if any, from the bidders. The Employer shall finalize the evaluation of technical bids after due consideration of objections received and intimate 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 event of opening of Financial Bids.
- 236 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.
- 237 The Employer shall prepare the minutes of the opening of the Financial Bids.
24. **Process to be Confidential**
- 241 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. **Contacting the Employer**
- 251 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**
- 261 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)Contains the required documents in physical form and the documents uploaded by the bidder are in order; and

(c)Is substantially responsive to the requirements of the Bidding Documents. During the detailed evaluation of the “Financial Bids”, the responsiveness of the Bids will be further determined with respect to the remaining bid conditions, i.e., bill of quantities, Specifications and drawings etc.

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 words, the rates in words will govern; and

27.2 The amount stated in the Financial Bid will be corrected as per **Clause 27.1** and shall be binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid shall be rejected and the Bid Security shall be forfeited in accordance with **Clause 16.6(b)**.

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 If the Bid of the successful Bidder is Seriously unbalanced in relation to the Employer’s estimate of the cost of work to be performed under the contract, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. II, after evaluation of the price analyses, the Employer determines that the bidder has substantially failed to demonstrate its capability to deliver the contract at the offered price, the Employer may reject the bid/proposal.

F. AWARD OF CONTRACT

29. Award Criteria

29.1 Subject to **Clause 31**, the Employer will award the Contract to the Bidder whose Bid has been determined to be substantially responsive according to the bidding documents and who has offered the lowest evaluated Bid price.

30. Employer’s Right to Accept any bid and to Reject any or all bids

30.1 Notwithstanding **Clause 29**, 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 there by 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.

31. Notification of Award and Signing of Agreement.

- 31.1 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 e-mail or facsimile confirmed by registered letter. This letter (hereinafter and in the Part I *General Conditions of Contract* called the “Letter of Acceptance”) will state the sum that the Employer will pay to the Contractor in consideration of the execution, completion and maintenance of the Works, and of routine maintenance of roads by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the “Contract Price”).
- 31.2 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 32**.
- 31.3 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.
- 31.4 Upon furnishing of the Performance Security by the successful Bidder, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful.

32. Performance Security

- 32.1 Within 10 (ten) days of receipt of Letter of Acceptance, the selected Bidder shall furnish to the Employer an irrevocable and unconditional guarantee from a Bank in the form set forth in Section 4 (Form of Bank Guarantee for Performance Security) for an amount equal to **5% (Five percent)** of the Bid Price. In case of bids mentioned below, 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 towards an Additional Performance Security (the “**Additional Performance Security**”) for an amount calculated as under:

- (i) where the bid price is below 10% but not below 20% of the project cost put to bid, the additional performance guarantee/security percentage shall be incremented by 0.1% for every percentage of bid price below 10% of the project cost put to bid starting at 11% with the additional bid performance guarantee being 0.1% and this additional performance guarantee percentage shall be applied on the bid price;
- (ii) where the bid price is 20% or more below of the project cost put to bid, the additional performance guarantee percentage shall be incremented by 0.2% for every percentage of bid price below 20% of the project cost put to bid in addition to 1% of the bid price and this additional performance guarantee percentage shall be applied on the bid price;
- (iii) The additional performance guarantee percentage shall be rounded off to the next lower percentage based on whether the decimal point of the percentage of bid price is below 0.5% or next higher percentage based on whether the decimal point of the percentage of bid price is 0.5% or more.

(iv) This Additional Performance Security shall be treated as part of the Performance Security.

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

I) State Bank of India or its subsidiaries,

II) Any Indian Nationalized Bank

III) IDBI/ICICI Bank

IV) A Foreign Bank (issued by a branch outside India) with a counter guarantee from SBI or its subsidiaries or any Indian Nationalized Bank.

V) Any Scheduled Commercial Bank approved by RBI having a net worth of not less than Rs. 500 Crore 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 conditions that the capital adequacy of the Bank shall not be less than the latest norms prescribed by RBI.

C. The bank guarantee issued by a Cooperative Bank shall not be accepted.

32.2 The Performance Security shall be valid until 60 (sixty) days after the Defects Liability Period. The Additional Performance Security shall be valid until 28 (twenty eight) days after Project Completion Date.

32.3 For avoidance of any doubt, in case of failure of submission of Performance Security Within the stipulated time period, the award shall be deemed to be cancelled/ withdrawn. Thereupon all rights, privileges, claims and entitlements of the Contractor under or arising out of the Award shall be deemed to have been waived by, and to have ceased with the concurrence of the Contractor, and the Award shall be deemed to have been withdrawn by the Employer.

32.4 The agreement will be executed within 10 days of receipt of Performance Security and Additional performance Security, if any as per Clause above.

G. CORRUPT OR FRAUDULENT PRACTICES

33. Corrupt or Fraudulent Practices

33.1 The bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the bidding process. Notwithstanding anything to the contrary contained herein, the Employer may reject any bid without being liable in any manner whatsoever to the bidder if it determines that the bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the bidding process.

33.2 Without prejudice to the rights of the Employer under **Clause 34.1** hereinabove, if any bidder is found by the Employer to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the bidding process, such bidder shall not be eligible to participate in any tender issued by the Employer during a

period of 2(two) years from the date such bidder is found by the Employer to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case maybe.

333 For the purposes of this **Clause 34**, the following terms shall have the meaning hereinafter respectively assigned to them:

- a) “corrupt practice” means 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 Employer who is or has been associated in any manner, directly or indirectly, with the bidding process or has dealt with matters concerning the Contract or arising there from, before or after the execution thereof, 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 Employer, shall be deemed to constitute influencing the actions of a person connected with the bidding process); engaging in any manner whatsoever, whether during the bidding process or after the award or after the execution of the Contract, as the case may be, any person in respect of any matter relating to the Works, who at any time has been or is a legal, financial or technical adviser of the Employer in relation to any matter concerning the Works;
- 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;
- c) “coercive practice” means impairing or harming or threatening to impair or harm, directly or indirectly, any person or property to influence any person’s participation or action in the bidding process;
- d) “undesirable practice” means establishing contact with any person connected with or employed or engaged by the Employer with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the bidding process; and
- e) “Restrictive practice” means forming a cartel or arriving at any understanding or arrangement among bidders with the objective of restricting or manipulating a full and fair competition in the bidding process.

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

H. LABOUR LAWS AND FUNDAMENTAL BREACH

34. Labour Laws and Regulations

34.1 The Bidders shall be aware of the provisions of various Labour Laws, Regulations and Welfare Measures applicable for Construction Workers in India, and other obligations stated in the Conditions of Contract.

35. Fundamental breach and other obligations

35.1 The Bidders shall be aware of the provisions of Fundamental Breach and other obligations stated in the Conditions of Contract.

**[THE EMPLOYER SHOULD COMPLETE THIS APPENDIX
BEFORE ISSUING THE BID DOCUMENTS]**

ITB Clause Reference

1.1) The Employer is the Ministry of Road Transport & Highways, Government of India through Roads & Buildings Department, Government of Telangana represented by Chief Engineer (R&B), National Highways, Errummanzil, Hyderabad

1.1) Name and identification number of Work is “Short Term Maintenance of (i) Kalyan-Nirmal-Jagtial road (NH-61) from Km 707/055 to 753/890 (ii) Nizamabad -Jagadapur section of NH-63 from Km 0/0-2/700, Km 6/700-7/930, Km 10/090-10/670, Km 11/070-11/110, Km 14/500-15/100, Km 16/030-16/120, Km 16/750-16/760, Km 16/760-17/055, Km 17/055-17/110, Km 19/700-21/500 and Maharashtra state border of NH-63 road missing gap from Km 10/350-12/0 & descoped stretch from Km 14/200-14/450 in the state of Telangana”

[(4.3. B(b) (i).] The key equipment to be deployed on contract work.

Sr. No	Name of the Equipment	Quantity
1	Static Roller (8/10T)	1 No.s
2	Small roller/ Compactor	1 No.
3	Bitumen/Emulsion Sprayer	1 No
4	Mechanical Broom (1250 sqm per hr)	1 No.
5	Air Compressor	2 No.s
6	Grader/Backhoe Loader	1 No.
7	Water Tankers	2 No.s
8	Dewatering pumps	2 No.s
9	Tippers/ Dumper Truck	2 No.s
10	HMP (6/10 T/hr capacity)/ HMP 40-60 T/hr Capacity/ HMP 100-120 T/hr Capacity	1 No.

Note: The bidder must upload scanned copy of the documentary evidence in support of his owning/ leased/rented of the above equipment. Copy of RC shall be uploaded in proof of owing equipment/ certification by the concerned Executive Engineer (R&B) NH division In case the bidder proposes to hire or take the above equipment on lease, he should, along with the lease/rent agreement, attach the proof of ownership of this equipment with the company/entity from whom the equipment are proposed to be hired on lease/rent. . Any conditional evidence of deployment of above equipment or inadequate proof as

required for any of the equipment shall make the bid non-responsive and financial bid shall not be opened. Copy

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

S. No.	Personnel	Qualification	Particular Experience (minimum requirement)	No. of Persons
1	Project Manager	Graduate in Civil Engineering	5 years as Project Manager on Highway, Bridge construction/ Maintenance works	1
2	Site Engineer-cum-Surveyor Engineer cum Material Engineer	Graduate in Civil Engineering	4 years on Highway Construction/ Maintenance works	1
3	Incident cum Road Property Manager cum Route Operation Manager	Graduate from a recognized University	3 years on Highway Property Management and Maintenance	1
4	Road Safety Auditor	Road Safety Audit Certificate from appropriate approved Govt. agency	5 years experience	3 days in Every 3 months

Note: The signed CVs must be uploaded along with the bid. 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 shall make the bid non-responsive and financial bid shall not be opened.

[9.2.1] - Pre-bid meeting shall be held on 12.06.2026 at 15:00 Hrs

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, every employment held. List of all positions held by staff member since graduation, giving dates, names of employing organization, title of positions held and locations of assignments. For experience **period of specific assignment must be clearly mentioned**, also given 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: _____ Years
- (ii) Responsibilities held:
 - a) Years
 - b) Years
 - c) Years
- (iii) Relevant Experience: _____ Years

C) Permanent Employment with the Firm (Yes/No):

If yes, how many years:

If no, what is the employment Arrangement with 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 me, my qualification 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.

SECTION -3

QUALIFICATION INFORMATION

SECTION -3

QUALIFICATION INFORMATION

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

QUALIFICATION INFORMATION

1. For Individual bidders

1.1 a) Year of Constitution

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

[Upload scanned copy of original]

c) Place of registration: _____

d) Principal place of business: _____

1.2 Power of Attorney of signatory of Bid *[Upload scanned copy and also supply Original*

copy in envelope of physical form]]

1.3 Total value of Civil Engineering construction and/or maintenance works performed in the last three years (in Rs.Lakh).

Refer ITB **Clause 4.4 A (a)**

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

Year	Total value of work performed (Rs. Lakh)
------	--

2023-24	
---------	--

2024-25	
---------	--

2025-26	
---------	--

14 (a) Work performed as prime contractor provided further that all other qualification criteria are satisfied (in the same name) of a similar nature during the last five years as per ITB **Clause 4.3A(b)**.

Project Name	Name of the Employer*	Description of work	Value of Contract (Rs. in Lac)	Date of issue of work order	Stipulated period of completion	Actual date of completion*	Remarks explaining reasons for delay in work Completed

**Upload certificate(s) from the Employer (to be given by an officer not below the rank of Executive Engineer or equivalent or higher and also supply original or certified copy in physical form envelope)*

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 **Clause 4.4** of the ITB).

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

Description of work	Place & State	Contract No.	Name & Address of Employer	Value of Contract (Rs Cr)	Stipulated Period of Completion	Value of works* remaining to be completed (Rs Cr)	Escalation factor	Anticipated date of completion	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 & also supply original or certified copy of certificate in physical form envelope.

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

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

* Upload copy of LOA

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

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

N = years

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

available bid capacity = $A \times N \times 2.5 - B$

= Rs..... Lakhs

15 Availability of Key Equipment essential for carrying out the Works [Ref. **Clause**

4.3(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	Age/ Condition	

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. Any conditional evidence of deployment of above equipment or inadequate proof as required for any of the equipment shall make the bid non-responsive and financial bid shall not be opened.

- 1.6** Qualification and Experience of Key Personnel required for administration and execution of the Contract [Ref. **Clause 4.3(b)(b)(ii)]. Upload biographical data for technical personnel (Refer also to Clause. 4.1 (e) of Instructions to bidders).**

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

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

Note: The signed CVs of the Technical Personnel must be uploaded along with the bid. 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 shall make the bid non-responsive and financial bid shall not be opened.

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

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

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

- Affidavit (it should be on stamp paper attested by Notary Public)
- Undertaking regarding availability of minimum cash amounting to 25% of the value of work during implementation of the Contract towards working capital.
- Undertaking that the Bids shall remain valid for the period specified in Clause 15.1

AFFIDAVIT

1. I, the undersigned, do hereby certify that all the statements made in the enclosed attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s _____
_____ have abandoned any work 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 the Employer to verify this statement or regarding 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 Employer and within the prescribed time.

(Signed by an Authorized Representative of the Firm)

Name of the Representative

Name of Firm

Date

To be notarized by Notary

UNDERTAKING

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

(Signed by an Authorized Representative of the
Firm)

Name of the Representative

Name of Firm

Date

UNDERTAKING

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

(Signed by an Authorized Representative of the Firm)

Name of the Representative

Name of Firm

Date

SECTION-4

FORMS OF BANK GUARANTEES LETTER OF ACCEPTANCE (LOA) AND AGREEMENT

SECTION-4

FORMS OF BANK GUARANTEES LETTER OF ACCEPTANCE (LOA) AND AGREEMENT

FORM OF BANK GUARANTEE FOR BID SECURITY

To
Superintending Engineer (R&B),
NH Circle Nizamabad

WHEREAS____(Name of Tenderer) (hereinafter called the Tenderer) wishes to submit his tender for maintenance work of ____ (from km. ____ to km. _) in the state/s of ____ herein after called “the Tender” KNOW ALL MEN by these present that we____(Name of Bank) of ____ (Name of country) having our registered office at(____) (hereinafter called the ‘Bank’) are bound unto the ----- (hereinafter called “the Employer”) in the sum of 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____(Rs. In words____) 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 Instructions to Bidders.

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

This guarantee will remain in force up to and including the date 60 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.

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 OF AUTHORISED REPRESENTATIVE OF THEBANK _____

NAME AND DESIGNATION _____EMPLOYEE CODE NUMBER _____

SEAL OF THEBANK _____

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

NAME OF THEWITNESS _____

ADDRESS OF THEWITNESS _____

**FORM OF BANK GUARANTEE FOR PERFORMANCE SECURITY/Additional
performance Security**

To
Superintending Engineer (R&B),
NH Circle Nizamabad

WHEREAS..... (name and address of contractor)
hereinafter called “the Contractor” has undertaken, in pursuance of Letter of Acceptance
No..... Dated to execute..... (name of
Contract and brief description of Works) (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 the Contract;

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

NOW THEREOF we hereby affirm that we are the guarantor and responsible to you on behalf of
the Contractor, up to a total amount of Rs..... (amount of guarantee) (Rupees...
.....(in words) and we undertake to pay you, upon your
first written demand and without cavil or argument, any sum or sums within the limits
of.....(amount of guarantee) as aforesaid without your needing to prove or to show
grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before
presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract
or of the works to be performed there under or of any of the contract documents which may be
made between you and the Contractor shall in any way release us from any liability under this
guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until **60** days from the date of expiry of the Defects Liability Period.

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 and
Telephone Number.....

Name of the Issuing

Name of the Controlling

Bank/Branch-----

Branch/Bank-----

Address and Telephone Number
Number.....

Address and Telephone

Date.....

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

1.....

(Name, Address and Occupation)

2.....

(Name, Address and Occupation)

An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in Indian Rupees.

FORM OF LETTER OF APPLICATION

**To,
Superintending Engineer (R&B),
NH Circle Nizamabad**

[Address of Employer]

DESCRIPTION OF WORKS: BID FOR “Short Term Maintenance of (i) Kalyan- Nirmal-Jagtial road (NH-61) from Km 707/055 to 753/890 (ii) Nizamabad -Jagadapur section of NH-63 from Km 0/0-2/700, Km 6/700-7/930, Km 10/090-10/670, Km 11/070-11/110, Km 14/500-15/100, Km 16/030-16/120, Km 16/750-16/760, Km 16/760-17/055, Km 17/055-17/110, Km 19/700-21/500 and Maharashtra state border of NH-63 road missing gap from Km 10/350-12/0 & descoped stretch from Km 14/200-14/450 in the state of Telangana”

Dear Sir,

Having examined the Bid Document, Instructions 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 the Employer reserves the right to reject any or all applications without assigning any reason.

Thanking you,

Yours faithfully,

(Authorized Signatory)

For and on behalf of M/s

FORM OF LETTER OF ACCEPTANCE

No.....

Dated.....

To

M/s.....

Sub.: **Name of Work**

Sir,

Based on your bid submitted on in compliance of bidding document of [the Employer] for execution of the works 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 [the Employer]

You are hereby requested to furnish Performance Security plus additional security in the form detailed in **Clause 32.2** of ITB for an amount equivalent to **Rs..... (Rupees in words.....)** within 10 days as per provisions of **Clause 32.1** of ITB of the bid document and sign the contract agreement failing which the actions as stipulated in **Clause-32.3** of ITB shall be taken.

Thanking you,

Yours faithfully,

(.....)

Employer

FORM OF AGREEMENT

AGREEMENT

This agreement made the ___ day of _ between the **Superintending Engineer (R&B) NH Circle, Nizamabad** on behalf of “Employer” (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 “ÖFFER”) for the execution of works, the Employer by his letter of acceptance dated _____ accepted the offer submitted by the Contractor for the execution and completion of such works and remedying of any defects thereon, on terms and conditions in accordance with the documents listed in **Para 2** below.

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

AND WHEREAS the Contractor has agreed to undertake such works and has furnished a Performance Security pursuant to **Clause 32** of ITB (**Section-2**).

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this agreement, words and expressions shall have the same meaning as are respectively assigned to them in the conditions of contract hereinafter referred to;
2. The following documents shall be deemed to form and be read and construed as part of this agreement viz.
 - a) Agreement;
 - b) Letter of Acceptance;
 - c) Contractor’s Bid;
 - d) Contract Data;
 - e) General Conditions of Contract;
 - f) Addendum to General Conditions of Contract;
 - g) Road Maintenance Standards and Specifications for Road Maintenance Works;
 - h) Drawings, if any;
 - i) Bill of Quantities; and
 - j) 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

herein after mentioned, the Contract or 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 Contract or 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_____binding Signature of Contractor_____

For and on behalf of _____ 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 -5

GENERAL CONDITIONS OF CONTRACT (GCC) AND CONTRACT DATA

SECTION 5
GENERAL CONDITIONS OF CONTRACT (GCC)

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A. GENERAL

1. Definitions

1.1 Terms which are defined in the Contract Data but not defined in the Conditions of Contract 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 Contractor's Bid.

Certificate of Completion is the Certificate issued by the Engineer upon completion of works or parts thereof as applicable in accordance with **Clause 47**.

Compensation Events are those defined in **Clause 40**.

Contract is the Contract between the Employer and the Contractor to maintain the road assets and to execute, complete, and maintain the Works. It consists of the documents listed in **Clause 2.3**.

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

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

Contractor's bid is the completed Bidding Document submitted by the Contractor to the Employer.

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.

Defect is any part of the Maintenance Works and Activities not completed in accordance with the Contract Specifications.

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

Defects Liability Period means the period so stipulated in the Contract Data, calculated from the Completion Date, during which the Contractor remains responsible for the rectification of any defect in the Works he has undertaken.

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 functions to a person or body nominated by him for specified functions.

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 on behalf of the Employer.

Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to execute the Maintenance Works and Activities.

Intended Completion Date is the date, as given in contract data, on which it is intended that the

Contractor shall complete the Works as per scope under the contract. The intended Completion Date may be revised only by the Engineer by issuing an Extension of Time after approval from the Employer.

Letter of Acceptance means the formal acceptance of the Bid by the Employer.

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

Maximum Response Time means the maximum permissible time within which remedial action must be completed prior to a defect exceeding the permissible tolerance. Maximum Response Time commences from the time of earliest detection of the defect by (i) observation of the defect by the Contractor, or (ii) notification of the defect by the Engineer, or (iii) intimation of the defect by a road user.

Notice to Proceed means the notice issued by the Employer to the Contractor to proceed with the work after signing of the contract pursuant to **Clause 32.1** of ITB.

Permissible Tolerance means the maximum permissible amount or quantity of a defect in road-asset condition that will not be exceeded at any time. If any defect exceeds the permissible tolerance, it shall be treated as “non-compliance” and the Contractor shall be paid in accordance with the relevant provisions in this contract.

Project Manager is a person appointed by the Contractor who is in charge of managing all activities of the Contractor under the Contract. He is also the Contractor’s Representative for the purpose of this Contract.

Road means the Road or package of roads in network or scattered for which the Maintenance Works and Activities are to be carried out under the Contract.

“Road Assets” include the following:

- i) Main carriageway with shoulders (paved and/or earthen), medians, slip roads, service roads;
- ii) Road embankment including slopes, protection works, kerbs and chute drains;
- iii) Roadway in cutting including slopes protection works, drains;
- iv) Culverts, Bridges, Over/Underpasses, retaining walls, Guide bunds, Floor protection works;
- v) Road signs, road markings, road delineators, guardrails, safety barriers, railings, fencings, parapets, kilometer stones, 200 m stones, road boundary stones;
- vi) All types of drains, trees, plantations and erosion control measures;
- vii) Road land;
- viii) Any other project facility or asset forming integral part of the road(s).

Road Maintenance Standards is the collective term for parameters which define the condition in which the road assets are required to be maintained and other requirements regarding safety and quality of works to be complied with by the Contractor.

Road Maintenance Works and Activities to be carried out by Contractor shall include:

Maintenance of the road specified in the BOQ and executing other items of road maintenance works as ordered by the Engineer.

Rectification Standard

The Contractor shall maintain the specific parts of the road aspects as specified in BOQ or as ordered by the Engineer in Charge and ensure road users safety and comfort. The maintenance activities shall be so planned that the defects are repaired well before they reach maximum condition as per the permissible tolerance

Site is the area defined as such in the Contract Data, where maintenance works are to be executed.

Specifications means the Specifications of the Maintenance Works including the Road Maintenance Standards as per the Contract.

Start Date is given in the Contract Data. It is the date when the Contractor shall commence execution of the Works.

Service Level means the defined condition in which the road assets are to be maintained by the Contractor.

Sub-Contractor is a person or corporate body who has a Contract with the Contractor to carry out a work under the Contract, which includes part of the agreed scope of works at the Site.

Temporary Works are works designed, constructed, installed and removed by the Contractor that are needed for Works and Activities.

Time for Completion means the duration for completing the execution of maintenance works and passing the tests on completion of the Works or any Section or part thereof as stated in the Contract Data or as extended by the Engineer by issuing an Extension of Time after the approval from the Employer.

Variation is an instruction given by the Engineer in writing which varies the scope of Maintenance Works.

Work Order is an order issued by the Engineer to the Contractor for execution of certain works, specifying the time limits which may be in variance with the approved programme or in variation to the scope of work depending upon the site requirement.

2. Interpretation

21 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.

22 If part 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 part of the Works (other than references to the Completion Date and Intended Completion Date for the whole of Works).

23 The following documents shall be deemed to form and be read and construed as part of the Contract. In case any ambiguity or discrepancy is noted, then the Contract shall be interpreted in the following order of priority:

- i) Agreement;
- ii) Notice to Proceed with the Work;

- iii) Letter of Acceptance;
- iv) Contractor's Bid;
- v) Contract Data;
- vi) General Conditions of Contract;
- vii) Road Maintenance Standards and Specifications for Road Maintenance Works, Part I and Part II;
- viii) Priced Bill of Quantities; and
- ix) Any other documents listed in the Contract Data.

3. Language and Law

3.1 The language of the Contract shall be in English and the law governing the Contract as given in Contract Data.

4. Engineer's Decisions

4.1 The Employer shall designate and notify to the Contractor in writing the name of the Engineer.

4.2 Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer. The Engineer shall have no authority to relieve the Contractor of any of his obligations under the Contract.

5. Delegation

5.1 The Engineer, duly informing the Employer, may delegate any of his duties and responsibilities to other people, after notifying the Contractor and may cancel any delegation under intimation to 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 as per Indian Law.

7. Subcontracting- DELETED

7.1 The Contractor may subcontract any portion of work, upto a limit specified in Contract Data, with the approval of the Engineer but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall neither alter the Contractor's obligations, nor relieve the Contractor from any liability or obligation under the Contract.

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 for labour, or labour component;
- c) the purchase of Materials which are in accordance with the standards specified in the Contract.

7.3 Beyond what has been stated in **Clauses 7.1 and 7.2**, if the Contractor proposes sub-

contracting of any part of work during execution of the Works, because of some unforeseen circumstances to enable him to complete the Works as per terms of the Contract, the Employer will consider the following before according approval:

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

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

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

8. Other Contractors

81 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 Contract or sand shall notify the Contractor of any such modification. The Contractors hall cooperate in such situations as well.

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

9. Personnel and Equipment

91 The Contractor shall employ the technical personnel named in the Contract Data or other technical persons approved by the Engineer. The Engineer will approve any proposed replacement of technical personnel only if their relevant qualifications and abilities 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 within 15 days of issue of notice to proceed with the work, a penalty of 5000/- per day per person shall be levied for next 30 days, beyond which it shall be treated as a breach of Contract and action will be taken as per **Clause 51**.

92 The Contractor shall use the equipment identified in the bid along with competent operators and adequate stock of spares for smooth operations.

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

94 The Contractor shall establish, within his own organizational structure, a planning unit, staffed with suitably qualified personnel. The team will be headed by a Project Manager who will be assisted by his representatives, i.e. Site Manager and Manager, Planning. The task

of this unit will be:

94.1 To plan, and to verify continuously the degree of compliance by the Contractor with the specified Road Maintenance Standards and report the same to the Engineer in the format acceptable to the Engineer.

94.2 To maintain and update the road condition inventory regularly.

94.3 To assist the Engineer in verification of the compliance.

95 The Contractor's planning unit mentioned under **Sub-clause 9.4** shall report the level of compliance with the required Service Levels in the standard formats acceptable to the Engineer.

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 expected risks which are (a) in so far as they directly affect the execution of the Maintenance Works and Activities included in the Contract, the risks of war, hostilities, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot, commotion or disorder (unless restricted to the Contractor's employees), natural calamities and contamination from any nuclear fuel or nuclear waste or radioactive toxic, explosive.

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 expected risks, referred to in **Clause 11.1**, are the risks of the Contractor.

13. Insurance

13.1 The Contractor at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the completion of defect liability period, in that 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 and Materials
- b) Loss of or damage to Equipment
- c) Loss of or damage to property (except the Works Materials and Equipment) in connection with the Contract
- d) Third Party Liability Insurance
- e) Automobile Liability Insurance
- f) Workers' Compensation
- g) Employer's Liability
- h) Other Insurances

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.

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

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

135 Both parties shall comply with any conditions of the insurance policies. The Contractor shall ensure that wherever applicable, its Sub-Contractor(s) shall take out and maintain in effect adequate insurance policies for their personnel and vehicles and for works executed by them under the Contract unless such Sub-Contractor(s) is/ are covered by the policies taken out by the Contractor.

14. Site Investigation Reports

14.1 The Contractor, in preparing the Bid, may rely on his own risks and liability on any Site Investigation Reports referred to in the Contract Data, supplemented by any other information available to him.

15. Queries about the Contract Data

15.1 The authorized representative of the Employer as stated in the Contract data will Clarify queries on the Contract Data.

16. Contractor to Construct the Works

16.1 The Contractor's obligations cover the carrying out of all Maintenance Works and Activities as defined in the Contract for keeping the roads in accordance with the Road Maintenance Standards.

The Contractor shall construct, install and maintain the Works in accordance with the Specifications and Drawings.

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

17.1 The Contractor may commence execution of the Maintenance Works and Activities 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 prepare/propose the Maintenance Manuals as per relevant applicable Standards and Specifications and existing policies/guidelines/practices and get the same approved from the Engineer/Employer.

18.2 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.

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

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

185 The Contractor shall obtain approval of third parties to the design of Temporary Works by Engineer.

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

19. Site Regulations and Safety

19.1 The Contractor shall be responsible for the safety of all activities on the Site, including arrangements for smooth flow of traffic at his own cost as per guidelines of the IRC/Ministry of Road Transport & Highways. He shall provide proper barricading, diversion boards, etc. He shall be fully responsible for the safety of workers and staff at site and provide safety helmets, reflective jackets and other PPE to the workers, inspecting officers and supervisors.

20. Discoveries

20.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Employer. The Contractor 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 possession of all parts of the Site to the Contractor on or before the start date of the Contract.

22. Access to the Site

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

- a) The Engineer
- b) The Employer

23. Instructions

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

23.2 The Contractor shall permit the Engineer/Employer to inspect the Contractor's contemporary records in respect of invoice of bitumen, cement, aggregates and steel, if so desired by the Engineer.

24. Procedure for Dispute Resolution

24.1 Arbitration

The procedure for arbitration will be as follows:

- i) In case of Dispute or difference arising between the Employer and the Contractor

relating to any matter arising out of or connected with this contract, such disputes or differences shall be settled in accordance with the Arbitration and Conciliation Act, 1996 as amended vide Act of 2015. The Arbitral Tribunal shall consist of sole Arbitrator from the panel of three Arbitrators proposed by the Employer and choice of selecting one given to the Contractor. Contractor shall select one out of the three names of Arbitrators given to him within 30 days failing which the Employer shall nominate the Arbitrator out of the panel of three Arbitrators. In case the Contractor objects to the Arbitrator selected by the Employer, the Employer shall refer selection of Arbitrator to the Indian Roads Congress for nominating the Arbitrator for the dispute and both parties agree that the Arbitrator so selected by IRC shall decide the dispute. Indian Roads Congress shall try to appoint Arbitrator preferably from the state where the project is located or otherwise from adjoining States.

- ii) Arbitration proceedings shall be held at [Name of Place], India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.
- iii) The decision of the Arbitrator shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the Arbitral Tribunal. However, the expenses incurred by each party in connection with the preparation, presentation, etc. of its proceedings shall be borne by each party itself. The fees and expenses of the Arbitrator shall be shared equally by both the parties.
- iv) Performance under the contract shall continue during the Arbitration proceedings and payments due to the Contractor by the Employer shall not be withheld, unless they are the subject matter of arbitration proceedings.

B. TIME CONTROL

25. Programme

25.1 The Contractor shall submit to the Engineer for approval a programme within period specified in the contract data showing the general methods, arrangements, order, and timing for all the maintenance works and activities.

25.2 The Engineer may issue the work order in stages specifying the time limit for the same as and when required except the performance-based maintenance items.

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

25.4 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 then ex payment certificate and continue to withhold this amount until then ex payment after the date on which the overdue Programme has been submitted.

25.5 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.

26. Extension of the Intended Completion Date

26.1 The Engineer shall extend the Intended Completion Date only after approval of the Employer 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.

26.2 The Engineer, within 14 days of receiving full justification from the Contractor for extension of Intended Completion Date, will refer to the Employer his recommendation. The Employer shall, in not more than 21 days from the date of receipt of Engineer's recommendation, communicate to the Engineer the acceptance or otherwise. The Engineer shall convey the decision of the Employer to the Contractor.

27. Delays Ordered by the Engineer

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

28. Management Meetings

28.1 The Engineer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the plans and progress for the Maintenance Works.

28.2 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 during the management meeting or after the management meeting and to be intimated in writing to all those who attended the meeting.

C. QUALITYCONTROL

29. Identifying Defects

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

30. Tests

30.1 The Contractor shall set up a field laboratory within period stated in contract data and be solely responsible for:

- a) Carrying out the mandatory tests prescribed in Technical Specifications and
- b) For the correctness of test/procedures, whether preformed in his laboratory or elsewhere.

302 If the Engineer instructs the Contractor to carry out a test not specified in the Specifications to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the testing charges and for any number of samples. Otherwise, the Employer shall pay for the testing charges.

31. Correction of Defects noticed during the Defects Liability Period

31.1 The works carried out shall be of very high standard, requiring no major repairs on the road for at least, during defects liability period, after the date of completion of works.

31.2 If any defects including shrinkage, cracks, other faults appear in the works within the period specified hereunder after issue of “Taking over” certificate, the Engineers shall give notice to the Contractor of any defects before the end of the Defects Liability Period. The Defects Liability Period shall be extended for as long as the defects remain to be corrected.

31.3 Every time notice of a defect is given, the Contractor shall correct the notified defect at his own cost within the length of time specified in the Engineer’s notice.

31.4 The Defects Liability Period shall be as given in the Contract Data, counted from the Date of Completion stated in the Certificate of Completion issued in pursuance of **Clause 47**. The defect liability period is not applicable for works of routine maintenance such as pot holes/ patch repairs/ruts repairs under performance based BOQ item.

31.5 If during the Defects Liability Period any defect is found in the design, engineering, materials and workmanship of the Works and Services executed by the Contractor, then the Contractor shall promptly, in consultation and agreement with the Engineer, appropriately remedy such defects at its cost, or repair, replace or otherwise make good (as the Contractor shall, at its discretion, determine) such defects as well as any damage to the Road caused by such defects.

31.6 The Contractor’s obligations under this Clause 31 shall not apply to:

- a) Any material that is supplied by the Employer, and normally consumed in maintenance, or have a normal life shorter than the Defects Liability Period stated herein;
- b) Any design, Specification or other data, supplied or specified by or on behalf of the Employer or any matter for which the Contractor has disclaimed responsibility herein;

31.7 The Employer shall offer the Contractor all reasonable opportunity to inspect the defect(s) Noticed, as well as provide all necessary access to the Facilities and the Site to enable him to perform his obligations under this **Clause 31**.

The Contractor may remove from the Site any Plant and Equipment or any part of the Facilities that are defective, if the nature of the defect, and/or any damage to the Facilities caused by the defect, is such that repairs cannot be expeditiously carried out at the Site.

32. Uncorrected Defects

32.1. If the Contractor does not rectify **the unattended defect or defect pointed out by the Engineer in the maintenance carried out, within the time specified, Engineer may correct the same at the cost of the contractor by en-cashing part of / full performance security or by using part of / full retention money and recover the same together with additional costs of 20% thereon as damages. The Contractor**

should forthwith replenish the same within 15 days failing which the Contract can be terminated for default of the Contractor.

- 32.2. Any non-compliance indicated should be complied within two days failing which penalty as specified under road maintenance Standards Part-I shall be imposed.

D. COST CONTROL

33. Bill of Quantities

- 33.1 The Bill of Quantities shall contain the description of items, units, rates and amount.

33.2 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 given in the Bill of Quantities with accepted/awarded tender premium for each item for the work executed.

The accepted/awarded tender premium above/below the grand total of Project cost as per BOQ shall be applicable for individual item of work to determine payable amount to Contractor subject to contractual provisions.

34. Changes in the Quantities

Quantities indicated in BOQ can be increased or reduced to any extent as per requirements/ budgetary constraints/any other reasons as per the decision of the Authority and no claims shall be entertained on this account.

35. Variations

35.1 The Engineer may order Variations, with the prior approval of the Employer, he considers necessary or advisable during the progress of the Works. Such Variations shall form part of the Contract and the Contractor shall execute the varied works. Oral orders of the Engineer for Variations, unless followed by written confirmation, shall not be taken into account.

36. Payments for Variations

36.1 If rates for Variation items are specified in the Bill of Quantities, the Contractor shall carry out such work at the same rate.

36.2 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.

36.3 If the rate for Variation item cannot be determined in the manner specified in **Clause 36.1 or 36.2**, the Contractor shall, within 14 days of the issue of order of Variation work, inform the Engineer the rate which he proposes to claim, supported by analysis of the rates. The Engineer shall assess the quotation and determine the rate based on prevailing market rates within one month of the submission of the claim by the Contractor and approval from the Employer shall be taken. As far as possible, the rate analysis shall be based on the Standard Data Book and the current Schedule of Rates of the district public works division. The decision of the Employer on the rate so determined shall be final and binding on the Contractor.

37. Cash Flow Forecasts

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

38. Payment Certificates

38.1 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.

38.2 The Engineer shall check the Contractor's monthly statement within 14 days and certify the amount to be paid to the Contractor after taking into account any credit or debit for the month in question.

38.3 The value of work executed shall be determined, based on measurements by the Engineer.

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

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

38.6 The Engineer/Employer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of latest information.

38.7 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.

39. Payments

(a) Quantity Based 1 and 2:-

The quantities given in the bill of quantities or estimated quantities. The basis of payment will be actual quantities of items of work carries out and valued at the rates tendered in the BOQ along with accepted/awarded tender premium. The accepted/awarded tender premium above /below the grand total of the project cost shall be applicable for the individual items of work to determine payable amount to Contractor for work done subject to other contractual provisions. Any variation shall be dealt with as per contract provisions.

(b) Performance Based:-

Payment for performance based activities shall be indexed on performance scale of 100 marks as given in Table below:

Sl No	Brief Description	Weightage for performance rating	Remarks
1	Pavement repairs(100%)	Pot/patch repair - 40%	Length in which road is maintained without pot/patch rectifying the pot\patch within stipulated time during the month under consideration/ Total length

Sl No	Brief Description	Weightage for performance rating	Remarks
		Repair of existing road Signs-10%	Signs maintained without defects repairing/maintaining them during the month under consideration/Total signs
		Repairing shoulders and removing threshold between carriageway and earthen shoulders/embankment slopes, ensuring camber to shoulder-15%	Length in which road Shoulders/slopes maintained rectifying the shoulders/slopes within stipulated time during the month under consideration/Total length
		Removal of rank vegetation/plants/trees branches protruding on to carriageway of obstructing sight distance-15%	Length in which road maintain removing the rank vegetation within stipulated time during the month under consideration/Total length
		Clearing C-D Structures/drains – 20%	Number of CD structures maintained in clean condition in vent ways/Total CD structures.
2	Incident Management - Deleted	Vehicle fitness and availability of required equipment in the maintenance cum petrol vehicle	All the vehicles provided in the contract shall be fitted with VTS. Each time deficiency in vehicle fitness/equipment is communicated. Shall be considered as 20% deficiency subject to maximum of 100% in a month. Non-submission of GPS based log record of vehicle movement and video recording for each occasion shall be taken as 25% deficiency subject to maximum of 100% in a month. Availability of trained manpower shall also be assessed similar to Vehicle fitness /equipment. Response time for crane beyond that specified (4hours) shall also be assessed similar to submission of log record /Video recording
		-25%	
		GPS based log record of vehicle movement-25%	
		Availability of trained personal manning the vehicle and clearing of ROW of trash/rubbish/garbage-25%	
		Average response time of cranes as compare to stipulated standards-25%	

Note:-

- i) Performance assessment for performance based items of work, shall be done through inspection by the Engineer-in-Charge at least two times during the month and overall rating can be done on the basis of average of assessments made during the inspection along with study of videographer status of the stretch submitted by the route petrol in-charge.
 - ii) The Contractor shall submit video recording to the Engineer-in-Charge of condition of the Project Highway with special emphasis on performance based items.
 - iii) For performance based items of work, the Contractor shall be entitled for receiving payment proportionate to the average percentage of performance assessed for achievement between 80% to 100%.
 - iv) The Contractor shall not be entitled for payment for performance based maintenance if the average performance is rated less than 80%
 - v) A percentage quoted by bidder shall be entered as a single percentage as Tender Premium % above/ tender discount % below on the estimated rates/amounts specified in the BOQ
 - vi) When the unattended defects are corrected within a week of their communication to the contractor at the cost of the contractor and the amount along with specified damages of 20% are recovered from the contractor those defects would be considered as rectified while assessing the performance achievement
 - vii) Road signs proposed to be installed under Quantity based maintenance in the stretch shall also come under performance based maintenance obligation after they are installed
 - viii) Repeated failure in rectifying the defects / deficiencies even after intimating them to the contractor may lead to termination of contract for contractor default apart from reduction in relevant payments.
- (d) Performance based maintenance can be reduced either in terms of length or in terms of months or both for taking up any development works or other exigencies as decided by the authority and in such cases the payments would be regulated on pro- rata basis in terms of length / period in months or both.

NOTE:

**** The Performance based payments percentages are assessed for the 12 months of work period. In case of any fore closure of the work in view of declaration of Appointed Date for the Improvement works on the subject reach, the payments shall be reduced proportionately w.r.t the decrease in the Work period.**

39.1 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 the Engineer had certified, within 28 days of the date of each certificate.

39.2 The authorized representative of the Employer shall make the payment certified by the Engineer.

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

40. Compensation Events

40.1 The following shall be Compensation Events unless they are caused by the Contractor:

- a) The Engineer orders a delay or delays exceeding a total of 30days;
- b) The effects on the Contractor of any of the Employer's Risks.

40.2 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 approval of the Employer.

403 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.

404 The Contractor will not be entitled to compensation in case the fore closure of contract in view of declaration of appointed date for the improvement works on the subject reach.

41. Taxes and Currencies for Payments

41.1 The rates quoted by the Contractor shall be deemed to be inclusive of the GST and other levies, duties, royalties, cess, toll, and other taxes of Central and State Governments, local bodies and authorities that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

41.2 **Basic Equipment to be made available in Maintenance/Patrol Vehicle :-** Contractor shall deploy one or more Maintenance vehicles for timely and effective performance based maintenance. The basic equipment to be made available in maintenance vehicle deployed on the performance based maintenance under DPP shall include but not be limited to the following:

Heavy duty plate Compactor, small sized bitumen distributor cum sprayer with diesel based heating arrangement, emulsion container with emulsion, tools for cutting rank vegetation branches etc., like axes, manual/mechanical saw etc.. Container with different sizes of aggregate, tools required to cut the pothole/patches to regular shape. Thermo-plastic paint and small paint marking machine, rubber traffic cones, signs, barricade material, flags, reflectors, battery operated lantern etc. Separate larger equipment to be deployed separately for carrying out large size patch work/re-surfacing in identified areas etc., as per the maintenance requirements are to be deployed apart from the small equipment specified above for maintenance work. Skilled manpower to operate the above maintenance tools and labor to assist the skilled manpower should always be available with the maintenance vehicle.

41.3 All payments shall be made in Indian Rupees.

42. Security Deposit/Retention Money

42.1 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.

42.2 The security deposit/retention money and the performance security will be released to the Contractor when the Defects Liability Period if any 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.

42.3 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 terms (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).

43. Liquidated Damages

43.1 The Contractor shall pay liquidated damages to the Employer at the rate stated in the Contract Data for each day or part thereof that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's other liabilities.

Both the parties expressly agree that the liquidated damages payable by the Contractor are mutually agreed genuine pre-estimated loss and without requirement of any proof of actual damages likely to be suffered and incurred by the Employer and the Employer is entitled to receive the same and are not by way of penalty.

43.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any overpayment of liquidated damages by the Contractor by adjusting in the next payment certificate. The contractor shall not be paid interest on the over payment of liquidated damages.

44. Advance Payment-

44.1 The Employer will make an interest bearing advance payment up to 10% of Contract Price to the Contractor against provision by the Contractor of an Unconditional Bank Guarantee in a form and by a bank acceptable to the Employer in amounts equal to 110% of the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. The Contractor shall take the above advance before 2nd running bill and if the contractor delays seeking the advance, the same is not payable.

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

44.3 The advance payment shall be repaid with interest @ SBIPLR applicable on the date of release of mobilization advance, by deducting from payments otherwise due to the Contractor. The mobilization advance will be recovered from 3rd running bill upto 8th running bill in six equal installments and the interest will be recovered from 9th running bill. In any case, the mobilization advance with interest must be recovered within ten months from the date of agreement. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, Compensation Events, or Liquidated Damages.

45. Performance Security

45.1 Subject to further condition in Contract Data, the Performance Security equal to 3 percent of the Contract Price 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 Defects Liability Period or completion of the contract in case no defect liability period is specified. The validity shall account for additional 3 months' time to account for BG verification, signing of contract and start date

46. Cost of Repairs

46.1 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 his cost if the loss or damage arises from the Contractor's acts or omissions.

E. FINISHING THE CONTRACT

47. Completion

47.1 The Contractor shall request the Engineer to issue a certificate of Completion of the Works, and the Engineer will do so upon deciding that the Works are completed.

48. Taking Over

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

49. Final Account

49.1 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 28 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer shall issue within 28 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 28 days of receiving the Contractor's revised account.

50. Operation and Maintenance Manual

50.1 If "as built" Drawings and/or operation and maintenance manuals are required relating to construction work carried out, the Contractor shall supply them within 28 days from the date of issue of certificate of completion.

50.2 If the Contractor does not supply the Drawings and/or manuals by the stipulated date or they do not receive the Engineer approval, the Engineer shall withhold the amount equal to Rs. 5 lakh from payments due to the Contractor.

51. Termination

51.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

51.2 Fundamental breaches of Contract include, but shall not be limited to, the following:

A) Fundamental Breaches by the Contractor

- a) the Contractor stops work or grossly neglects Routine Maintenance Works and Services for 28 days when no stoppage of work is shown on the current programme and the stoppage has not been authorized by the Engineer;
- b) the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction 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 remedy the defect and correct it within the period of time determined by the Engineer;
- d) the Contractor does not maintain a Security Deposit as per clause;
- e) the Contractor has delayed the completion of Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in **Clause 43**;
- f) the aggregate liability of the Contractor to the Employer, exceeds the total amount specified in the Contract Data, provided that this limitation shall not apply to the cost of repairing or replacing defective works and equipment;
- g) the Contractor fails to provide insurance cover as required under **Clause 13**;
- h) if the Contractor, in the judgment of the Employer, has engaged in the corrupt or fraudulent practices as defined in **Clause 34** of the Instructions to Bidders in competing for or in executing the Contract;
- i) if the Contractor fails to set up a field laboratory with the prescribed equipment, within the period specified in the Contract Data;
- j) if the Contractor does not deploy any of the personnel stated in Contract Data within 45 days of issue of notice to proceed or does not replace the personnel with a personnel with equivalent qualifications/experience ;
- k) The Contractor violates the provisions of Child Labour (Prohibition & Regulation) Act, 1986;
- l) Any other fundamental breaches as specified in the contract data.

51.3 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 presentation and may after the expiry of such 15 days, whether or not it is in receipt of such representation issue the Termination Notice.

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

51.5 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.

52. Payment upon Termination

52.1 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 work done and Materials ordered less advance payments received up to the date of issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the Contract Data. 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.

52.2 If the Contract is terminated at the Employer's convenience, the Engineer shall issue

a certificate for the value of work done, and a pre-determined amount specified in the contract data to cover the reasonable cost of removal of Equipment and repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract, and less taxes due to be deducted at source as per applicable law.

53. Property

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

54. Release from Performance

54.1 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

55. Labour

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

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

55.3 The Contractor's personnel including equipment operators shall be appropriately qualified, skilled and experienced in their respective trades or occupations. The Engineer may require the Contractor to remove or cause to be removed any person employed on the site or the works, including the Contractor's representative, if applicable, who

- a) Persists in any misconduct or lack of care;
- b) Carries out duties incompetently or negligently;
- c) Falls to conform with any provision of the contract;
- d) Persists in any conduct which is prejudicial to safety, health or protection of the environment.

If appropriate, the contractor shall then appoint or cause to be appointed a suitable replacement person

56. Compliance with Labor Regulations

56.1 During continuance of the Contract, the Contractor and his sub-Contractors shall abide at all times by all existing labor 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, byelaws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. (Salient features of some of the major labour laws that are applicable to construction industry are given in Addendum to General Conditions of Contract.) The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

In no case shall the employees of the Contractor and the Sub-Contractor be treated as the employees of the Employer at any point of time.

57. Drawings and Photographs of the Works

57.1 The Contractor shall do photography/video photography of the site firstly before the start of work, secondly mid-way in the execution of different stages of work and lastly after the completion of each item of work. No separate payment will be made to the contractor for this.

57.2 The Contractor shall not disclose details of Drawings furnished to him and works on which he is engaged without the prior approval of the Engineer in writing. No photograph of the works or any part thereof or plant employed thereon, except those permitted under **Clause 57.1**, shall be taken or permitted by the Contractor to be taken by any of his employees or any employees of his sub-Contractors without the prior approval of the Engineer in writing. No photographs/video photography shall be published or otherwise circulated without the approval of the Engineer in writing.

58. The Apprentices Act, 1961

58.1 The Contractor shall duly comply with the provisions of the Apprentices Act, 1961 (Ill 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.

CONTRACT DATA

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

1.1

1. The Employers

Chief Engineer (R&B) National Highways [Cl.1.1 of ITB]
Address: 4th Floor, O/o Chief Engineer (R&B),
Errummanzil, Hyderabad.

Name of authorized Representative:

Superintending Engineer (R&B) NH Circle, Nizamabad
Address: : Office of the Superintending Engineer (R&B) NH Circle,
Nizamabad Railway Station road, Opposite to old collector office,
Nizamabad, TG-503001

2. The Engineer is: [Clause 1.1 of GCC]
Designation: Executive Engineer (R&B) NH Division, Perkit & Karimnagar.

[Cl. 1.1]

3. The Intended Completion Date for the whole of the Works is [... months from
Start Date] [Cl. 1.1, 17&26 of GCC]

4. The Site is located at [Short Term Maintenance of (i) Kalyan- Nirmal-Jagtial road
(NH-61) from Km 707/055 to 753/890 (ii) Nizamabad -Jagadapur section of NH-63
from Km 0/0-2/700, Km 6/700-7/930, Km 10/090-10/670, Km 11/070-11/110, Km
14/500-15/100, Km 16/030-16/120, Km 16/750-16/760, Km 16/760-17/055, Km
17/055-17/110, Km 19/700-21/500 and Maharashtra state border of NH-63 road
missing gap from Km 10/350-12/0 & descoped stretch from Km 14/200-14/450 in the
state of Telangana] [Sr no 1 of NIT]

5. The Start Date shall be within 15 days after the date
of issue of the Notice to proceed [Cl. 1.1 of GCC]

6. (a) The name and identification number of the Contract is_____

The Works consist of_____ [Cl. 1.1 of ITB]

7. (a)The law which applies to the Contract is the law of Union of India.[Cl. 3.1of GCC]

(b)The language of the Contract documents is English [Cl. 3.1 of GCC]

8. DELETED [Cl. 7.1 of GCC]

9. Schedule of other Contractor-NIL [Cl. 8.1 of GCC]

10. The Technical Personnel are [Cl. 9.1 of GCC]

S. No.	Personnel	Qualification	Particular Experience (minimum requirement)	No. of Persons
1.	Project Manager	Graduate in Civil Engineering	5 years as Project Manager on Highway, Bridge construction/ Maintenance works	1
2.	Site Engineer-cum-Surveyor Engineer- cum-Material Engineer	Graduate in Civil Engineering	4 years on Highway Construction/ Maintenance works	1
3.	Incident cum Road Property Manager -cum-Route Operation Manager	Graduate from a recognized University	3 years on Highway Property Management and Maintenance	1
4	Road Safety Auditor	Road Safety Audit Certificate from appropriate approved Govt. agency Graduate in Civil Engineering Graduate in Civil Engineering	5 years experience	3 days in every 3 months

Roles and Responsibilities of Road Safety Auditor

Road Safety Auditor has to inspect the stretches entrusted for maintenance and identify any unsafe conditions giving their location details with chainages etc., and suggest temporary measures for immediate rectification

He has to indicate whether the suggested immediate rectifications are covered in the BOQ item or are to be approved as variation. If so, the variation requirements are to be furnished to the Engineer in charge.

The Road Safety Auditor has to indicate the maintenance work in progress during his inspection in his inspection report and indicate whether appropriate traffic management measures including barricading, signs, markings, lanterns, reflectors etc., are in place as per the relevant IRC codes and good industry practice or not . The locations and type of maintenance work in progress and the traffic management measures adopted are to be furnished to the Engineer in charge with video graph and / or photographs in support thereof.

11. Amount for insurance are:

[Cl.13.1 of GCC]

- 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.

The said insurance shall include all liabilities as per **Clause 13.1** and shall be deductible as per premium rate.

12. Site Investigation Report-NIL **[CI 14.1 of GCC]**
13. The period for submission of the programme for approval of Engineer shall be 30 days from the issue of Letter of Commencement. **[{CI.25.1 of GCC]**
14. Amount to be withheld for delays in submission of updated programme: 1% of value of work corresponding to the updated programme. **[Cl. 25.4 of GCC].**
15. The period for setting up a field laboratory with the prescribed equipment relevant to items of work in BOQ is 30 days from the date of notice to start work **[Cl. 30.1 of GCC].**
16. The Defect Liability Period will be 6 months for other improvement works including performance based maintenance **[Cl. 31 of GCC]**

17.

a. Amount of liquidated damages for delay in completion of works	0.1 percent of the remaining value of contract to be executed, rounded off to the nearest thousand, per day with the minimum of Rs. 10000/- per day
b. Maximum limit of liquidated damages for delay in completion of work.	10 per cent of the Initial Contract Price rounded off to the nearest thousand [Clause.43 of GCC]

18. 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. 45.1 of GCC]**
19. The percentage to apply to the value of work not completed representing the Employer's additional cost for completing the work shall be 20 percent. The Performance Security shall also be forfeited if the Contract is terminated because of a fundamental breach of Contract by the Contractor. **[Cl.52.1 of GCC]**
20. The reasonable cost of removal of equipment and repatriation of the Contractor's personnel employed solely on the works in the event of termination of the contract at the Employer's convenience or because of a fundamental breach of contract by the Employer is to be treated as 10% of the balance work to be executed. Value of work done assessed as per the Conditions of contract till the date of such termination. **[Cl. 52.2 of GCC]**

SECTION 6

ADDENDUM TO GENERAL CONDITIONS OF CONTRACT

SECTION 6

ADDENDUM TO GENERAL CONDITIONS OF CONTRACT

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

- a) **Workmen Compensation Act, 1923:** The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- b) **Payment of Gratuity Act; 1972:** Gratuity is payable to an employee under the Act on satisfaction of certain conditions if an employee has completed the prescribed minimum years (five years) of service or more or on death the rate of prescribed minimum days' (15 days) wages for every completed year of service. The Act is applicable to all establishments employing the prescribed minimum number (10) or more employees.
- c) **Employee's P.F. and Miscellaneous Provision Act 1952:** The Act provides for monthly contributions by the Employer plus workers at the prescribed rate (10percent or 8.33 percent). The benefits payable under the Act are:
 - i) Pension or family pension on retirement or death as the case maybe.
 - 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, 1961:** 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 minimum prescribed (20 or more) numbers of 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 scheduled employment.
- g) **Payment of Wages Act, 1936:** It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of 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 minimum prescribed (say, 20 or more) number of workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of wages to employees drawing upto 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 as trike 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 minimum prescribed number of persons (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 work men and employees. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- m) **Child Labour (Prohibition & Regulation) Act, 1986:** The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labour is prohibited in building and construction industry.
- n) **Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act, 1979:** The Act is applicable to an establishment which employs minimum prescribed number of labour (say, five or more) inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in an 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 employ the minimum prescribed (say, 10 or more) number of workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2 percent of the cost of construction as may be notified by the Government. As per current notification, one percent of the cost of construction is payable by the Employer of the establishment. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, first-aid facilities, ambulance, housing accommodations for workers near to the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- p) **Factories Act, 1948:** The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the minimum prescribed number of persons (say, 10 persons or more) with aid of power or another minimum prescribed number of persons (say, 20 or more persons) without the aid of power engaged in manufacturing process.

SECTION -7

ROAD MAINTENANCE STANDARDS AND SPECIFICATIONS FOR ROAD MAINTENANCE WORKS, PART-I AND PART-II

SECTION-7

ROAD MAINTENANCE STANDARDS AND SPECIFICATIONS FOR ROAD MAINTENANCE WORKS, PART-I AND PART-II

PREAMBLE

The Road Maintenance Standards and Specifications shall be read in conjunction with all other documents constituting the Contract viz. Notice Inviting Tender, Instructions to Bidders; Conditions of Contract, Bill of Quantities and other related documents mentioned in the Bid Documents.

General

The Standards and Specifications for the Road Maintenance Works and Activities as described Herein after shall comprise of the following:

PART-I : Road Maintenance Standards

PART-II : Specifications for Road Maintenance Works

Carbon footprints shall be minimized during the execution of maintenance work-

PART-I

ROAD MAINTENANCE STANDARDS

1 Inspections

1.1 The Contractor shall carry out weekly Inspection of project road and submit report to the Engineer on the maintenance works carried out during the week and also identify other items of works with location requiring attention for maintenance.

1.2 Any maintenance which involves works of emergent nature and/or replacement shall be immediately reported to the Engineer for joint assessment and issue of the work order. Such repairs shall be carried out on authorization by the Engineer except in emergency situations where it needs to be attended to urgently for safety reasons. In such situations, temporary arrangements shall be made immediately and further directions sought from the Engineer.

1.3 The Engineer will monitor road condition and shall carry out at least fortnightly Inspection of the project road to verify that the Contractor is maintaining maintenance standards as per Contract and to make note of non-compliances of Performance based items of BOQ, other items of work and work orders issued for other works. Non-compliance/delayed compliance of maintenance work shall be dealt with as per provisions of GCC **Clause 32.1** and maintenance standards herein below.

3. Maintenance Standards for Quantity Based items:

(i) Road Maintenance:-

Road Maintenance shall cover following items (**Stretches more than 10m in length at one location to be dealt**)

- a. Repair of earthen shoulders/earthen side slopes of embankment.
- b. Repairing the pavement with **BC (30mm)+ DBM (50 mm) / BC (30mm) + WMM (150 mm) as the case may be.**

(ii) Road Property Maintenance

Road Property Maintenance shall cover following items

- a. Providing Road marking with Thermoplastic paint of 2.5mm thick
- b. Providing Hazard markers, retro-reflective cautionary and mandatory sign boards
- c. Providing delineators
- d. Providing Road Pavement Markers(Road studs), W-type Metal beam crash barrier, LED Solar blinkers.

2 Maintenance Standards for performance based items

2.1 The following maintenance standards shall be achieved by the Contractor to be eligible for full payment:

Item	Permissible Tolerance/Service Level	Measurement and Detection	Maximum Response Time	Rectification Standard
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Item no. 3.1 of Bill no 3 (repair of pot holes/edge cuts/ruts/patches)	Not more than 5 isolated potholes/ edge cuts in a stretch of 1 km. Maximum size of pot hole/edge cut not more than 300 sq cm x 4 cm depth. Max rutting – 2.5% in the sub-section. Rutting not to exceed 20 mm. Patches not more than 5% of the surface area in a stretch of 1 km.	Visual inspection. Area of pot hole shall be measured by the area of rectangle enclosing the pothole. Rutting to be measured in isolated locations.	Within two days	As per Clause 3004 of MoRTH Specifications
(*) Item no. 3.2 of Bill no. 3 (Providing road patrols and surveillance, automobile assistance, tow away cranes and ambulance services as per maintenance standard Clause 2.2) - Deleted	To reach the incident spot within 30 minutes of occurrence - Deleted	Route Patrol Regular patrolling at least once in four hours for entire length of the highway. - Deleted	Removal of vehicles involved and immobilized in accidents within 4 hours after Police Inspection Removal of dead animals/ birds and burying them at Suitable location within two hours. Accident relief measures within 30 minutes of occurrence. - Deleted	As per maintenance standard under Sub Clause 2.2 - Deleted

~~2.2 Providing road patrols and surveillance, auto mobile assistance, tow away cranes and other services (Incident Management) - Deleted~~

~~i) The Contractor shall setup and maintain an Incident Management System (IMS) and supply regular incident statistics to the Employer.~~

~~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 the Employer within 24 hours of occurrence. The Incident Management Centre shall monitor the location of route of incident management vehicles/rescue operation vehicles through Vehicle Tracking System (VTS) on continuous basis.~~

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

~~The Contractor will remove dead animals/birds from the carriage way 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 after police inspection. If the Contractor fails to remove the dead animals/birds and accident vehicles/debris from the carriageway within specified time of the incident, he will be levied a penalty of Rs.10,000/- per each such incident.~~

~~The Route Patrol Vehicle, and Crane shall be equipped (for 24 x7 period and for total duration of contract) with Vehicle Tracking System, equipment/medicines as mentioned in this Clause~~

ii) ~~Route Patrols~~

~~The Contractor is required to provide 24 hours per day route patrols to assist the road users of the highway, to provide information, feedback and perform functions in relation to incident management. To achieve this, the Patrol vehicles fitted with VTS should be fully equipped as well as the patrol persons should be adequately trained in traffic management, road safety and primary first aid. The purpose of these patrols is to:~~

- ~~* Provide the users of the highway with basic mechanical help for vehicles that breakdown on the road and also protect other users from such vehicles.~~
- ~~* Immediately identify traffic hazards of whatever nature, such as un authorized 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.~~
- ~~* Observe, record and report suspect aspects of the highway, hazards and incidental damage caused by vehicles, floods, storms or other random events, such that the highway maintenance records and database are continuously improved.~~
- ~~* **Route Patrol in charge / Route Patrol assistant/ Driver with knowledge of repairs will be trained, tested and certified suitably with an I-card issued by the Employer. This should be ensured before commencement date within a week of proposing them.**~~

- * ~~The routes entrusted should be marked with chainages at 100 m intervals and the same are to be maintained throughout the duration of the Contract. These should be amenable to capturing in the regular route video in a readable form.~~
- * ~~Route Patrol Vehicle should carry out Date/Time latitude longitude logged videography of the route every week and furnish to Engineer-in-Charge for review and check on compliance with the requirements of the Contract. A report on the same shall be submitted along with video recording.~~

iii) ~~Patrol Vehicles/Rescue Vehicles~~

~~Vehicles should be fully covered having sufficient space for the required equipment storage, fitted with rotating light and hooter, and painted with approved unique colour pattern for quick recognition, with the Employer's name and emblem painted prominently on sides, back and front, together with the control center and Helpline numbers. Vehicles should be in good condition and registration number not older than two years.~~

~~Each vehicle should also carry the following equipment-~~

- a) ~~Fire extinguisher 1no.~~
- b) ~~Gas cutter with protective glass (2Nos.)~~
- e) ~~Liquid container 2 nos. Water container with fresh water 1 no Funnel~~
- d) ~~Rubber Gloves, Leather Gloves (1 pair, each)~~
- e) ~~Brooms on hard bristle, other soft 2nos.~~
- f) ~~Gum boot 4 pair, Rain coat 4 pairs, Blanket1.~~
- g) ~~Torch lights 4nos. Spare Batteries, Flashing light 1no.~~
- h) ~~Hydraulic jack, towing chain, animal hook, rope~~
- i) ~~Tool set (with standard set of spanners, pliers, hammer etc.)shovels.~~
- j) ~~Battery charger, jumper cables~~
- k) ~~Diamondcutterandchainsaw(forecuttingmetal,reinforceconcreteandwood)crow-bar(16")~~
- l) ~~Digital Camera, measuring tape~~
- m) ~~Paper pad, Forms, pen/pencils, folders.~~
- n) ~~First aid kit, Rain Coat, water proof sheets, stretchers (two numbers)~~
- o) ~~List of hospitals.~~

~~Each vehicle should also carry the following traffic management equipment, (used/worn out items shall be replaced forthwith with new ones.)~~

- a) ~~Signboards "Accident ahead" 3 nos. "Lane merging" 3 nos "Direction Arrows" 3 nos."Speed Limit"(80/60/40) 3nos."keep left/right 2nos. (all signs 1200mm size and of retro reflective type (high Intensity grade)~~
- b) ~~Sign stand set (one for triangular and other for circular sign) 6 sets~~
- e) ~~Flags, whistle, reflective hand signal.~~
- d) ~~Traffic cones 500 mm size with solar bulb mounted on top 20 Nos.~~
- e) ~~Barricades 4 Nos. reflective type 100 m, tape, stands, flags of 600 mm by 600 mm made of good read cloth secured to a staff at 1M length, Paddles of at least 600 mm wide and provided with rigid handle and marking SLOW,STOP.~~
- f) ~~As a minimum, each patrol vehicle should carry sufficient communication~~

~~equipment to render its staff capable of direct communication with the incident Management Control Center established.~~

Manpower

~~The team which is to be deployed with each patrol vehicle, shall be given adequate training for their tasks, especially in first aid, vehicle maintenance and minor repairs. The Contractor must employ sufficient manpower to work in shifts for each patrol vehicle. Typical staffing shall be:~~

- ~~a) ——— Route Patrol in Charge~~
- ~~b) ——— Route Patrol Assistance~~
- ~~e) ——— Driver with knowledge of vehicle repairs~~

~~Typical duties of the Route Patrol in Charge are:-~~

- ~~a) ——— Patrol the corridor to ensure obstruction free flow as per shift standards~~
- ~~b) ——— To report to police and assist injured at accident scene and remove all obstructions from road when the vehicles are cleared.~~
- ~~e) ——— To provide first aid to injured, contact control room and ambulance service if needed, assist police.~~
- ~~d) ——— Report all incidents on radio control, to control room~~
- ~~e) ——— To ensure safety of traffic with minimal delay at accidents.~~
- ~~f) ——— To assist motorists on broken down vehicles and to ensure that they do not obstruct Free flow.~~
- ~~g) ——— Maintain relations with all emergency services, and local safety councils~~
- ~~h) ——— To report carriage way condition of drainage, ROW plantations, median plantation etc.~~
- ~~i) ——— Check on Encroachment irregularities taking place within ROW, and prevent un authorized entry into the corridor.~~
- ~~j) ——— Prevent theft of assets and report~~
- ~~k) ——— Attend to urgent maintenance for safety requirements.~~

~~All times, the Route Patrol In Charge should have with him a list of telephone numbers and address of all concerned in providing the road users services.~~

~~On duty, all staff shall wear distinctive standard jacket shaving company LOGO, with night visibility. They are to deal with public and hence should be well trained and advised to be courteous and helpful.~~

~~Number of Patrol Vehicles shall be as given in BoQ (Bill No.3)~~

iv) ——— Ambulance NA

~~The vehicle shall be matador van/Swaraj/Mazda/Tempo Travelers or equipment with approved colour pattern with the provision of two stretchers, fitted with rotating light for easy recognition with Road Authority name and emblem painted prominently on sides, back and front, together with control center help numbers. The ambulance is required to have the necessary medicines and equipment and also the paramedical staff. The vehicles fitted with VTS should be in good condition and registration number not older than two years. The vehicles shall run minimum 5km ——— daily~~

(even for dry run), to be eligible for monthly payment.

a) ~~General Ambulance:~~

~~Folding Doctor Seat with Belt with adequate height in relation to the stretcher, Antistatic, waterproof plyboard/viny/flooring, Channel/locking system for rolling stretcher, High intensity blinkers, light bar/siren/beacon, Electronic siren with Public Addressing System, Internal lighting with three spot light embedded in ceiling, AC/DC connection and outlet points, wash basin with stainless steel Tank, SS Trash bin cabinet integrated with interiors, Head racks and cupboard, Attendant seat with seat belt to double as second stretcher for stable patients. Provision for communication system where the location of ambulance can be identified, Provision for fog light on sides, Cool/Warm boxes, Provision of Fire Extinguishers, Handled Spotlight, Inverter with facility re-charging from 220 VAC and vehicle's alternative. Oxygen delivery system comprising of cylinder trolley, pressure tubing with regulators, roof mounted Air Conditioner with appropriate cooling capacity with additional blower for patient cabin, Extrication equipment and good suspension to cater for smooth transportation~~

b) ~~Basic Life Support System~~

~~Automatic loading stretcher, scoop stretcher, folding stretcher, spine board full vacuum splint kit/foldable splints, C-Collars, Oxygen Cylinder with accessories mounted with manifold and pressure indicators, Oxygen Cylinder (aluminum portable), BP Instruments (Wall mounted Aneroid), Stethoscope, Automatic defibrillator, Resuscitations bag (ambubag, laryngoscope, airways and mask of different size including pediatric), manual foot operated suction pump, I.V. Fluid and I.V. Sets, Tourniquet, First Aid Box (Dressing material/ Antiseptic lotion/ Analgesic etc.) Linen/Blanket, Laryngeal mask airway of all sizes.~~

~~The following paramedical staff are required with proper uniform and name of the person written on the uniform:~~

~~Trained Paramedical staff _____ 1~~

~~Nursing staff with knowledge of first aid _____ 1~~

~~Driver for ambulance _____ 1~~

~~Number of Ambulance shall be provided as given in BoQ (Bill No.3)~~

v) ~~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 road authority name and emblem painted sides, back and front. The Contract or must employ following man power to work in shifts:~~

a) ~~Driver with knowledge of vehicle repair~~

b) ~~A helper~~

~~The vehicle shall run minimum 5 km daily (even for dry run), to be eligible for monthly payment. Number of Tow Away Vehicles shall be provided as given in BoQ (Bill No.3)~~

vi) ~~In case of absence/deficiencies in respect of vehicles/manpower/equipment, as~~

~~mentioned herein, found during inspection by Engineer/Authority Representative, a penalty of Rs.5000/- per item per incidence shall be levied.~~

3 Maintenance Standards for Other BOQ Items

Performance based maintenance: Performance based maintenance shall include the following

Pavement Repairs:-

Pavement Repairs shall cover following items (**Stretches less than 10m in length at one location to be dealt**).

- a. Repair of earthen shoulders/earthen side slopes of embankment
- b. Carrying out Pot Patch repairs with BC/BC + DBM/BC + DBM + WMM as the case may be
- c. Repair of existing road signs
- d. Cleaning of CD structures/ drains.
- e. Removal of rank vegetation/plants/tree branches protruding on to carriageway or obstructing sight distance.
- f. ~~Engaging of mobile crane (tow away vehicle) for clearing of road during the accidents—~~

~~Deleted~~

- g. ~~Providing, running, and maintaining route patrol vehicle.—Deleted~~

3.1 Basic Equipment to be made available in Maintenance/~~Patrol Vehicle:-~~

Contractor shall deploy Maintenance vehicle for timely and effective performance based maintenance. The basic equipment to be made available in maintenance vehicle deployed on the performance based maintenance shall include but not be limited to the following:

Heavy duty plate Compactor, small sized bitumen distributor cum sprayer with diesel based heating arrangement, emulsion container with emulsion, tools for cutting rank vegetation branches etc. like axes, manual/mechanical saw etc. Container with different sizes of aggregate, tools required to cut the pothole/patches to regular shape. Thermo-plastic paint and small paint marking machine, rubber traffic cones, signs, barricade material, flags, reflectors, battery operated lantern etc. Separate larger equipment to be deployed separately for carrying out large size patch work/resurfacing in identified areas etc., as per the maintenance requirements are to be deployed apart from the small equipment specified above for maintenance work. Skilled manpower to operate the above maintenance tools and labor to assist the skilled manpower should always be available with the maintenance vehicle.

3.2 Maintenance Standards for routine maintenance of potholes and patches/fatty surface/rutting/cracks in the pavement:-

- i) Potholes in bituminous pavement shall be cut to regular rectangular shape with plain base and rectified through granular base course and DBM of minimum 50mm thickness plus BC of 30mm thickness with primer tack coat etc., as per MORTH Specifications if the pothole depth is extended into granular layers of the pavement so that the surface of the repaired pothole/patch is flush with existing pavement after compaction and passage of traffic without any depression or raised surface with respect to the existing pavement.
- ii) In case the depth of the pothole/patch is within bituminous layers of the pavement the same shall be cut to regular rectangular shape with plain base and shall be repaired with DBM and BC layers of appropriate thickness so that the surface of the repaired pothole/patch is flush with existing pavement after compaction and passage of traffic without any depression or raised surface with respect to the existing pavement.
- iii) The fatty surface/rutting shall also be repaired after cutting off the excess material and bringing the surface flush with the existing pavement with layers of DBM/BC of suitable thickness with tack coat adequate compaction etc. as per MoRTH specifications.

iv) In case of defects in the concrete pavement surface the same shall be repaired with suitable epoxy concrete, filling of cracks etc., ensuring the repaired surface flush with the existing pavement as per MoRTH specifications and good industry practice.

v) Cracks in bituminous pavement shall be filled with fog seal/sand seal etc., as per MORTH specifications and good industry practice.

3.3 Maintenance Standards for repairing of earthen shoulders:-

i) The earthen shoulders shall be filled with subgrade quality earth and or cut suitably if the shoulders are raised above pavement level with camber of minimum 3% away from the carriageway to ensure adequate drainage.

ii) The level difference between carriageway and the earthen shoulder level threshold shall be removed through 1V 4H wedge or any other suitable method with proper watering/compaction at OMC.

3.4) Maintenance standards for cleaning, clearing and repairing roadside open/unlined/lined/covered drains and cross drainage works:-

i) The work shall consist of cleaning, clearing, deepening and reshaping of roadside drains and making shallow lateral drains on shoulders to drain out the rain water/ surface water effectively from bituminous surface as well as from roadside berms.

ii) Disposal of sediments, extraneous debris or vegetation growth, blocking flow.

iii) Safety devices and signs shall be placed as per MoRTH Specifications for Road and Bridge Works (5th Revision) Clause No. 112.

iv) The excavated material shall be disposed off as directed by Engineer-in-charge with all leads and lifts.

v) The drain slopes and sides shall be dressed up to original flow line and cross section.

3.5 Maintenance standards for "Removal of rank vegetation/weeds from shoulders and embankment slopes.

i) The contractor shall keep the shoulders, embankment slopes up to right of way (RoW) on both sides complete in all respects.

ii) The work shall include breaking of clods, rough dressing and disposal of waste and vegetation outside RoW as per directions of the Engineer.

iii) The contractor shall maintain separate signed muster rolls of deployed labours & supervisors and log books 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 statement of work done by the contractor.

iv) If a contractor fails to keep the specified area without weeds, unwanted vegetation, debris (as per provision of BOQ), a penalty of Rs.500/km/incidence shall be imposed. The Engineer's decision in this context is binding on the Contractor.

3.6 Maintenance standards for routine maintenance of road signs and Delineators:-

i) The work shall consist of washing of signs, delineators, removal of posters etc. and repair to supporting structures with repainting.

ii) 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.

iii) Defects in supporting structures like bullet holes, surface marks or bent posts shall be repaired with appropriate tools.

iv) Damaged area shall be cleaned and loose/flaking paint shall be removed. Bullet holes shall be filled with putty and supporting structure painted with first quality enamel paint in two or more coats.

PART-II

SPECIFICATIONS FOR ROAD MAINTENANCE WORKS

1. General

1.1 All materials, works and construction operations shall conform to the requirements laid down in the “Specifications for Road and Bridge Works” (5th Revision), Ministry of Road Transport and Highways, Published by Indian Roads Congress (IRC), New Delhi; IRC:82 “Code of Practice for Maintenance of Bituminous Surfaces on Highways” and IRC:SP:83 Guidelines for Maintenance, Repairs and Rehabilitation of Cement Concrete Pavements” wherever applicable. Where the Specification for a work is not given, sound engineering practice shall be adopted to the satisfaction of the Engineer.

“Specifications for Road and Bridge Works, Ministry of Road Transport and Highways” (5th Revision) is hereinafter referred to as MoRTH Specifications.

2 Arrangement for Traffic during Construction

- (i)** Contractor shall make all arrangements for safety during construction for the maintenance work in the light of Clause 112 of MoRTH specifications providing 2 cautionary Signs at a distance of 120 m, Channel for traffic clearly marked with pavement markings/painted drums with lanterns at night, Barricades, Signs, Markings, flags, Rubber traffic cones, lights and flagmen as approved by the Engineer to ensure safety. Drop off to be treated with 1V: 4H wedge or any other suitable method.

2.1 He shall provide, erect and maintain all such barricades, signs, markings, flags, lights as required or directed by the Engineer for safety of traffic passing through the section under repairs/improvement.

2.2 All maintenance works on the road shall be carried out in a manner which would cause least interference to the traffic. In stretches where resurfacing or riding quality improvement works are to be taken up, the Contractor during execution of work shall provide and maintain proper passage for traffic. Where it is not possible or safe to allow traffic on part width of the carriage way, at temporary diversion of proper Specifications shall be constructed by the Contractor at his cost. The Contractor shall take prior approval of the Engineer regarding traffic arrangements during construction.

2.3 All arrangements for traffic during construction shall be considered as incidental to the work and shall be Contractor’s responsibility. The Engineer shall determine the penalty to be imposed on the Contractor for deficiency in compliance to the requirement.

3 Quality Control

3.1 Quality control on materials and workmanship is the primary responsibility of the Contractor. Quality control shall be exercised in accordance with the Quality Plan approved by the Engineer. The Engineer may, during and after construction test the quality of materials and work in order to verify conformance with the prescribed Specifications.

3.2 An attempt shall be made to attend to defects like potholes, undulations, rutting, bleeding, linear and alligator cracks and eroded edges etc. at an initial stage itself. Thermal bonded patches of regular rectangular shapes without bump or sump shall preferably be adopted.

4 Specifications for Routine Maintenance

Before any work is started, signs, barriers, etc. shall be placed and necessary arrangements made for ensuring safety of traffic and workers in the work zone, as described in **Clause 2** of this Section

Preparation of the surface prior to application of any treatment, shall be carried out in accordance with the relevant Clauses of MoRTH Specifications.

After completion of the work, the site shall be left cleaned and tidy. No stock piles of material shall be left on the road.

5 Repair and Maintenance works related to Rigid Pavements

All repair and maintenance works related to Rigid Pavements shall be carried out following IRC:SP:83 (Guidelines for Maintenance, Repairs & Rehabilitation of Cement Concrete Pavements).

SECTION 8

DRAWINGS AND SCHEDULE OF DRAWINGS

SECTION-9

**FINANCIAL BID FORM AND BILL OF
QUANTITIES**

SECTION-9

FINANCIAL BID FORM AND BILL OF QUANTITIES

FINANCIAL BID FORM

To

The Superintending Engineer (R&B),
NH Circle Nizamabad.

DESCRIPTION OF WORKS: BID for Short Term Maintenance of (i) Kalyan- Nirmal-Jagtial road (NH-61) from Km 707/055 to 753/890 (ii) Nizamabad -Jagadapur section of NH-63 from Km 0/0-2/700, Km 6/700-7/930, Km 10/090-10/670, Km 11/070-11/110, Km 14/500-15/100, Km 16/030-16/120, Km 16/750-16/760, Km 16/760-17/055, Km 17/055-17/110, Km 19/700-21/500 and Maharashtra state border of NH-63 road missing gap from Km 10/350-12/0 & descoped stretch from Km 14/200-14/450 in the state of Telangana

Reference letter No.

Dear Sir,

1. 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 there in inconformity with the said bid documents at tender premium as quoted in the Financial Bid.
2. We undertake, if our Bid is accepted, to commence the work within fifteen (15) 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 abide by this Bid for a period of Ninety (90) 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 document and other records connected with the works as secret and confidential documents and shall not communicate information contained therein to 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 thereof, shall constitute a binding contract between us.
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_____

DESCRIPTION OF WORKS: FINANCIAL BID

S. No.	Description	Amount
1	Grand Total of BOQ	Rs. 9,56,51,582.58 (Rupees Nine Crores Fifty Six Lakhs Fifty One Thousand Five Hundred Eighty Two and Fifty Eight Paise only)
	I/We agree to execute the above works on the tender premium----- % above/ below the Grand Total of the project cost as given above.	(In words) ----- Percent Above/Below

BILL OF QUANTITIES

1. Preamble

- i) The Bill of Quantities (BOQ) shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Road Maintenance Standards and Specifications for Road Maintenance Works.
- ii) The quantities given in the Bill of Quantities are estimated quantities. The basis of payment will be actual quantities of items of work carried out and valued at the rates tendered in the BOQ along with accepted/awarded tender premium. The accepted/awarded tender premium above/below the grand total of the project cost shall be applicable for
- iii) Individual items of work to determine payable amount to Contractor for work done subject to other contractual provisions. Any variation shall be dealt with as per contract provisions.
- iv) The rates and prices tendered in the BOQ shall include all equipment, tools, spares, labour, supervision, overheads, consumables, materials, erection, maintenance, testing of input material delivered, profit, taxes and duties together with general risks, liabilities and obligations set out and implied in the contract and other incidentals to comply with the requirements of Standards and Specifications.
- v) Payment for performance based activities like maintenance of median and existing plants (Itemno.2.1), treatment and repair of potholes/ ruts (Item no.3.1) and providing route patrol and surveillance, automobile assistance, tow away cranes and ambulance services (Itemno.3.2) shall be indexed on performance scale of 100marks as given in Table below:
Payment for performance based activities shall be indexed on performance scale of 100 marks as given in Table below:

SI No	Brief Description	Weightage for performance rating	Remarks
1	Pavement repairs (100%)	Pot/patch repair - 40%	Length in which road is maintained without pot/patch rectifying the pot\patch within stipulated time during the month under consideration/ Total length
		Repair of existing road Signs-10%	Signs maintained without defects repairing/ maintaining them during the month under consideration/ Total signs
		Repairing shoulders and	Length in which road

Sl No	Brief Description	Weightage for performance rating	Remarks
		removing threshold between carriageway and earthen shoulders/embankment slopes, ensuring camber to shoulder-15%	Shoulders/slopes maintained rectifying the shoulders/slopes within stipulated time during the month under consideration/ Total length
		Removal of rank vegetation/plants/trees branches protruding on to carriageway of obstructing sight distance-15%	Length in which road maintain removing the rank vegetation within stipulated time during the month under consideration/ Total length
		Clearing C-D Structures/drains – 20%	Number of CD structures maintained in clean condition in vent ways/ Total CD structures.
2	Incident management (25%) - Deleted	Vehicle fitness and availability of required equipment in the maintenance cum petrol vehicle-25%	All the vehicles provided in the contract shall be fitted with VTS. Each time deficiency in vehicle fitness/equipment is communicated. Shall be considered as 20% deficiency subject to maximum of 100% in a month. Non-submission of GPS based log record of vehicle movement and video recording for each occasion shall be taken as 25% deficiency subject to maximum of 100% in a month. Availability of trained manpower shall also be assessed similar to Vehicle fitness/equipment. Response time for crane beyond that specified (4 hours) shall also be assessed similar to submission of log record / Video recording
		GPS based log record of vehicle movement-25%	
		Availability of trained personal manning the vehicle and clearing of ROW of trash/ rubbish/ garbage-25%	
		Average response time of cranes as compare to stipulated standards-25%	

Note:-

- i) Performance assessment for performance based items of work, shall be done through inspection by the Engineer-in-Charge at least two times during the month and overall rating can be done on the basis of average of assessments made during the inspection along with study of videographer status of the stretch submitted by the route petrol in-charge.
- ii) The Contractor shall submit video recording to the Engineer-in-Charge of condition of the Project Highway with special emphasis on performance based items.

- iii) For performance based items of work, the Contractor shall be entitled for receiving payment proportionate to the average percentage of performance assessed for achievement between 80% to 100%.
- iv) The Contractor shall not be entitled for payment for performance based maintenance if the average performance is rated less than 80%
- v) A percentage quoted by bidder shall be entered as a single percentage as Tender Premium % above/ tender discount % below on the estimated rates/amounts specified in the BOQ
- vi) When the unattended defects are corrected within a week of their communication to the contractor at the cost of the contractor and the amount along with specified damages of 20% are recovered from the contractor those defects would be considered as rectified while assessing the performance achievement
- vii) Road signs proposed to be installed under Quantity based maintenance in the stretch shall also come under performance based maintenance obligation after they are installed
- viii) Repeated failure in rectifying the defects / deficiencies even after intimating them to the contractor may lead to termination of contract for contractor default apart from reduction in relevant payments.
- (e) Performance based maintenance can be reduced either in terms of length or in terms of months or both for taking up any development works or other exigencies as decided by the authority and in such cases the payments would be regulated on pro- rata basis in terms of length / period in months or both.

NOTE: The performance assessment shall be carried out as per the MoRT&H Circular NO. RW/NH-33044/15/2021-S&R(P&B), dt: 16.4.2021.

**** The Performance based payments percentages are assessed for the 12 months of work period. In case of any fore closure of the work in view of declaration of Appointed Date for the Improvement works on the subject reach, the payments shall be reduced proportionately w.r.t the decrease in the Work period.**

NOTE FOR EMPLOYER:

- i) The items of work given in the BOQ are indicative. Employer may include new items or delete items depending on the requirements of the work.
- ii) The performance based items given in the BOQ are indicative and may be changed as per requirements.
- iii) The rates of items as per applicable Schedule of Rates are required to be worked out and included in the BOQ and accordingly amount is to be calculated and included in the BOQ/Summary.
- iv) Road maintenance standards given in Part-I for some items of work are indicative. These may be amended/ supplemented as per specific requirement of work.

SUMMARY

BILL NO.	DESCRIPTION	AMOUNT (Rs.)
BILL NO. 1	ROAD MAINTENANCE	6,11,04,391.00
BILL NO. 2	ROAD PROPERTY MAINTENANCE	1,29,19,900.58
BILL NO. 3	PAVEMENT REPAIRS	70,36,372.00
	TOTAL	8,10,60,663.58
	GST @18%	1,45,90,919.00
	Estimated Cost (incl. GST)	9,56,51,582.58

(i) Short Term Maintenance of Kalyan- Nirmal-Jagtial road (NH-61) from Km 707/055 to 753/890					
BILL NO. 1 : ROAD MAINTENANCE					
Item No.	Description of Items	Unit	Quantity	Rate (in Rs.)	Amount in Rs
1.1	Providing spot re conditioning, reconstruction and regravelling to repair specific erosion or other damages for restoring the eroded area to originally constructed cross section on cuts and fills, slopes/shoulders confirming to technical specification Clause no 3002. Fill material should be brought from borrow areas located outside the ROW confirming to technical specification no 305. Watered and well compacted with plate compactor or power rammer with all leads and lifts as directed by the Engineer (For Filling)	Cum	3230.00	351.00	11,33,730.00
1.2	Providing and laying 150mm thick Wet Mix Macadam, 50mm thick DBM and 40mm thick Bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder VG 40 grade transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction after providing and laying emulsion for tack coat before laying DGBM and BC as per the MORTH specification no 503 , as per the MORTH specification no 406 for laying WMM, as per the MORTH specification no 505 for laying DGBM and MORTH specification no 507 for laying BC after cleaning the road surface with mechanical broom etc., complete for finished item of work	Sqm	1295.00	2180.00	28,23,100.00
1.3	Providing and laying 40mm thick bituminous concrete with higher capacity batch type hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects.	Sqm	6601.00	747.00	49,30,947.00
	TOTAL FOR BILL NO. 1				88,87,777.00
Bill NO: 2 ROAD PROPERTY MAINTENANCE					
2.1	Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per clause 801 of MoRTH Specifications for Roads & Bridge Works (5th Revision) IRC : 67 (2022) made of class -C Micro Prismatic Grade Sheeting of Type XI retro reflective sheeting. The retro reflective sheting shall have manufacturer logo, watermark and lot number on the sheet. A QR (Bar) code shall also be placed on the backside of the sign board with an indelible ink. For Signs up 600mm size, retro reflective sheet shall be fixed over 1.5mm Thick aluminium sheeting vide or 3mm thick Aluminium composite				

	material vide clause 801 of MoRTH Specifications for Roads & Bridge Works. For signs upto 600mm sizes, sign shall be fixed over back support frame of minimum 25x25x 3 mm Angle Frame. For signs upto 600mm size, Signs shall be supported on GI circular pipe 65 B, 3.2 mm thickness confirming to IS 1239. Retro-Reflective sheet shall be fixed on Substrate with Pressure Sensitive Adhesive. The Substrate shall be firmly riveted on Angle Frame @ 200mm spacing with Aluminium Pop rivets using Pneumatic Guns. The Angle frame shall be firmly fixed with high strength nuts, washers & bolts conforming to IS1364 and IS 1367 on Sign Support Pole. Sign Supports shall be firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60, 60 cm below ground level as per approved drawing. All Components of signs and supports including Angle Frame, Bolts, Nuts, Washers, etc. other than the reflective portion shall be galvanized by hot dip process (Zinc coated, 0.55 kg/sqm; minimum single spot) unless otherwise specified. All galvanizing shall be done after fabrication. Alternate white and yellow bands measuring 50 mm long retro-reflective sheeting shall be pasted around GI posts which help in ensuring the visibility/Presence of poles during night time even if the sign boards are stolen or totally vandalized. Minimum four bands of such retro-reflective sheeting shall be pasted starting from a height of 0.5 m above the finish road level. The messages (legends, letters, numerals, etc.) and borders as per clause 6.8 of IRC 67 shall be digitally printed. Finished Signs shall have an Ultra Violet (UV) protective clear overlay applied to the entire face of the signs supplied by reflective sheet manufacturer. The agency shall submit 10 years warranty for satisfactory field performance for type XI retro re-reflective sheeting from the retroreflective sheet manufacturer confirming to clause 6.7 & 6.9 of IRC 67. Agency shall submit a certified copy of test reports from a Government laboratory/Institute conforming to clause 6.7/6.9 of IRC 67 including 3 years accelerated outdoor weathering for the retro reflective sheeting. The Agency shall submit the sign converter (manufacturer) name with details of essential equipment available with converter in his fabrication shop such as digital printer, cutter, plotter, laminator, Galvanizing plant, etc. The Agency shall submit road sign installation drawing in 'Kmz' file for approval before installation and after installation submit geo-tagging of all road signs with its installation photos and date of installation and other details as mentioned in IRC 67-2022 annexure VII, complete in all respects. The sign supports and its foundation details are indicative. These may be increased for areas having higher wind velocities like in coastal areas. This is applicable to all road signs and directions				
	Caution/Warning sign boards, Accident Black Spots, Narrow bridge ahead (90cm equilateral triangle) Annexure-I MORT&H Specn No. 801, Si No. III)	No.s	96	8418	8,08,128.00
	Mandatory/Regulatory sign boards (90cm circular boards) Annexure-I MORT&H Specn No. 801, Si No.vii)	No.s	128	9902	12,67,456.00
	Chevron sign boards (60*45 cm rectangular) -Annexure-I MoRT& H refe.801, Si No-iv	No.s	55	5704	3,13,720.00

2.2	Providing and Laying hot applied thermoplastic road marking strip on Bituminous Surface of specified shade/ colour of 2.5 mm thick including Type 1 beads (Refer MoRTH Specification Clause 803.4.2) which are a constituent of the basic thermoplastic compound vide Table 800-9 (MoRTH Specification) and Type 2 beads are those which are to be sprayed on the surface vide Clause 803.6.4 (MoRTH Specification). The glass beads shall have a minimum reflectivity index of 1.5. The glass bead shall be @ 250gm/sqm. The thermoplastic road markin material thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35. Pavement Marking Performance such as Day/Night visibility, Dry/Wet visibility and skid resistance shall be confiring to clause 15.5" of IRC 35. The finished surface to be level, uniform, and free from streaks and holes complete as per direction of Engineer-incharge and in accordance with applicable specifications. (Refer MORTH Clause 803 for technical Specification and Performance for IRC 35:2015). Recommended Use of specialized Road Marking Primer, based on surface conditions	Sqm	6283.00	579.00	36,37,857.00
2.3	Supplying of hot applied thermoplastic road marking compound, 15mm thick including reflectorising glass beads @ 250gms with Reflectorising Glass Beads on Bituminous Surface at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass bead as per MORTH Section 803.4 and IRC: 35-2015, the material should satisfy the requirements as per MORTH specifications 803.4 and must comply with the following: a) White index for the product should be in the range of 60-70 when measured against standard reference. The applied panel 7/8 number must be submitted for checking up the white index in the department lab. In case the department approves the white index of any vendor, the department engineer may carryout random checking of the applied products at site against the approved panel. In case of any major deviation, beyond acceptance limit, department reserve the right to cancel or reject the total supplied consignment of the said material and willcompell the vendor has to replace the full consignment by the desired material as per approved panel at his owncost and additional demurrages may be claimed due to loss of man days (as per the rules of the department). b) Luminance factor of the material should be in the range of 80-85% at 45 degree centigrade as per AASTHOM 249. c) Crack resistance: The applied panel cured for 7 days under ambient condition and then should be tested as per BS3262, Part-1, 1989 and should pass at the range of '0' degree centigrade to '-10' degree centigrade D) Adhesion : Strong E) Softening point: 102 degree centigrade F) Dried film finish : Smooth and uniform G) Night Vision: High as directed by the Engineer-in-Charge and confirming to IS: 164-1961 (1st revision reaffirmed in 1986) and clause conforming to IRC 35-2015 and MORTH Section 803.4. (Rumble strips 15mm thick (in 6 layers each of 2.5mm thick))	Sqm	198.72	6177.33	12,27,559.02
2.4	Providing and fixing of Reflective Pavement Markers (RPM), i.e, road studs shall be Prismatic retro- reflective type confirming to ASTM D-4280. The Plastic body of RPM/road stud shall be moulded from ASA (Acrylic styrene Acrylonitrile) or HIPS (Hi - Impact Polystyrene) or	Nos	6632.00	228.33	15,14,284.56

	Acrylonitrile Butadiene Styrene (ABS). The marker height shall not be less than 10mm and shall not exceed 20mm and its width shall not exceed 130mm. The marker shall support a load of 13635 kg tested in accordance with ASTM D 4280. The reflective panels shall consist of number of lenses containing single or dual prismatic cubes capable of providing total internal reflection of the light entering the lens face, lenses shall be moulded of methyl methacrylate conforming to ASTM D 788 or equivalent. The optical performance of road studs shall be conforming to clause 804.4 of MoRTH specifications				
2.5	Supplying and installation of delineators (road way indicators, hazard markers, object markers), conforming to IRC 7979, 80 to 80 cm high above ground level with 200 to 300mm base which can be anchored on to the ground. The delineator shall have an ellipsoidal or circular shape made of mild steel with pure polyester powder coating with minimum thickness of powder coating of not less than 40 micron, The delineators shall have minimum three reflective sheeting bands of 150mm height conforming to Type-XI sheeting specifications as per IRC 67.	Nos	95.00	1230.00	1,16,850.00
2.6	Median Marker: Supplying and Fixing Median Marker conforming to IRC 79, shall be provided with fluorescent yellow colour retro reflective sheeting Type-XI as per IRC :67, Median Marker shall be of tough, high impact resistant, injection-moulded, thermoplastic body with property of flexibility to provide high durability and U shape structure having rebound/ bounce back property.	Nos	56.00	266.00	14,896.00
	TOTAL FOR BILL NO. 2				89,00,750.58

Bill NO: 3 PAVEMENT REPAIRS

Item No	Description of Items	Length in Km	Unit	Quantity	Rate per month per Km (in Rs.)	Amount (in Rs.)
3.1	Carrying out patch repair with bituminous concrete up to 40 mm thickness after removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides & base of excavation as per clause no. 503, back filling the patch with bituminous concrete prepared by using bitumen emulsion complying with IS 8887 and other material detailed as per clause no. 507. Compacting trimming & finishing the surface to form a smooth continuous surface all as per clause no. 3004.2 of Technical Specification.	46.835	Month	12 months	3916.23	22,01,000.00

3.2	Carrying out patch repair beyond 130 mm thick upto 380mm with Wet Mix Macadam avg thickness of 150mm ,with DBM 50mm and bitumenous concrete 30 mm thickness after removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides & base of excavation as per clause no. 503, back filling the patch with bitumenous concrete prepared by using bitumen emulsion complying with IS 8887 and other material detailed as per clause no. 507. Compacting trimming & finishing the surface to form a smooth continuous surface all as per clause no. 3004.2 of Technical Specification	46.835	Month	12 months	849.364	4,77,360.00
3.3	Removal of rank vegetation weeds and undesirable vegetation from shoulders, embankmet slopes upto ROW (Both sides) complete in all respects including breaking of clods, rough dressing and disposal of waste material and vegetation at a place outside ROW as per directions of Engineer - in - Charge and as per maintenance standards clause 3.3	46.835	Month	12 months	835.438	4,69,533.00
3.4	Clearing slab / Box type culverts and pipe culverts including clearing and cleaning and reshaping of upstream and down stream faces of these culverts within ROW. The job includes disposal of excess material recovered from site including vegetation outside ROW with all leads and lifts complete in all respects as per directions of Engineer -in - Charge and as per amintenance standards clause 3.1				409.264	2,30,015.00
	Slab/Culverts or Causeways	46.835	Month	12 months	69.695	39,170.00
	Pipe Culverts	46.835	Month	12 months	340.459	1,91,345.00
		TOTAL FOR BILL NO. 3				33,78,408.00

(ii) Short Term Maintenance of Nizamabad -Jagadapur section of NH-63 from Km 0/0-2/700, Km 6/700-7/930, Km 10/090-10/670, Km 11/070-11/110, Km 14/500-15/100, Km 16/030-16/120, Km 16/750-16/760, Km 16/760-17/055, Km 17/055-17/110, Km 19/700-21/500 and Maharashtra state border of NH-63 road missing gap from Km 10/350-12/0 & descoped stretch from Km 14/200-14/450 in the state of Telangana

BILL NO. 1 : ROAD MAINTENANCE

Item No.	Description of Items	Unit	Quantity	Rate (in Rs.)	Amount in Rs
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1.1	Removal of rank vegetation weeds and undesirable vegetation from shoulders, embankment slopes upto ROW (Both sides) complete in all respects including breaking of clods, rough dressing and disposal of waste material and vegetation at a place outside ROW as per directions of Engineer - in - Charge and as per maintenance standards clause 3.3	Ha	1.24	47741.00	59,199.00
1.2	Providing spot re conditioning, reconstruction and regravelling to repair specific erosion or other damages for restoring the eroded area to originally constructed cross section on cuts and fills, slopes/shoulders confirming to technical specification Clause no 3002. Fill material should be brought from borrow areas located outside the ROW confirming to technical specification no 305. Watered and well compacted with plate compactor or power rammer with all leads and lifts as directed by the Engineer	Cum	1530.00	351.00	5,37,030.00
1.3	Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m	Cum	585.00	125.00	73,125.00
1.4	Providing and laying 40mm thick Bituminous concrete and 50mm thick DBM with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder VG 40 grade transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction after providing and laying emulsion for tack coat before laying DGBM and BC as per the MORTH specification no 503 , as per the MORTH specification no 505 for laying DGBM and MORTH specification no 507 for laying BC after cleaning the road surface with mechanical broom etc., complete for finished item of work	Sqm	8860.00	1581.00	1,40,07,660.00
1.5	Providing and laying 40mm thick Bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder VG 40 grade transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction after providing and laying emulsion for tack coat before laying BC as per the MORTH specification no 503 , as per the specification no 507 for laying BC after cleaning the road surface with mechanical broom etc., complete for finished item of work	Sqm	49200.00	763.00	3,75,39,600.00
TOTAL FOR BILL NO. 1					5,22,16,614.00
Bill NO: 2 ROAD PROPERTY MAINTENANCE					
2.1	Providing and laying hot applied thermoplastic road marking strip on Bituminous Surface of specified shade/colour of 2.5mm thick including Type 1 beads (Refer MORTH Specification	Sqm	3078.20	579	17,82,278.00

	clause 803.4.2) which are a constituent of the basic thermoplastic compound vide Table 800-9 (MORTH Specification) and Type 2 beads are those which are to be sprayed on the surface vide clause 803.6.4 (MORTH Specification). The glass beads shall have a minimum reflectivity index of 1.5. The glass bead shall be @ 250 gm/sqm. The thermoplastic road marking material thickness of 2.5mm is exclusive of surface applied glass beads as per IRC: 35. Pavement Marking Performance such as Day/Night visibility, Dry/wet visibility and skid resistance shall be conforming to clause 15.5 of IRC: 35. The finished surface to be level, uniform and free from streaks and holes complete as per direction of Engineer-in-charge and in accordance with applicable specifications. (Refer MORTH clause 803 for technical specification and performance for IRC 35:2015). Recommended use of specialized Road marking primer, based on surface condition.				
2.2	Providing and fixing Reflective Pavement Markers (RRPM) i.e., Road Studs shall be prismatic retro-reflective type conforming ASTM D-4280. The plastic body of RPM/road stud shall be moulded from ASA (Acrylic strene Acrylonitrile) or HIPS(HI-impact polysterene) or Acrylonitrile Butadiene Styrene (ABS). The marker height shall not be less than 10mm and shall not exceed 20mm and its width shall not exceed 130mm. The marker shall support a load of 13,635 kg tested in accordance with ASTM D 4280. The reflective panels shall consist of number of lenses containing single or dual prismatic cubes capable of providing total internal reflection of the light entering the lens face. Lenes shall be moulded of methyl methecrylate conforming to ASTM D 788 or equivalent. The optical performance or road studs shall be conforming to clause 804.4 of MORTH Specifications.	Sqm	3398.00	228.33	7,75,865.00
2.3	Providing and laying of 15mm high single rib pattern Transverse bar mrakings with 2 component cold plastic with specialised cold plastic primer coating rolled on surfacing material solvent free, high build two pack seamless, tough, skid resistant for material to reduce speed. Cold plastic road marking material shall be applied in single monolithic application to create rumble strip raised section of 10mm high, 300mm wide confirming to clause 3.7 of IRC 99, across the entire carriageway. Each rumble marking shall be made complete with specialised high refractive index glass beads of minimum reflectivity index of 1.5. The glass bead shall be @ 250gm/sqm. Type 1 beads (Refer MoRT&H specification clause803.4.2) which a constituent of the basic cold plastics compound vide table 800-9 (MoRT&H specification) and type 2 beads are those which are to be sprayed on the surface vide clause 803.6.4 (MoRT&H specification). Pavement marking performance such as Day/Night visibility, Dry/Wet visibility and skid resistance shall be confirming to clause 15.5 of IRC 35. The finished surface to be levelled, uniform and free from streaks and holes, to be applied on the edge lines, including surface cleaning and cost of all materials etc. complete.	Sqm	189.00	6177.33	11,67,515.00

2.4	Providing and fixing Caution/Warning sign of 900mm Triangular (Type XI): Providing and fixing Cautionary / Warning sign boards size 900 mm equilateral triangle made out of Type – XI of ASTM D 4956-09 wide angle cube cornered micro Prismatic Retro reflective sheeting and conforming to IRC 67:2012 for full background of White colour and letters/logos done by screen printing in Black colour, borders by screen printing in Red colour and fixed over 4MM Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame of M.S angle 25x25x3mm all round and fixing with 35x35x4mm and mounted on a MS angle post of size 75x75x6mm with clear height of not less than 2.1 m from the ground level to the bottom of the board. The signpost should be painted with one coat of red oxide paint and 2 coats of synthetic enamel paint Black and White colour with bands of 30cm of height. The signpost shall be firmly fixed with MS base angle 35x35x4 mm in to the ground by M-15 Concrete foundation of size 450x450x600mm including cost and conveyance of all materials ,equipment, machinery and labour with all leads and lift, loading chages necessary for satisfactory completion of the work as directed by Engineer -in-Charge.	Nos	12.00	8,418.00	1,01,016.00
2.5	Providing and fixing Mandatory/regularity sign of 900mm Circular (Type XI): made out of Type – XI of ASTM D 4956-09 wide angle cube cornered micro Prismatic Retro reflective sheeting and conforming to IRC 67:2012 for full background of White colour and letters/logos done by screen printing in Black colour, borders by screen printing in Red colour and fixed over 4MM Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame of M.S angle 25x25x3mm all round and fixing with 35x35x4mm and mounted on a MS angle post of size 75x75x6mm with clear height of not less than 2.1 m from the ground level to the bottom of the board. The signpost should be painted with one coat of red oxide paint and 2 coats of synthetic enamel paint Black and White colour with bands of 30cm of height. The signpost shall be firmly fixed with MS base angle 35x35x4 mm in to the ground by M-15 Concrete foundation of size 450x450x600mm including cost and conveyance of all materials ,equipment, machinery and labour with all leads and lift, loading chages necessary for satisfactory completion of the work as directed by Engineer -in-Charge.	No.s	10.00	9,902.00	99,020.00
2.6	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces	Sqm	792.00	118.00	93,456.00
TOTAL FOR BILL NO. 2					40,19,150.00

Bill NO: 3 PAVEMENT REPAIRS

Item No	Description of Items	Length in Km	Unit	Quantity	Rate per month per Km (in Rs.)	Amount (in Rs.)
3.1	Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tippers, trimming bottom and side slopes, in accordance	9.22	Month	12 months	762.608	84,375.00

	with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m					
3.2	Carrying out patch repair with bitumenous concrete up to 40 mm thickness after removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides & base of excavation as per clause no. 503, back filling the patch with bitumenous concrete prepared by using bitumen emulsion complying with IS 8887 and other material detailed as per clause no. 507. Compacting trimming & finishing the surface to form a smooth continuous surface all as per clause no. 3004.2 of Technical Specification.	9.22	Month	12 months	13,779.826	15,24,600.00
3.3	Carrying out patch repair beyand 40mm thick upto 130mm with DBM avg thickness of 50mm and bitumenous concrete of 40 mm thickness after removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides & base of excavation as per clause no. 503, back filling the patch with bituminous concrete prepared by using bitumen emulsion complying with IS 8887 and other material detailed as per clause no. 507. Compacting trimming & finishing the surface to form a smooth continuous surface all as per clause no. 3004.2 of Technical Specification	9.22	Month	12 months	14,575.379	16,12,620.00
3.4	Providing spot re conditioning, reconstruction and regravelling to repair specific erosion or other damages for restoring the eroded area to originally constructed cross section on cuts and fills , slopes/shoulders confirming to technical specification Clause no 3002. Fill material should be brought from borrow areas located outside the ROW confirming to technical specification no 305. Watered and well compacted with plate compactor or power rammer with all leads and lifts as directed by the Engineer	9.22	Month	12 months	3,426.247	3,79,080.00
3.5	Removal of rank vegetation weeds and undesirable vegetation from shoulders, embankmet slopes upto ROW (Both sides) complete in all respects including breaking of clods, rough dressing and disposal of waste material and vegetation at a place outside ROW as per directions of Engineer - in - Charge and as per maintenance standards clause 3.3	9.22	Month	12 months	517.796	57,289.00

	TOTAL FOR BILL NO. 3		36,57,964
		TOTAL FOR BILL NO. 1 (i + ii)	6,11,04,391.00
		TOTAL FOR BILL NO. 2 (i + ii)	1,29,19,900.58
		TOTAL FOR BILL NO. 3 (i + ii)	70,36,372.00
		GRAND TOTAL FOR BILL NO. (1) + BILL NO. (2) + BILL NO. (3) (Excluding GST)	8,10,60,663.58
		GST @ 18%	1,45,90,919.00
		Total Value of BOQ including GST and all Taxes	9,56,51,582.58