

Request For Proposal

For

**Short Term Maintenance Contract (STMC) for
Suratgarh-Sriganganagar section of NH-62 from Km
173/00 to 250/900 in the State of Rajasthan.**

on

**SHORT-TERM MAINTENANCE CONTRACT
(STMC)**

**Ministry of Road Transport & Highways
(Through Public Works Department, Rajasthan)**

July 2026

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SECTION – 1

NOTICE INVITING TENDER

SECTION – 1
NOTICE INVITING TENDER

Availability of bid documents as per NIT

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NOTICE INVITING TENDER

1. The Ministry of Road Transport and Highways, through Rajasthan PWD, represented by Superintending Engineer PWD NH Circle Bikaner, hereby invites Single Percentage Rate Bids through-tendering from experienced firms/ organizations for maintenance works and activities for the following sections of the National Highway/ ~~State Highways/ MDR/ Rural roads.~~

Sl. No.	Section	Length (km)	Estimated Cost (Rs. Lac)	Bid Security (Rs. Lac)	Contract Duration (months)
1.	Short Term Maintenance Contract (STMC) for Suratgarh-Sriganganagar section of NH-62 from Km 173/00 to 250/900 in the State of Rajasthan.	77.9	430.33 (excluding GST)	4.30	12

Cost of Bid Documents (Non-Refundable) : Rs 10,000/- (through Bharatkosh Portal)
e-Tender Processing fee (Non-Refundable) : NIL

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

Average Annual Turnover during last 3 years	Work of similar nature during last 5 years
Minimum Average Annual Turnover Rs 430.33 lac (estimated cost of work)	Single work of Rs 215.17 lac (excluding GST) (minimum 50% of the estimated cost of work) or Two similar works, each of Rs 150.62 lac (excluding GST) (minimum 35% of the estimated cost of work) or Three similar works, each of Rs 107.58 lac (excluding GST) (minimum 25% of the estimated cost of work)

3. The Scope of Work includes the routine maintenance of all the assets and facilities existing within the Right of Way (ROW) on the above-mentioned section including maintenance of carriageway, shoulders, median, bridges, culverts, drains, footpaths, road signage, plantation, etc., 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 their firm registered with the e-procurement portal <http://eprocure.gov.in> to have a user ID & password, which has to be obtained free of cost. The following may kindly be noted: (a) Registration with the e-procurement portal should be valid at least up to the date of submission of the 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. The detailed bid documents can be viewed on the website from as per NIT.
5. The complete BID document can be viewed/ downloaded from the official portal of the CPPP website (<http://eprocure.gov.in>) as per NIT. 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 the BID/ RFP document, i.e. Rs. 10,000 /- (Rupees ten thousand only)**, to the Employee/s account through Bharat Kosh portal (<http://www.bharatkosh.gov.in>), as mentioned below: The details for payment are as under:
- Name of Ministry: MoRTH
Controller Code: 024
Name of PAO: RPAO Jaipur
PAO Code: 034975
DDO Code: 234977
Mode of Payment: Online (through Net-Banking, Debit card & Credit card) and offline (through Challan generated from Bharatkosh Portal)
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 as per NIT (as mentioned on the e-portal only) ("**Bid Due Date**"). Bidder must submit its Financial Bid and Technical Bid on the CPPP e-procurement portal within the above deadline. The bids would be opened on as per NIT, Representatives of the bidders (maximum of two) who choose to attend may attend the online opening of the bids at as per NIT on the date and time as mentioned as per NIT. However, such representatives shall be allowed to attend the opening of the bids only if they produce letter of authority on the letterhead of the bidder, at the time of opening of bids as mentioned above
9. Bidder is required to submit, along with its BID, a **BID Security of Rs 4.30 Lakhs** (the "BID Security"), refundable not later than 150 (One hundred & fifty) days from the BID Due Date, except in the case of the Selected Bidder whose BID Security shall be retained till it has provided a Performance Security and Additional Performance Security (if any) as per the provision of this RFP and LOA.
- BID Security shall be submitted in the form of Bank Guarantee. The Bank Guarantee shall be transmitted through the SFMS Gateway to NHAI/ MORTH/ State PWD/ NHIDCL/ BROs Bank.

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

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

Superintending Engineer

PWD NH Circle Bikaner

e-mail: senhbikaner@rajasthan.gov.in
eenh.bkn@rajasthan.gov.in

SECTION-2
INSTRUCTIONS TO BIDDERS (ITB)
AND APPENDIX TO ITB

SECTION - 2
INSTRUCTIONS TO BIDDERS (ITB)

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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”. The name and 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.

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 black listed 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 the total monetary value of civil engineering construction and maintenance works performed for each of the **last three years**;
 - c) Scanned copy of experience certificate in works of a **similar nature and size for each of the last 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 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 the preparation of bid documents or to supervise the contract.

4.2 Bids from joint ventures/ consortiums are not allowed.

4.3 A. To qualify for the 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 or as a partner of JV for similar works during the last five years ending last day of the month previous to the one in which bids are invited, either of the following:
 - i. Three similar completed works costing not less than an amount equal to **Rs 107.58 lac each**.
 - ii. Two similar completed works costing not less than an amount equal to **150.62 lac each**.
 - iii. One similar completed work costing not less than the amount equal to **Rs 215.17 lac**.
 - iv. The similar work constitutes the construction/ maintenance of roads

The following escalation factors shall be used to bring the value of such completed works to the level of the current financial year (2025-26):

Year Before	Multiplying Factor
One i.e (2025-26).....	1.00
Two i.e (2024-25).....	1.10
Three i.e (2023-24).....	1.21
Four i.e (2022-23).....	1.33
Five i.e (2021-22).....	1.46

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.

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:

Available Bid capacity = (A* N* 2.5 -B)

Where,

A = Maximum value of civil engineering **works executed in any one year during the last three years** (escalation factor as specified in this section shall be used to bring the maximum value of civil engineering works to the level of current financial year, i.e., 2025-26), taking into account the completed as well as works in progress.

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

B = Value (escalation factor as specified in this section shall be used to bring the value to the level of the current financial year, i.e., 2025-26) of existing commitments and on-going works to be completed during the next 6 months (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**:

Section 1: Notice Inviting Tender

Section 2: Instructions to Bidders (ITB) and Appendix to ITB

Section 3: Qualification Information

Section 4: Forms of Bank Guarantee, Letter of Acceptance (LOA) and Agreement

Section 5: General Conditions of Contract and Contract Data

Section 6: Addendum to General Conditions of Contract

Section 7: Road Maintenance Standards and Specifications for Road Maintenance Work, Part-I and Part-II

Section 8: Drawings and Schedule of Drawings and Maintenance Program

Section 9: 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 authorised 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 the e-tendering portal. Bidders are advised to keep themselves updated of all the addenda issued on the 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 e-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 as per NIT.

Though, the scanned copies of following documents is required to be uploaded during submission of e-bid on the e-tendering portal, as per **Clause 12.1** above, however, following original documents in physical form shall be submitted in a sealed envelope on or before the **Bid Due Date** and before the time of submission as specified in NIT at the address indicated in **Clause 20**, duly superscribed "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
- ii) Bid Document Fee
- 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, Part-I and Part-II
- vi) Drawings and Schedule of Drawings

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 a single percentage rate above/below the BOQ/ scheduled rates on the appropriate format enclosed as part of the tender document on e-procurement portal.

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 **on any account during the performance of contract.**

14. Currencies of Bid and Payment

All payments shall be made in Indian Rupees.

15. BID VALIDITY

15.1 Bids shall remain valid for a period of 120 days after the deadline date for bid submission specified in **Clause 20**. A bid valid for a shorter period shall be rejected by the Employer as non-responsive.

15.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the Bidders may extend the period of validity for a specified additional period. The request and the Bidders' responses shall be made in writing. A Bidder may refuse the request without forfeiting his bid security. A Bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security for a period of the extension, and in compliance with **Clause 16** in all respects.

16. EARNEST MONEY/ BID SECURITY/ FORFEITURE/ DEBARMENT

16.1 The Bidder shall furnish as part of its BID, a BID Security (Rs. 4.30 Lakhs) referred as in NIT in above in the form of Bank Guarantee issued by nationalized bank, or a Scheduled Bank in India having a net worth of at least Rs. 1,000 crores (Rs. one thousand crore), in favor of the Authority in the format **at section-4** and having a validity period of not less than 180 (one hundred eighty) days from the BID Due Date, inclusive of a claim period of 60 (sixty) days, and may be extended as may be mutually agreed between the Authority and the Bidder from time to time. The Bank Guarantee shall be transmitted through SFMS Gateway to [Ministry/NHAI/NHIDCL/State PWD/BRO] Bank. In case the Bank Guarantee is issued by a foreign bank outside India, confirmation of the same by any nationalized bank in India is required. For the avoidance of doubt, Scheduled Bank shall mean a bank as defined under Section 2(e) of the Reserve Bank of India Act, 1934. A scanned copy of the Bank Guarantee shall be uploaded on e-procurement portal while applying to the tender.

16.2 Any Bid not accompanied by an acceptable BID Security shall be rejected by the Employer as non-responsive.

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

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

16.5 *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.

16.6 *In case of forfeiture of bid security, the bidder shall also be debarred from participation in the works of MoRTH/ State PWD/ BRO/ NHIDCL/ NHAI for a period as decided by Authority.*

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

D. SUBMISSION OF BIDS

19. MARKING OF BIDS

- 19.1** The documents to be submitted in physical form as per **Clause 12.2** of ITB shall be submitted in a sealed Envelope super scribed as “Documents in Physical Form” at the top left corner.

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:

S. No.	Particular	Details of the department with officers
1.	Attn. Of:	Mr. Gajendra Pal Singh Chauhan
	Designation	Superintending Engineer
	Address:	PWD NH Circle, Near Museum Circle, Bikaner (Raj.)334001
	Phone No:	0151-2943342
	E-Mail Address	SENHBIKANER@RAJASTHAN.GOV.IN
2.	Attn. Of:	Mr. Hanuman Ratanoo
	Designation	Executive Engineer
	Address:	PWD, NH Division Near Museum Circle, Bikaner, (Raj.)334001
	Phone No:	01562-254063
	E-Mail Address	EENH.BKN@RAJASTHAN.GOV.IN

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

- 20.2** The Employer 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.
- 20.3** 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 e-bid submitted by such Bidder shall not be considered

22. MODIFICATION AND WITHDRAWAL OF BIDS

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

- 23.2** In all cases, the amount of Earnest Money, forms and validity shall be announced. Thereafter, the Employer at the opening as the Employer may consider appropriate, will announce the Bidders' names and such other details.
- 23.3** The Employer will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with this **Clause 23**.
- 23.4** 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.

- 23.5** The Employer shall inform the bidders about the result of technical evaluation by uploading on the web portal giving 7 days 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.
- 23.6** At the time of the opening of the 'Financial Bid', the names of the bidders whose bids were found responsive in accordance with **Clause 23.5** will be announced. The financial bids of only these bidders will be opened. The responsive bidders' names, the Bid prices, the total amount of each bid, pursuant to **Clause 22** and such other details as the Employer may consider appropriate will be announced by the Employer at the time of bid opening.

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

24. PROCESS TO BE CONFIDENTIAL

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

25. CONTACTING THE EMPLOYER

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

26. EXAMINATION OF BIDS AND DETERMINATION OF RESPONSIVENESS

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

- (a) meets the eligibility criteria defined in **Clauses 3 and 4**;
- (b) 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 Employee/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. If, 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 thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Employer's action.

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 3% (Three 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.

- 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.

33. ADVANCES

- 33.1** The Employer will provide Mobilization Advance as provided in Part I General Conditions of Contract.

G. CORRUPT OR FRAUDULENT PRACTICES

34. CORRUPT OR FRAUDULENT PRACTICES

- 34.1** 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.
- 34.2** 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 may be.
- 34.3** 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 therefrom, 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

35. LABOUR LAWS AND REGULATIONS

- 35.1** 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.

36. FUNDAMENTAL BREACH AND OTHER OBLIGATIONS

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

ITB Clause Reference

1.1) The Employer is CHIEF ENGINEER (NH) PWD RAJASTHAN

1.1) Name and identification number of Works is Short Term Maintenance Contract (STMC) for Suratgarh-Sriganganagar section of NH-62 from Km 173/00 to 250/900 in the State of Rajasthan.

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

Name of the Equipment **Quantity**
(For bituminous pavement/concrete pavement and earthwork)

1. Mobile Maintenance Unit with necessary equipment

S. No.	Project Length for maintenance	No. of Mobile Units*
1	Up to 50 km	1
2	More than 50 km and up to 150 km	2
3	More than 150 km and upto 300 km	3

2	** Sensor Paver	1
3	* *Vibratory Roller (8/10 T)	1
4	Static Roller (8/10 T)	1
5	Small Roller/Compactor	1
6	Bitumen/emulsion sprayer	1
7	Mechanical Broom (1250 sqm per hour)	1
8	Air compressor	2
9	Grader/Backhoe loader	1
10	Water Tanker	2
11	Dewatering Pumps	2
12	Tipper/dumper Truck	2
13	Mini hot mix plant (6/10 T/Hr capacity) with indirect heating arrangements	1
15	* *Hot Mix Plant	1
16	**String line set	1
17	Flotter	1
18	Slip Form Paver	1
19	Skid Vibrator	1
20	Joint Cutting machine	1

Note: (**)- Equipment to be included if periodic renewal is also included in the contract

(For Concrete pavement)

(For culverts, bridges and structures)

Note: The bidder must upload scanned copy of the documentary evidence in support of his owning/ leased/rented of the above equipments. In case the bidder proposes to hire or take the above equipment on lease, he should, along with the lease/rent agreement, attach the proof of ownership of 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.

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	Degree in Civil Engineering	5 years as Project Manager on Highway, Bridge construction/Maintenance works	1
2	Site Engineer-cum-Surveyor Engineer cum Material Engineer	Degree in Civil Engineering	4 years on Highway Construction/Maintenance works	1
3	Incident cum Road Property Manager cum Route Operation Manager	Graduated from a recognised University	3 years on Highway Property Management and Maintenance	1
4	Road Safety Auditor	Road Safety Audit Certificate from an appropriate approved Govt. agency	5 years experience	3 days in every 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 as per NIT.

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. Lac)

2025-26

2024-25

2023-24

1.4 (a) Work performed as prime contractor/JV partner 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)*

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

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

- 1.5** Availability of Key Equipment essential for carrying out the Works [Ref. **Clause 4.3(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 equipments 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 Authorise(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 Authorised 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 Authorised 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 Authorised Representative of the Firm)

Name of the Representative

Name of Firm

Date

SECTION-4

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

Bank Guarantee for BID Security

B.G. No. Dated:

1. In consideration of you, ****, having its office at ****, (hereinafter referred to as the “Authority”, which expression shall unless it be repugnant to the subject or context thereof include its, successors and assigns) having agreed to receive the BID of and having its registered office at (and acting on behalf of its JV) (hereinafter referred to as the “Bidder” which expression shall unless it be repugnant to the subject or context thereof include its/their executors, administrators, successors and assigns), for the*** ** Project on EPC basis (hereinafter referred to as “the Project”) pursuant to the RFP Document dated.....issued in respect of the Project and other related documents including without limitation the draft contract Agreement (hereinafter collectively referred to as “Bidding Documents”), we.....(Name of the Bank) having our registered office at.....and one of its branches at (Hereinafter referred to as the “Bank”), at the request of the Bidder, do hereby in terms of Clause 1.2.4 read with Clause 2.20 of the RFP Document, irrevocably, unconditionally and without reservation guarantee the due and faithful fulfilment and compliance of the terms and conditions of the Bidding Documents (including the RFP Document) by the said Bidder and unconditionally and irrevocably undertake to pay forthwith to the Authority an amount of Rs. *** ** (Rupees *** ** only) (hereinafter referred to as the “Guarantee”) as our primary obligation without any demur, reservation, recourse, contest or protest and without reference to the Bidder if the Bidder shall fail to fulfil or comply with all or any of the terms and conditions contained in the said Bidding Documents.
2. Any such written demand made by the Authority stating that the Bidder is in default of the due and faithful fulfilment and compliance with the terms and conditions contained in the Bidding Documents shall be final, conclusive and binding on the Bank.
3. We, the Bank, do hereby unconditionally undertake to pay the amounts due and payable under this Guarantee without any demur, reservation, recourse, contest or protest and without any reference to the Bidder or any other person and irrespective of whether the claim of the Authority is disputed by the Bidder or not, merely on the first demand from the Authority stating that the amount claimed is due to the Authority by reason of failure of the Bidder to fulfil and comply with the terms and conditions contained in the Bidding Documents including failure of the said Bidder to keep its BID open during the BID validity period as set forth in the said Bidding Documents for any reason whatsoever. Any such demand made on the Bank shall be conclusive as regards amount due and payable by the Bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs. *** ** (Rupees *** ** only).
4. This Guarantee shall be irrevocable and remain in full force for a period of 180 (one hundred and eighty) days from the BID Due Date inclusive of a claim period of 60 (sixty) days or for such extended period as may be mutually agreed between the Authority and the Bidder, and agreed to by the Bank, and shall continue to be enforceable till all amounts under this Guarantee have been paid.
5. We, the Bank, further agree that the Authority shall be the sole judge to decide as to whether the Bidder is in default of due and faithful fulfilment and compliance with the

terms and conditions contained in the Bidding Documents including, inter alia, the failure of the Bidder to keep its BID open during the BID validity period set forth in the said Bidding Documents, and the decision of the Authority that the Bidder is in default as aforesaid shall be final and binding on us, notwithstanding any differences between the Authority and the Bidder or any dispute pending before any Court, Tribunal, Arbitrator or any other Authority.

6. The Guarantee shall not be affected by any change in the constitution or winding up of the Bidder or the Bank or any absorption, merger or amalgamation of the Bidder or the Bank with any other person.
7. In order to give full effect to this Guarantee, the Authority shall be entitled to treat the Bank as the principal debtor. The Authority shall have the fullest liberty without affecting in any way the liability of the Bank under this Guarantee from time to time to vary any of the terms and conditions contained in the said Bidding Documents or to extend time for submission of the BIDs or the BID validity period or the period for conveying acceptance of Letter of Award by the Bidder or the period for fulfilment and compliance with all or any of the terms and conditions contained in the said Bidding Documents by the said Bidder or to postpone for any time and from time to time any of the powers exercisable by it against the said Bidder and either to enforce or forbear from enforcing any of the terms and conditions contained in the said Bidding Documents or the securities available to the Authority, and the Bank shall not be released from its liability under these presents by any exercise by the Authority of the liberty with reference to the matters aforesaid or by reason of time being given to the said Bidder or any other forbearance, act or omission on the part of the Authority or any indulgence by the Authority to the said Bidder or by any change in the constitution of the Authority or its absorption, merger or amalgamation with any other person or any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of releasing the Bank from its such liability.
8. Any notice by way of request, demand or otherwise hereunder shall be sufficiently given or made if addressed to the Bank and sent by courier or by registered mail to the Bank at the address set forth herein.
9. We undertake to make the payment on receipt of your notice of claim on us addressed to [name of Bank along with branch address] and delivered at our above branch which shall be deemed to have been duly authorised to receive the said notice of claim.
10. It shall not be necessary for the Authority to proceed against the said Bidder before proceeding against the Bank and the guarantee herein contained shall be enforceable against the Bank, notwithstanding any other security which the Authority may have obtained from the said Bidder or any other person and which shall, at the time when proceedings are taken against the Bank hereunder, be outstanding or unrealised.
11. We, the Bank, further undertake not to revoke this Guarantee during its currency except with the previous express consent of the Authority in writing.
12. The Bank declares that it has power to issue this Guarantee and discharge the obligations contemplated herein, the undersigned is duly authorised and has full power to execute this Guarantee for and on behalf of the Bank.
13. For the avoidance of doubt, the Bank's liability under this Guarantee shall be restricted to Rs.

*** crore (Rupees *** ** crore only). The Bank shall be liable to pay the said amount or any part thereof only if the Authority serves a written claim on the Bank in accordance with paragraph 9 hereof, on or before [*** (indicate date falling 180 days after the BID Due Date)].

14. This guarantee shall also be operatable at our Branch at New Delhi, from whom, confirmation regarding the issue of this guarantee or extension / renewal thereof shall be made available on demand. In the contingency of this guarantee being invoked and payment thereunder claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.
15. The guarantor/bank hereby confirms that it is on the SFMS (Structural Finance Messaging System) platform & shall invariably send an advice of this Bank Guarantee to the designated bank of [Ministry/NHAI/NHIDCL/State PWD/BRO], details of which is as under:

S. No.	Particulars	Details
1.	Name of Beneficiary	CE (NH & PPP) PWD Rajasthan Jaipur
2.	Name of Bank	SBI PWD Campus, Jaipur
3.	Account No.	37466760264
4.	IFSC Code	SBIN0031820

Signed and delivered byBank

By the hand of Mr./Ms, its and authorised official.

(Signature of the Authorised Signatory)
(Official-Seal)

FORM OF BANK GUARANTEE

[Performance Security/Additional Performance Security]

The Superintending Engineer,
PWD NH Circle Bikaner.

WHEREAS:

- (A) _____ [name and address of contractor] (hereinafter called the “**Contractor**”) and Ministry of Road Transport & Highways through Jaipur, PWD (hereinafter called the “**Authority**”) have entered into an agreement (hereinafter called the “**Agreement**”) for the “Short Term Maintenance Contract (STMC) for Suratgarh-Sriganganagar section of NH-62 from Km 173/00 to 250/900 in the State of Rajasthan” on Short Term Maintenance Contract (the “**STMC**”) basis, subject to and in accordance with the provisions of the Agreement
- (B) The Agreement requires the Contractor to furnish a Performance Security for due and faithful performance of its obligations, under and in accordance with the Agreement, during the {Construction Period/ Defects Liability Period and Maintenance Period} (as defined in the Agreement) in a sum of Rs..... cr. (Rupees crore) (the “**Guarantee Amount**”).
- (C) We, through our branch at (the “**Bank**”) have agreed to furnish this bank guarantee (hereinafter called the “**Guarantee**”) by way of Performance Security.

NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably guarantees the due and faithful performance of the Contractor’s obligations during the {Construction Period/ Defects Liability Period and Maintenance Period} under and in accordance with the Agreement, and agrees and undertakes to pay to the Authority, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Contractor, such sum or sums up to an aggregate sum of the Guarantee Amount as the Authority shall claim, without the Authority being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.
2. A letter from the Authority, under the hand of an officer not below the rank of Deputy Secretary in the Ministry of Road Transport & Highways that the Contractor has committed default in the due and faithful performance of all or any of its obligations under and in accordance with the Agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that the Authority shall be the sole judge as to whether the Contractor is in default in due and faithful performance of its obligations during and under the Agreement and its decision that the Contractor is in default shall be final and binding on the Bank, notwithstanding any differences between the Authority and the Contractor, or any dispute between them pending before any court, tribunal, arbitrators or any other authority or body, or by the discharge of the Contractor for any reason whatsoever.
3. In order to give effect to this Guarantee, the Authority shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Contractor and/or the Bank, whether by their absorption

with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.

4. It shall not be necessary, and the Bank hereby waives any necessity, for the Authority to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
5. The Authority shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Agreement or to extend the time or period for the compliance with, fulfillment and/ or performance of all or any of the obligations of the Contractor contained in the Agreement or to postpone for any time, and from time to time, any of the rights and powers exercisable by the Authority against the Contractor, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Agreement and/or the securities available to the Authority, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Authority of the liberty with reference to the matters aforesaid or by reason of time being given to the Contractor or any other forbearance, indulgence, act or omission on the part of the Authority or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.
6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Authority in respect of or relating to the Agreement or for the fulfillment, compliance and/or performance of all or any of the obligations of the Contractor under the Agreement.
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the Guarantee Amount and this Guarantee will remain in force for the period specified in paragraph 8 below and unless a demand or claim in writing is made by the Authority on the Bank under this Guarantee all rights of the Authority under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
8. The Guarantee shall cease to be in force and effect on up to 90 days (ninety) after the end of the defect liability period as set forth in clause 17.1
9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Authority in writing, and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.
10. Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorized to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Authority that the envelope was so posted shall be conclusive.
11. This Guarantee shall come into force with immediate effect and shall remain in force and effect for up to the date specified in paragraph 8 above or until it is released earlier by the Authority pursuant to the provisions of the Agreement.
12. This guarantee shall also be operatable at our branchBranch at New Delhi, from whom, confirmation regarding the issue of this guarantee or extension / renewal thereof shall be made available on Demand. In the contingency of this guarantee being invoked and payment thereunder claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.

13. The guarantor/bank hereby confirms that it is on the SFMS (Structural Finance Messaging System) platform & shall invariably send an advice of this bank guarantee to the designated bank of MoRTH. The details are as follow:

Sl. No.	Particulars	Details
1.	Name of Beneficiary	CE (NH & PPP) PWD Rajasthan Jaipur
2.	Name of Bank	SBI PWD Campus, Jaipur
3.	Account No.	37466760264
4.	IFS Code	SBIN0031820

Signed and sealed this day of, 20..... at

SIGNED, SEALED AND DELIVERED For and on behalf of the Bank by:

(Signature) (Name)

(Designation)

(Code Number)

(Address)

NOTES:

- i. The bank guarantee should contain the name, designation and code number of the officer(s) signing the guarantee.
- ii. The address, telephone number and other details of the head office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing branch.

\$ Insert date being 2 (two) years from the date of issuance of this Guarantee (in accordance with Clause 7.2 of the Agreement).

FORM OF LETTER OF APPLICATION

To,

[Address of Employer]

DESCRIPTION OF WORKS: BID FOR [Name of Work]

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 _____ (hereinafter called "the Employer" of the one part and _____ (here in after called "the Contractor") of the other part.

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

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

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

AND WHEREAS the Contractor has agreed to undertake such works and has furnished a Performance Security pursuant to **Clause 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 hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the works and remedy any defects therein in conformity in all respects with the provisions of the contract.
5. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the works and remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

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

Binding Signature of Employer _____ **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, guard rails, safety barriers, railings, fencings, parapets, kilometre 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. [Amended as per MoRTH circular RW/G-23012/01/2019-W&A (Pt III) dated 15.1.2021]

Rectification Standard

The Contractor shall maintain the specific parts of the road aspects as specified in BOQ or as ordered by 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. [Amended as per MoRTH circular RW/G-23012/01/2019-W&A (Pt III) dated 15.1.2021]

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

- 2.1** In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract Unless specifically defined. The Engineer will provide instructions clarifying queries about these Conditions of Contract.
- 2.2** If 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).
- 2.3** 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

- 7.1** The Contractor may subcontract any portion of work, up to a limit specified in ContractData, 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.

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

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

8. Other Contractors

- 8.1** The Contractor shall cooperate and share the Site with other Contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as referred to in the Contract Data. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors and shall notify the Contractor of any such modification. The Contractor shall cooperate in such situations as well.
- 8.2** 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

- 9.1** The Contractor shall employ the technical personnel named in the Contract Data or other technical persons approved by the Engineer. The Engineer will approve any proposed replacement of technical personnel only if their relevant qualifications and 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**.
- 9.2** The Contractor shall use the equipment identified in the bid along with competent operators and adequate stock of spares for smooth operations.
- 9.3** 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.
- 9.4** 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:
- 9.4.1** 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.
- 9.4.2** To maintain and update the road condition inventory regularly.
- 9.4.3** To assist the Engineer in verification of the compliance.
- 9.5** 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 nuclearwaste 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 excepted 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.

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

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

13.5 Both parties shall comply with any conditions of the insurance policies. 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 at 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.
- 18.4** The Engineer's approval shall not alter the Contractor's responsibility for design of the Temporary Works.
- 18.5** The Contractor shall obtain approval of third parties to the design of Temporary Works by Engineer.
- 18.6** All Drawings prepared by the Contractor 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 the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.
- 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. QUALITY CONTROL

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.
- 30.2** 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 Engineer 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 is not applicable for works of routine maintenance such as pot holes/ patch repairs/ ruts repairs/ cleaning and clearing, etc. under performance based BOQ item. However, for other specific items of works (if any), got executed as ordered by Engineer (if any), the Defects Liability Period shall be 12 months, counted from the Date of Completion stated in the Certificate of Completion issued in pursuance of Clause 47.
- 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 fails to correct a Defect, to the satisfaction of the Engineer, within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected. The Contractor will pay to the Employer this amount or the Engineer may deduct such amount from any sums due to the Contractor, on correction of the Defect together with 20 percent additional costs as the damages.
- 32.2** In case of any non-compliance/delayed compliance of maintenance standards, the damages/reduction in payment shall be applicable as provided under road Maintenance Standards Part – I.

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

34.1 The final quantity of the work done may differ from the quantity given in the Bill of Quantities. The payment shall be made for the quantities executed. Provided that the items for which lump sum rates have been quoted shall not be measured and the payments for such items not exceeding the quoted lump sum amount shall be made to the Contractor subject to meeting the specified maintenance requirements by the Contractor in accordance with the Agreement. It is agreed, beyond doubt, by the Contractor that no claims shall be entertained by the Engineer/Employer on account of reduction to any extent, due to budgetary constraints, in quantities of measurable items.

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. Photographs of maintenance work shall be submitted during the submission of monthly statements of the value of the 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

- 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 30 days;
- 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.

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

40.4 The Contractor will not be entitled to compensation in case the foreclosure of the contract in view of the declaration of the 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. The GST shall be reimbursed (if applicable) subject to production of proof of such payment by the contractor (proof should contain name of work).

41.2 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 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 term (gross value of work done) has reached 50% of the contract amount
 - b) After the retention money has been deducted to the full value (5% of the contract amount).

43. Liquidated Damages

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

Both the parties expressly agree that the liquidated damages payable by the Contractor are mutually agreed genuine pre-estimated loss and without 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 @ SBI PLR applicable on the date of release of mobilisation advance, by deducting from payments otherwise due to the Contractor. The mobilisation advance will be recovered from third running bill upto 8th running bill in six equal instalments and the interest will be recovered from 9th bill. In any case, the mobilisation 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 three 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 60 days after the expiry of Defects Liability Period. 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 judgement 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;
- 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 representation 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 Labour Regulations

- 56.1** During continuance of the Contract, the Contractor and his sub-Contractors shall abide at all times by all existing labour enactments and rules made thereunder, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. (Salient features of some of the major labour laws that

are applicable to construction industry are given 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 thereunder, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the 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 work 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 (11 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 Employer is [Cl.1.1 of ITB]
Chief Engineer (NH), PWD, Rajasthan Jaipur
Name of authorized Representative: Superintending Engineer PWD NH Circle Bikaner
2. The Engineer is [Clause 1.1 of GCC]
Designation: Executive Engineer NH Division Bikaner
Address: PWD NH Division Bikaner-334001(Rajasthan) [Cl.1.1]
3. The Intended Completion Date for the whole of the **Works is 6 months** from Start Date [Cl.1.1, 17&26 of GCC]
4. The Site is located at Suratgarh- Sriganganagar on NH-62 section from km 173.00 to km 250.900 (length 77.900 km) in the state of Rajasthan [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 Short Term Maintenance Contract (STMC) for Suratgarh-Sriganganagar section of NH-62 from Km 173/00 to 250/900 in the State of Rajasthan.

The Works consist of executing the item as mentioned in the BOQ. [Cl. 1.1 of ITB]
7. (a) The law which applies to the Contract is the law of Union of India. [Cl.3.1 of GCC]
(b) The language of the Contract documents is English [Cl.3.1 of GCC]
8. The limit of subcontracting is NIL of initial contract price [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	Degree in Civil Engineering	5 years as Project Manager on Highway, Bridge construction/ Maintenance works	1
2.	Site Engineer-cum-Surveyor Engineer-cum- Material Engineer	Degree 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 Auditor Certificate from appropriate approved govt. agency	5 years experience	3 days in every month

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]**
 - a) Rupees equivalent to Contract Price.
 - b) Rupees equivalent to 5% of Contract Price.
 - c) Rupees equivalent to 5% of Contract Price
 - d) Rupees 20 lakhs for multiple incidents.

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 **[Cl 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. **[Cl.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 12 months for periodic renewal and other improvement works executed (if any) **[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 [-----] lac. **[Cl. 52.2 of GCC]**

21. No price adjustment shall be payable.

22. The Engineer-in-Charge shall verify the attendance of Technical Personnel mentioned in the contract document, and verified attendance shall be submitted along with the monthly Bill. In case of unauthorized absence of any Technical Personnel, then Rs. 1000/- per person per day shall be deducted as penalty from the monthly Bill.

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 (10 percent or 8.33 percent). The benefits payable under the Act are:
 - i) Pension or family pension on retirement or death as the case may be.
 - ii) Deposit linked insurance on the death in harness of the worker.
 - iii) Payment of P.F. accumulation on retirement/death etc.
- d) **Maternity Benefit Act, 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 up to the prescribed amount of wages, calculated in the prescribed manner. The Act does not apply

to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.

- j) **Industrial Disputes Act, 1947:** The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- k) **Industrial Employment (Standing Orders) Act, 1946:** It is applicable to all establishments employing 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 workmen 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 up to the establishment and back etc.
- o) **The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 and the Cess Act of 1996:** All the establishments who carry on any building or other construction work and 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 hereinafter shall comprise of the following:

PART-I : Road Maintenance Standards

PART-II : Specifications for Road Maintenance Works

Carbon foot prints shall be evaluated during the execution of project. If approved by the Employer, the environment friendly machinery like Infrared Recycling Road Maintenance as approved by CRRI/IRC/MoRTH shall be got deployed.

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 hereinbelow.

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
(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 300sq 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

Providing road patrols and surveillance, automobile assistance, tow away cranes and ambulance services as per maintenance standard	To reach the incident spot within 30 minutes of occurrence	Route Patrol Regular patrolling at least once in four hours for entire length of the highway	Removal of accidented vehicles within 4 hours after Police Inspection Removal of dead animals/ birds and burying at suitable location within two hour. Accident relief measures within 30 minutes of occurrence.	As per maintenance standard under Sub Clause 2.2
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~~2.2 Providing road patrols and surveillance, automobile assistance, tow away cranes and ambulance services (Incident Management)~~

- i) ~~The Contractor shall set up 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 carriageway and bury them at a suitable location as directed by the Engineer/Employer within two hours of the incident and accident vehicles/Debris within 4 hours 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 such incident.~~

~~The Route Patrol Vehicle, Ambulance and Crane shall be equipped (for 24 x7 period and 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 unauthorized parking, public transport vehicles, obstructing traffic during passenger loading and unloading, debris, stray animals and the like. The operator shall take the necessary measures to remove such obstructions.~~
- ~~▪ Provide emergency management at accident scenes until such time as the appropriate authorities arrive.~~
- ~~▪ Assist with the removal of damaged or mechanically impaired vehicles from the highway.~~
- ~~• 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.~~

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 name and emblem painted prominently on sides, back and front, together with the control centre 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 1 no.~~
- ~~b) Gas cutter with protective glass (2 Nos.)~~
- ~~c) 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 2 nos.~~
- ~~f) Gum boot 4 pair, Rain coat 4 pairs, Blanket 1.~~
- ~~g) Torch lights 4nos. Spare Batteries, Flashing light 1 no.~~
- ~~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) ~~Diamond cutter and chain saw (for cutting metal, reinforced concrete and wood) crow~~
- l) ~~bar (16")~~
- m) ~~Digital Camera, measuring tape~~
- n) ~~Paper pad, Forms, pen/pencils, folders.~~
- o) ~~First aid kit, Rain Coat, water proof sheets, stretchers (two numbers)~~
- p) ~~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) 3 nos. " keep left/right - 2 nos. (all signs 1200 mm size and of retro reflective type (high Intensity grade)~~
- b) ~~Sign stand set (one for triangular and other for circular sign) 6 sets~~
- c) ~~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 road 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 Centre 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~~
- c) ~~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.~~
- c) ~~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 carriageway condition of drainage, ROW plantations, median plantation etc.
- i) Check on Encroachment irregularities taking place within ROW, and prevent unauthorized 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 jackets having 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.

iv) Ambulance

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 vehicle shall run minimum 5 km 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, water proof ply board vinyl 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 220V AC 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 (ambu bag, 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	4
Nursing staff with knowledge of first aid	4
Driver for ambulance	4

~~Number of Ambulance shall be provided as given in BoQ.~~

~~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 Contractor must employ following manpower 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~~

- ~~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

The broad scope of maintenance work is as under: -

- a. Providing laying and compacting Bituminous Concrete for filling of Potholes
- b. Providing and laying granular sub-base material for shoulder repair
- c. Providing and laying BC & DBM for patch repair works & maintenance work on selected stretches
- d. Providing and laying Thermoplastic Road marking
- e. Providing and fixing Road Signage etc.

3.1 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.

3.2 Maintenance standards for “carrying out cleaning, removing of dust/silt/thrash from carriageway.

- i) However, width of carriageway to be kept clean as per BOQ provision is up to ROW, it includes;
 - a) Total width of carriageway (LHS + RHS) including median width.
 - b) Width of service roads (LHS + RHS) wherever service roads are in existence.
 - c) Width of all structures such as flyovers, major bridges, minor bridges, culverts, subways, etc.
- ii) For cleaning of carriageway, the Contractor shall deploy mechanical broomer with tractor. Contractor shall maintain log book of this mechanical broomer and submit the Xerox of this along with statement of work done.

3.3 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.

3.4 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 filler and supporting structures shall be painted with first quality enamel paint in two or more coats.

3.5 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.

3.6 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 the carriageway and the earthen shoulder le threshold shall be removed through 1V 4H wedge or any other suitable method with proper watering/compaction at OMC.

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

- 2.1 The Contractor shall take all necessary measures and make arrangements for the safety during construction in accordance with the requirements of **Clause 112** of MoRTH Specifications. 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 carriageway, a 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 stockpiles 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

AND MAINTENANCE PROGRAMME

SECTION-8

1. Drawing and Schedule of Drawings:

All the drawings as and when required by the authority is to be furnished by the contractor and get it duly approved before execution of the work.

2. Maintenance Programme

Planning The maintenance programme planning shall be in two stages

- a. First Stage: Within 30 days of issuance of Letter of Commencement by the Employer. Contractor & Engineer shall identify the activities of Maintenance, which shall have to be taken up immediately who check the further deterioration of paved and unpaved surface of carriageway separately. To identify these activities formal field inspection shall be carried out by technical staff of Contractor & Engineer. A management meeting shall then be called within 7 (seven) days of inspection to scrutinize the identified works and then these works shall be quantified. Engineer shall then issue indent to contractor for execution of these works at different locations, amount of works calculated on the basis of the unit rates quoted by contractor and date of completion. This part of work shall certainly be commenced not later than stipulated date of commencement.
- b. Finalization of maintenance programme: This activity shall begin with the stipulated date of commencement. The various steps proposed to be taken under this are as under:
 - i. To carry out present state inspection of entire stretch of High way by Contractor & Engineer.
 - ii. To identify defects as per various available engineering characteristics of road. The extent of defects shall be recorded in forms finalized in consultation with authority for paved road, unpaved road and structure/furniture. All Defects with its extent shall be assessed in terms of length & area of the subsection, mentioning chainage (locations) in order to have exact estimate of work.
 - iii. A comprehensive documentation shall be prepared by Contractor in consultation with engineer mentioning their assessment of various types of defects in each km of road.
 - iv. Management meetings shall be called within 15days of inspection to finalize and then to quantify the defects, This shall be followed by identification of particular maintenance work proposed to be carried out at site to make good the defects noted above, out of various alternatives available in BOQ.

3. Work Scheduling

The maintenance and rehabilitation work of road is of unpredictable nature so quantities

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

4. Work Control & Quality Assurance

The Engineer shall adopt random sampling procedures to ensure quality control. Engineer shall carry out in-process inspections and end product inspections to collect sample and shall carry out testing in order to determine the degree of adherence to the maintenance standards of delivered or constructed material. Any testing / checking of works by Engineer shall not absolve the contractor from his responsibility to execute works strictly in accordance of MoRTH / IRC /IS specifications or laid down standards in bid document. A quality control laboratory equipped with all instruments required to perform tests as indicated in MoRTH/ IRC/ IS specifications at frequency mentioned therein shall have to be provided by the contractor. Contractor shall ensure that testing of all material delivered or constructed is regularly carried out by his field staff as per standard norms and results of these tests are recorded in specified manner and made available to Engineer whenever required by him. The contractor shall provide the QC laboratory, as incidental to work and no separate payment shall be made for this item. The QC lab shall also be made available to Engineer for conducting tests of his own. In-process inspections shall be carried out by the Engineer to witness and/or to verify the quality/quantity of work, when activity is in process with aim to judge justification of payment. Engineer shall carry out end product inspections after completion of the activity to provide satisfactory evidence about acceptability of the contractors work. The results of in process inspections, end product inspections and quality control tests shall form basis of acceptance of completed works and issuance of Non Conformance Report (NCR). Items of Works or unit of material or the end product do not meet the specifications/ standards shall be identified by "Non-Conformance-Report" and can become basis of rejection of work on establishing the authorized disposition. Non Conformance Report: Defective or uncompleted work shall not be paid. Such work shall also be notified to the Contractor within 10 days of submission of bill through non- conformance report (NCR). The NCR shall clearly identify the item of work that is non-conforming either to specification or to a specific requirement in the contract document. Once NCR is identified, it shall be evaluated and of the dispositions would be established. a. "Do" Identifies the work which has not been done at all at site within specified time limit. An NCR issued with "Do" disposition for the work should immediately be undertaken by contractor. b. "Re-Do" Identified the work that is non-conforming of all quality aspects. Such works be totally removed & redone. c. "Re-work" Requires part of particular item identified in this category be reworked to bring it to the quality required. d. "Use-as-is" Applied where Engineer accepts work "as-is" notwithstanding the fact that it does not exactly conform to the contract requirements. This work shall be accepted only for agreed reduced rates with respect to unit rates quoted in financial bid by the contractor otherwise shall be re-classified under

disposition “Do” or “Re-Do”.

5. Payment Procedures

The contractor shall submit to the Engineer after the end of each month bill in two copies, each signed by authorized contractor’s representative in standard format, showing the amounts to which the contractor considered himself to be entitled upto the end of the month. These bills should be prepared each indent wise. • The Engineer after scrutiny of the bills shall certify and recommend the payments for completed accepted works within 14 days of presentation of bill to him to the employer subject to deductions as per bid documents. • The employer shall pay the amount due to the Contractor under certificate and recommendations by the Engineer with in 28 days after it has been delivered to the Employer.

Photographs of maintenance work shall be submitted during the submission of monthly statements of the value of the work executed.

6. Records & Documentation

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

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

SECTION-9

FINANCIAL BID FORM AND BILL OF QUANTITIES

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FINANCIAL BID FORM

To

(Authorized Representative of Employer)

DESCRIPTION OF WORKS: BID FOR (Name of work)

Reference letter No.

Dear Sir,

Having examined the site of works and Bid Documents, comprising Instructions to Bidders, Scope of Works, Conditions of Contract, Technical Specifications, Bill of Quantities and schedules for the execution of the above-named works, we, the undersigned offer to execute and complete such works and remedy any defects therein in conformity with the said bid documents 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, but without prejudice to your right to withdraw such acceptance without assigning any reasons thereof.
7. We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this _____ day of _____ 20----

Signature _____ in the capacity of _____ duly authorized**

To Sign Bid for and on behalf of

(in block capital letters)

Address: _____

Signature of Witness _____

Name of witness _____

Address of witness _____

**DESCRIPTION OF WORKS:
FINANCIAL BID**

S. No.	Description	Amount
1	BILL NO. 1: Bituminous Work	2,41,86,889.83
2	BILL NO. 2: Shoulder Maintenance and Miscellaneous Works	20,64,955.93
3	BILL NO. 3: Road furniture Work	16,781,155.93
	Total Amount (Excluding GST)	4,30,33,001.69
	I/We agree to execute the above works on the tender premium _____% above/ below the Grand Total of the project cost as given above.	

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 rate 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 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.
- iii) 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.
- iv) Payment for performance-based activities like maintenance of median and existing plants (Item no. 2.1), treatment and repair of pot holes/ruts (Item no. 3.1) and providing route patrol and surveillance, automobile assistance, tow away cranes and ambulance services (Item no. 3.2) shall be indexed on performance scale of 100 marks as given in Table below:
:

Brief Description	Weightage for performance rating	Remarks
Providing treatment and repair to pot holes/ruts	To be assessed km wise during bi-monthly inspection as per road Maintenance Standards indicated in Clause 2.1	Performance measurement to be assessed based on road maintained as per standards as a proportion of total project length

- v) Performance assessment for performance based items of work, shall be done through inspection by the Engineer at least two times during the month and overall rating can be done on the basis of average of assessments made during the inspection
- vi) The Contractor shall submit at least once in two months video recording of condition of the Project Highway with special emphasis on performance based items.
- vii) For performance based items of work, the Contractor shall be entitled for receiving payment proportionate to the average percentage performance assessed for achievement between 80% to 100%
- viii) The Contractor shall submit at least once in two months video recording of condition of the Project Highway with special emphasis on performance based items.
- ix) A rate or price shall be entered as a single rate as Tender Premium % above/below on the

rate/amount in the BOQ.

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.

BILL OF QUANTITIES

BILL NO. 1: BITUMINOUS WORK					
S. No.	Item	Qty.	Rate	Unit	Amount
1	Milling of distress bitumenous layer upto 70mm depth in a single pass with suitable milling machine (capable of milling @ 200&300 sqm of area per hr) fitted with loading conveyer of loading the filled material directly on the trucks i/c hauling and stock pilling the reclaiming to bring to required specification to reuse with the approval of engineer - in - charge for safe disposal; with all leads and lifts complete in all respect as directly by Engineer - in- charge. *Note : The unutilized quality of reclaimed bituminous mix material shall be recovered.	27000	27	sqm	₹ 7,29,000.00
2	Recovery of material obtained from dismantling of existing bituminous layer has been calculated taking assumption that 80 % of the theoretical material will be retrieved.The dismantling material can be used in any other item for the work after modification (bringing it to required specification) after approval from the employer. In case it is not possible to use this material on the work, the agency can takeaway this material. Assuming recovery of 50% residue of Bitumen.	1650	-1319	Cum	-₹ 2,176,350.00
3	Providing and applying tack coat on the prepared surface, with bitumen emulsion RS-1 as per IS : 8887 & manufacturer's specifications @ 2 kg /10sqm. With a self propelled or towed bitumen pressure sprayer equipped for spraying the material uniformly at specified rates and temperatures as per MoRTH specification Clause 503 & 112 (Including cleaning of bituminous road surface)				
	Add extra to item No. 5.2 for 1Kg / 10 Sqm emulsion	27000	13.200	SQM	₹ 3,56,400.00
4	Providing and laying Dense Bituminous Macadam on prepared surface with specified graded crushed aggregates as per table 500-8 & 500-10 and design mix for base/binder course including loading of material with Front end loader, heating of binder (including cost of anti-stripping compound wherever required) aggregate and filler as per table 500-9, in hot mix plant More than 60-90 TPH, transporting the mixed material by tippers and laying with sensor paver finisher as per clause 505.3.5 to the required level and grade rolling by self propelled power rollers and vibratory rollers or pneumatic				

	tyred roller 150-250KN. TP=0.7MPa to achieve the desired density (approved by the department) but excluding cost of primer/tack coat. [MoRTH Specification : Clause 505 & 112] with all leads Grading II (26.5mm nominal size) - Bitumen @ minimum 4.5% of mix using VG 40 (thickness 50 - 75 mm)				
	10% FOR POT HOLES FOR AREA IN ITEM NO. 1	950.00	8083.00	cum	₹ 7,678,850.00
5	Providing and laying bituminous concrete as per design mix on prepared surface with specified graded stone as per table 500-16 & 500-17 for wearing course including loading of aggregate with Front end loader and hot mixing of binder (including cost of anti-stripping compound, wherever required) and filler as per table 500-9 with aggregates in hot mix plant More than 60-90 TPH Transporting the mix material with tipper and laying with sensor paver finisher (as per clause 507.3.5) to the required level , grades and rolling with vibratory compactor and pneumatic tyred roller 150-250 KN,TP=0.7 Mpa, to achieve the desired density (approved by the department) excluding cost of primer/tack coat (MoRTH Specification : Clause -507 & 112) with all lead.VG 40 Grade				
	VG 40 Grade	1080	9416.00	cum	₹ 10,169,280.00
6	Filling pot-holes and patch repairs with bituminous concrete, 40 mm with removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides and base of excavation as per Clause 503 back filling the pot holes with hot bituminous material using 60/70 grade bitumen @ 5.0% of total mix & mixed in hot mix plant 40-60 TPH capacity and carriage with all leads as per clause 509, compacting with smooth wheel roller 8-10 tonne, trimming & finishing the surface to form a smooth continuous surface, all as per MoRTH specification Clause 3004.2	25450	463	Sqm	₹ 11,783,350.00
TOTAL FOR BILL NO. 1 (Including GST)					₹ 2,85,40,530.00
TOTAL FOR BILL NO. 1 (Excluding GST)					₹ 2,41,86,889.83

BILL OF QUANTITIES

BILL NO. 2: SHOULDER MAINTENANCE AND MISCELLANEOUS WORKS					
S. No.	Item	Qty.	Rate	Unit	Amount
1.	Providing and laying granular sub-base material having P.I. not more than 6 including spreading in layers not exceeding 150 mm compacted thickness and consolidation by 8-10 tonne power roller to required camber and grade including cost of water and hire charges of machinery including T&P with all lead (Compacted thickness to be measured).as per MoRTH specification table 400-1, 400-2, For Grading VI Material				
		2325.00	814	Cum	₹ 18,92,550.00
2.	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material up to a lead of 1000m including removal and disposal of top organic soil not exceeding in 150 mm thickness as per MoRTH specification clause 201				
	By Mechanical Means In Area of Light Jungle	37.75	13721	Ha.	₹ 5,17,967.75
3.	Clearing slab/box type culvert and pipe culvert including clearing, cleaning and reshaping of upstream and downstream phases of these culvert with in right of way. 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 direction in charge (frequency of cleaning will be one time in a year i.e. before start of monsoon).: Slab/box type culvert				
		15	1742	Nos.	₹ 26,130.00
TOTAL FOR BILL NO. 2 (Including GST)					₹ 24,36,648.00
TOTAL FOR BILL NO. 2 (Excluding GST)					₹ 20,64,955.93

BILL NO. 3: ROAD FURNITURE WORK					
S. No.	Item	Qty.	Rate	Unit	Amount
1.	S&F cement concrete precast Kerb or Dand upto 60cm length over 20mm thick base of cement mortar 1:4 including jointing earthwork, pointing & jointing with cement mortar 1:4 of size Including cost of M- 20 Mix Dand/Kerb Complete 10 x 15 Cm	323.30	134	Rmt	₹ 43,322.20
2.	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing				
	90 cm equilateral triangle	10	5237	Nos.	₹ 52,370.00
3	80 mm x 60 mm rectangular	10	6386	Nos.	₹ 63,860.00
4	90 cm high octagon	10	8083	Nos.	₹ 80,830.00
5	Supplying of Cat's Eye made of aluminum alloy size 75x100x22mm having 21biconvex lenses embedded in circular disc of ABS plastic on each side.	1500	245	Nos.	₹ 367,500.00
6	Labour charges for fixing of Cat's Eye as per MoRTH specification excluding cost of Cat's Eye.	1500	10.60	Nos.	₹ 15,900.00
7	Fixing of sign board having two posts including excavation cement concrete 1:5:10(30X30X60 cms.) and transportation complete of size. :60x75 cm, 90x60 cm, 75x45 cm, & 60x45 cm.	20	636	Nos.	₹ 12,720.00
8	P & F Delineator with 15cm. outer dia RCC Hume pipe NP 2(Asper IS-458/1971) pipe1.0 M. Long 40cm embedded in cement concrete (1:2:4) block of size 50x50x40 cm. including excavation upto 40cm depth.The inside of pipe shall be filled with C.C. (1:2:4) stone grit max size 20mm or less up to the top with semicircular humping. The pipe shall be painted white/black with enamel paint with red dots two Nos. on each side	100	376	Nos	₹ 37,600.00
9	Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre	30	4884	Rmt.	₹ 146,520.00

BILL OF QUANTITIES

	to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810				
10	Supply of Chevron sign of size 75x60 cm made out of aluminum sheet 2 mm thick with fixing provision on M.S. angle iron post 50x50x6 mm 3 M long screwed with stainless steel nut bolts of 8 M dia, plate is covered by high intensity grade yellow retro-reflective sheeting and black screen printed arrow on Retro Reflective Sheet, complete in all respect. Comp. in all respect duly post painted in alternate band of Black/White synthetic enamel paint & hold fast at bottom	20	6604	Each	₹ 132,080.00
11	Providing and laying marking of center line and stop line etc with hot thermoplastic compound of approved quality with type 1 glass beads (Table-800-9), 2.5 mm thick on road/plain surface, without type 2 glass beads with special applicator machine, as per IRC 35 including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control involved. The finished surface to be level, uniform and free from streaks and holes as per clause 803 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion	27361.5	685	Sqm	₹ 18,742,627.50
12	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches, stacking the excavated soil 3m. Clear from the edge of excavation and subsequent filling around Hume pipes/masonry in 15cm. Layers with compaction including disposal of all surplus soil, as directed within a lead of 1000 meters.[MoRTH Specification : Clause 301,304]. In ordinary soil [MoRTH Specification : clause 301] BY MECHANICAL MEANS, Depth upto 3m	45	74	Cum	₹ 3,330.00
13	PCC 1:3:6 in Foundation (Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.)Item No.12.4	3.75	3880	Cum	₹ 14,550.00

14	Cement concrete for plain/reinforced concrete in open foundation as per drawing and technical specification. [MoRTH Specification: Section 1700(N)&1500(N)]. Using Batching Plant, Transit Mixture, and Concrete Pump. RCC M-20	13.49	4847	Cum	₹ 65,386.03
15	Steel reinforcement in substructure complete. [MoRTH Specification: Section 1600(N)] HYSD	0.32	72402	M.T.	₹ 23,168.64
TOTAL FOR BILL NO. 3 (Including GST)					₹ 19,801,764.00
TOTAL FOR BILL NO. 3 (Excluding GST)					₹ 16,781,155.93