

Tender No. NEPPL/FY25-26/RFP/Rigid Pavement Repair & Rehabilitation– RKJL

Request for Proposal (“RFP”) issued by NHIT Eastern Projects Private Limited (NEPPL) for Engagement of Agency/Firm for Rigid Pavement Repair & Rehabilitation work for Rewa Katni Jabalpur Lakhnadon Road Project (RKJL) in the state of Madhya Pradesh.

BID SUMMARY		
(i)	Last date and time for receipt of Bidding Documents	11 th August 2025 up to 17:00 Hour
(ii)	Date and Time of Opening of Bids	11 th August 2025 up to 18:00 Hour
(iii)	Place of Opening of Bids	Unit No.: 324, 3rd Floor, D21 – Corporate Park, Sector21, Dwarka–110077, New Delhi.

Note: – Bids will be opened in the presence of bidders who choose to attend as above.

NHIT Eastern Projects Private Limited

Unit No.: 324, 3rd Floor, D21 – Corporate Park,
Sector-21, Dwarka –110077, Delhi

Email: tender@nhit.co.in

Date: 28.07.2025

National Highways Infra Trust



Request for Proposal for Pavement Repair & Rehabilitation at RKJL

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Disclaimer

The information contained in this Request for Proposal ("RFP") or subsequently provided to Bidder(s), in documentary or any other form, by or on behalf of **NHIT**, or by any authorized person(s), is provided to the interested parties on the terms and conditions set out in this RFP and any other terms and conditions under which such information is provided.

This RFP is not an agreement, offer, or invitation by **NHIT** to any interested parties. Its purpose is solely to provide Bidders with relevant information to assist them in preparing and submitting their proposals ("Proposal" or "Bid") for selection as a vendor for **NHIT** under the specified norms.

NHIT makes no representation or warranty and shall not be liable to any Bidder or other person to the fullest extent permissible under applicable laws for any loss, damage, cost, or expense arising from reliance on this RFP or any related process. This includes any inaccuracies, omissions, assumptions, or assessments made based on the information provided.

Each Bidder warrants that the information it provides to **NHIT** in its Proposal and during the bidding process is accurate and complete to the best of its knowledge and belief. The Bidder further indemnifies and holds **NHIT** harmless from any claims, liabilities, or expenses arising from errors, defaults, or non-compliance with applicable laws by the Bidder, including the submission of inaccurate statutory forms or documents.

The issuance of this RFP does not commit **NHIT** to accept any Proposal, award any contract, or enter into any agreement. **NHIT** reserves the right to amend, modify, or annul the bidding process at any time prior to the issuance of a Letter of Award/Work Order, without incurring any liability or obligation to any Bidder.

NHIT reserves the right to withdraw, cancel, or terminate this RFP process at any stage, including after the receipt of Proposals, without assigning any reason and without any obligation to proceed with the tender. In the event that no contract is awarded, **NHIT** shall not be liable for any claims, expenses, or losses incurred by any Bidder in connection with the preparation and submission of their Proposal. Bidders shall have no right to seek any form of relief, compensation, or damages from **NHIT**, whether in contract, tort, or otherwise, in relation to the cancellation or non-award of this RFP.

All costs associated with the preparation and submission of Proposals, including any demonstrations, presentations, or related expenses, shall be borne solely by the Bidder. Under no circumstances shall **NHIT** be liable for such costs, regardless of the conduct or outcome of this RFP process.

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1. Invitation for Bids (IFB)

1.1. Brief Overview of the Work under Consideration

The scope and details of the work under consideration are provided in the Contract Data Sheet. Bidders are advised to refer to it for further information.

1.2. Key Dates

The key dates related to this RFP, including submission deadlines and evaluation timelines, and their respective locations and modes, are provided in the Contract Data Sheet. Bidders are advised to refer to it for further information.

Event Description	Date & Time	Location / Mode
Invitation of RFP		
Last date of Receiving Queries / Clarifications		
Pre-Bid Meeting date		
Pre-Bid meeting Venue		
Client's response to queries / Clarifications		
Last date of Bid Submission		
Physical Submission of Bid Security / POA etc.		
Opening of Technical Bid		
Declaration of Eligible / Qualified bidders		
Opening of Financial Bid		
Letter of Award		
Validity of bids		
Signing of Agreement		

1.3. Eligibility Criteria (Summary)

The eligibility criteria for this bid are specified in Clause 3 (Eligibility and Qualification Criteria) of this RFP. Bidders are required to meet all the technical, financial, and legal requirements outlined therein.

For complete details, bidders must refer to Clause 3.

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1.4. Contact Information

Contact Person	Designation	Contact Number	Email Address

In case of any change in the Contractor's contact details, constitution, or organizational hierarchy, they shall immediately notify the Client.

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2. Instructions to Bidders (ITB)

2.1. Definitions and Interpretations

The following terms, unless repugnant to the context, shall have the meanings assigned hereunder. All definitions are listed alphabetically:

Term	Definition
Addendum	shall mean any written clarification, revision, amendment, or modification issued by the Client to the RFP before the bid submission deadline , which forms an integral part of the RFP document . An Addendum is intended to address queries, provide additional information, or make necessary changes to the bidding requirements, and all Bidders shall be required to consider it in their Bid submissions.
Agreement	Shall mean the legally binding contract executed between the Client and the Contractor for providing services related to road construction and maintenance projects. It includes the General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Annexures, Letter of Award (LoA), schedules, and any mutually agreed amendments or modifications. The Agreement defines the roles, responsibilities, deliverables, timelines, and performance standards expected of the Contractor and governs the contractual relationship between the parties in accordance with applicable laws, regulations, and standards, including those specified by the Ministry of Road Transport and Highways (MoRTH) and other relevant authorities.
Annexures	shall mean the documents, schedules, drawings, specifications, and any other supplementary material attached to or referenced in this RFP. These Annexures form an integral part of the RFP and, once the Contract is awarded, shall be binding on the Contractor.
Authority	Shall mean the National Highways Authority of India (NHAI) or its authorized representative.
Bank Guarantee	Shall mean a written guarantee issued by a bank, on behalf of the Contractor, to secure the performance or payment obligations under the contract, ensuring that the bank will fulfil the financial commitments in the event of the Contractor's failure to perform as per the terms and conditions of the contract.
Bid	shall mean the formal offer submitted by a Bidder in response to the Request for Proposal (RFP), comprising all required documents, technical and financial proposals, declarations, and any other information stipulated in the bidding documents. A Bid represents the Bidder's commitment to execute the works or services as per the

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Term	Definition
	terms, conditions, and specifications outlined in the Contract, subject to acceptance by NHIT.
Bid Due Date	Shall mean the last date and time specified for submission of Bids in the RFP.
Bid Security	shall mean the financial guarantee furnished by a Bidder in the form of a Bank Guarantee, Demand Draft, or any other approved instrument , as specified in the RFP, to secure the Bidder's commitment to the bidding process. It ensures that the Bid remains valid and that the Bidder complies with all requirements outlined in the bidding documents. The terms governing the submission, validity, and forfeiture of the Bid Security shall be as stipulated in the RFP and Contract.
Bidder	shall mean any individual, firm, company, joint venture (JV), or consortium that submits a Bid in response to the Request for Proposal (RFP). The Bidder must meet the eligibility criteria specified in the RFP and shall be responsible for complying with all terms, conditions, and obligations outlined in the bidding documents.
Bidding Process	shall mean the entire sequence of activities undertaken by NHIT for the selection of a Contractor, Supplier, or Service Provider, starting from the issuance of the Request for Proposal (RFP) until the final award of the Contract. This includes, but is not limited to, the issuance of bidding documents, pre-bid meetings, submission and evaluation of bids, clarifications, negotiations (if applicable), selection of the successful bidder, and issuance of the Letter of Award (LOA).
Client / Employer	Shall refer to NHIT and its subsidiaries, incorporated under the Companies Act, along with their legal successors, assignees, and authorized officers, who are entitled to the rights and remedies as outlined in the Contract.
Confidential Confidentiality	/ shall mean any information, document, data, or communication, whether disclosed in writing, verbally, electronically, or by any other means, that is designated as confidential or that, by its nature, should reasonably be considered confidential. This includes, but is not limited to, technical data, trade secrets, financial information, proprietary methodologies, business strategies, project details, and any information shared during the bidding or contract execution process. Confidentiality requires that such information shall not be disclosed, reproduced, shared, or used for any purpose other than its intended use under the Contract, except with the prior written consent of the Client or as required by law. The obligation of confidentiality shall

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Term	Definition
Construction Works	remain in effect throughout the bidding process, contract duration, and for a specified period, thereafter, as defined in the Contract. shall mean all activities covered under this Contract, including Road Construction, Periodic Maintenance, Routine Maintenance, Electrical Works, and Electrical Maintenance. It encompasses the development, widening, strengthening, and new construction of highways, bridges, culverts, embankments, and associated infrastructure. It also includes periodic maintenance activities such as resurfacing, overlays, rejuvenation treatments, and structural rehabilitation to ensure the longevity of road assets. Routine maintenance obligations, including pothole patching, crack sealing, drainage cleaning, shoulder repairs, and signage upkeep, form an integral part of Construction Works to maintain operational efficiency and road safety. Additionally, Construction Works extend to electrical infrastructure, covering the installation, testing, commissioning, servicing, and maintenance of street lighting systems, transformers, power supply networks, and associated electrical components to ensure continuous functionality. For the purposes of this RFP, Construction Works shall exclude ATMS (Advanced Traffic Management System) and TMS (Traffic Management System), which shall be governed under a separate contractual framework.
Contract	shall mean the legally binding agreement executed between NHIT and the selected Contractor for the execution of works, supply of goods, or provision of services as specified in the bidding documents. The Contract shall include the Letter of Award (LOA), General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Contract Data, Scope of Work, Technical Specifications, Bill of Quantities (BoQ), and any other documents forming part of the agreement, along with all amendments, addendums, and modifications issued thereafter.
Contract Price	shall mean the total amount payable to the Contractor by NHIT for the execution of the works, supply of goods, or provision of services as specified in the Contract. The Contract Price shall be as stated in the Letter of Award (LOA) and shall be subject to adjustments, variations, deductions, or additions in accordance with the terms and conditions of the Contract, including approved change orders, price variations, and applicable taxes as per the governing law.
Contractor	shall mean the Successful Bidder to whom the Contract has been awarded by NHIT for the execution of the works, supply of goods, or provision of services as per the terms and conditions of the Contract. The term shall include the Contractor's legal successors, permitted

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Term	Definition
	assigns, subcontractors, or agents engaged in the performance of the Contract, subject to the approval of NHIT where required.
Day	Shall mean a calendar day unless otherwise specified.
Default	shall mean any failure, omission, or non-performance by the Contractor in fulfilling its contractual obligations, whether due to negligence, wilful misconduct, or inability to comply with the terms and conditions of the Contract. This includes, but is not limited to, failure to execute the works as per agreed specifications and timelines, non-compliance with statutory and regulatory requirements, defective or substandard work, breach of financial obligations, or any act that compromises the safety, quality, or serviceability of the road construction and maintenance works.
Defect Liability Period	shall mean the specified period commencing from the date of completion and acceptance of the works by NHIT, during which the Contractor is responsible for rectifying any defects, deficiencies, or faults arising due to defective materials, workmanship, or non-compliance with the Contract specifications. The Contractor shall carry out all necessary repairs, replacements, or corrections at no additional cost to NHIT within the timeframe stipulated in the Contract. The Defect Liability Period shall be as specified in the Contract Data and may be extended in case of delayed rectification or repeated defects.
Dispute	Dispute" shall mean any disagreement, conflict, claim, controversy, or difference of opinion arising between the Contractor and NHIT in connection with the interpretation, execution, performance, or enforcement of the Contract. This includes, but is not limited to, disputes related to scope of work, quality of execution, contractual obligations, payment issues, delays, penalties, variations, termination, or any other matter affecting the rights and obligations of the parties under the Contract.
Draft Contract Agreement	shall mean the preliminary version of the contractual document included in the RFP, which outlines the terms, conditions, obligations, rights, and responsibilities of both the Client and the Successful Bidder. The Draft Contract Agreement serves as the base document for finalizing the formal contract, subject to modifications, negotiations (if applicable), and execution upon award of the Contract.
Eligible Bidder	shall mean an individual, firm, company, joint venture (JV), or consortium that meets the eligibility criteria specified in the RFP, including but not limited to technical qualifications, financial capacity, legal compliance, and past experience. The Bidder must not be

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Term	Definition
	debarred, blacklisted, or disqualified by any government authority, regulatory body, NHAI, NHIT, or its subsidiaries. An Eligible Bidder shall comply with all requirements outlined in the bidding documents and shall be legally capable of entering into a contract with NHIT.
Letter of Acceptance (LoA)	shall mean the formal written communication issued by NHIT to the Successful Bidder , confirming the acceptance of their bid and awarding the Contract, subject to the fulfilment of any preconditions specified therein. The LOA shall constitute a binding commitment between NHIT and the Successful Bidder, requiring the execution of the formal Contract Agreement within the stipulated time. The issuance of the LOA does not, by itself, create a right to commence work unless expressly stated in the document.
Lowest Responsive Bid	shall mean the bid that offers the lowest price among those determined to be Responsive Bids , meeting all eligibility, technical, and financial criteria outlined in the RFP. The bid must also fulfil the qualification requirements specified in Clause 3 , ensuring that the bidder has the necessary technical capability, resources, and financial strength to execute the contract successfully. The determination of the Lowest Responsive Bid shall be made based on both price competitiveness and compliance with the overall workability and feasibility requirements set forth in the RFP.
Material Litigation	shall mean any legal dispute, claim, arbitration, or proceeding—whether pending, resolved, or threatened—that has or may have a significant impact on the Bidder's financial stability, technical capability, or ability to perform contractual obligations . Material Litigation includes cases where the claimed or potential liability exceeds a specified threshold (e.g., 10% of the Bidder's net worth or turnover , as defined in the RFP) or where the outcome could materially affect the Bidder's credibility, resources, or legal standing in contract execution.
NHIT	"National Highways Infra Trust (NHIT)" shall mean an irrevocable infrastructure trust set up by the National Highways Authority of India (NHAI) under the provisions of the Indian Trusts Act, 1882, and registered as an Infrastructure Investment Trust (InvIT) under the Securities and Exchange Board of India (Infrastructure Investment Trusts) Regulations, 2014 (SEBI InvIT Regulations) with registration number IN/InvIT/20-21/0014. NHIT, along with its Special Purpose Vehicles (SPVs) and subsidiaries, acts as the Client/Employer in this RFP and subsequent Contract. It is responsible for the development, operation, maintenance, and

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Term	Definition
	management of highway infrastructure projects and shall exercise all rights, obligations, and authority as specified in the bidding documents and the Contract. Wherever "NHIT" is mentioned in this RFP or the Contract, it shall be deemed to include NHIT, its SPVs, and its subsidiaries, all of whom shall act as the Client/Employer for the purposes of this agreement.
Notice to Proceed	shall mean the formal written instruction issued by the Client to the Contractor, authorizing the commencement of work in accordance with the terms, conditions, and timelines specified in the Contract. The issuance of the Notice to Proceed marks the official start of the Contractor's obligations under the Contract.
Overlapping Constituents	shall mean any situation where two or more Bidders share common ownership, management, key personnel, shareholders, parent companies, subsidiaries, affiliates, or any other controlling interests that may compromise the fairness, competitiveness, or integrity of the bidding process. This includes but is not limited to instances where entities have direct or indirect influence over each other's bidding decisions, access to each other's confidential information, or any arrangement that creates a conflict of interest.
Procuring Authority	shall mean the designated department, division, or official(s) within NHIT responsible for overseeing the procurement process, issuing the RFP, evaluating bids, and awarding contracts. This may include, but is not limited to, NHIT's Procurement Department, Project Department, or any other authorized entity delegated with such responsibilities under this RFP.
RFP	shall mean the official bidding document issued by the Client to invite proposals from eligible Bidders for the execution of specified works or services. The RFP includes all amendments, Addendum, Annexures, appendices, clarifications, and any other documents provided by the Client during the bidding process. It outlines the scope of work, eligibility criteria, bidding procedures, evaluation parameters, and contractual terms, serving as the foundation for bid preparation and contract formation.
Scope of Work	shall mean the comprehensive description of all activities, tasks, responsibilities, and deliverables that the Contractor is required to perform under the Contract. It includes, but is not limited to, the technical specifications, performance requirements, quality standards, timelines, and compliance obligations as defined in the RFP and its associated documents. The Scope of Work establishes the

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Term	Definition
	contractual expectations, execution methodology, and measurable outcomes for the successful completion of the project.
Statutory Auditor	shall mean a Chartered Accountant (CA) who is legally authorized and appointed under applicable laws and regulations to conduct statutory audits, financial verifications, and compliance assessments as required by governing authorities. A Statutory Chartered Accountant is responsible for certifying financial statements, ensuring regulatory compliance, and providing independent assurance on the financial health and operations of an entity. Their appointment, role, and responsibilities shall be in accordance with the applicable statutory provisions, including but not limited to the Companies Act, Income Tax Act, or any other relevant financial regulations.
Statutory Chartered Accountant	shall mean a Chartered Accountant (CA) who is legally authorized and appointed under applicable laws and regulations to conduct statutory audits, financial verifications, and compliance assessments as required by governing authorities. A Statutory Chartered Accountant is responsible for certifying financial statements, ensuring regulatory compliance, and providing independent assurance on the financial health and operations of an entity. Their appointment, role, and responsibilities shall be in accordance with the applicable statutory provisions, including but not limited to the Companies Act, Income Tax Act, or any other relevant financial regulations.
Responsive Bid	shall mean a bid that complies in all material aspects with the eligibility criteria, technical requirements, specifications, terms, and conditions of the Request for Proposal (RFP). A Responsive Bid must meet the submission requirements, including the correct form and format, and must not contain any material deviations or omissions.
Successful Bidder	shall mean the Bidder whose proposal has been evaluated as the most responsive and compliant with the requirements set forth in the RFP and has been formally accepted by the Client for the award of the Contract. The Successful Bidder is the entity that has met all technical, financial, and eligibility criteria and has been issued the Letter of Acceptance (LOA) or any other official communication confirming the contract award.
Technical Proposal	Shall mean the section of the Bid submitted by a Bidder that provides a detailed description of their technical approach, methodology, and plan for executing the Work. It includes but not limited to the information on the resources, timeline, and technical expertise to be applied in the project.

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Term	Definition
Terms of Reference (ToR)	shall mean the comprehensive framework outlining the objectives, scope, methodology, deliverables, performance standards, and reporting requirements that the Contractor must adhere to under the Contract. It defines the roles, responsibilities, and expectations of all stakeholders, ensuring alignment with technical, quality, compliance, and regulatory requirements as specified in the RFP and associated documents.
Work	Shall mean all activities, services, and deliverables to be performed by the Contractor as specified in the RFP. This includes, but is not limited to, the execution of tasks, provision of resources, and fulfilment of requirements outlined in the Scope of Work, regardless of the specific nature of the project.
Written Communication	Shall mean any correspondence exchanged in writing, which includes, but is not limited to, letters, emails, notices, memos, and any other forms of written documentation used for communication between the Client and the Contractor or among parties involved in the project.

2.2. Instructions to Bidders - General Instructions

2.2.1. Submission of Bids – Individual, Joint Venture or Consortium (Refer clause 5.3 of CDS)

2.2.1.1. Prohibition on Multiple Bid Submissions

A bidder shall submit only one bid for the same project, either as an individual entity or as part of a Joint Venture (JV) or Consortium, but not in both capacities.

A bidder participating as a member of a JV or Consortium shall not submit a separate bid as an individual entity or as a member of another JV/Consortium for the same project.

Any violation of this provision shall lead to immediate disqualification of all bids submitted by the bidder in any form.

2.2.1.2. Joint Venture and Consortium Participation

Bidders may form **Joint Ventures (JVs) or Consortiums** to submit bids, provided that:

- i. The JV/Consortium **appoints a Lead Member**, who shall be responsible for contractual obligations.
- ii. The members of the JV/Consortium **jointly and severally undertake** to fulfil the contract.
- iii. The composition of the JV/Consortium **shall not be altered** without prior approval from NHIT.

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2.2.1.3. Declaration of Agreements and Responsibilities

- i. All members of the JV/Consortium **must submit a legally binding agreement**, defining their roles, responsibilities, and financial commitments.
- ii. NHIT **reserves the right to request additional documentation** or conduct due diligence to verify the independence and capability of the bidding entities.

2.2.1.4. Restrictions on Subcontracting

- i. While JVs and Consortiums are permitted, **subcontracting key project obligations** to external entities **without prior approval** from NHIT shall not be allowed.
- ii. NHIT reserves the right to reject bids where subcontracting arrangements **undermine the bidder's core responsibilities**.

2.2.1.5. Disqualification for Non-Compliance

- i. Any bid **violating these provisions**—such as multiple submissions from the same entity under different capacities—**shall be rejected**.
- ii. Any false or misleading information regarding the JV/Consortium structure shall lead to **disqualification and possible legal action** by NHIT.

2.2.1.6. Conditional Permission for Joint Venture or Consortium Participation

Participation in the form of a Joint Venture (JV) or Consortium shall be permitted only in exceptional cases and strictly subject to prior written approval by NHIT Management. Such permission may be considered where:

- i. The project involves multidisciplinary expertise requiring collaboration of firms with distinct specializations; or
 - ii. The technical complexity or scale of the project warrants the pooling of resources and capabilities from multiple entities; or
 - iii. There is a demonstrable advantage to the project in terms of enhanced competition, quality, efficiency, or innovation, including scenarios where limited bidder participation necessitates collaborative bidding to ensure successful project delivery.
- Bidders seeking such participation must submit a formal request to NHIT along with justification, including roles of each proposed member and the benefit of joint participation.
 - NHIT reserves the right to evaluate the proposal on merit and its alignment with project objectives. The decision of NHIT shall be final and binding, and no claim or entitlement shall arise from the inclusion of this clause in the RFP

2.2.2. Power of Attorney (PoA) for Bidders

2.2.2.1. Requirement for PoA Submission

All bidders, whether **domestic (national) or international**, and whether **submitting bids individually, as part of a Joint Venture (JV), or as a Consortium**, must provide a

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valid Power of Attorney (PoA) authorizing the signatory to represent the bidder in all matters related to the submission of the bid and the execution of the contract if awarded.

2.2.2.2. Compliance with Local and Indian Laws

- i. The PoA should **adhere to the legal formalities and requirements of both the bidder's home country and India** to ensure its **validity and enforceability in legal proceedings**.
- ii. It must be prepared and validated in a manner that aligns with the **legal framework and authorities of the bidder's home country** and must be **duly recognized under Indian law** to be considered valid for the bidding process.

2.2.2.3. Attestation & Notarization Requirements

- i. If issued outside India, the PoA must be **duly notarized and attested by the appropriate authority**, including **consular authentication** where required, to ensure enforceability in India.
- ii. If issued within India, the PoA must be **executed on a non-judicial stamp paper of appropriate value** and duly notarized.

2.2.2.4. Reference for Other Clauses

Any requirement related to the authorization of the bidder's representative, legal authority, or signature verification in other sub-clauses shall **refer to this clause (2.2.2)** instead of repeating PoA requirements.

2.2.2.5. Non-Compliance & Disqualification

Failure to submit a valid PoA **as per the above requirements** shall result in **disqualification of the bidder or consortium** from the bidding process.

2.2.3. Notwithstanding anything to the contrary contained in this RFP, the detailed terms and conditions specified in the agreement, including but not limited to the General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Contract Data, Terms of Reference, Particular Conditions of Contract, Bill of Quantities (BoQ), and any other contract-related documents, shall have an overriding effect. In the event of any conflict or inconsistency between the terms in the RFP and those in the agreement, the provisions of the agreement shall prevail, unless specifically mentioned in the LOA. Any amendments or modifications to these terms shall be mutually agreed upon by the Client and the Contractor in writing.

2.2.4. Conflict of Interest

2.2.4.1. Bidders shall at all times provide professional, objective, and impartial advice, prioritizing the interests of the NHIT Entities above all else. Bidders must avoid conflicts with other assignments or their own corporate interests, ensuring their actions are free from any considerations of future work opportunities. Under no circumstances shall two Bidders have **overlapping constituents**, nor shall any arrangement exist whereby a third-party gains access to the confidential information of another Bidder.

2.2.4.2. Bidders must sign a Non-Disclosure Agreement (NDA) with NHIT post issuance of the Letter of Award (LOA), should NHIT deem it necessary.

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- 2.2.4.3.** Bidders are required to disclose any existing relationships or engagements with NHIT, its affiliates, or other stakeholders that could potentially lead to a conflict of interest. Such disclosures must be made in writing at the time of bid submission and updated promptly if any changes occur during the bidding process or execution of the contract.
- 2.2.4.4.** Any conflict of interest discovered during the execution of the contract must be immediately reported to NHIT. Failure to disclose such conflicts may result in penalties, including termination of the contract and disqualification from future bidding processes.
- 2.2.4.5.** Bidders must implement robust internal controls to ensure compliance with this clause, including measures to prevent unauthorized access to confidential information and to maintain the integrity of the bidding process.
- 2.2.4.6.** NHIT reserves the right to audit the Bidders' practices and processes to verify compliance with the conflict-of-interest provisions outlined in this clause. Non-compliance identified during such audits may attract sanctions as deemed appropriate by NHIT.

2.2.5. Fraud & Corruption

- 2.2.5.1.** Bidders shall observe the highest standard of ethics during the selection process and throughout the execution of the work. For the purposes of this clause, **NHIT** defines:
 - 2.2.5.1.1. Corrupt Practice:** The offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the selection process or during contract execution.
 - 2.2.5.1.2. Fraudulent Practice:** Any act of misrepresentation or false declaration of facts intended to influence the selection process or execution of a contract to the detriment of **NHIT**. This includes collusive practices among bidders, whether prior to or after submission of proposals, aimed at depriving **NHIT** of the benefits of fair and open competition.
- 2.2.5.2.** **NHIT** reserves the right to reject any proposal if it determines that the bidder recommended for selection has engaged in corrupt or fraudulent practices during the bidding process.
- 2.2.5.3.** **NHIT** may declare a bidder ineligible to participate in any future procurement processes, either indefinitely or for a specified duration, if it determines at any time that the bidder has engaged in corrupt or fraudulent practices.
- 2.2.5.4.** Bidders declared ineligible for corrupt or fraudulent practices under this clause shall be prohibited from participating in the selection process for any work or services tendered by **NHIT** during the specified period of ineligibility.
- 2.2.5.5.** Any instances of corrupt or fraudulent practices discovered during contract execution shall result in immediate termination of the contract, forfeiture of any performance guarantees, and potential legal action as deemed appropriate by **NHIT**.
- 2.2.5.6.** **NHIT** reserves the right to conduct audits or investigations to ensure compliance with this clause. Bidders must cooperate fully with such audits or investigations, providing access to all relevant records, documents, and personnel.
- 2.2.5.7.** Bidders are required to include a written declaration as part of their proposal, confirming that they have not engaged in and will not engage in any corrupt or fraudulent practices

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as defined in this clause. Non-compliance with this declaration may result in disqualification.

2.2.5.8. NHIT reserves the right to share information regarding ineligible bidders with other public entities or organizations to promote transparency and accountability.

2.2.5.9. Any breach of this clause shall entitle NHIT to recover any damages incurred due to the corrupt or fraudulent practices, in addition to other remedies available under applicable law.

2.2.6. Termination of RFP Process

2.2.6.1. The Procuring Authority reserves the right to terminate the RFP process at any stage without assigning any reason and without incurring any liability to the bidders, including but not limited to costs or expenses incurred in the preparation or submission of proposals.

2.2.6.2. Such termination may occur under, but is not limited to, the following circumstances:

- a) Significant changes in the scope, objectives, or requirements of the project that necessitate re-evaluation of the procurement approach.
- b) Non-compliance with applicable laws, regulations, or internal policies during the RFP process.
- c) Insufficient or inadequate responses received that do not meet the minimum qualification criteria or technical specifications outlined in the RFP.
- d) Detection of fraudulent practices, misrepresentation, or conflict of interest among any participating bidders.
- e) Budgetary constraints or unavailability of funds.
- f) Force Majeure events or other unforeseen circumstances that make the continuation of the RFP process impracticable.

2.2.6.3. In the event of termination, the Procuring Authority shall publish a notification regarding such termination on the official NHIT website. It shall be the sole responsibility of the bidders to stay informed of any updates or changes. The Procuring Authority shall not be liable for any claims arising due to a bidder's failure to take note of such publication. The Procuring Authority may, at its discretion, issue a new RFP for the same or substantially similar scope of work.

2.2.6.4. The Procuring Authority shall not be obligated to provide reasons for the termination of the RFP process or to disclose any internal evaluations, decisions, or deliberations related to the termination.

2.2.6.5. The termination of the RFP process shall not confer any rights upon any bidder or entity, nor shall it result in any claim or cause of action against the Procuring Authority or its representatives.

2.2.6.6. This clause is independent of any termination provisions applicable to the subsequent contract, which shall be governed by the terms of the General Conditions of Contract (GCC) or Special Conditions of Contract (SCC).

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2.2.7. Bid Capacity

2.2.7.1. Qualification Based on Bid Capacity:

Bidders meeting the minimum qualification criteria outlined in this RFP shall qualify only if their assessed available bid capacity exceeds the estimated bid value of INR 1 crores (INR 1 crores is for calculation purposes only; this figure does not reflect the actual bid value). The available bid capacity shall be determined as follows:

$$\text{Assessed Available Bid Capacity} = (A \times N \times 2.5) - B + C$$

Where:

A = Maximum value of civil engineering works excluding the amount of bonus received, if any, in respect of Projects executed in any one year during the last three years (updated to the price level of the year indicated in table at Note-3 below) taking into account the completed as well as works in progress. The projects include turnkey projects/ Item rate contract/ Construction works.

N = Duration (in years) specified for completion of the works under this RFP.

B = Value (updated to the price level of the year indicated in table at **Notes for Calculation** below) of existing commitments, works for which the bidder has emerged as the winner of the bids or on-going work to be completed during the period of completion of the works for which BID is invited. For the sake of clarification, it is mentioned that works for which bidder has emerged as the winner of the bids, but LOA has not been issued as on the day before opening the financial bids shall also be considered while calculating value of B.

C= The amount of bonus received, if any, in Projects during the last 3 years (updated to the price level of the year indicated in table at Notes for Calculation below).

2.2.7.2. Notes for Calculation:

2.2.7.2.1. Price Level Adjustment Factors:

The following factors shall be used to update the annual turnover and commitments to the current price level:

Year	Year-1 (Current Financial Year)	Year-2 (Previous Year)	Year-3 (Two Years Prior)
Updation Factor	1.00	1.05	1.10

Year-1: Refers to the current financial year or, if the bid due date falls within three months of the close of the last financial year, the preceding financial year.

Year-2 and Year-3: Refer to the financial years immediately preceding Year-1.

2.2.7.3. Verification of Commitments:

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The bidder must submit a statement detailing all current commitments, including ongoing works and works for which the bidder has been declared the winner but not yet issued an LOA. This statement must include the following details for each work:

- i. Name of work.
- ii. Value of the contract (updated to current price levels as per Note 1).
- iii. Stipulated completion period and remaining completion timeline.

The statement must be:

- i. Countersigned by the Engineer-in-Charge (not below the rank of Executive Engineer) for projects or by the Concessionaire/Authorized Signatory of the SPV for BOT projects.
- ii. Verified and certified by the bidder's Statutory Auditor.

Failure to submit the required statement or submission of an incomplete or unverified statement shall result in disqualification of the bid as per Clause 3 (Eligibility and Qualification Criteria).

2.2.7.4. General Provisions:

- i. Bidders shall submit the required details for the calculation of 'A' and 'C' in the prescribed format as provided in the Annexure of this document. Failure to furnish these details in the specified format shall render the bid non-compliant and subject to disqualification.
- ii. Bidders must ensure accurate and complete disclosure of commitments and turnover figures. Any misrepresentation or omission may result in disqualification.
- iii. NHIT reserves the right to seek additional clarifications or conduct independent verification of the submitted data.
- iv. This bid capacity assessment is non-negotiable and binding for all bidders participating in this RFP process.
- v. The amount of bonus received, if any, in Projects should be countersigned by the Client or its Engineer-in-charge not below the rank of Executive Engineer or equivalent in respect of Projects.

2.2.8. Earnest Money Deposit (EMD)

The Bidder is required to submit an Earnest Money Deposit (EMD) as part of the bid security. **All provisions related to EMD, including its amount, mode of submission, validity, refund conditions, and forfeiture, are specified under Clause 2.4 (Bid Security Details).** Bidders are required to comply with the provisions mentioned therein.

2.2.9. Key Terms and Conditions of Appointment/Engagement

- 2.2.9.1. Right to Modify Validity Period:** NHIT reserves the absolute right to either curtail or extend the validity period of the engagement/appointment of the appointed Agency/Firm, at its sole discretion, as deemed necessary for the successful execution of

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the project or in the best interest of **NHIT**. Any extension or reduction in the validity period will be communicated to the Agency/Firm in writing.

2.2.9.2. Notification of Changes: In case of any modification to the validity period, **NHIT** will provide written notice specifying the new terms and conditions, including the extended or shortened period, and any associated adjustments, if applicable.

2.2.9.3. Obligations During Extension or Curtailment: The appointed Agency/Firm shall continue to fulfil all obligations under this engagement, including performance deliverables, timelines, and other agreed-upon terms, during the entire extended or curtailed period, unless otherwise notified by **NHIT**.

2.2.9.4. Contractor's Obligations Upon Termination

- i. In the event of termination under the provisions of the **Termination of Contract clause in the GCC**, the Contractor shall continue to perform all contractual obligations diligently until the effective date of termination, as specified in the termination notice. The Contractor shall not:
 - a) unilaterally cease work before the termination date.
 - b) obstruct or interfere with other agencies executing parallel works; or
 - c) damage, disrupt, or delay any ongoing or completed work.
- ii. The Contractor shall ensure a smooth handover of the site, including all relevant documents, materials, and work records, in coordination with the Client and any succeeding agency. Failure to comply with these obligations shall be treated as a **breach of contract**, entitling the Client to impose penalties, recover damages, forfeit performance security, or take any other legal action deemed necessary.
- iii. The Client reserves the right to blacklist the Contractor from future projects for a specified period in the event of non-compliance with this clause.

2.2.9.5. No Claims for Extension or Curtailment: The appointed Agency/Firm acknowledges and agrees that there shall be no entitlement to any claim or compensation in connection with any extension or reduction in the engagement period, unless explicitly agreed upon by both parties in writing.

2.2.10. MSME Status of Agency/Firm

2.2.10.1. Confirmation of MSME Status: The Bidder shall confirm whether it is registered as a **Micro Enterprise, Small Enterprise, or Medium Enterprise** under the relevant laws and regulations governing MSMEs. The Bidder shall submit their **Registration Number** along with a copy of the **Registration Certificate** issued by the appropriate authority.

2.2.10.2. Notification of Change in Status: The Bidder agrees to notify **NHIT** promptly in writing of any change in the status of their organization with respect to the classification under the **Micro, Small, and Medium Enterprises (MSME) Development Act** or any other relevant legislation. This includes, but is not limited to, any changes that may affect their eligibility for MSME benefits or status.

2.2.10.3. Responsibility for Non-Notification: The Bidder acknowledges that it shall be solely responsible for any failure to inform **NHIT** of any change in its MSME status. **NHIT** will not

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be held liable for any consequences arising from the Bidder's failure to update its status in a timely and accurate manner.

2.2.10.4. Obligation to Provide Updated Documentation: In the event of any change in the Bidder's MSME status, the Bidder shall promptly submit the updated **Registration Certificate** or any other relevant documentation to **NHIT** for verification.

2.2.10.5. Impact on Contractual Obligations: The Bidder understands that failure to comply with the above requirements may result in the disqualification of their bid or termination of any contract awarded, as determined by **NHIT** in its sole discretion.

2.2.11. Indemnification

The Agency shall indemnify, defend, and hold **NHIT** harmless, including its affiliates, directors, officers, employees, agents, and representatives, from and against any and all claims, demands, penalties, fines, losses, damages, costs, expenses, or proceedings (whether actual or threatened), including but not limited to legal fees and expenses, arising directly or indirectly from:

2.2.11.1. Breach of Laws or Regulations: Any breach or contravention of any applicable laws, statutes, regulations, or governmental directives, whether local, national, or international, by the Agency or its personnel during the performance of services under this agreement.

2.2.11.2. Non-compliance: Any failure by the Agency to comply with the terms, conditions, or provisions outlined in this order or agreement.

2.2.11.3. Third-Party Claims: Any claims or actions initiated by third parties, including employees or agents of the Agency, arising from the Agency's negligence, misconduct, or breach of its contractual obligations.

2.2.11.4. Intellectual Property Infringement: Any claims, losses, or damages arising out of infringement or alleged infringement of third-party intellectual property rights, including patents, trademarks, copyrights, or trade secrets, caused by the Agency's actions or omissions.

2.2.11.5. Environmental or Safety Violations: Any penalties, fines, or legal actions arising from violations of environmental laws or safety regulations directly attributable to the Agency's activities.

The indemnity obligations under this clause shall apply irrespective of the negligence, whether active or passive, of **NHIT** or any of its affiliates, and shall survive the termination or expiration of this agreement.

The Agency agrees to assume full responsibility for its actions, or those of its employees, subcontractors, or agents, that result in any of the above-mentioned claims.

2.2.11.6. Indemnification Procedures:

2.2.11.6.1. Notice of Claim: In the event that **NHIT** is subject to a claim or proceeding that is subject to indemnification, **NHIT** shall promptly notify the Agency in writing. The Agency shall have the right to assume and control the defense of any such claim or proceeding, at its own expense, provided that **NHIT** may participate in such defense at its own cost and discretion.

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2.2.11.6.2. Cooperation: NHIT agrees to cooperate fully with the Agency in defending or settling any claim subject to indemnification. However, the Agency shall not settle, admit liability, or enter into any agreement or compromise concerning such claims without the prior written consent of NHIT's authorized representative, as per NHIT's internal approval framework, which may include final approval from the CEO of NHIT.

Any settlement that imposes financial obligations, penalties, restrictions, or liabilities on NHIT shall be void and unenforceable unless expressly approved in writing by NHIT. NHIT reserves the right to review, participate in, or assume control of the defense and settlement process at its sole discretion, should it determine that the proposed resolution may adversely impact NHIT's legal, financial, or reputational interests.

2.2.11.6.3. Blacklisting Disclosure & Indemnification

At any stage of the RFP process, upon award of the contract, during its execution, or at any time before or after completion of contractual obligations, if the Contractor is blacklisted, debarred, or otherwise disqualified from bidding or executing contracts **Central Public Sector Undertaking (CPSU), State Public Sector Undertaking (SPSU), government companies, government organizations, or regulatory authorities, NHAI, NHIT and NHIT's subsidiaries**, the Contractor shall immediately notify NHIT in writing, providing a detailed explanation of the reasons and circumstances leading to such blacklisting.

Failure to disclose such blacklisting shall be considered a material breach of contract, entitling NHIT to take appropriate action, including but not limited to:

- a) Contract termination without liability to NHIT,
- b) Forfeiture of performance security,
- c) Recovery of damages resulting from reputational harm, project delays, or financial loss,
- d) Blacklisting the Contractor from future NHIT projects, and
- e) Triggering indemnification provisions to recover any costs incurred due to the Contractor's blacklisting.

NHIT reserves the right to assess the impact of the blacklisting on ongoing contractual obligations and may, at its sole discretion, impose additional safeguards, request alternative arrangements, or initiate necessary legal proceedings to protect its interests

2.2.12. Eligible Bidders

Bidders must meet the eligibility and qualification requirements specified under **Clause 3 (Eligibility & Qualification Criteria)** to participate in the bidding process. The detailed technical, financial, and legal criteria, including the necessary supporting documents, are outlined therein.

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2.2.13. Disqualification Criteria

The disqualification conditions applicable to bidders are set forth under **Clause 3.8 (Disqualification Criteria)**. Bidders failing to meet the specified requirements, providing false information, or engaging in prohibited practices shall be disqualified.

2.2.14. Payment Terms

The payment terms for this project are governed by the provisions set forth in the General Conditions of Contract (GCC), Special Conditions of Contract (SCC), and the Contract Data. Bidders are advised to refer to these documents for detailed information regarding the payment schedule, invoicing requirements, and any associated terms.

Key Points:

2.2.14.1. Invoice Submission:

- i. All payments shall be made in accordance with the terms outlined in the Contract, based on the successful submission and approval of invoices by **NHIT**. The required supporting documentation must be provided with each invoice. In case the required documents are not submitted along with the invoice, the payment shall not be disbursed, nor shall the invoice be considered as submitted. An invoice shall only be deemed submitted if it is accompanied by all necessary details and documents required for the verification of its authenticity.

2.2.14.2. Payment Milestones:

- i. Payment will be made in accordance with the approved payment schedule, subject to the successful completion and acceptance of the corresponding milestones, as specified in the Contract Data.

2.2.14.3. Currency and Method of Payment:

- i. Payments will be made in the currency specified in the Contract, through the payment method outlined therein. All payment-related banking charges, if any, shall be borne by the Bidder.

2.2.14.4. Delay in Payment:

- i. In the event of delays in payments due to issues on **NHIT's** part, no interest shall be payable on any overdue payments. The payment will be processed as per the terms outlined in the **General Conditions of Contract (GCC)** and **Special Conditions of Contract (SCC)**.
- ii. Bidders are advised to review the GCC and SCC for the relevant provisions regarding payment timelines and procedures.
- iii. Bidders are advised to review the relevant sections of the GCC, SCC, and Contract Data for a comprehensive understanding of the payment procedures, including any penalties, deductions, or conditions related to payment processing.

2.2.15. Documents to be Submitted Along with the Bid

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- i. Bidders are required to submit the following documents as part of their Bid. Failure to provide these documents in the required format may result in disqualification of the Bid:

2.2.15.1. Authorization Documents:

2.2.15.2. Power of Attorney – Refer clause 2.2.2 Bid Form:

- i. The Bid in the form provided in the RFP, duly completed and signed by the authorized representative of the Bidder on all pages.

2.2.15.3. Bidder Profile:

A detailed profile of the Bidder, certified by the Authorized Signatory, including organizational structure, key personnel, and areas of expertise.

2.2.15.4. Eligibility and Experience Documentation:

- i. Documents supporting the Bidder's claims regarding eligibility and experience, duly signed by the authorized representative on all pages.
- ii. Copies of work orders, purchase orders, completion certificates, and performance certificates must be included. **NHIT** reserves the right to request third-party certifications at a later stage.

2.2.15.5. Undertaking:

- i. A declaration or undertaking in the format provided in the RFP, duly signed by the authorized representative on all pages, affirming compliance with the terms and conditions of the RFP.

2.2.15.6. Company Registration and Compliance Certificates:

- i. Copy of the Company Registration Certificate, GST Registration Certificate, and MSME Certificate (if applicable).
- ii. Copies of PAN and TAN registrations (as applicable).
- iii. Any other statutory registration certificates required by law.

2.2.15.7. Experience Credentials:

- i. Experience certificates self-attested by the Authorized Signatory, along with copies of supporting documents such as Work Orders/Purchase Orders and Completion Certificates.

2.2.15.8. Financial Documentation:

- i. Audited financial statements for the last three financial years, including Balance Sheets, Profit and Loss Statements, and Auditor's Reports.
- ii. A Certificate from a Statutory Chartered Accountant specifying the annual turnover of the Bidder for the last three financial years.
- iii. The Bidder shall not have been involved in material litigation that, in aggregate, exceeds 10% of their net worth or annual turnover over the last [5] years. For the purposes of this clause, 'material litigation' refers to any legal dispute, arbitration, or claim that may adversely affect the Bidder's ability to execute the project. The Bidder must provide a declaration of all ongoing and past material litigation, along with supporting documents, if any, for verification by NHIT.

2.2.15.9. Bid Security:

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- i. Earnest Money Deposit (EMD) in the form and value specified in the RFP, along with proof of submission.

2.2.15.10. Technical Proposal (if applicable):

- i. A detailed technical proposal (if required by the RFP) demonstrating the Bidder's approach, methodology, and understanding of the scope of work.

2.2.15.11. Other Relevant Documents:

- i. Any additional information or documentation specified in the RFP or deemed necessary to substantiate the Bidder's eligibility and compliance.

2.2.16. Anti-Bribery & Corruption (ABC) Policy

NHIT is committed to conducting all its business activities with honesty, integrity, and the highest ethical standards. We maintain a zero-tolerance approach to bribery and corruption in all forms and are dedicated to acting professionally and fairly in all our business dealings and relationships, regardless of location.

To ensure compliance, we implement and enforce robust systems and controls designed to prevent and detect bribery and corruption. We expect all employees, contractors, suppliers, and stakeholders to adhere strictly to these principles.

If you encounter or are subject to any improper demands, including bribery or corrupt practices involving **NHIT** employees, you are encouraged to report such incidents immediately. Reports can be made **confidentially by sending an email to whistleblow@nhit.co.in**.

NHIT ensures that all whistleblowers will be protected from retaliation and that their reports will be handled with the utmost confidentiality, in line with applicable laws and organizational policies.

2.2.17. Ethics & Integrity

The selected Agency/Firm is expected to uphold the highest standards of professional ethics, integrity, and accountability in all its dealings, operations, and interactions associated with **NHIT**. The Agency/Firm shall:

- a) **Act in NHIT's Best Interests:** Ensure that all actions, decisions, and conduct are aligned with **NHIT's** objectives and do not, in any manner, harm or compromise **NHIT's** reputation, business interests, or operational effectiveness.
- b) **Avoid Conflicts of Interest:** Proactively disclose any actual, potential, or perceived conflicts of interest that may arise during the execution of duties. The Agency/Firm must take appropriate measures to mitigate any such conflicts to ensure impartiality and transparency in all dealings.
- c) **Adhere to Laws and Regulations:** Comply with all applicable laws, rules, and regulations governing professional conduct, anti-corruption, anti-bribery, and fair business practices.
- d) **Confidentiality:** Safeguard all proprietary, confidential, or sensitive information entrusted by **NHIT** and ensure that such information is not used for personal gain or disclosed to any unauthorized party.

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- e) Fair Practices: Engage in fair business practices, avoiding any acts of dishonesty, fraud, misrepresentation, or unethical conduct.
- f) Non-Malfeasance: Refrain from any behaviour, directly or indirectly, that may be detrimental to **NHIT**'s interests, reputation, or relationships with its stakeholders, clients, or partners.

NHIT reserves the right to terminate the contract and take appropriate legal action if the Agency/Firm is found to be in violation of any aspect of this clause. Compliance with these principles is a mandatory requirement, and failure to adhere may result in disqualification, penalties, or other remedial measures as deemed necessary by **NHIT**.

2.2.18. Confidentiality Obligations under the RFP

The Agency/Firm acknowledges that **Clause 32** (Confidentiality and Non-Disclosure) and **Clause 36.3** (Confidentiality and Intellectual Property Rights) of the General Conditions of Contract (GCC) comprehensively govern the obligations of confidentiality and the treatment of intellectual property rights under the contract. In addition to those provisions, the following confidentiality obligations apply specifically to the RFP stage:

2.2.18.1. Scope of Confidentiality During the RFP Process:

All information, documents, or data shared by **NHIT** as part of the Request for Proposal (RFP) process, including but not limited to RFP documents, evaluation criteria, communication, and other proprietary information, shall be treated as confidential by the Agency/Firm.

2.2.18.2. Prohibited Actions:

- a) The Agency/Firm shall not disclose, reproduce, or use any RFP-related information for any purpose other than preparing and submitting a proposal in response to this RFP.
- b) The Agency/Firm shall not share any RFP-related information with third parties, except with employees or advisors directly involved in the proposal preparation, who must also comply with these confidentiality obligations.

2.2.18.3. Reference to GCC Obligations:

The obligations under Clause 32 and Clause 36.3 of the GCC shall apply to all information disclosed during the RFP process, including the preservation of confidentiality for intellectual property, trade secrets, and proprietary data of **NHIT**.

2.2.18.4. Exclusions from Confidentiality:

- a) Confidentiality obligations under this clause shall not apply to information that: Is publicly available at the time of disclosure or subsequently becomes publicly available through no fault of the Agency/Firm.
- b) Was lawfully in the Agency/Firm's possession before disclosure by **NHIT**.
- c) Is required to be disclosed by law, regulation, or court order, provided that the Agency/Firm gives prior written notice to **NHIT**, where permissible, and takes reasonable measures to limit the extent of such disclosure.

2.2.18.5. Survival of Obligations:

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The confidentiality obligations outlined herein shall remain binding on the Agency/Firm regardless of the outcome of the RFP process and shall survive the conclusion or cancellation of this RFP for a period of at least five (5) years or as specified in Clause 32 and Clause 36.3 of the GCC, whichever is longer, **or until the information becomes public by lawful disclosure.**

2.2.18.6. Breach and Remedies:

Any breach of this confidentiality clause may result in disqualification of the Agency/Firm from the RFP process, forfeiture of the Earnest Money Deposit (EMD), or other legal or contractual remedies as deemed appropriate by **NHIT**.

2.2.18.7. Acknowledgment of Obligations:

By participating in this RFP, the Agency/Firm explicitly agrees to abide by the confidentiality obligations stated herein and acknowledges the applicability of Clause 32 and Clause 36.3 of the GCC to the RFP process.

2.2.19. Right of Removal

NHIT reserves the sole and absolute right to remove any selected Agency/Firm from the selection list at its discretion, without the obligation to provide any justification or to bear any costs, liabilities, or compensation arising from such removal. Furthermore, **NHIT** retains the right, at any stage, to replace, remove, or appoint a new Agency/Firm to fulfil ongoing or future requirements as it deems necessary to ensure the efficient execution of its projects or operations.

The exercise of this right by **NHIT** shall not be construed as a breach of any contractual obligations under the Request for Proposal (RFP) process or subsequent agreements, and no claims for damages, loss of opportunity, or compensation shall be entertained from the removed Agency/Firm.

2.2.20. Right to descope part of full

2.2.20.1. Right to Descope Due to Contractor's Failure or Other Conditions

"Notwithstanding anything contained in the Contract, **NHIT** reserves the right to partially or fully descope the Contractor's scope of work under the following circumstances:

- a. **Failure to Perform:** If the Contractor fails to meet performance standards, timelines, or quality requirements as per the Contract, despite being given reasonable opportunity to rectify the deficiencies.
- b. **Persistent Non-Compliance:** If the Contractor fails to adhere to contractual obligations, including but not limited to safety regulations, statutory compliance, or approved work methodologies.
- c. **Material Breach of Contract:** If the Contractor commits a material breach that does not warrant immediate termination but requires **NHIT** to take corrective action.
- d. **Financial or Technical Inability:** If **NHIT** determines that the Contractor is financially unstable or lacks the technical resources to execute the project efficiently.

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- e. Regulatory or Statutory Directives: If NHIT is required to modify the scope due to legal, environmental, or regulatory changes affecting the project.
- f. Project Restructuring or Budgetary Constraints: If NHIT decides to restructure, reschedule, or optimize the project scope for administrative or financial reasons.

2.2.20.2. Consequences of Descope

In case of partial descoping, the Contractor shall continue with the remaining scope as per the Contract, and the Contract Price shall be adjusted proportionately based on agreed unit rates.

NHIT shall have the right to re-allocate the descoped portion to another agency or execute it through its own resources without any claims or objections from the Contractor.

If the descoping is due to Contractor's failure, non-performance, or breach, NHIT reserves the right to recover additional costs incurred in getting the work executed from another party.

Performance Security shall not be released until all adjustments, claims, and recoveries (if any) are settled to NHIT's satisfaction.

2.2.20.3. Linkage with GCC Termination Clause

If the failure or non-performance leading to descoping is severe and beyond rectification, NHIT reserves the right to initiate termination as per the provisions of the Termination Clause under the GCC.

2.2.21. General Information

2.2.21.1. Vendor Profile:

The Vendor shall provide a comprehensive profile detailing the constitution, ownership structure, and core business activities of their organization. This information must be submitted as part of the Bid/Proposal to enable **NHIT** to assess the Vendor's qualifications and suitability for the assignment.

2.2.21.2. Analysis of Rates:

The Bidder is required to include a detailed Analysis of Rates as part of their Financial Proposal. The Analysis should clearly outline the basis of cost estimates, ensuring transparency and facilitating an informed evaluation by **NHIT**.

2.2.21.3. Conflict of Interest and Commitments (refer clause 2.2.4 of RFP):

The Bidder shall disclose any existing commitments, obligations, or circumstances that may either act as a constraint or result in a conflict of interest concerning the proposed assignment. Such disclosures must accompany the Bid/Proposal to ensure full transparency.

2.2.21.4. Site Visit Requirement:

It is mandatory for the Bidder to conduct a site visit prior to the submission of the Bid/Proposal. The purpose of the site visit is to enable the Bidder to assess all relevant conditions and requirements necessary for the preparation of an informed and accurate

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proposal. By submitting their Bid/Proposal, the Bidder acknowledges that they have accounted for all site-related considerations.

2.3. Bid Process Overview

2.3.1. Two-Envelope System (Technical & Financial)

The selection of the Successful Bidder shall follow a Two-Envelope System, comprising the **Technical Proposal** and the **Financial Proposal**, submitted in separate sealed envelopes:

(a) Technical Proposal

- i. Shall mean the part of the Bid containing the Bidder's qualifications, experience, methodology, and proposed approach for executing the Work as specified in the RFP.
- ii. The Technical Proposal shall be evaluated based on the criteria outlined in the RFP, including, but not limited to, experience in similar projects, equipment ownership, and personnel capabilities.
- iii. Only those Bidders whose Technical Proposals meet or exceed the prescribed minimum score shall proceed to the Financial Proposal evaluation.
- iv. Details of evaluation of technical proposal is given in the **Section 3 – Eligibility and Qualification Criteria**.

(b) Financial Proposal

- i. Shall mean the part of the Bid containing the financial offer, including the total Contract Price for executing the Work in accordance with the terms of the RFP.
- ii. The Financial Proposal shall be opened only for Bidders whose Technical Proposals are qualified, and the evaluation shall be conducted as per the methodology defined in the RFP.

(c) Evaluation Process

- i. The Authority shall open and evaluate the Technical Proposals first.
- ii. Financial Proposals of only technically qualified Bidders shall be opened.
- iii. The selection of the Successful Bidder shall be based on the evaluation methodology outlined in Clause 3 – Eligibility and Qualification Criteria, following the Quality and Cost Based Selection (QCBS) system as per NHIT's practices. The final ranking of bidders shall be determined based on their combined Technical Score (TS) and Financial Score (FS), as described in the RFP.

2.3.2. Bid Submission Procedures

2.3.2.1. General Requirements

- i. Bids shall be prepared and submitted in strict accordance with the instructions specified in the Request for Proposal (RFP).
- ii. The Bidder shall ensure that all documents and forms are complete, accurate, and duly signed by an authorized representative.

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- iii. Late, incomplete, or non-compliant Bids shall not be considered and will be summarily rejected.

2.3.2.2. Submission Format

- i. The Bid shall be submitted in two separate sealed envelopes, clearly marked as follows:

Envelope 1: “Technical Proposal for [Project Name]”

Envelope 2: “Financial Proposal for [Project Name]”

- ii. Both envelopes shall be placed in an outer sealed envelope marked as:

“Bid Submission for [Project Name] – Do Not Open Before [Bid Opening Date]”

2.3.2.3. Mode of Submission

- i. Bids must be submitted either in person or via registered post/courier to the address specified in the RFP, ensuring that they are received before the Bid Due Date and time.
- ii. The Employer/Authority shall not be responsible for any delays in submission due to postal, courier services, or other external factors. The Bidder is solely responsible for ensuring timely submission.
- iii. If electronic submission is permitted as per Clause 2.3.2.8, Bidders may also submit their Bids through the designated online platform, subject to compliance with the RFP requirements.

2.3.2.4. Bid Validity

- i. The Bid shall remain valid for a period of **[120 days]** from the Bid Due Date, unless extended by mutual written agreement between the Employer and the Bidder.
- ii. The Employer may request an extension of Bid validity if required during the evaluation period. The Bidder shall respond promptly to such requests.

2.3.2.5. Modification or Withdrawal of Bids

- i. The Bidder may modify or withdraw its Bid before the Bid Due Date by submitting a written notice to the Employer/Authority.
- ii. No Bid shall be modified or withdrawn after the Bid Due Date. Any attempt to do so will result in the disqualification of the Bidder.

2.3.2.6. Bid Opening

- i. The Technical Proposals shall be opened on the date and time specified in the RFP, in the presence of Bidder representatives who choose to attend.

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- ii. The Financial Proposals shall only be opened for those Bidders who are found technically qualified. The date and time for the opening of Financial Proposals shall be communicated separately to the qualified Bidders.

2.3.2.7. Late Bids

Any Bid received after the Bid Due Date and time, as stipulated in the RFP, shall be considered late and shall not be evaluated. Such Bids will be returned unopened to the Bidder, unless the delay was caused by force majeure or other exceptional circumstances, as determined by the Employer.

2.3.2.8. Electronic Submission (if applicable)

- i. If electronic submission of Bids is permitted, the Bidder shall submit the Bid via the designated online platform, ensuring that the required digital signatures are affixed.
- ii. The Bidder must ensure that the submission complies with the technical specifications and format requirements as outlined in the RFP.
- iii. In case both electronic and physical submissions are permitted, the physically submitted Bid shall prevail in the event of any discrepancies.
- iv. If the Contract Data Sheet (CDS) mandates only electronic submission, then physical submission will not be required.

2.3.2.9. Bid Clarifications

- i. The Employer reserves the right to request clarifications or additional information from the Bidders during the evaluation process.
- ii. All clarifications shall be requested in writing, and Bidders shall respond in a timely manner.
- iii. Any response or clarification provided by the Bidder will be considered part of the Bid and may be evaluated accordingly.

2.3.2.10. Rejection of Non-Compliant Bids

- i. Any Bid that does not comply with the Bid submission procedures as outlined in this Sub-Clause 2.3 shall be rejected by the Employer.
- ii. Bidders shall ensure that their Bids are fully compliant with the submission requirements, including format, documents, and signatures, to avoid rejection.

2.4. Bid Security Details

The Bidder shall furnish Bid Security (Earnest Money Deposit, or "EMD") as a guarantee to ensure the Bidder's bona fide intention to participate in the bidding process and to safeguard the Employer from the risk of Bidder's withdrawal or failure to comply with the terms of the RFP or any other conditions specified in the Contract. The EMD shall be submitted as per the details set forth below.

2.4.1. Earnest Money Deposit (EMD)

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The Earnest Money Deposit (EMD) amount shall be either a fixed sum or a percentage of the estimated project cost, as specified hereinbelow. The EMD must be submitted by the Bidder in the prescribed form and shall be in accordance with the instructions provided in this **Clause**. Failure to submit the EMD in the specified format shall result in the disqualification of the Bid.

- i. **Amount/Percentage:** *[As specified in Contract Data Sheet]*
- ii. **Mode of Submission:** The EMD shall be submitted in the form of a Demand Draft (DD), Banker's Cheque, or a Bank Guarantee issued by a Scheduled Commercial Bank in India, payable in favour of [Employer Name]. The validity of the EMD shall be for a period of **[90] days**.
- iii. **Retention & Refund:**
 - a) The EMD of the successful Bidder shall be retained until the execution of the Contract Agreement or the submission of the Performance Security, whichever occurs earlier.
 - b) The EMD of unsuccessful Bidders will be refunded promptly upon finalization of the contract award process.
 - c) No interest shall be payable on the EMD amount under any circumstances.
- iv. **Forfeiture of EMD:**
 - a) The EMD may be forfeited under the following conditions:
 - b) If the Bidder withdraws or modifies its bid during the bid validity period.
 - c) If the Bidder refuses to accept the Letter of Award (LOA) after being selected as the successful Bidder.
 - d) If the successful Bidder fails to sign the Contract Agreement within the stipulated time.
 - e) If the Bidder fails to furnish the required Performance Security within the prescribed period.
 - f) If any fraudulent or misleading information is found in the bid documents.

2.4.2. Bank Guarantee Template for Bid Security

A Bank Guarantee, in lieu of the Earnest Money Deposit (EMD), may be submitted as an alternative mode of Bid Security. In such cases, the Bank Guarantee must comply with the prescribed format and requirements specified in **Annexure [B1]** of this RFP.

The Bank Guarantee shall:

- Be issued by a Scheduled Commercial Bank in India.
- Be irrevocable and unconditional.
- Be valid for a period of **[180] days** from the final date for submission of the bid (including any extension period).
- Contain a clear and specific statement of the guarantee amount and a reference to the **Invocation Clause**, as detailed in the Bank Guarantee template provided in the Annexure.

A template of the Bank Guarantee format is provided in **Annexure [B1]**, which must be strictly adhered to while submitting the Bank Guarantee.

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2.5. Clarifications and Addendum

2.5.1. Pre-Bid Queries and Responses

- (a) **Submission of Queries:** Bidders may submit queries or seek clarifications regarding the bid documents within the timeline specified in the Key Dates section of this RFP. All queries shall be submitted in writing via email or through the official communication channel specified in Section 1.4.
- (b) **Format for Queries:** Queries must be submitted in the prescribed format, mentioning the relevant section, Clause No., or provision of the RFP for which clarification is sought.
- (c) **Response to Queries:** The Client shall provide responses to all queries received within the stipulated timeline. These responses shall be made available to all bidders via email or uploaded on the official tender portal.
- (d) **No Individual Clarifications:** No bidder shall communicate directly with any Authority representative for clarification outside the specified channels.

2.5.2. Issuance of Corrigendum/Addendum

- (a) **Client's Right to Amend:** The Client reserves the right to modify, amend, or issue Corrigendum to the RFP documents before the bid submission deadline.
- (b) **Communication of Changes:** All Corrigendum/Addendum shall be communicated via the official tender portal. If deemed necessary, the Authority may also notify bidders via the email address provided during registration. No other form of communication shall be deemed valid.
- (c) **Binding Nature:** All Corrigendum/Addendum issued by the Authority shall be considered an integral part of the RFP documents and binding upon all bidders.
- (d) **Deadline Extensions:** If necessary, the Authority may, at its discretion, extend the bid submission deadline to provide adequate time for bidders to incorporate changes communicated through Corrigendum/Addendum.
- (e) **Responsibility of Bidders:** All Corrigendum/Addendum uploaded on the official tender portal shall be deemed to have been duly communicated to all bidders. It shall be the sole responsibility of bidders to regularly check the official portal for updates. If a corrigendum/addendum is also communicated via email, bidders shall acknowledge receipt within the specified timeframe. Failure to acknowledge shall not absolve the bidder from complying with the issued modifications.

2.6. Bid Validity Period

The Bid shall remain valid for a period of **120 days** from the **last date of submission of the Financial Bid**. The Bidder agrees to keep the offer open and unaltered for acceptance by the Employer during this period, without modification or withdrawal.

The following terms and conditions shall apply with respect to the Bid Validity Period:

- **Commencement of Validity:**

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The 120-day validity period shall commence from the last date of submission of the Financial Bid, and shall expire on the 120th day thereafter, unless extended by mutual consent of the Employer and the Bidder.

- **Extension of Validity:**

If, in the opinion of the Employer, the bid evaluation process cannot be concluded within the validity period, the Employer may request an extension of the validity period. The Bidder shall, at the sole discretion of the Employer, extend the validity of the Bid for the requested period, on the same terms and conditions, including the pricing. Such an extension shall be formalized through a written agreement between the Employer and the Bidder.

- **Bidder's Obligation During Bid Validity:**

During the Bid Validity Period, the Bidder shall not revoke or withdraw their Bid. The Bidder shall keep their Bid open for acceptance without any unilateral alteration to the terms, conditions, or prices specified in their submission.

However, in the following circumstances, a Bidder may be allowed to revise and resubmit their Bid:

- a. **Changes or Addendums by NHIT:** If NHIT issues any corrigendum, addendum, or modification to the RFP documents after Bid submission, Bidders shall have the right to revise and resubmit their Bids in accordance with the revised terms, within the prescribed timeframe.
- b. **Correction of Genuine Errors Prior to Bid Opening:** A Bidder (only once) may request a revision of their submitted Bid before the scheduled bid opening date if they provide a written request along with a detailed justification and analysis of the error, demonstrating that the revision is necessary due to an inadvertent mistake and not due to any malpractice or unfair advantage.
- c. **Ensuring Fair Competition:** Any request for Bid revision shall be subject to NHIT's approval, ensuring that no unfair advantage is given to any Bidder. NHIT reserves the right to reject any revision request if it finds that the change could compromise the integrity of the bidding process or create an imbalance among competing Bidders.

Once the Bids are opened, no revisions, modifications, or withdrawals shall be permitted under any circumstances.

- **Failure to Extend Validity:**

If the Bidder refuses or fails to extend the Bid Validity Period when requested by the Employer, the Bid shall be considered non-responsive, and the Bidder shall be disqualified from further consideration.

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- **Force Majeure:**

In the event of Force Majeure or other circumstances beyond the control of the Employer, the Bid Validity Period may be extended, subject to mutual agreement between the Employer and the Bidder.

2.7. Evaluation Process

The evaluation of Bids shall be conducted in accordance with the eligibility, technical, and financial criteria detailed in **Clause 3 (Eligibility and Qualification Criteria) of this RFP**. The process shall be fair, transparent, and objective, based on the information provided by the Bidders.

2.7.1. Technical Bid Evaluation (for details refer clause no. 3.4 – Technical evaluation Criteria)

The Technical Bid shall be evaluated based on key parameters, including but not limited to **bidder's experience, technical approach, methodology, key personnel, equipment, financial capacity, and past performance**. For detailed evaluation criteria and scoring methodology, refer to **Clause 3.4 – Technical Evaluation Criteria**.

The **Technical Bid** will be evaluated on a **pass/fail** basis. Any Bid that does not meet the minimum technical requirements specified in the RFP will be deemed non-responsive and disqualified from further evaluation.

2.7.2. Financial Bid Evaluation

The Financial Bids of only the **technically qualified Bidders** shall be opened and evaluated to determine the **most advantageous offer**, considering the bid price, conformance to payment terms, and completeness of the financial proposal. The Financial Bid evaluation shall be conducted in accordance with the criteria specified in **Clause 3.6 – Financial Criteria**.

The **Financial Bid** will be scored based on the lowest responsive bid, considering both the total cost and the value offered in terms of quality, safety, and time. In the event of a tie, the Employer may decide to engage in negotiations or apply additional criteria to determine the final award.

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3. Eligibility and Qualification Criteria

This section outlines the eligibility and qualification criteria for bidders to ensure that only qualified and capable entities participate in the bidding process. The bidder must meet the specified technical, financial, and legal requirements to be considered eligible for the award of the contract.

The detailed technical and financial eligibility requirements specific to this project are provided in the Contract Data Sheet (CDS). Bidders are advised to **carefully refer to the Contract Data Sheet and all associated annexures** for project-specific qualification parameters, thresholds, formats, and documentary requirements before preparing their bid.

3.1. General Eligibility Criteria

3.1.1. To be eligible for bidding, the Bidder must fulfil the following general eligibility requirements:

3.1.2. Legally Established Entity:

The Bidder must be a legally registered entity in India or an eligible international entity, including a consortium, joint venture (JV) if allowed for this RFP (refer CDS clause 5.3), or partnership. Valid proof such as a certificate of incorporation, partnership deed, or joint venture agreement must be provided.

3.1.3. Notification of Changes in Firm's Name, Structure, or Merger

At any stage during the RFP process or after contract award, the Bidder must immediately notify NHIT in writing in the event of:

- i. A change in the name of the firm or its legal identity.
- ii. Any restructuring, reorganization, or change in the ownership or controlling interest of the firm.
- iii. Merger, acquisition, or amalgamation with any other entity, whether domestic or international.

NHIT reserves the right to assess the impact of such changes on the Bidder's eligibility and performance obligations. If NHIT determines that such changes adversely affect the Bidder's qualifications, financial stability, or conflict-of-interest status, NHIT may:

- a. Disqualify the Bidder from the RFP process.
- b. Terminate the contract without liability to NHIT.
- c. Invoke performance security and recover damages for any financial or reputational impact.

Failure to disclose any such change shall be treated as a material breach of contract and may result in immediate disqualification or contract termination.

3.1.4. Experience & Capability: The Bidder must demonstrate experience in executing infrastructure projects of a similar nature and scale. The total value of work completed should reflect the Bidder's financial and technical ability to handle the project. Supporting

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documents such as completion certificates, project references, and contract details must be provided.

- 3.1.5. Statutory Compliance:** The Bidder must have valid GST registration, PAN, and other applicable statutory registrations. Documentary proof must be submitted.
- 3.1.6. No Blacklisting:** The Bidder should not have been blacklisted or debarred by **Central Public Sector Undertaking (CPSU), State Public Sector Undertaking (SPSU), government companies, government organizations, or regulatory authorities, NHAI, NHIT and NHIT's subsidiaries**. A self-declaration certificate confirming the non-blacklisting status must be provided.
- 3.1.7. Financial Soundness:** The Bidder must meet the minimum financial criteria specified under Clause 3.4 (Financial Criteria) to demonstrate its ability to execute the contract successfully.
- 3.1.8.** As part of the eligibility assessment, bidders must comply with the requirements specified in **Clause 2.2.7.3 (Verification of Commitments)**. Failure to submit the required statement of commitments, or submission of an incomplete or unverified statement, may result in disqualification of the bid.
- 3.1.9.** Failure to meet these general eligibility criteria shall result in automatic disqualification from the bidding process.

3.2. Technical Criteria (Similar Project Experience) refer cl. 5.2 of CDS

The Bidder must demonstrate relevant experience in executing projects of similar nature, scope, and complexity. The technical qualifications shall be based on the Bidder's proven capability in handling projects that are comparable in scale and scope to the one proposed herein. The technical criteria for eligibility shall be as follows:

3.2.1. Similar Project Experience:

3.2.1.1. The Bidder should have successfully completed, as the lead contractor or a joint venture partner, at least [3] projects of a similar nature, involving relevant projects as specified in the Scope of Work.

3.2.1.2. These projects should have been completed within the last [5] years.

3.2.2. Nature of Work:

- i. The projects should have involved activities such as Bridge Rehabilitation and Repair of similar scale, complexity, and technology as outlined in this RFP.

3.2.3. Value of Works Executed:

- i. The Bidder must have executed works with a minimum total contract value of **[as specified in Contract Data Sheet]**, either individually or collectively across similar projects.
- ii. The value of such works should have been completed in the past **[5] years**.

3.2.4. Supporting Documentation: The Bidder shall submit the following documents to substantiate their technical experience:

- i. Completion certificates from the Employer or the client for each project undertaken.

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- ii. Detailed description of the project scope, including the Bidder's role and responsibilities.
- iii. Contract value and duration of the project.

Failure to provide the required documentation or evidence of similar project experience may result in the disqualification of the Bidder.

3.3. Specific Eligibility Criteria – refer Cl. 5.2 of CDS

Bidders must meet the following project-specific eligibility requirements based on the type of work they are bidding for:

3.3.1. Road Maintenance Works

- i. The Bidder must have successfully completed at least **three (3)** road maintenance projects on national or state highways within the **past five (5) years**.
- ii. The total value of these completed projects must be at least **for the amount as specified in Contract Data Sheet**, demonstrating financial capacity.
- iii. The scope of work should include periodic maintenance, overlays, and routine upkeep of road infrastructure.
- iv. The Bidder must own or have access to essential equipment such as milling machines, pavers, compactors, and hot-mix plants.
- v. Supporting documents: Project completion certificates, scope of work, and proof of equipment ownership/access.

3.3.2. Toll Management Works

- i. The Bidder must have a **minimum of two (2) years** of experience in toll plaza operation and management.
- ii. The total value of toll management contracts handled should reflect the Bidder's ability to manage toll revenue and operations.
- iii. Experience should include operation of electronic toll collection systems, manual toll collection, and revenue reconciliation.
- iv. Supporting documents: Performance certificates, reference letters, and toll operations reports.

3.3.3. Civil Works

- i. The Bidder must have completed civil engineering projects related to highway construction, bridge repairs, or related infrastructure.
- ii. The scope should include road construction, bituminous macadam, reinforced concrete structures, grading, and drainage systems.
- iii. The total value of such projects must be at least **[as specified in Contract Data Sheet]** amount within the **last five [5] years**.
- iv. The Bidder must own or have access to batching plants, transit mixers, bitumen sprayers, and crushers.
- v. Supporting documents: Project details, completion certificates, proof of equipment ownership/access.

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3.3.4. Electrical Works

- The Bidder must have experience in installation, operation, and maintenance of electrical systems for highways or toll plazas.
- Experience should cover highway lighting, traffic signals, and high-mast lighting installations.
- The total value of executed electrical works should be at least [as specified in Contract Data Sheet] amount.
- The Bidder must own or have access to cranes, hydraulic platforms, and certified testing devices.
- Supporting documents: Project completion certificates, safety compliance reports, and equipment access proof.

3.4. Technical Evaluation Criteria

The technical evaluation of the bids will be carried out based on the criteria outlined in the table below. Each bidder will be evaluated on the basis of the following parameters, and the maximum marks that can be awarded under each criterion are specified.

Minimum Qualifying Score - The bidder must achieve a minimum of **60 marks (out of 100)** in the technical evaluation to qualify for the financial bid opening. Bidders who score below the minimum qualifying score will not be considered further in the evaluation process.

3.4.1. Technical Evaluation Matrix

Sr.No.	Evaluation criteria & scoring guidance	Maximum Points
1	Minimum 3 Years' Experience in Similar field:	20
	03 Years to 5 Years: 10 Marks	
	> 5 Years to 10 Years: 15 Marks	
	> 10 Years: 20 Marks	
2	Cumulative Turnover for the Last Three years for Similar work:	25
	3 Crore to 5 Crore: 15 Marks	
	> 5 Crore to 10 Crore: 20 Marks	
	> 10 Crore: 25 Marks	
3	Experience and Capabilities in Similar works	40
	a) Experience of Similar works in the last 5 years	
	05 Projects to 07 Projects: 20 Marks	
	08 Projects to 10 Projects: 30 Marks	
	> 10 Projects: 40 Marks	
	<u>Documents Required:</u> WOs copies issued by client.	
4	Technical Team Strength & Experience:	15
	· Rating Criteria for this requirement will be as under:	
	<u>Project Manager (max marks:8)</u>	
	Experience of 5 years or more but less than 10 years in Similar work: 4 marks (1 mark each for 1 such personnel)	
	Experience of 10 years or more in Similar work - 8 marks (2 mark each for 1 such personnel)	

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Sr.No.	Evaluation criteria & scoring guidance	Maximum Points
	Highway cum Pavement Engineer(s): More than 5 years' experience on highway construction works (max marks:5)	
	1 mark each for 1 such personnel on rolls of the Bidder	

3.5. Documents to be Furnished

Bidders must provide the following documents to support their technical proposals. Failure to provide the required documents will result in disqualification:

3.5.1. General Eligibility Documents:

- Registration certificate of the bidder entity (including consortium or joint venture, if applicable).
- GST certificate.
- PAN card.
- A self-declaration stating that the bidder is not blacklisted by any government authority in India.

3.5.2. Technical Proposal Documents:

- A detailed technical approach and methodology document outlining the steps and processes to be followed.
- CVs and qualifications of key personnel, demonstrating their expertise in managing similar projects.
- List and description of the equipment and technology that will be used during the project.
- Equipment ownership or lease agreements.

3.5.3. Financial Documents:

- Audited financial statements for the last three financial years.
- Bank statements showing financial capacity.
- Proof of tax compliance.

3.5.4. Experience Documents:

- Completion certificates for at least three projects of a similar nature and scale, along with client references.
- Details of completed projects (including scope, value, and timelines) to substantiate the bidder's experience.

3.5.5. Safety and Environmental Management Documents:

- A safety management plan.
- Environmental compliance certificates or reports from previous projects.
- Details of any relevant certifications related to quality or safety management systems (e.g., ISO).

3.5.6. Previous Performance on NHAI/Highway Projects:

- Reference letters or performance certificates from clients for projects similar in scope or value.

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- b) Evidence of the bidder's past performance on NHA or highway projects.

3.5.7. Evaluation Methodology

The evaluation will be conducted in the following manner:

- i. **Step 1: Preliminary Scrutiny** – Checking completeness of documents.
- ii. **Step 2: Technical Evaluation** – Assessing bidder experience, project execution capability, equipment, and personnel based on the above matrix and document submitted.
Bidders must secure a minimum of 70 marks in the technical evaluation to move to the next stage.
- iii. **Step 3: Financial Qualification** – Evaluating financial soundness based on audited statements and turnover. Financial proposals of only those bidders who have qualified in the technical evaluation will be opened and evaluated.
- iv. **Step 4: Final Scoring & Selection** – Assigning weighted scores and finalizing technically qualified bidders.

The Client reserves the right to reject any technical proposal that does not meet the minimum requirements or fails to submit the requisite documents.

3.6. Financial Criteria (Net Worth, Turnover, etc.)

The Bidder must satisfy the **financial eligibility criteria** to ensure their financial stability and capacity to undertake and complete the project. Additionally, the evaluation of the **Financial Bids** shall consider compliance with cost structure, payment terms, and bid completeness. The criteria for financial evaluation are as follows:

3.6.1. Financial Eligibility Criteria:

The Bidder must meet the following financial requirements to qualify for bid evaluation:

- i. **Net Worth:** The Bidder must have a minimum net worth of **[as specified in Contract Data Sheet]** as of the most recent financial year. The net worth should be certified by a Chartered Accountant or an equivalent financial expert, and the certificate must be included with the bid.
- ii. **Annual Turnover:** The Bidder must have an average annual turnover of at least **[as specified in Contract Data sheet]** over the last **[3] financial years**. This turnover must be derived from core business activities related to infrastructure development and project management.
- iii. **Solvency and Credit Rating:** The Bidder should provide a letter from a recognized financial institution stating their current solvency and creditworthiness, which shall demonstrate their ability to mobilize funds for the project.
- iv. **Financial Documents:** The Bidder must submit the following:
 - a) Audited financial statements for the last **[3] years**, including profit and loss statements, balance sheets, and cash flow statements.
 - b) A certificate from a Chartered Accountant stating the average annual turnover and the net worth for the relevant period.

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- c) Any other documents that demonstrate the Bidder's financial strength, including letters of credit, bank statements, or solvency certificates, if applicable. Failure to meet the financial criteria or provide the required supporting documents may lead to the rejection of the bid.

3.6.2. Financial Bid Evaluation:

The Financial Bids of only the **technically qualified Bidders** shall be opened and evaluated to determine the **most advantageous offer**, considering the following:

- i. **Bid Price:** The overall price quoted by the Bidder shall be evaluated to ensure compliance with the cost structure and pricing details specified in the RFP. The Employer reserves the right to **reject any bid** if the pricing is deemed **excessively high or unreasonably low**.
- ii. **Conformance to Payment Terms:** The financial proposal must align with the **payment schedule and terms** defined in the RFP.
- iii. **Completeness of Financial Proposal:** The financial bid shall be assessed for **completeness**, ensuring that **all required items, works, and deliverables** under the Contract are properly priced.

The Financial Bid shall be evaluated based on the **Lowest Responsive Bid**, considering both the total cost and the value offered in terms of quality, safety, and timely execution. In case of a **tie**, the Employer may opt for **negotiations** or apply additional criteria to determine the final award.

3.7. Legal and Regulatory Requirements

The Bidder must comply with all applicable laws, regulations, and statutory obligations under Indian law, as well as the regulatory requirements set by the Employer, including but not limited to the following:

- 3.7.1. Incorporation and Legal Status:** The Bidder must be a legally constituted entity under Indian law, registered as a corporation, partnership, or joint venture. The Bidder must provide a copy of the certificate of incorporation, articles of association, and other relevant documents proving their legal status.
- 3.7.2. Tax Compliance:** The Bidder must submit a valid Goods and Services Tax (GST) registration certificate, along with evidence of good standing in compliance with all applicable tax obligations. In addition, the Bidder must have filed tax returns for the last **[5] years**.
- 3.7.3. No Litigation or Legal Disputes:** The Bidder must declare that they are not involved in any litigation or legal disputes that may affect their ability to perform the contract. The Bidder must submit a self-certification regarding the absence of any ongoing or past legal disputes, particularly those that may affect the project's execution.
- 3.7.4. Debarment or Blacklisting:** The Bidder must not be debarred, blacklisted, or otherwise disqualified from bidding on projects by NHIT and its subsidiaries, any government agency, department, or public authority. A declaration confirming this must be provided by the Bidder.
- 3.7.5. Other Regulatory Compliance:** The Bidder must comply with all relevant local, state, and central government laws and regulations, including but not limited to labor laws, environmental regulations, and safety standards. The Bidder must submit necessary documentation to demonstrate compliance with these regulatory requirements.

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Failure to meet these legal and regulatory requirements, or to provide the necessary documentation, may result in the rejection of the Bidder's proposal.

3.8. Disqualification Criteria

NHIT reserves the right to disqualify any bidder or Respondent, at its sole discretion, at any stage during the evaluation of proposals, in the event that the Respondent:

3.8.1. Late Submission:

Submits the proposal documents after the specified bid due date and time, regardless of the reason for delay.

3.8.2. Misrepresentation or False Information:

Makes any misleading or false representations, or provides false, inaccurate, or incomplete information in the forms, statements, or supporting documents submitted to demonstrate eligibility or compliance with the requirements.

3.8.3. Failure to Provide Clarifications:

Fails to provide relevant clarifications or additional information, as requested by NHIT, within the stipulated time frame.

3.8.4. Ineligibility Due to Debarment or Blacklisting:

The Respondent, or any of its directors, shall be deemed ineligible if they have been declared ineligible or debarred by any Central Public Sector Undertaking (CPSU), State Public Sector Undertaking (SPSU), government companies, government organizations, regulatory authorities, NHAI, NHIT, or NHIT's subsidiaries for involvement in corrupt practices, fraudulent conduct, or any other criminal activity. Additionally, any bidder found to be blacklisted by such entities will be disqualified from participation in this RFP process.

3.8.5. Mandatory Disclosure & Consequences of Non-Disclosure

The Bidder shall submit a self-declaration affidavit stating that neither the Bidder nor any of its directors or key personnel have been debarred or blacklisted by any entity mentioned in Clause 3.8.1.4. This affidavit shall be provided along with the bid submission.

In the event that NHIT discovers, at any stage of the bidding process or contract execution, that the Bidder was blacklisted or debarred at the time of submission and failed to disclose such information:

- i. The bid shall be summarily rejected, or the contract shall be terminated immediately.
- ii. NHIT shall forfeit any performance security or earnest money deposit (EMD) submitted by the Bidder.
- iii. NHIT reserves the right to recover damages for any financial, reputational, or operational loss incurred due to the misrepresentation.
- iv. The Bidder shall be permanently blacklisted from future NHIT projects.

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NHIT may also conduct background verification checks at its sole discretion to confirm the authenticity of the Bidder's disclosures. Any false statement, concealment, or misrepresentation shall be treated as fraudulent practice, and NHIT shall be entitled to take appropriate legal action.

3.8.6. Joint Venture (JV) Eligibility: Bidders submitting their proposal as a Joint Venture (JV) must strictly adhere to the eligibility criteria as specified in this RFP. Any JV submitted in a form other than that prescribed in this document will be deemed non-compliant. Such JV bidders shall be considered ineligible, and their bids will be summarily rejected without further consideration.

3.8.7. Disputes with NHIT Entities: Bidders who have an unresolved dispute with any NHIT entities or have previously defaulted in the provision of services or execution of works for NHIT shall be deemed ineligible to participate in this RFP. The Bidder's past performance with NHIT Entities will be thoroughly reviewed, and any history of defaults or contractual disputes may result in disqualification from the bidding process.

3.8.8. Non-Workable & Unjustified Bids

A Bidder shall be liable for disqualification from the RFP process or contract termination if the bid submitted is deemed non-workable, irrationally low, or lacking proper justification. The following conditions shall apply:

- i. **Unrealistic Pricing:** If NHIT determines that the Bidder has submitted an abnormally low bid that appears non-workable, with the potential to compromise project quality, financial viability, or timely completion.
- ii. **Failure to Justify Quoted Rates:** If the Bidder fails to submit a detailed rate analysis, cost breakdown, or backup documentation demonstrating the viability of the quoted rates within the stipulated time upon NHIT's request.
- iii. **Inability to Provide Work Methodology:** If the Bidder is unable to furnish a credible work methodology, resource allocation plan, or execution strategy ensuring compliance with project deliverables as outlined in the scope document.
- iv. **Malafide Intentions or Price Disruption:** If it is reasonably established that the Bidder has deliberately submitted an abnormally low bid with mala-fide intent to manipulate prices, disrupt fair competition, or create a non-competitive market scenario.
- v. **Non-Compliance with Deliverables:** If the quoted rates, work methodology, or resource commitments fail to meet the scope and quality requirements, thereby affecting project execution, NHIT reserves the right to disqualify the Bidder at any stage of the bidding or execution process.

NHIT, at its sole discretion, may seek additional clarifications, rate justifications, or performance commitments from the Bidder. If the Bidder fails to provide satisfactory explanations or evidence of feasibility, NHIT reserves the right to:

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- a) Disqualify the Bidder from the tender process.
- b) Terminate the contract if already awarded.
- c) Invoke performance security and recover damages for project risks caused due to the non-workable bid.
- d) Blacklisting the Bidder from future NHIT projects.

NHIT's decision in assessing the workability of the bid shall be final and binding, and no claims or disputes regarding disqualification under this clause shall be entertained.

General Provisions:

- **NHIT** reserves the right to evaluate the responsiveness, eligibility, and qualification of Bidders based on the information provided in the proposal and any clarifications sought by **NHIT**.

The decision to disqualify a Bidder under the above criteria shall be final and binding, and no claims for compensation or reconsideration shall be entertained.

3.8.9. Disqualification for Duplicate Bids or Collusion

A bidder shall be disqualified from the RFP process, and their bid shall be summarily rejected, if at any stage NHIT determines that:

- i. **Duplicate or Multiple Bids** – The Bidder has submitted more than one bid for the same project, either directly or indirectly, through different entities, Joint Ventures, Consortiums, or affiliated companies, in violation of Clause 2.2.1.5.
- ii. **Collusion with NHIT Employees** – The Bidder is found to have engaged in direct or indirect collusion with any NHIT employee, representative, or consultant to gain an unfair advantage in the bidding process.
- iii. **Prohibition on Collusion Among Bidders**

"Collusion Among Bidders: If NHIT determines that two or more Bidders have engaged in any form of collusion, cartelization, price-fixing, bid rotation, or any other anti-competitive practice to manipulate the bidding process or restrict fair competition, all such Bidders shall be immediately disqualified from the RFP process.

In addition, NHIT reserves the right to:

- a. Forfeit the Earnest Money Deposit (EMD) or Performance Security of the colluding Bidders.
- b. Blacklist the involved Bidders from future NHIT tenders for a specified period.
- c. Report the collusion to relevant regulatory authorities for further legal action.

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The determination of collusion shall be at NHIT's sole discretion and may be based on direct evidence, circumstantial findings, or independent investigation. Any such decision shall be final and binding, with no claims entertained from the affected Bidders.

- iv. **Fraudulent or Manipulative Practices** – The Bidder has attempted to influence the RFP process by unethical means, including bribery, coercion, or unauthorized communication with NHIT officials regarding bid evaluation.

If any of the above violations are detected at any stage of the RFP process or contract execution, NHIT reserves the right to:

- a) Reject the bid immediately without further evaluation.
- b) Terminate the contract if already awarded.
- c) Forfeit the Earnest Money Deposit (EMD) or Performance Security.
- d) Blacklist the Bidder from participating in future NHIT projects.
- e) Initiate legal proceedings as per applicable laws.

NHIT shall not be liable for any claims, damages, or expenses incurred by the Bidder due to disqualification under this clause.

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4. Project Information

As provided in the Contract Data Sheet

4.1. Scope of Work

The Scope of Work under this Request for Proposal (RFP) is outlined in detail in **Annexure [C2]**, which constitutes an integral and binding part of this document. The works to be undertaken by the successful bidder shall align with the objectives of this RFP and encompass activities associated with the maintenance, management, procurement, or consultancy of road infrastructure and allied systems.

The successful bidder shall assume full responsibility for the planning, execution, and completion of the assigned works in strict accordance with the terms and conditions set forth in the contract agreement. This includes unwavering adherence to all applicable technical standards, specifications, and industry best practices, ensuring compliance with quality, safety, environmental, and statutory requirements at all stages of the project.

All works shall be executed with the highest standards of professionalism, diligence, and efficiency, ensuring the timely delivery of services while minimizing disruptions to ongoing operations. The bidder shall deploy appropriate and adequate resources, including skilled personnel, equipment, and materials, to achieve the objectives outlined in the detailed Scope of Work.

The specific obligations, deliverables, timelines, and performance metrics are comprehensively detailed in **Annexure [C2]**, which forms an integral and binding part of this RFP. Bidders are required to thoroughly review, comprehend, and unconditionally acknowledge the provisions set forth in **Annexure [C2]** as a mandatory prerequisite for submitting their proposals. Non-compliance with this requirement may result in the rejection of the proposal.

Furthermore, the bidder shall proactively address any challenges or deviations encountered during the execution of the works, ensuring prompt communication with the contracting authority and effective resolution of issues in alignment with the contract terms.

The Bidder is required to carefully review the entire Scope of Work to ensure they understand all the activities and responsibilities entailed in the project execution.

4.2. Site Details and Location Maps

This section provides essential information about the project site, including site conditions, access, and any specific challenges that may affect the execution of the works. The Bidder must thoroughly review these details to assess the feasibility and plan for project implementation.

- 4.2.1. Site Location:** The project is located at **Annexure [C4]**. The exact coordinates of the site can be found in the attached site location maps. The site is accessible via [insert access roads]

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and is situated in proximity to key transport hubs, making transportation of materials and equipment relatively easy.

4.2.2. Topographical and Site Conditions: The site consists of [refer Annexure [C4]]. The existing road network requires maintenance and repair works, including resurfacing, drainage improvements, and signages.

4.2.3. Site Restrictions: The Bidder must consider the following site-specific factors:

- i. **Right of Way:** Ensure access to the site without any encumbrances.
- ii. **Traffic Management:** Special consideration must be given to managing traffic during working hours, including diversions and road closures as necessary.
- iii. **Space Availability:** The available area for material storage, equipment placement, and construction camps is limited and needs careful planning.

4.2.4. Location Maps:

- i. Detailed location maps, site layouts, and access points are provided in the **Annexure [C4]** for the Bidder's reference. These maps should be reviewed thoroughly to understand site boundaries, existing infrastructure, and areas of work.

4.2.5. Pre-Construction Surveys: The Contractor is required to carry out their own survey to verify the existing conditions of the site, including sub-soil investigations, topographic surveys, and geotechnical assessments. These surveys will form the baseline for the execution of the works.

The Bidder must submit a plan for the logistics and execution of works, considering the site-specific challenges and requirements outlined above.

4.3. Environmental and Statutory Clearances

The Contractor is responsible for ensuring that all necessary environmental and statutory clearances are obtained prior to commencing any works on the project site. This section provides an overview of the clearances required and the expectations for compliance with environmental and statutory regulations.

4.3.1. Environmental Clearances: The project must adhere to the environmental regulations set forth by the Ministry of Environment, Forest and Climate Change (MoEFCC) and other relevant authorities. The Contractor must ensure compliance with the following:

- i. **Environmental Impact Assessment (EIA):** The Contractor must obtain an EIA approval if required for the nature and scope of the work.
- ii. **Air, Water, and Noise Pollution Control:** The Contractor must implement measures to mitigate air, water, and noise pollution during the construction phase in accordance with the prescribed limits and guidelines.
- iii. **Waste Management:** The Contractor must implement a waste management plan, including the disposal of construction debris, hazardous materials, and non-hazardous waste, ensuring compliance with local regulations.

4.3.2. Statutory Clearances: The following statutory clearances must be obtained by the Contractor before work commences:

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- i. **Permits for Excavation and Groundwork:** Approvals from local authorities for any excavation and groundwork activities.
 - ii. **Clearance for Traffic Diversion:** Approval from relevant traffic authorities for any required road closures or diversions during the work.
 - iii. **Land Use and Building Approvals:** Any necessary approvals from local authorities regarding land use or construction work.
- 4.3.3. Compliance and Documentation:** The Contractor shall submit copies of all clearance certificates, permits, and approvals obtained from the relevant authorities. These documents must be provided as part of the pre-construction documentation before the commencement of the work.
- 4.3.4. Environmental Management Plan (EMP):** The Contractor shall prepare an Environmental Management Plan (EMP) that outlines the measures to be implemented to protect the environment throughout the project lifecycle. The EMP shall include details on waste management, pollution control, and mitigation measures for any environmental impacts identified during the pre-construction surveys. **Detailed Format for Environmental Management Plan (EMP) is given in Section 16.**

The Contractor shall be responsible for the timely acquisition of all necessary clearances and ensuring that the work is carried out in full compliance with environmental and statutory requirements.

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5. Terms and Conditions of Contract

5.1. General Conditions of Contract (GCC)

The General Conditions of Contract (GCC) shall govern the contractual relationship between the Employer and the Contractor, detailing the rights, obligations, and responsibilities of both parties. The GCC provides comprehensive terms covering scope, performance standards, payment terms, safety measures, dispute resolution mechanisms, and termination conditions, among other relevant provisions.

The GCC forms an integral part of this RFP and is appended as **Annexure [A1]** for reference. Bidders are advised to carefully review the GCC to ensure complete understanding and compliance. By submitting their Proposal, Bidders confirm their acceptance of the terms outlined in the GCC, except for any deviations explicitly stated and agreed upon during the bid evaluation process.

In case of any inconsistency between the provisions of this RFP and the GCC, the provisions of the GCC shall prevail unless explicitly stated otherwise in the Special Conditions of Contract (SCC) or other contractual documents.

5.2. Special Conditions of Contract (SCC)

The Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC) and shall specify project-specific requirements, terms, and obligations applicable to the execution of the contract.

The SCC is designed to address particular aspects of the project, including but not limited to scope variations, additional responsibilities, payment milestones, performance security, warranties, and project timelines. In case of any conflict between the GCC and SCC, the provisions of the SCC shall prevail to the extent of such conflict.

The detailed Special Conditions of Contract are provided as an **Annexure [A2]** to this RFP document. Bidders are advised to thoroughly review the SCC and incorporate its provisions into their bids. The SCC forms an integral part of the contract and shall be binding on all parties upon the signing of the agreement.

5.3. Contract Data (Project-Specific Details)

The Contract Data provides essential project-specific details that supplement the General and Special Conditions of the Contract. These details are integral to understanding the scope, execution, and management of the contract. The Contract Data shall be referenced by all Bidders during the preparation and submission of their Bids and by the successful Bidder during project execution.

All relevant project-specific information, including but not limited to, the following, shall be included in the Contract Data and annexed to this RFP:

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- a) **Project Title and Location:** A brief description of the project and its geographical location.
- b) **Scope of Work:** Outline of key deliverables, milestones, and specific requirements.
- c) **Key Dates and Timeframes:** Including Bid submission deadlines, contract commencement date, and project completion timelines.
- d) **Payment Terms:** Details regarding billing cycles, interim payments, and final settlement.
- e) **Performance Requirements:** Any specific performance indicators or metrics applicable to the project.
- f) **List of Minimum Equipment:** Required machinery and tools to be owned or deployed by the contractor, as applicable.
- g) **Quality Standards and Testing Protocols:** Reference to applicable standards and frequency of testing, if any.
- h) **Safety and Environmental Compliance:** Specific safety and environmental guidelines for the project.
- i) **Contact Points:** Designated representatives for communication and coordination, including their roles and responsibilities.

The detailed **Contract Data** is provided as **Annexure [C1]** of this RFP and forms an integral part of the bidding documents. Bidders are advised to review the Annexure thoroughly to ensure their Bids are compliant with the project-specific requirements. Any clarifications regarding the Contract Data must be sought in accordance with the procedure outlined in **Clause No. [2.5 – Clarifications and Addendum]** of this RFP.

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6. Design and Construction Requirements

6.1. Design Requirements

The Contractor shall ensure that all designs conform to:

- MORTH Specifications for Road and Bridge Works (5th Revision) published by IRC.
- Relevant IRC codes and guidelines.
- Relevant IS codes and standards.

Design submissions must align with the project's functional and safety requirements, incorporating:

- Detailed design reports, calculations, and drawings for structural and non-structural components.
- Safety provisions, environmental sustainability, and traffic management plans.

All design requirements are detailed in **Annexure [C5]**, which includes specific parameters and submission protocols.

6.2. Construction Requirements

All construction activities shall comply with:

- MORTH Specifications for Road and Bridge Works (5th Revision).
- Approved project schedules and methodologies.
- Standards for material quality, workmanship, and safety.

The Contractor must ensure testing, quality assurance, and the use of appropriate equipment. Non-compliance shall be subject to penalties as specified in the contract. For further details, refer to **Annexure [C6]**.

6.3. Technical Specifications

All technical specifications shall strictly follow:

- MORTH Specifications for Road and Bridge Works (5th Revision).
- Relevant IRC codes for design, materials, and construction.
- Relevant IS codes for materials, testing, and compliance.

The detailed technical specifications for the project are provided in **Annexure [C7]**. Any deviations require prior approval from **NHIT**.

6.4. Approved Drawings (Plans, Layouts, Sections, etc.)

The project shall be executed in strict accordance with the approved drawings, which include:

- General Arrangement Drawings (GAD), detailed layouts, and sections.
- Structural reinforcement details and material specifications.
- Utility layouts and drainage systems.

The approved drawings are appended as **Annexure [C8]**. Any revisions or updates shall be issued formally by **NHIT**.

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6.5. Utility Shifting Guidelines (if applicable)

If utility shifting is part of the project scope, the Contractor shall:

- i. Follow the protocols outlined in MoRTH Specifications for Road and Bridge Works (5th Revision) and relevant IRC/IS codes.
- ii. Liaise with utility owners to minimize disruptions.
- iii. Ensure proper safety, environmental compliance, and timely execution.

Detailed guidelines for utility shifting, including coordination protocols and safety measures, are provided in **Annexure [A4]**.

Note

All technical specifications, drawings, and guidelines shall adhere to the latest editions of MoRTH Specifications for Road and Bridge Works (5th Revision), relevant IRC codes, and IS codes. Annexures referenced in this section are integral to the RFP document.

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7. Quality Assurance and Control Requirements

7.1. Standards to be Adhered to (MoRTH, IRC, IS, etc.)

Standards to be Adhered to

The Contractor shall strictly follow the latest versions of the following standards for all aspects of quality assurance and control:

1. **MoRTH Specifications for Road and Bridge Works (5th Revision):**
 - i. **Clause No. 900**, which comprehensively addresses quality management and control measures for road and bridge works.
2. **Relevant IRC Codes:**
 - i. For design, materials, and construction practices.
3. **Relevant IS Codes:**
 - i. For testing methods, material standards, and compliance procedures.

All testing, inspections, and certifications shall conform to the guidelines outlined in these codes. Where discrepancies arise, the most stringent requirement shall prevail.

7.2. Contractor's QA/QC Obligations

The Contractor is required to implement a robust QA/QC plan as per **Clause No. 900** of the **MoRTH Specifications for Road and Bridge Works (5th Revision)**, which includes but is not limited to:

1. **Establishment of a QA/QC System:**
 - i. Develop and submit a comprehensive QA/QC plan for approval prior to the commencement of works.
 - ii. Designate a dedicated QA/QC manager and support team responsible for quality management.
2. **Material Testing and Certification:**
 - i. Conduct all material testing in accordance with the relevant IRC and IS codes.
 - ii. Submit test results and certifications from approved laboratories as per project requirements.
3. **Inspection and Approval:**
 - i. Facilitate inspections by the Engineer or authorized representatives at all stages of work.
 - ii. Obtain prior approval for materials, equipment, and methodologies before use or implementation.
4. **Documentation and Reporting:**
 - i. Maintain detailed records of all QA/QC activities, including test reports, inspection logs, and certifications.
 - ii. Submit periodic quality reports to the Engineer for review and verification.
5. **Rectification of Defects:**
 - i. Address any defects or non-compliance issues promptly as identified during inspections or audits.

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- ii. Ensure that rectification measures conform to the approved standards and specifications.

6. Site Laboratory and Testing Facilities:

- i. Establish a fully equipped site laboratory to conduct routine tests.
- ii. Ensure availability of trained personnel to perform and validate tests as required.

Failure to comply with QA/QC obligations may lead to penalties, suspension of work, or termination of the contract, as deemed appropriate by the Employer.

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8. Health, Safety, and Environmental (HSE) Guidelines

This section establishes the mandatory Health, Safety, and Environmental (HSE) guidelines that the Contractor must adhere to during the execution of the project. The Contractor is obligated to implement appropriate measures to ensure the safety of workers, the protection of the environment, and compliance with statutory regulations.

8.1. HSE Requirements

The Contractor shall be responsible for ensuring the health, safety, and welfare of all persons employed or engaged in the performance of the work. Additionally, the Contractor must take all necessary precautions to protect the environment, ensure the safety of the general public, and minimize disruptions to traffic and nearby properties. Strict adherence to traffic management protocols, construction best practices, and all applicable health, safety, and environmental (HSE) regulations is mandatory. The Contractor shall comply with NHIT's HSE Policy & Requirements as detailed in **Annexure [A5]** of this RFP throughout the project duration.

The following HSE guidelines must be strictly adhered to throughout the project duration:

1. General HSE Obligations:

- i. The Contractor shall implement all necessary measures to safeguard the health and safety of workers, visitors, and any other persons who may be affected by the project activities.
- ii. The Contractor shall provide and maintain a safe working environment, free from recognized hazards that could cause injury or illness. The working conditions shall comply with all applicable national and international standards, including but not limited to the **Factories Act, 1948, The Environment Protection Act, 1986, The Occupational Safety, Health and Working Conditions Code, 2020, and International Labour Organization (ILO) standards.**
- iii. The Contractor shall conduct risk assessments regularly and take proactive steps to mitigate any identified risks. All work practices shall be reviewed periodically to ensure compliance with the latest safety regulations and standards.

2. Health and Safety Procedures:

- i. The Contractor shall establish a **Health and Safety Management Plan (HSMP)** before commencing work, detailing the procedures and controls to be implemented. The HSMP shall include procedures for emergency response, first aid, medical services, and accident reporting.
- ii. The Contractor shall provide personal protective equipment (PPE) to all workers and ensure its proper use. PPE includes, but is not limited to, helmets, safety boots, gloves, goggles, ear protection, and high-visibility clothing.
- iii. The Contractor shall ensure that all workers are adequately trained on health and safety protocols, emergency procedures, and the proper use of equipment. Regular safety drills and training sessions must be conducted and documented.
- iv. A **Health and Safety Officer** shall be appointed to oversee the implementation of the HSMP and ensure compliance with all safety regulations. The Health and Safety

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Officer will be responsible for reporting safety violations and making recommendations for corrective actions.

3. Emergency Preparedness:

- i. The Contractor shall establish emergency response procedures for various contingencies, including fire, medical emergencies, natural disasters, and accidents. These procedures must be communicated to all personnel, and emergency response drills shall be conducted periodically.
- ii. A **first-aid kit** and emergency medical services shall be readily available at the worksite. The Contractor must ensure that all workers are familiar with the location of the emergency facilities and the procedures for requesting emergency assistance.

4. Reporting and Record-Keeping:

- i. The Contractor shall maintain comprehensive records of all health and safety incidents, including accidents, injuries, near-misses, and corrective actions taken. These records must be submitted regularly to the Employer for review.
- ii. In case of any significant accident or incident, the Contractor shall provide an immediate report to the Employer and the relevant authorities, along with a detailed investigation into the cause and corrective measures.

5. Subcontractor Compliance:

- i. The Contractor shall ensure that all subcontractors engaged in the project adhere to the same high standards of health and safety. The Contractor shall be responsible for ensuring that subcontractors comply with the HSE requirements and shall monitor their performance accordingly.

6. Non-Compliance Penalties:

- i. Failure to comply with the HSE guidelines may result in penalties, work stoppages, or contract termination. The Employer reserves the right to take corrective action in case of persistent non-compliance.

8.2. Environmental Management Plan (EMP)

The Contractor shall prepare and implement an **Environmental Management Plan (EMP)** to ensure the project is executed in a manner that minimizes environmental impact. The EMP shall detail the specific actions to be taken to mitigate adverse environmental effects arising from the project and ensure compliance with environmental regulations. **Detailed Format for Environmental Management Plan (EMP) is given in Section 16.**

1. General Environmental Obligations:

- i. The Contractor shall comply with all relevant environmental laws, regulations, and guidelines, including those set by the **Ministry of Environment, Forest and Climate Change (MoEFCC)**, the **Environmental Protection Act, 1986**, and **State Pollution Control Boards**. The EMP must be designed in accordance with these regulations to minimize pollution and protect natural resources.

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- ii. The EMP must include provisions for environmental monitoring and compliance audits to assess the project's adherence to environmental standards and regulations.
2. **Mitigation of Environmental Impacts:** The EMP shall address the following environmental impacts, among others:
 - i. **Air Quality:** Measures to control dust, emissions from vehicles, and other pollutants during construction activities. Dust suppression techniques, such as water spraying and the use of dust barriers, shall be implemented.
 - ii. **Water Quality:** The Contractor shall ensure that water bodies in and around the project area are protected from contamination due to construction activities. Measures shall be taken to manage runoff, prevent spillage of hazardous materials, and treat wastewater as per legal requirements.
 - iii. **Waste Management:** The Contractor shall implement a waste management strategy that includes the collection, segregation, recycling, and disposal of waste materials. Hazardous and non-hazardous wastes must be handled separately, with proper disposal methods to avoid environmental harm.
 - iv. **Noise and Vibration:** The Contractor shall take necessary precautions to limit noise and vibration levels at the site. The use of noise barriers, the maintenance of machinery, and compliance with permissible noise limits shall be part of the mitigation measures.
 - v. **Ecological Impact:** If the project site affects flora and fauna, the EMP shall include a detailed plan for the conservation of biodiversity, including the protection of existing vegetation, wildlife, and endangered species.
3. **Monitoring and Compliance:**
 - i. The Contractor shall conduct regular environmental monitoring to assess the effectiveness of the mitigation measures and identify any unforeseen environmental impacts.
 - ii. Environmental audits shall be conducted at regular intervals, and the Contractor shall submit the results of these audits to the Employer.
 - iii. The Contractor shall cooperate with the authorities and provide access to the site for inspection of environmental compliance.
4. **Waste Disposal and Resource Management:**
 - i. The Contractor shall ensure the proper disposal of construction debris and hazardous materials in compliance with relevant environmental guidelines.
 - ii. The EMP shall include measures for resource conservation, such as energy-efficient construction methods, use of sustainable materials, and water conservation during the execution of the project.
5. **Emergency Response for Environmental Incidents:**
 - i. In the event of an environmental accident, such as a chemical spill or fuel leak, the Contractor shall have a response plan in place, including immediate containment measures, notification procedures, and mitigation actions. The Employer shall be

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notified immediately, and corrective actions must be taken to prevent further damage.

6. Environmental Training:

- i. The Contractor shall provide environmental awareness training to all workers and subcontractors involved in the project. This training shall focus on the importance of environmental protection, waste management, and the proper use of equipment to minimize environmental impacts.

7. Reporting and Documentation:

- i. The Contractor shall maintain detailed records of all environmental activities, including waste management, emissions control, and monitoring results. These records shall be made available to the Employer and relevant authorities upon request.

8. Compliance Audits:

- i. The Employer reserves the right to conduct independent environmental compliance audits, at their discretion, to assess the Contractor's adherence to the EMP. If the Contractor is found to be non-compliant, corrective measures shall be required within a specified time frame.

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9. Financial Proposal

9.1. Format for Financial Bid Submission

On the Letterhead of the Bidder

Financial Proposal

From:

<Name and Address of the Bidder>

To:

Mr. [name & designation shall be as specified in Contract Data Sheet]

NHIT Eastern Projects Private Limited

Unit No.: 324, 3rd Floor, D21 - Corporate Park

Sector-21, Dwarka, Delhi - 110077

Subject: Financial Proposal for RFP Issued by NHIT Eastern Projects Private Limited (NEPPL) for Engagement of Agency/Firm for Pavement Repair & Rehabilitation work for Rewa Katni Jabalpur Lakhnadon Road Project (RKJL) in the state of Madhya Pradesh.

Financial Offer

The financial offer, inclusive of all costs except GST, is presented below:

Sr. No.	Particulars	Amount (INR)
1	Refer Annexure [C3]	

Note: A detailed cost breakup is provided in the attached Bill of Quantities (BoQ).

Name & Signature of Bidder's Authorized Signatory

Date:

Instructions for Bidders

1. The financial offer must be quoted in Indian Rupees, limited to two decimal places, and shall remain firm throughout the contract period.
2. The quoted fee must be inclusive of all charges except GST, which will be paid as applicable. Taxes should be shown separately while submitting invoices for payment.
3. Withholding taxes, as applicable, will be deducted at the time of payment.
4. A detailed BoQ with cost breakup should accompany this proposal.

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9.2. Payment Schedule

The payment schedule for the works shall be governed by the provisions outlined in the **Contract Data Sheet** and shall conform to the terms specified in the General Conditions of Contract (GCC) and Special Conditions of Contract (SCC). Payments may be structured as either **Milestone-Based** or **BoQ-Based**, as defined in the Contract Data.

- **Milestone-Based Payments:** Payments shall correspond to the measurable and certified completion of specific activities or project milestones, as defined in the approved Scope of Work and the agreed construction program. The certification of milestones by the Engineer/Authority's Representative shall be mandatory for processing payment claims.
- **BoQ-Based Payments:** Payments shall be made against the actual quantities of work executed, measured, and certified as per the mode of measurement specified in the Contract Data and BoQ. The contractor shall submit Interim Payment Certificates (IPCs) based on quantities executed, supported by appropriate documentation, including detailed measurement sheets and verification reports. Payment shall be made at the agreed unit rates for the items specified in the BoQ, subject to the terms of the Contract.

For both methods, advance payments, if applicable, shall be disbursed upon submission of an acceptable Advance Payment Bank Guarantee. Deductions for retention money, performance securities, liquidated damages, and any other amounts stipulated in the Contract shall apply uniformly.

The final payment shall be released upon successful completion of all contractual obligations, including rectification of defects during the Defects Liability Period (DLP), submission of "As-Built Drawings," and certification of the Final Payment Certificate by the Engineer/Authority's Representative. Payments shall be processed within the timelines specified in the Contract and shall be subject to compliance with all contractual conditions.

9.3. Bill of Quantities

The Bill of Quantities (BoQ) provided in the **Annexure [C3]** forms an integral part of the Contract and specifies the estimated quantities, unit rates, and total cost for each item of work. The contractor is required to execute the works strictly in accordance with the BoQ, the drawings, and the technical specifications outlined in the Contract.

The quantities mentioned in the BoQ are indicative and subject to variations as per the provisions of the GCC. The contractor shall not execute quantities beyond the variation limits stipulated in the Contract Data without prior written approval from the Authority.

The Engineer/Authority's Representative shall certify all measurements and variations in accordance with the specified mode of measurement. Payment for items shall be made at the agreed unit rates for the actual work done, as certified.

The contractor shall ensure proper documentation and submission of records, including daily progress reports, to support all claims under the BoQ. Any disputes related to measurements or

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quantities shall be resolved as per the provisions of the Dispute Resolution Mechanism in the Contract.

9.4. Right to Renegotiate or Re-Tender

The Client reserves the right to renegotiate the prices or initiate a separate tendering process if the total contract value or the executed quantities exceed the limits specified in the Contract Data Sheet. In the event that no such limits are provided in the Contract Data Sheet, the limit shall be **125% of the total contract value and 125% for any specific item.**

The Contractor shall not claim any automatic entitlement to execute additional quantities beyond the agreed contractual limits. Any renegotiation or additional award shall be subject to mutual agreement and approval by the Client.

9.5. Taxation Details

The Contractor shall be solely responsible for the payment of all applicable taxes, duties, levies, and other statutory charges, whether existing or arising during the Contract period, except for Goods and Services Tax (GST), which shall be paid separately by the Authority at the prevailing rates.

The Contractor shall issue GST-compliant tax invoices for every claim, incorporating their valid GST Registration Number and the applicable GST rates. Any input tax credits availed by the Authority shall be adjusted against payments due to the Contractor. Failure to comply with GST regulations, including timely submission of invoices and returns, shall result in penalties as provided under the governing laws and the Contract.

The Contractor shall indemnify the Authority against any liabilities, losses, or penalties arising out of non-compliance with applicable tax laws. If there is any change in applicable tax laws or the introduction of new taxes during the Contract period, such changes shall be dealt with in accordance with the GCC.

It shall be the Contractor's obligation to ensure compliance with all statutory requirements and provide evidence of tax deposits upon request by the Authority. Any tax-related disputes shall be handled in accordance with the provisions of the Contract and the applicable laws of the jurisdiction.

10. Performance and Security Documents

10.1. Performance Security Template (Annexure [B2])

The Contractor shall furnish a Performance Security in the form of an unconditional and irrevocable Bank Guarantee issued by a Scheduled Commercial Bank in India or any other bank acceptable to the Authority, in the format provided in the Contract Data. The Performance Security shall be submitted within the timeline stipulated in the Letter of Acceptance (LOA) and prior to the signing of the Contract Agreement.

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The amount of the Performance Security shall be equivalent to the percentage of the Accepted Contract Amount as specified in the Contract Data and shall remain valid until the expiry of the Defects Liability Period (DLP) or any extension thereof, including an additional claim period of 60 (sixty) days.

In the event of the Contractor's failure to perform any of its obligations under the Contract, the Authority shall have the right to invoke the Performance Security, either in part or in full, without prior notice to the Contractor. Such invocation shall not absolve the Contractor from its contractual obligations or liabilities.

The Contractor shall ensure that the Performance Security is renewed or replaced as and when required, to maintain its validity as per the Contract terms. Failure to maintain valid Performance Security shall be treated as a material breach, entitling the Authority to take appropriate action, including termination of the Contract.

10.2. Bank Guarantee Template (for Advance Payment) (Annexure [B3])

If an advance payment is agreed upon, the Contractor shall furnish an Advance Payment Bank Guarantee (APBG) in the prescribed format provided in the Contract Data. The APBG shall be issued by a Scheduled Commercial Bank in India or any other bank acceptable to the Authority, and it shall be equivalent to the amount of the advance payment sanctioned under the Contract.

The APBG shall be unconditional and irrevocable, ensuring repayment of the advance payment in the event of default by the Contractor. The guarantee shall remain valid until the advance payment is fully adjusted against interim payments or until the date specified in the Contract Data, whichever is earlier.

The Authority shall have the right to invoke the APBG, either partially or fully, if the Contractor fails to utilize the advance payment for the intended purpose, defaults in executing the Works, or breaches any terms of the Contract.

The advance payment shall be recovered progressively from the Contractor's Interim Payment Certificates (IPCs) as per the recovery schedule specified in the Contract Data. The recovery of the advance payment shall commence from the first IPC and shall be completed before the value of work executed reaches 80% of the Accepted Contract Amount.

The Contractor shall ensure timely renewal or extension of the APBG to maintain its validity as required under the Contract. Any failure to provide or maintain a valid APBG shall result in suspension of payments to the Contractor and may lead to termination of the Contract.

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11. Supplementary Information for Bidders

11.1. Draft Contract Agreement

The Draft Contract Agreement forms an integral part of this Request for Proposal (RFP) document. It outlines the comprehensive terms and conditions governing the execution of the project, including but not limited to, the obligations of the parties, payment terms, scope of work, timelines, quality assurance requirements, performance security, and provisions for dispute resolution.

The Draft Contract Agreement is attached as **Annexure [C9]** for reference and must be carefully reviewed by all bidders to ensure full understanding and compliance. Any deviations or modifications to the terms of the Draft Contract Agreement will not be entertained post-award unless expressly agreed upon by the Authority.

By submitting their bids, bidders confirm their unconditional acceptance of the terms and conditions stipulated in the Draft Contract Agreement. The successful bidder will be required to execute this agreement in its present form, subject to any project-specific amendments as notified by the Authority.

11.2. List of Approved Vendors (wherever applicable)

The List of Approved Vendors, as specified by the NHIT, **comprises manufacturers, suppliers, and service providers approved for the procurement of materials, equipment, and services required for the project.** This list ensures compliance with prescribed quality standards, enhances reliability, and promotes efficiency in project execution.

The successful bidder shall procure materials and services exclusively from the vendors listed in **Annexure [A3]**, unless prior written approval is obtained from the Authority for alternate vendors. Any deviation from this requirement without authorization may result in penalties or other remedial actions as deemed appropriate by the Authority.

The bidders are advised to review the List of Approved Vendors in **Annexure [A3]** to assess the availability and suitability of vendors for the project's specific requirements. This list is subject to periodic revisions, and the Authority reserves the right to amend or update the list during the execution of the contract, as necessary.

11.3. Dispute Resolution Mechanism (Clause No. 18 of GCC)

Dispute Notification and Procedure

The Contractor shall notify the Client in writing within 7 days of the occurrence of any dispute, difference, or claim that requires resolution. The notice should clearly detail the nature of the dispute, relevant facts, and the legal or factual basis for the claim. Upon receipt of the dispute notice, the Client and Contractor shall engage in discussions for a period not exceeding 30 days to attempt an amicable settlement.

11.3.1. Amicable Settlement

In the event of any dispute, difference, or claim arising between the Client and the Contractor in connection with or related to the Contract, the parties shall first attempt to

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resolve such dispute amicably through mutual consultation and negotiation. The party initiating the dispute (the "Notifying Party") shall notify the other party in writing, clearly outlining the nature and scope of the dispute. Both parties shall make all reasonable efforts to settle the dispute, amicably, within 30 days from the date of notification.

If the dispute remains unresolved after this period, the decision of the Client's CEO shall be final and binding on both parties. Should the decision of the Client's CEO not be acceptable, and the dispute persists, the matter shall proceed to the Dispute Resolution process as outlined below.

11.3.2. Dispute Resolution Board (DRB)

If the dispute remains unresolved after the amicable settlement period, the dispute shall be referred to a Dispute Resolution Board (DRB).

- a) The DRB will be constituted solely from the senior management team of the Client at its Head Office (HO). No external person or third party will be involved in this process.
- b) The DRB shall be tasked with reviewing the dispute and providing a recommendation or resolution within 45 days from the date the dispute is referred to it. The decision of the DRB shall be binding on both parties unless challenged under the Arbitration **Clause No. 11.3.4** below.
- c) In the event the DRB fails to resolve the dispute within the prescribed time, or if either party is dissatisfied with the DRB's decision, the dispute will proceed to arbitration.

11.3.3. Arbitration

If the dispute remains unresolved after mediation, the dispute shall be referred to and resolved through arbitration in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time.

- a) **In cases where the disputed amount is up to INR 1.5 Crore**, the arbitration shall be conducted by a sole arbitrator appointed by the Client.
- b) **In cases where the disputed amount exceeds INR 1.5 Crore**, three arbitrators shall be appointed. One arbitrator shall be appointed by the Client, one by the Contractor, and the third arbitrator shall be appointed by the two previously appointed arbitrators. In case the two arbitrators fail to agree on the appointment of the third arbitrator, the third arbitrator shall be appointed by the relevant arbitration institution in New Delhi.
- c) The arbitration proceedings shall be held in New Delhi, India, and the language of arbitration shall be English. The arbitrator's decision shall be final and binding on both parties. The cost of arbitration, including the arbitrator's fees, shall be borne equally by the parties unless otherwise awarded by the arbitrator.

11.3.4. Jurisdiction and Venue

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The courts at Delhi, India, shall have exclusive jurisdiction over all disputes and legal proceedings arising from or relating to the Contract. Both parties expressly consent to the jurisdiction of the courts at Delhi for the purpose of enforcement of any judgment or award.

11.3.5. Interim Relief

Notwithstanding the above, either party may seek interim relief from a court of competent jurisdiction at any time before or during the dispute resolution process, in order to preserve its rights or prevent any irreparable damage or harm.

11.3.6. No Suspension of Work

The Contractor shall continue with the performance of its obligations under the Contract, including the Works, during the dispute resolution process unless the Client has issued a formal suspension order. Non-payment of money or non-performance of obligations by the Client shall not relieve the Contractor of its responsibilities to continue the work.

11.4. List of Applicable Laws and Standards

The execution of this project, including all associated works, obligations, and deliverables, shall conform to the following applicable laws, regulations, and standards. The list provided herein is exhaustive but not limited to the mentioned items. It shall be the contractor's responsibility to ensure compliance with all applicable statutory and technical requirements, whether explicitly mentioned or not:

11.4.1. Applicable Laws:

11.4.1.1. General and Contractual Laws:

- The Indian Contract Act, 1872
- The Arbitration and Conciliation Act, 1996

11.4.1.2. Labour and Employment Laws:

- The Minimum Wages Act, 1948
- The Payment of Wages Act, 1936
- The Employees' Provident Funds and Miscellaneous Provisions Act, 1952
- The Workmen's Compensation Act, 1923
- The Contract Labour (Regulation and Abolition) Act, 1970
- The Building and Other Construction Workers' Welfare Cess Act, 1996.

11.4.1.3. Taxation Laws:

- The Goods and Services Tax (GST) Act, 2017
- The Income Tax Act, 1961

11.4.1.4. Environmental Protection Laws:

- The Environment (Protection) Act, 1986
- The Water (Prevention and Control of Pollution) Act, 1974
- The Air (Prevention and Control of Pollution) Act, 1981

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11.4.1.5. Transport and Safety Laws:

- The Motor Vehicles Act, 1988
- The Factories Act, 1948

11.4.1.6. Any other laws, regulations, or rules:

Any additional laws, rules, or guidelines enacted by the Government of India, State Governments, or relevant statutory bodies that are applicable to this project.

11.4.2. Standards and Technical Specifications:

11.4.2.1. National Standards:

- Specifications for Road and Bridge Works (Latest Revision), Ministry of Road Transport and Highways (MoRTH)
- Indian Roads Congress (IRC) Standards and Guidelines
- Bureau of Indian Standards (BIS) relevant to construction, material specifications, and safety

11.4.2.2. International Standards (if specified):

- ISO standards for quality, safety, and management systems
- ASTM or EN standards for material testing and equipment where applicable

11.4.2.3. Project-Specific Standards:

- Any additional standards explicitly mentioned in the RFP, contract documents, or technical schedules.

11.4.3. Contractor's Responsibility:

It is the contractor's responsibility to ensure strict compliance with all applicable laws, standards, and guidelines, whether listed above or otherwise applicable by the nature of the project.

11.4.4. Jurisdiction and Dispute Resolution (Clause No. 17 of GCC):

This Agreement shall be governed by, and construed in accordance with, the laws of India. The parties hereby agree that any disputes, claims, or controversies arising out of or in connection with this Agreement, including its validity, interpretation, enforcement, or performance, shall be subject to the exclusive jurisdiction of the courts in New Delhi, India. The parties consent to the jurisdiction of the courts of New Delhi and waive any objections based on venue or forum non convenience. All legal proceedings under this Agreement shall be conducted in the English language.

11.5. Pre-Bid Meeting Minutes (if issued as an addendum)

The Procuring Authority shall convene a Pre-Bid Meeting as specified in the **Contract Data Sheet** to address any queries or clarifications raised by the prospective Bidders regarding the RFP documents. The minutes of the Pre-Bid Meeting, including responses to the queries and any amendments to the RFP, if applicable, shall be recorded and circulated to all Bidders who have downloaded or purchased the RFP.

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The Pre-Bid Meeting Minutes shall form an integral part of the RFP documents and shall be binding on all Bidders. Bidders are advised to review the minutes and ensure that their proposals are in conformity with the clarifications and amendments issued. No separate communication shall be entertained on matters addressed in the Pre-Bid Meeting Minutes.

Any updates to the RFP pursuant to the Pre-Bid Meeting shall be issued through an Addendum and published as per the procedure outlined in **Clause No. 2.5 for Amendments/Communications**.

11.6. Corrigendum/Addendum to RFP (if issued)

The Procuring Authority reserves the right to amend, modify, or supplement the RFP documents at any stage prior to the submission deadline. Such amendments, modifications, or supplements shall be issued in the form of a Corrigendum or Addendum.

The Corrigendum/Addendum to the RFP shall be uploaded on the official website as specified in the Data Sheet and/or communicated to all Bidders who have purchased or downloaded the RFP. Bidders are advised to regularly visit the official website and review all issued Corrigendum/Addendum to stay updated.

The procedure for issuing Corrigendum/Addendum shall be as follows:

- a) Any clarifications, modifications, or changes to the RFP shall be recorded in writing and approved by the competent authority of the Procuring Authority.
- b) A formal notification of the Corrigendum/Addendum, along with the updated sections of the RFP, shall be published on the official website and circulated to registered Bidders.
- c) The Corrigendum/Addendum shall form an integral part of the RFP and be binding on all Bidders.
- d) The timeline for submission of bids may be extended if the nature of the Corrigendum/Addendum necessitates additional preparation time for Bidders, at the sole discretion of the Procuring Authority.

No further communication on issued Corrigendum/Addendum shall be entertained. It is the sole responsibility of the Bidders to ensure compliance with the updated RFP requirements.

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12. Information Required to Evaluate the Bid Capacity

12.1. Calculation of “A” and “C”

To determine the value of “A” and “C” for Bid Capacity evaluation under **Clause 2.2.7 (Bid Capacity Calculation)**, the bidder must provide details of Civil Engineering Works undertaken in respect of Projects (Turnkey Projects / Item Rate Contracts / Construction Works) during the last three financial years. The amount of bonus received, if any, shall be indicated separately.

The **Net Value Excluding Bonus** shall be derived as **(3) = (1) - (2)**.

Sl. No.	Financial Year	Value of Civil Engineering Works in Projects (₹ Crores) (1)	Amount of Bonus (₹ Crores) (2)	Net Value Excluding Bonus (₹ Crores) (3) = (1) - (2)
1	2023-24/2023			
2	2022-23/2022			
3	2021-22/2021			

The maximum value of projects undertaken in a single financial year from the last three years, excluding any bonus amount, is ₹_____ Crores (Rupees _____). This value, updated to the price level of the year indicated in Appendix, is calculated as follows:

₹ _____ Crores × _____ (Updation Factor as per Appendix) = ₹ _____ Crores (Rupees _____).

The total amount of bonus received, if any, in Projects during the last three years (updated to the price level of the year indicated in Appendix) is as follows:

Sl. No.	Financial Year / Calendar Year	Amount of Bonus (₹ Crores) (1)	Updation Factor (2)	Updated Amount of Bonus (₹ Crores) (3) = (1) × (2)
1	2023-24/2023		1.00	
2	2022-23/2022		1.05	
3	2021-22/2021		1.10	
	Total (C)			

12.2. Calculation of “B”

The bidder must provide details of all existing commitments and ongoing works to be completed in the next **9 months**.

Sl. No.	Name of Project / Work	% Participation of Bidder in Project	Date of Issue of LOA / Date of Opening of	Construction Period as per Agreement / LOA	Contract Value as per Agreement /	Value of Work Completed (₹ Crores)	Balance Value of Work to be Completed (₹)	Anticipated Date of Completion	Balance Value of Work at 2023-24/2023 Price
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			Financial Bid / Date of Start / Appointed Date		LOA (₹ Crores)		Crores (1)		Level (₹ Crores) (2) = (1) × Updation Factor
1									
2									
3									
	Total								

The **Updation Factor** to be applied is as follows:

Sl. No.	Financial Year / Calendar Year	Updation Factor
1	2023-24/2023	1.00
2	2022-23/2022	1.05
3	2021-22/2021	1.10

The bidder must provide a **verified statement** of all existing commitments, awarded works, and anticipated value of work to be completed during the construction period of the project for which the bid is invited. This statement must be **countersigned by the Client or its Engineer-in-Charge (not below the rank of Executive Engineer) for Projects or by the Concessionaire / Authorized Signatory of SPV for BOT Projects.**

No awarded or ongoing work has been excluded from this statement for M/s _____, either individually or in a Joint Venture with M/s _____ and M/s _____, as on the bid due date of this RFP.

Note:

- If the balance period of construction is **less than** the construction period of the project for which the bid is invited, the **full contract value** as per Agreement/LOA shall be mentioned.
- If the balance period of construction is **more than** the construction period of the project for which the bid is invited, only the **anticipated value of work to be completed** shall be mentioned.
- If the anticipated value of work to be completed is not provided, the **proportionate value** shall be considered while evaluating the **Assessed Available Bid Capacity**.

Date: _____

Place: _____

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13. Miscellaneous Provisions

13.1. Force Majeure Clause No. (Clause No. 19 of GCC)

Definition

Force Majeure shall mean any extraordinary event or circumstance beyond the reasonable control of the affected party that prevents or delays the performance of its contractual obligations. These events may include, but are not limited to, acts of God, natural disasters (such as floods, earthquakes, or storms), acts of war, terrorism, riots, civil commotion, government orders, pandemics, or any other unforeseen event that cannot be mitigated through reasonable diligence.

Notification

The party affected by a Force Majeure event shall notify the other party in writing within seven (7) days of the occurrence of such an event, providing reasonable details of its nature, likely duration, and impact on performance. Failure to notify within this period may result in the loss of the right to claim Force Majeure relief.

13.1.1. Consequences of Force Majeure

- (a) The obligations of the affected party shall be suspended for the duration of the Force Majeure event, to the extent that they are directly impacted by it.
- (b) Both parties shall use all reasonable efforts to mitigate the effect of the Force Majeure event and resume performance of their obligations as soon as practicable.
- (c) If the Force Majeure event continues for a period exceeding ninety (90) days, either party may terminate the contract upon written notice to the other party.

13.1.2. Exclusions

Force Majeure shall not include:

- (a) Any event caused by the negligence or intentional act of the affected party.
- (b) Economic hardship, changes in market conditions, or lack of funds.

13.1.3. Extension of Time

If the Contractor's performance is delayed due to a Force Majeure event, the Contractor shall be entitled to an extension of time equivalent to the period of delay, subject to approval by the Client.

13.1.4. Payments During Force Majeure

The Contractor shall not be entitled to claim compensation or additional payments due to Force Majeure events unless explicitly agreed upon in the contract or otherwise required under applicable law.

13.1.5. Final Determination

Any disputes regarding the application of this **Clause No.** shall be resolved in accordance with **Clause No. 18 of GCC** (Dispute Resolution).

13.2. Termination Conditions (Clause No. 20 of GCC)

13.2.1. Termination by the Client

The Client may terminate the Contract, in whole or in part, with immediate effect or after a specified notice period, in the following circumstances:

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- 13.2.2. Non-Performance:** If the Contractor fails to meet contractual obligations, including delays or substandard performance, after receiving a written notice to cure the breach within a period specified in the Contract.
- 13.2.3. Breach of Terms:** In case of material violation of any terms or conditions of the Contract, including but not limited to safety standards, statutory compliance, or quality assurance requirements.
- 13.2.4. Insolvency:** If the Contractor becomes insolvent, enters into bankruptcy proceedings, or undergoes dissolution, liquidation, or similar financial distress events.
- 13.2.5. Force Majeure:** If Force Majeure conditions continue for more than ninety (90) days, making further performance impracticable.
- 13.2.6. Convenience of the Client:** The Client reserves the right to terminate the Contract for convenience, provided reasonable compensation for work performed up to the date of termination is made.

13.2.7. Termination for Default:

In case of default by the Contractor, the Client reserves the right to terminate the Contract, either in whole or in part, by giving written notice. Default includes the following:

- a) **Non-Performance:** Failure to meet key contractual obligations, including delays in execution or substandard work, despite receiving a notice to cure within a period specified in the Contract.
- b) **Breach of Terms:** Failure to comply with any material provisions of the Contract, including statutory, safety, or quality assurance requirements.
- c) **Insolvency or Financial Distress:** If the Contractor enters into insolvency, bankruptcy, liquidation, or similar financial distress, or any situation that materially impacts its ability to fulfil its obligations under this Contract.

13.2.8. Upon such termination, the following shall apply:

- a) **Notice to Cure:** A written notice shall be issued to the Contractor, specifying the nature of the default. The Contractor will be granted a cure period of 15 days (or as specified in the Special Conditions of Contract) to remedy the default. Failure to rectify the default within the cure period will lead to immediate termination.
- b) **Penalties and Compensation:** The Client may impose penalties of up to **10% of the Contract value** for non-performance or failure to meet standards. The Contractor shall be liable to compensate the Client for any costs incurred due to the default, including but not limited to the cost of procuring alternate contractors to complete the work.
- c) **Withholding of Payments:** The Client has the right to withhold payments corresponding to incomplete, defective, or unsatisfactory work performed prior to termination.

Termination under this **Clause No.** is without prejudice to any other legal or contractual rights available to the Client, including claims for damages and performance guarantees.

13.2.9. Termination by the Contractor

The Contractor may terminate the Contract by providing a written notice, subject to fulfilling its obligations until the termination date, in the following circumstances:

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Non-Payment: If the Client fails to pay undisputed invoices for a period exceeding One Hundred & Eighty (180) days after they become due, despite receiving written notice.

Client Hindrance: If the Client repeatedly obstructs the Contractor's performance by failing to provide access, approvals, or other essential resources as specified in the Contract.

Force Majeure: If Force Majeure conditions persist beyond Ninety (90) days, rendering performance impossible.

13.2.10. Procedure for Termination

Notice of Intent: A party initiating termination shall issue a formal written notice detailing the grounds for termination and the intended termination date, allowing a minimum of thirty (30) days for remedial action unless otherwise specified.

Efforts to Resolve: The parties shall engage in good-faith discussions during the notice period to address and resolve the stated issues.

Confirmation of Termination: If the issues remain unresolved by the end of the notice period, the initiating party shall issue a final termination notice, effectively ending the Contract.

13.2.11. Post-Termination Obligations

Cease Work: The Contractor shall cease all work immediately except for activities required to protect the works already executed or to comply with statutory obligations.

Return of Assets: All equipment, materials, designs, and other assets belonging to the Client shall be returned or securely handed over within seven (7) days of termination.

Payments: The Client shall settle payments for verified work performed up to the termination date, subject to deductions for any damages, penalties, or liabilities.

13.2.12. Liabilities Upon Termination

Contractor's Liabilities: The Contractor shall bear the cost of demobilization, removal of equipment, and site clearance unless otherwise agreed.

Client's Liabilities: In cases of termination for convenience, the Client shall pay reasonable compensation for expenses directly attributable to the termination. Reasonable compensation is limited to:

Costs for completed works and verified quantities based on contract rates.

Documented and substantiated costs for materials procured specifically for the project, provided these materials are handed over to the Client.

Actual and reasonable costs incurred for demobilization and site clearance.

Compensation shall exclude anticipated profits on unexecuted work, costs due to the Contractor's default, and any claims not supported by documentary evidence. Total compensation shall not exceed 10% of the original contract value. Claims for compensation must be submitted within 30 days of termination with all supporting documents, subject to verification by the Client.

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13.2.13. Survival of Provisions

The provisions relating to confidentiality, indemnities, dispute resolution, warranties, and any other obligations expressly stated to survive termination or expiration of this Agreement shall remain in full force and effect.

13.2.14. Dispute Arising from Termination

Any disputes related to or arising from termination shall be resolved as per **Clause No. 18** of GCC (Dispute Resolution).

13.3. Governing Law and Jurisdiction

This Agreement shall be governed by, and construed in accordance with, the laws of India. The parties hereby agree that any disputes, claims, or controversies arising out of or in connection with this Agreement, including its validity, interpretation, enforcement, or performance, shall be subject to the exclusive jurisdiction of the courts in New Delhi, India. The parties consent to the jurisdiction of the courts of New Delhi and waive any objections based on venue or forum non convenience. All legal proceedings under this Agreement shall be conducted in the English language.

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14. Undertaking

Undertaking

(On the Letterhead of the Bidder)

To be submitted with the Technical Bid

We undertake that:

1. Validity of Proposal:

The proposal submitted by us shall remain valid for a period of at least 120 (one hundred and twenty) days from the last date for submission of the proposal as specified in the RFP.

2. Fees and Charges:

No additional fees, costs, expenses, taxes, or levies shall be payable by National Highways Infra Trust (**NHIT**) or any entities under the National Highways Infra Trust (**NHIT**) for the services rendered, except as explicitly mentioned in the Financial Proposal.

3. Non-Blacklisting/Debarment:

We certify that we have not been banned, blacklisted, delisted, disqualified, or debarred by **NHIT**, **NHIT**, SPVs under **NHIT**, or any government agency, quasi-government agency, or PSU from participating in tenders or contracts. Additionally, no investigation is pending against us, our Managing Director (MD), Chief Executive Officer (CEO), or Directors, nor has any action been initiated against us/our Directors by the CVC, RBI, or any other government/statutory agency concerning financial irregularities.

4. Conflict of Interest:

We declare that we do not have any conflict of interest that may prejudice the scope of work under this RFP. We further confirm that we will not engage in any business or professional activities during the engagement period that may adversely affect the interests of **NHIT**, **NHIT**, or SPVs under **NHIT**.

5. Adequate Resources and Capability:

We confirm that we possess the necessary infrastructure, personnel, equipment, and resources (whether technical, financial, or operational) to perform the services or works as per the scope outlined in the RFP. We affirm that we have fully understood the scope of work and shall comply with the terms of engagement. This includes fulfilling requirements related to consultancy, civil works, road maintenance, or supply-related services, as applicable.

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6. Bankruptcy/Litigation:

We certify that no bankruptcy, liquidation, or similar proceedings have been initiated against us by any entity, government agency, quasi-government agency, or PSU. Furthermore, there are no material cases or proceedings pending against us or our Directors that may affect our ability to execute the contract or significantly impact our deliverables under this RFP.

7. Accuracy of Information:

All information provided in our Bid is true, correct, and complete to the best of our knowledge. This includes details regarding our capabilities, resources, and any other information relevant to the execution of the services or works for which the bid is submitted.

Acceptance of Terms:

We accept all the terms and conditions as mentioned in the RFP. In the event of any contradiction between the terms and conditions outlined in the RFP and our proposal/offer, the decision of **NHIT** shall prevail.

Signature(s) and Name(s) of the Authorized Signatory with Seal

Date:

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15. NON-DISCLOSURE AGREEMENT

NON-DISCLOSURE AGREEMENT

(Specimen)

This confidentiality and non-disclosure agreement (“Agreement”) is made on [●], 2025 (“Effective Date”) between National Highways Infra Investment Managers Private Limited, a company incorporated under the Companies Act, 2013, and having its registered office at G 5 & 6, Sector 10, Dwarka, New Delhi, 110075, acting on behalf of the National Highways Infra Trust (“**NHIT**”) and entities under **NHIT** AND [●] [Note: Name of the recipient to be included], a [company/entity/body] [incorporated/constituted] under the provisions of the laws of India, with its office at [●] [Note: To be included by the recipient] (“Recipient”). In consideration of the premises and of the mutual promises of each party to the other herein contained, it is hereby mutually agreed as follows:

WHEREAS:

- A. National Highways Authority of India (NHAI) is responsible for development and maintenance of sections of national highways in India, which are entrusted to it by the Ministry of Road Transport and Highways.
- B. NHAI has settled the National Highways Infra Trust (“Trust”) as a contributory irrevocable trust, in accordance with the provisions of the Indian Trusts Act, 1882.
- C. **NHIIMPL** has been appointed as the investment manager to the Trust and is responsible for, among other things, the management and administration of the Trust, and rendering investment management services to the Trust.
- D. The Trust is contemplating to mobilize funds by way of either debt raise or offer of units (“Transaction”).
- E. The Recipient is a company/entity engaged in works contracts, services, consultancy, manpower supply, or road maintenance works, as applicable, and is contemplating entering into a business relationship with **NHIT** or its entities.
- F. In order to explore a potential business relationship that might entail the Recipient receiving confidential information related to works contracts, services, consultancy, manpower supply, road maintenance, or other projects undertaken by **NHIT**, the Recipient acknowledges the sensitive nature of the Confidential Information and agrees that all Confidential Information received by it from **NHIT**/entities under **NHIT** shall be kept confidential and governed by the following terms and conditions;

I. DEFINITIONS

Term	Definition
“Discloser”	means the party providing Confidential Information for the Permitted Purpose, including, without limitation, the National Highways Infra Trust (NHIT), its associated entities, or the

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Term	Definition
	National Highways Infra Investment Managers Private Limited (NHIT) acting in its capacity as the manager on behalf of the Trust.
“Permitted Purpose”	means the engagement of the Recipient in works contracts, services, consultancy, manpower supply, road maintenance works, or any other related activities undertaken as part of any ongoing or future projects involving the National Highways Infra Trust (NHIT) or its associated entities.
“Confidential Information”	means all information, data, and ideas, whether in tangible or intangible form, disclosed by the National Highways Infra Investment Managers Private Limited (NHIIMPL) in connection with the Trust, the proposed Transaction, or its business and operations, including but not limited to: (a) any commercial, technical, operational, or other information, data, or interpretations provided for the Permitted Purpose, expressly identified as “Confidential” in writing; (b) information relating to costs, profits, markets, sales, and financial performance; (c) plans for future developments, road construction or maintenance strategies, engineering designs, and specifications; and (d) all documents, records, designs, models, sketches, electronic data, and other materials of any nature supplied by NHIT to the Recipient.

II. CONFIDENTIALITY OBLIGATIONS

- a) **Restricted Use:** The Recipient shall use the Confidential Information solely for the Permitted Purpose and for no other purpose whatsoever.
- b) **Controlled Disclosure:** The Recipient may disclose the Confidential Information only to its employees, contractors, consultants, or advisors who require access on a strict need-to-know basis for the Permitted Purpose. Each such individual shall be informed of the confidential nature of the information and the terms of this Agreement and shall be bound by equivalent confidentiality obligations to the extent relevant and applicable.
- c) **Protection from Unauthorized Access:** The Recipient shall ensure that the Confidential Information is not disseminated to or accessible by any third party without proper authorization and shall implement appropriate security measures to safeguard the Confidential Information, consistent with its own protocols for managing proprietary and confidential information.
- d) **Legal and Regulatory Compliance:** The Recipient shall comply with all applicable laws, including but not limited to laws governing trade secrets, data privacy, and securities regulations, such as

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the Securities and Exchange Board of India (Prohibition of Insider Trading) Regulations, 2015, as amended.

e) **Restrictions on Trading and Transactions:** For a period of six months from the date of return of the Confidential Information or termination of this Agreement, or for a period of ninety (90) days from the date of completion of the Transaction, whichever is later, the Recipient shall not, directly or indirectly, trade, acquire, or sell, or agree, propose, seek, or offer to acquire or sell, or facilitate the acquisition, ownership, or sale of any securities or business (or any part thereof) of the Discloser, including the Trust.

III. EXCEPTIONS

The obligations under **Clause No. II** shall not apply to any Confidential Information that:

- a) **Prior Possession:** Was in the lawful possession of the Recipient prior to its disclosure by the Discloser and without any restriction on its use or disclosure;
- b) **Independent Development:** Was independently developed by the Recipient without reference to or use of the Confidential Information;
- c) **Public Domain:** Was in the public domain at the time of disclosure under this Agreement or subsequently becomes publicly available, except as a result of a breach of this Agreement by the Recipient;
- d) **Third-Party Disclosure:** Is disclosed to the Recipient by a third party who, to the best of the Recipient's knowledge, is not bound by any confidentiality obligation to the Discloser;
- e) **Authorized Disclosure:** Is expressly authorized for release by the Discloser in writing;
- f) **Mandatory Disclosure:** Is required to be disclosed under applicable law or regulation, or by an order of a governmental, judicial, or quasi-judicial authority, or:
 - i) Is disclosed to the Recipient's lenders or insurers in connection with any loan or insurance arrangement, provided that the Recipient:
 - Notifies the Discloser in writing, to the extent permissible under law, to allow the Discloser to contest or seek protective measures against such disclosure; and
 - Limits such disclosure strictly to the extent required under the circumstances.

IV. NO GRANT OF PROPRIETARY RIGHTS OR LICENSE

The Confidential Information shall remain the exclusive property of the Discloser at all times. Nothing in this Agreement shall be construed as granting, by implication, estoppel, or otherwise, any license, right, title, or interest in or to the Confidential Information to the Recipient for any purpose. The Discloser retains all proprietary rights in and to the Confidential Information, including but not limited to any intellectual property rights, and the Recipient acknowledges that it acquires no such rights through the disclosure of Confidential Information under this Agreement.

V. TERM AND TERMINATION

This Agreement, along with the Confidentiality Obligations contained herein, shall come into force on the date of issuance of the Letter of Engagement or Letter of Appointment and shall remain

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effective until the completion of the specified term or as otherwise agreed in writing. Notwithstanding the foregoing, the Discloser reserves the right to terminate this Agreement at any time by providing written notice to the Recipient. Termination shall not affect the Recipient's continuing obligations with respect to the protection and non-disclosure of Confidential Information, which shall survive termination for a period of [insert specific period, e.g., two years], or as required by applicable law.

VI. INJUNCTION

The Parties acknowledge and agree that the Confidential Information is valuable, unique, and integral to the interests of the Discloser. Any unauthorized use, disclosure, or breach of the Confidentiality Obligations by the Recipient may cause irreparable harm to the Discloser for which monetary damages may be inadequate. Accordingly, the Discloser shall be entitled to seek injunctive relief, including temporary, preliminary, or permanent injunctions, from a competent court to prevent or restrain any such breach or threatened breach. Such relief shall be in addition to, and not in substitution for, any other legal or equitable remedies available, including claims for monetary damages.

VII. RETURN OF MATERIALS

Upon the Discloser's written request, the Recipient shall promptly, and in any event within five (5) days or such later period as specified by the Discloser, return all copies of the Confidential Information in any form or medium, or, if so, directed by the Discloser, destroy such copies. Any destruction shall be carried out in such a manner that the Confidential Information cannot be retrieved or reconstructed. The Recipient shall certify in writing to the Discloser that all such Confidential Information has been returned or destroyed, as applicable, and that no copies thereof remain in the Recipient's possession.

VIII. ACKNOWLEDGEMENT

The Recipient acknowledges and agrees that:

- a) This Agreement does not, and shall not be construed to, constitute a solicitation or offer for the sale or transfer of any securities of the Discloser, or any affiliate of the Discloser, or any entity sponsored by the Discloser.
- b) This Agreement does not impose any obligation or commitment on the Discloser to issue, sell, or transfer any securities of the Discloser or any other person or entity.
- c) Any subscription or purchase of securities of the Discloser, any affiliate of the Discloser, or any entity sponsored by the Discloser by the Recipient shall be conducted in full compliance with applicable laws and regulations, and shall be solely on the basis of offer document(s) or prospectus related to such securities, which shall be prepared and issued in accordance with such applicable laws.

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IX. MISCELLANEOUS:

a) No waiver by the Discloser of any breach or default by the Recipient under this Agreement shall be deemed a waiver of any subsequent or continuing breach or default thereof. This Agreement constitutes the entire understanding and agreement between the parties with respect to the subject matter hereof, and supersedes all prior negotiations, discussions, representations, and agreements, whether oral or written, relating to the same, except that nothing herein shall prejudice the statutory or common law rights of either party in relation to Confidential Information. This Agreement may only be amended or modified in writing, executed by duly authorized representatives of both parties. If any provision of this Agreement is held to be invalid, illegal, or unenforceable, the remaining provisions shall continue in full force and effect. This Agreement is executed in two (2) originals, each of which shall be deemed an original for all purposes. This Agreement shall become effective as of the date first written above, upon execution by both parties.

b) For the avoidance of doubt, the parties further agree as follows:

- (i) The terms and provisions of this Agreement are confidential.
- (ii) In the event that the parties enter into any further agreements related to the Investment Opportunity or in connection with the evaluation or facilitation of the Investment Opportunity, this Agreement shall continue to be binding on the parties with respect to any Confidential Information exchanged in such subsequent agreements.
- (iii) The recitals set forth above shall be deemed an integral part of this Agreement;
- (iv) The Recipient acknowledges that the Discloser makes no representation or warranty, express or implied, as to the accuracy or completeness of the Confidential Information or any other information provided; and
- (v) This Agreement shall be binding upon and inure to the benefit of the parties hereto, their respective successors, and permitted assigns.

X. GOVERNING LAWS

This Agreement shall be governed by, and construed in accordance with, the laws of India, without regard to its conflicts of law principles. The parties expressly agree that any dispute, controversy, or claim arising out of or in connection with this Agreement, or the breach, termination, or validity thereof, shall be subject to the exclusive jurisdiction of the courts located in New Delhi, India. The parties hereby irrevocably consent to the jurisdiction of such courts and waive any objection to the venue of such courts, including any objection based on forum non convenience or similar grounds. Notwithstanding the above, the parties agree that either party may seek interim or urgent relief in any other competent court or tribunal, including but not limited to injunctions or orders for specific performance, without prejudice to the exclusive jurisdiction of the courts of New Delhi, India, for all other matters.

XI. SURVIVAL

Notwithstanding the termination or expiration of this Agreement, the provisions set forth in **Clause No's II(d), VIII, and X** of this Agreement shall survive in full force and effect. These **Clause No's** shall

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remain binding on the parties and shall continue to be enforceable to the extent necessary to give effect to the rights and obligations contained therein.

The survival of these provisions shall be governed by the nature and intent of the respective **Clause No's**, and the parties agree that any obligations, rights, or duties arising from these provisions will remain operative even after the termination or expiration of this Agreement, for such period as is necessary to complete or resolve any obligations or claims arising thereunder.

In particular, **Clause No. II (d)** (which addresses the confidentiality obligations), **Clause No. VIII** (which pertains to dispute resolution and jurisdiction), and **Clause No. X** (which addresses any post-termination rights or duties) shall remain in effect for a period, where applicable, in accordance with the applicable statutory laws or as otherwise expressly stated in this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their duly authorized representatives on the day and date mentioned hereinabove.

Signed and delivered by **NHIT** by the hand of

Authorised Signatory

Name:

Designation:

Signed and delivered by [●] [Note: Name of the Recipient to be inserted], by the hand of

Authorised

Name:

Designation:

Signatory

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16. Power of Attorney

POWER OF ATTORNEY

(Specimen)

KNOW ALL MEN BY THIS POWER OF ATTORNEY:

WHEREAS _____, a firm registered under the provisions of the P _____, having registration number _____ and having its office at _____ (hereinafter called the 'Firm').

AND WHEREAS the Firm intends to submit its bid in respect of "[●]".

WHEREAS it is considered necessary and expedient to execute a general Power of Attorney in favour of [●], [●] of the Firm, on behalf of the Firm, to authorises him to submit the bid on behalf of the Firm.

NOW THIS POWER OF ATTORNEY WITNESSES AS FOLLOWS:

The Firm hereby appoints [●], designated as [●] of the Firm, as its Attorney (hereinafter collectively called "the Attorney") to do the following acts, deeds and things in the name and on behalf of the Firm for successful submission of the bid in respect of abovementioned RFP:

1. To sign and submit technical & financial proposal, on behalf of Firm, in respect of the proposal for [●].
2. To upload the documents on e-tender portal and attach the digital signature of the Firm to document, enrol the digital signature with the e-tender portal of the, and to do any other activity.
3. To sign all applications, affidavits, agreements, amendments, clarifications and all such other documents, as may be necessary for submission of the bid for engagement of legal advisers for proposed assignment and to do all other activity as may be required for successful bid submission.
4. This authority letter shall be valid from the date of issue and shall remain in force till completion of the bidding process in accordance with the Tender Notice No: [●], as amended.

IN WITNESS WHEREOF this deed has been signed by Shri [●] of the Firm.

Accepted by:	For [●]
Accepted By _____	Granted _____ by

National Highways Infra Trust

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Witness.

- 1. _____
- 2. _____

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17. Environmental Management Plan (EMP)

A structured and detailed format for contractors to ensure comprehensive environmental protection and compliance throughout the project lifecycle.

1. Executive Summary

A snapshot of the project's objectives, key environmental measures, and expected outcomes.

- i. Overview of the project scope and objectives.
- ii. Key environmental measures and anticipated outcomes.
- iii. Highlights of the contractor's commitment to sustainability.

2. Introduction

This section outlines the EMP's purpose, project scope, and applicable environmental regulations.

- i. Purpose and objectives of the EMP.
- ii. Project description, including location, scale, and scope of work.
- iii. Applicable environmental regulations, guidelines, and standards.

3. Environmental Baseline Conditions

Provides a summary of the current environmental features and potential risks identified before construction.

- i. Summary of pre-construction environmental surveys and studies.
- ii. Description of environmental features:
 - o Sensitive areas (e.g., water bodies, wetlands).
 - o Flora and fauna, including endangered species.
 - o Soil, water, and air quality conditions.
- iii. Identification of key environmental risks.

4. Environmental Management Objectives

Defines the overarching and specific goals for safeguarding the environment throughout the project.

- i. Overall goals for environmental protection.
- ii. Specific objectives:
 - o Pollution prevention.
 - o Biodiversity conservation.
 - o Efficient resource use and waste minimization.

5. Roles and Responsibilities

Clearly delineates the roles of the contractor, Environmental Officer, and other stakeholders in implementing the EMP.

- i. Defined responsibilities of:

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- Contractor and subcontractors.
 - Environmental Officer or Site Supervisor.
- ii. Coordination protocols with local authorities, stakeholders, and regulatory agencies.

6. Environmental Impact Assessment (EIA)

Summarizes identified environmental impacts, including their short-term and long-term implications.

- i. Summary of the environmental impact study.
- ii. Identification of:
 - Short-term and long-term impacts.
 - Cumulative impacts and mitigation hierarchy.

7. Mitigation Measures

Lists detailed actions to minimize negative environmental impacts, categorized by type.

- i. Category-wise measures to mitigate impacts:
 - a) **Air Quality:** Dust suppression, vehicle emission controls.
 - b) **Water Quality:** Sedimentation control, preventing contamination.
 - c) **Soil Conservation:** Erosion prevention, topsoil preservation.
 - d) **Waste Management:** Segregation, recycling, safe disposal.
 - e) **Noise Management:** Noise barriers, equipment soundproofing.
 - f) **Biodiversity:** Protection of species and habitats.

8. Pollution Control Plan

Specific measures to prevent and control air, water, and noise pollution during the project.

- i. Measures to address air, water, and noise pollution.
- ii. Use of eco-friendly machinery and construction practices.
- iii. Spill containment and response procedures.

9. Waste Management Plan

Details procedures for handling, storing, and disposing of hazardous and non-hazardous waste.

- i. Waste categorization (hazardous, non-hazardous, recyclable).
- ii. Methods for collection, storage, transport, and disposal.
- iii. Procedures for compliance with local waste regulations.

10. Monitoring Plan

Outlines the parameters, frequency, and methodology for monitoring environmental compliance.

- i. Parameters for monitoring (e.g., air, water, and noise quality).
- ii. Monitoring frequency, tools, and techniques.

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- iii. Reporting mechanism and corrective actions for deviations.

11. Emergency Preparedness and Response

Describes the procedures and training to handle environmental emergencies effectively.

- i. Response plan for environmental emergencies (e.g., spills, leaks).
- ii. Emergency contact list for stakeholders and authorities.
- iii. Staff training for emergency handling and response readiness.

12. Training and Awareness

Explains plans for workforce training and awareness programs on environmental practices.

- i. Training schedules for workforce on EMP requirements.
- ii. Awareness programs for:
 - a) Pollution prevention.
 - b) Efficient resource use.
 - c) Incident reporting and management.

13. Reporting and Documentation

Defines the format and frequency for compliance reports and record-keeping requirements.

- i. Reporting schedule and formats (daily, weekly, monthly).
- ii. Documentation requirements for:
 - a) Monitoring results.
 - b) Waste handling and disposal records.
 - c) Incident logs.

14. Budget and Resource Allocation

Provides an estimate of financial and resource requirements for EMP implementation.

- i. Detailed budget for implementing the EMP.
- ii. Resource allocation for environmental equipment, training, and compliance activities.

15. Appendices

Contains supporting documents such as maps, permits, and contact lists for stakeholders.

- i. Maps of sensitive ecological areas and project layout.
- ii. Permits, approvals, and regulatory compliance documentation.
- iii. Contact details of stakeholders, authorities, and emergency response personnel.

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18. List of Annexures

Annexure no.	Section No.	Clause No. No.	Annexure details
Contract Conditions			
Annexure-A1	Section 5	5.1	General Conditions of Contract (GCC) covering rights, obligations, payment terms, and dispute resolution.
Annexure-A2	Section 5	5.2	Special Conditions of Contract (SCC) outlining project-specific terms and conditions.
Annexure-A3	Section 11	11.2	List of Approved Makes
Standard HSE & Safety Compliance			
Annexure-A4	Section 6	6.5	Utility shifting guidelines for safety, compliance, and timely execution.
Annexure-A5	Section 8	8	NHIT's EHS Policy
Standard Formats			
Annexure-B1	Section 2	2.3.2	Bank Guarantee Template for Bid Security
Annexure-B2	Section 10	10.1	Performance Security Template
Annexure-B3	Section 10	10.2	Bank Guarantee Template
Project-Specific Annexures			
Annexure-C1	Section 5	5.3	Contract Data Sheet detailing project-specific information like milestones, equipment, and safety guidelines.
Annexure-C2	Section 4	4.2.1	Scope of Work
Annexure-C3	Section 9	9.3	Bill of Quantities
Annexure-C4	Section 4	4.2.4	Detailed location maps, site layouts, and access points are provided in the Annexure for the Bidder's reference.
Annexure-C5	Section 6	6.1	Design requirements including parameters for structural and safety submissions.
Annexure-C6	Section 6	6.2	Construction requirements covering quality, workmanship, and testing standards.
Annexure-C7	Section 6	6.3	Technical specifications based on MoRTH, IRC, and IS codes.
Annexure-C8	Section 6	6.4	Approved drawings including layouts, GADs, and structural details.
Annexure-C9	Section 11	11.1	Draft Contract Agreement
Annexure-C10			Process of Online Bid Submission

Annexure A1 - General Conditions of Contract

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Purpose of this General Conditions of Contract

The purpose of this General Conditions of Contract (GCC) is to provide a structured and comprehensive framework governing the rights, obligations, and responsibilities of the Employer and the Contractor in executing road maintenance works. This GCC establishes clear guidelines to ensure compliance with applicable standards, including **MoRTH specifications, IRC guidelines**, and relevant statutory requirements. It addresses key aspects such as the scope of work, performance standards, risk allocation, payment terms, and dispute resolution, while mandating adherence to safety, environmental, and quality control measures. Additionally, this GCC incorporates provisions for insurance, indemnities, and warranties to safeguard both parties and maintain infrastructure quality. By aligning with **Best Practices for Contractual Governance**, the GCC ensures transparency, efficiency, and accountability in managing the contract, fostering collaboration to achieve the timely and effective maintenance of road infrastructure.

1. Definitions and Interpretations

For the purpose of this Agreement, the following terms shall have the meanings ascribed to them, unless the context clearly requires otherwise. These definitions are provided to ensure a clear and consistent interpretation of the terms used throughout the Agreement.

Term	Definition
Acceptance	Shall mean the formal acknowledgment by the Client, upon verification that the works have been completed in accordance with the agreed scope, specifications, and standards prescribed under the Contract, including compliance with MoRTH, IRC, IS Codes, and other applicable regulations.
Alternative Dispute Resolution (ADR)	Shall mean a mechanism for resolving disputes between the parties, including but not limited to mediation, conciliation, or arbitration, as an alternative to formal litigation. The procedures for ADR shall be governed as per the provisions outlined under the Dispute Resolution Clause 18 of this GCC.
Alternative Works	Shall mean any works or services undertaken to replace, modify, or supplement the original scope of works due to unforeseen circumstances, changes in site conditions, or as directed by the Client, ensuring compliance with the Contract's terms and specifications.
Annual Performance Review	Shall mean the periodic evaluation conducted by the Client to assess the Contractor's performance in accordance with the terms,

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Term	Definition
	obligations, and key performance indicators stipulated in the Contract Agreement during its term.
Arbitration	Shall mean the process by which a dispute arising under the contract is resolved by an independent third-party arbitrator, whose decision is final and binding on the parties, in accordance with the provisions of the <i>Arbitration and Conciliation Act, 1996</i> (as amended), and as outlined in Clause 18 of this GCC.
Agreement	Shall mean the legally binding contract executed between the Client and the Contractor for providing services related to road construction and maintenance projects. It includes the General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Annexures, Letter of Award (LoA), schedules, and any mutually agreed amendments or modifications. The Agreement defines the roles, responsibilities, deliverables, timelines, and performance standards expected of the Contractor and governs the contractual relationship between the parties in accordance with applicable laws, regulations, and standards, including those specified by the Ministry of Road Transport and Highways (MoRTH) and other relevant authorities.
Bank Guarantee	Shall mean a written guarantee issued by a bank, on behalf of the Contractor, to secure the performance or payment obligations under the contract, ensuring that the bank will fulfil the financial commitments in the event of the Contractor's failure to perform as per the terms and conditions of the contract.
Base Date	Shall mean the date up to which the conditions of the site, works, and environment are considered for the purpose of contract price adjustments.
Bid Price	Shall mean the total price submitted by the Contractor in response to the Client's invitation for tenders, which encompasses all costs, including labor, materials, equipment, overheads, and other expenses necessary for the completion of the works in accordance with the contract requirements.
Bill of Quantities (BoQ)	Shall mean a document prepared by the Client or their representative, detailing the quantities and specifications of all works to be executed under the contract. It serves as a basis for pricing and tender evaluation, including the measurement of work items, their unit rates, and estimated costs to aid in the preparation of the Contractor's bid. The BoQ forms an integral part of the contract and is used for determining the contract value and assessing any variations in the work.

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Term	Definition
Boundary Line	Shall mean the line demarcating the boundary of the site or the area of the concession.
Bridge	Shall mean a structure designed and constructed to carry traffic or other loads across a watercourse, depression, road, or other physical obstacle. It typically consists of a deck supported by substructures, such as piers, abutments, or foundations, and is intended to facilitate safe and efficient passage of vehicles, pedestrians, and other loads in accordance with relevant design standards and specifications.
Certificate of Completion	Shall mean a formal certificate issued by the Engineer to the Contractor upon the satisfactory completion of the works, confirming that the works have been completed in accordance with the contract documents, specifications, and other applicable requirements. The certificate signifies that the works have met the required standards and are deemed ready for handover to the Client, subject to any outstanding issues or defects identified during the final inspection.
Claim	Shall mean a formal written request by the Contractor for an adjustment to the contract terms, including but not limited to changes in time, cost, or scope, arising from unforeseen circumstances, variations, or other causes beyond the Contractor's control that affect the performance of the contract.
Client / Employer	Shall refer to NHIT and its subsidiaries, incorporated under the Companies Act, along with their legal successors, assignees, and authorized officers, who are entitled to the rights and remedies as outlined in the Contract.
Commencement Date	Shall mean the date specified in the contract from which the Contractor is required to begin the execution of the works.
Compensation Event	Shall mean an event or circumstance as defined in the contract that entitles the Contractor to claim an extension of time or additional payment for costs incurred due to the occurrence of such event, which was beyond the Contractor's control and not attributable to the Contractor's actions or omissions.
Completion Date	Shall mean the date by which the Contractor is required to complete the works, as agreed in the contract.
Completion Certificate	Shall mean the certificate issued by the Client or Engineer confirming that the works have been completed in accordance with the contract specifications, and all requirements have been met to the satisfaction of the Client or Engineer.

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Term	Definition
Confidential Information	Shall mean any data or information, whether written, oral, or in any other form, relating to the works, the contract, or any other aspect of the project, which is confidential in nature and is not to be disclosed to third parties without the prior written consent of the disclosing party. This shall include, but not be limited to, business plans, technical data, financial information, and proprietary information. The disclosure and protection of Confidential Information may also be governed by applicable laws, including the Indian Contract Act, 1872 and the Information Technology Act, 2000, along with any confidentiality or non-disclosure agreements between the parties.
Contract Price	Shall mean the total amount agreed upon between the Client and the Contractor for the execution of the works, as specified in the contract, including any adjustments made due to changes, variations, or modifications in the scope of work, in accordance with the terms and conditions of the contract. This may include taxes, duties, and other financial obligations as specified under the contract.
Contractor	Shall mean the individual, firm, or company engaged by the Client to execute the works as per the terms and conditions of the contract, including any subcontractors or agents employed by the Contractor for the performance of the works.
Contractor's Equipment	Shall mean all equipment, machinery, tools, vehicles, and other resources provided by the Contractor to execute the works, including any temporary or permanent items necessary for the performance of the contract. This includes all items used for construction, maintenance, and testing as required to fulfill the contractual obligations.
Contractor's Personnel	Shall mean all employees, workers, subcontractors, agents, and any other individuals or entities engaged by the Contractor to perform the works under the contract, including those working at the construction site or any location necessary for the execution of the project.
Contractor's Proposal	Shall mean the detailed submission made by the Contractor in response to the Client's invitation or request, outlining the proposed methodology, work plan, schedule, and cost estimates for executing the works, including any technical or financial terms as required under the contract.
Concessionaire	Shall mean the Contractor under the NHAI Concession Agreement, responsible for the operation and maintenance of the project after construction.

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Term	Definition
Construction Works	Shall mean all activities and tasks undertaken by the Contractor to fulfil the requirements of the contract, including both permanent works (such as buildings, structures, and infrastructure) and temporary works (such as scaffolding, formwork, and site facilities), in accordance with the contract specifications, drawings, and applicable standards.
Consultant	Shall mean the professional service provider appointed by the Client to assist in the supervision, design, management, or other project-related activities, providing expert advice, technical expertise, and support in accordance with the terms of the contract.
Date of Handover	Shall mean the date on which the Contractor completes the works in accordance with the contract and formally hands over the completed project to the Client, signifying the transfer of responsibility from the Contractor to the Client.
Delay	Shall mean the failure to complete the works within the agreed completion date, resulting from the Contractor's fault, the Client's actions or omissions, or unforeseen circumstances beyond the control of either party, as defined in the contract.
Design Documents	Shall mean all drawings, specifications, calculations, reports, and other related documents provided by the Contractor, detailing the design of the works, in accordance with the contract requirements.
Dispute	Shall mean any disagreement or conflict arising between the parties regarding the interpretation, application, or breach of the contract terms, which may require resolution as per the procedures outlined in Clause 18 of this GCC.
Dispute Resolution Procedure	Shall mean the process described in Clause 18 of this GCC for addressing disputes, differences, or claims arising under the Contract. It encompasses procedures such as amicable settlement, referral to a Dispute Resolution Board (DRB), and arbitration in accordance with the Arbitration and Conciliation Act, 1996 (as amended). The resolution framework also includes jurisdictional provisions, interim relief, and continuity of work obligations to ensure minimal disruption. Wherever the term "Arbitration" appears in this Agreement, it shall refer to Clause 18 , detailing its application and procedure.
Duties and Responsibilities	Shall mean the obligations and tasks assigned to each party under the contract, encompassing the specific roles, functions, and responsibilities of both the Client and the Contractor as outlined in the contract.
Engineer-in-charge	Shall means the person appointed by the Employer or its authorized representative to oversee, administer, and certify the execution of

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	work under the Contract. The Engineer-in-Charge shall be responsible for supervising construction, maintenance, material quality, and contract compliance as per the specifications. For consultancy and equipment hiring contracts, the Engineer-in-Charge shall ensure services or hired equipment meet contract terms. The Engineer-in-Charge shall have the authority to issue instructions, approve work, and certify completion, subject to the Employer’s final approval. All instructions and approvals given by the Engineer-in-Charge shall be binding on the Contractor unless otherwise directed by the Employer.
Engineer’s Representative	Shall mean the individual appointed by the Engineer to act on their behalf, responsible for overseeing the works, ensuring compliance with the contract, and making decisions related to the construction process.
Employer’s Representative	Shall mean the individual appointed and authorized by the Client to oversee, administer, and manage the contract on behalf of the Client, ensuring compliance with the terms and conditions of the contract.
Emergency Works	Shall mean works required to rectify, mitigate, or respond to situations arising from natural disasters, accidents, or other unforeseen events that demand immediate action to restore safety, functionality, or compliance with the contract.
Employer’s Risk	Shall mean the risks for which the Employer is responsible under the contract, including but not limited to unforeseen site conditions, force majeure events, or any other risks that are outside the Contractor’s control and which may impact the progress or execution of the works.
Escalation Clause	Shall mean the provision in the contract that allows for adjustments to the contract price or rates based on changes in inflation, material costs, labor rates, or other relevant indices, to account for unforeseen increases in costs during the course of the project.
Force Majeure	Shall mean any unforeseeable event or circumstance beyond the control of either party, including but not limited to natural disasters, war, terrorism, floods, strikes, or government actions, which prevents or delays the performance of contractual obligations.
Final Payment	Shall mean the last payment made by the Client to the Contractor upon the successful completion of the contract, including all adjustments for variations, deductions, or any other contractual obligations, after the issuance of the Completion Certificate.
Final Settlement	Shall mean the final agreement between the Contractor and the Client, which marks the conclusion of the contract, including any outstanding payments, claims, or adjustments, and reflects the completion of all contractual obligations by both parties.

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Gross Income	Shall mean the total income earned by the Concessionaire from the operation of the project, including all tolls, fees, charges, and other revenues generated from the project, before any deductions or expenses.
Indemnity	Shall mean the obligation of the Contractor to hold harmless and protect the Client from any losses, damages, liabilities, claims, or expenses arising from the Contractor's actions, negligence, or failure to perform obligations under the contract, including but not limited to any third-party claims.
Insurance	Shall mean the coverage required under the contract to protect the Contractor, Client, and third parties from risks and liabilities during the execution of the works. This includes coverage for damage to works, injury, accidents, loss, theft, and public liability. The Contractor must obtain insurance from a reputable insurer and provide proof of such coverage to the Client. The insurance must meet the legal and contractual requirements, ensuring adequate protection against potential risks during the project's duration.
Interim Payment	Shall mean a payment made to the Contractor at regular intervals for work completed up to a certain stage, as specified in the contract, based on progress or milestones achieved, subject to the approval of the Client or Engineer.
Insurance Certificate	shall mean a document issued by an insurance company confirming that the Contractor has obtained and maintained the required insurance coverage as specified in the contract, covering risks such as damage to the works, liability, or other relevant insurable events during the course of the project.
Key Personnel	Shall mean the individuals designated in the contract as essential to the execution of the works, whose expertise, roles, and responsibilities are critical to the successful completion of the project, and whose substitution or replacement requires prior approval from the Client.
Liquidated Damages	Shall mean a predetermined amount specified in the contract, which the Contractor agrees to pay as compensation to the Client for delays or failure to complete the works within the agreed completion date, as a result of the Contractor's default.
Letter of Acceptance	Shall mean the formal document issued by the Client to the Contractor, signifying the Client's acceptance of the Contractor's bid or proposal, thereby forming a binding contract between the parties.
Letter of Intent	Shall mean a written statement from the Employer indicating the Employer's intention to proceed with the execution of the works or part

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	thereof, prior to the formal signing of the contract, without creating any contractual obligations on the part of the Employer except for those specifically agreed in the letter.
Mobilization	Shall mean the activities required to prepare the site, deploy resources, and establish necessary facilities for the commencement of the works. This includes setting up temporary site offices, mobilizing labor, equipment, and materials, and ensuring the availability of utilities and services, as well as fulfilling regulatory and safety requirements, in accordance with the terms of the contract.
Notice of Delay	Shall mean a formal notification issued by the Contractor to the Client or Engineer, informing them of delays or potential delays in the completion of the works. The notice shall detail the cause of the delay, the expected duration, and any actions being taken to mitigate the delay, in accordance with the terms of the contract. The notice must be submitted within the specified time frame as outlined in the contract to ensure proper documentation and potential adjustments to the project schedule.
Notice to Proceed	Shall mean a formal written notice issued by the Client to the Contractor, authorizing the commencement of the works specified in the contract, typically following the contract signing. It marks the official start date for the project and confirms that the Contractor may begin work in accordance with the agreed terms and conditions.
Payment Certificate	Shall mean a document issued by the Engineer or Client, certifying the amount due to the Contractor for the work completed up to a specific date, based on the progress of the work, as per the terms of the contract. The certificate includes details of the work completed, measurements, and any applicable adjustments, deductions, or additions, and serves as the basis for the Contractor's payment claim.
Performance Bond	Shall mean a financial guarantee, typically issued by a bank or insurance company, ensuring the Contractor's fulfilment of the terms and conditions of the contract. The bond serves as security for the Client, covering the cost of completing the work or remedying any defects in case the Contractor fails to perform in accordance with the contract. The bond amount is usually a percentage of the contract value and is released upon successful completion of the contract obligations.
Price Adjustment	Shall mean modifications to the contract price due to fluctuations in material costs, labour, or other factors such as inflation or changes in the scope of work, as defined and agreed upon in the contract.

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Progress Payment	Shall mean a periodic payment made to the Contractor based on the measured and certified completion of work, whether calculated as a percentage of the total contract value, as per completed items of work, or as otherwise defined in the contract. Such payments are certified by the Engineer in accordance with the agreed terms.
Request for Proposal	shall mean a formal solicitation document issued by the Client to invite bids for a specified scope of work. It defines project requirements, technical specifications, eligibility criteria, evaluation methodology, and contractual terms governing the bidding process. The RFP ensures transparency, compliance, and fair competition while outlining bid submission, evaluation, and contract award conditions.
Retention	Shall mean a predetermined percentage of the payment due to the Contractor that is withheld by the Client as security to ensure the satisfactory performance and completion of the works, including rectification of any defects during the defect liability period, as specified in the contract.
Site Safety	Shall mean the comprehensive set of measures, practices, and protocols implemented to safeguard the health and safety of all personnel, workers, and the general public during the execution of the works, in compliance with applicable laws, regulations, and contract provisions, including adherence to IRC guidelines and relevant safety standards.
Substantial Completion	Shall mean the stage in the execution of the works where all major components and contractual obligations have been completed to a degree that allows the project to be used or occupied for its intended purpose, notwithstanding the presence of minor defects or incomplete works that do not materially affect functionality, safety, or operability, as determined by the Engineer in accordance with the terms of the contract.
Subcontractor	Shall mean any individual, firm, partnership, or corporation engaged by the Contractor to execute a specified portion of the works or services under the contract, in accordance with the approved terms and conditions, and subject to the Contractor's overall responsibility for the completion and performance of the project as per the contract.
Takeover Certificate	Shall mean the formal document issued by the Client, or the Engineer on behalf of the Client, certifying the satisfactory completion of the works or a specified portion thereof in accordance with the contract terms, signifying the Client's acceptance and assumption of responsibility for the works.

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Term	Definition
Terms of Reference (ToR)	Shall mean a document that defines the scope, objectives, responsibilities, and deliverables for the road construction and maintenance project. It specifies the tasks, such as design, construction, quality control, material specifications, timelines, and resource allocation, to be carried out by the contractor. The ToR operates in conjunction with the General Conditions of Contract (GCC) , Special Conditions of Contract (SCC) , and Contract Data (CD) , which provide the contractual, legal, and procedural guidelines for the project. It ensures that all parties understand their roles, obligations, and expectations while adhering to the project's technical specifications and standards. The ToR serves as a reference for the execution and monitoring of the project, ensuring compliance with the overarching contract documents and applicable standards.
Time Extension	Shall mean an adjustment to the original contract completion date, granted by the Client based on justifiable reasons, such as delays caused by unforeseen circumstances, variations in work scope, or other factors beyond the Contractor's control, in accordance with the provisions of the contract.
Worksite	Shall mean the designated area where the works specified in the contract are to be executed, including all associated locations such as access roads, storage areas, and temporary facilities or structures established by the Contractor for the purpose of completing the works, as defined in the contract documents.
Warranty Period	Shall mean the specified duration following the issuance of the Completion Certificate or Takeover Certificate during which the Contractor is obligated to rectify any defects, deficiencies, or failures in the works, materials, or equipment, ensuring compliance with the contract requirements. This period is defined in the contract and commences upon the formal acceptance of the works by the Client.

2. Scope of Work

2.1 General Scope

The Contractor shall provide all services necessary to carry out road maintenance activities, as outlined in this Agreement. These services shall include routine, preventive, and emergency maintenance, repair, and rehabilitation of the road network, associated structures, and facilities, ensuring their safe and functional condition as specified by the Client. The Contractor shall also be responsible for coordinating with the Client and maintaining records of all work performed.

2.2 Detailed Scope of Works / Services

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The Contractor's responsibilities under this Agreement shall include, but are not limited to, the following tasks:

- 2.2.1 Routine and Preventive Maintenance:** Perform regular inspections, cleaning, and minor repairs of the road, pavements, shoulders, road signs, road markings, drainage systems, guardrails, and other roadside infrastructure, ensuring compliance with the Client's standards.
- 2.2.2 Emergency Repairs and Restoration:** Respond promptly to unexpected events, such as accidents or weather-related damages, ensuring the road is restored to safe and usable conditions with minimal disruption to traffic.
- 2.2.3 Pavement and Surface Treatment:** Maintain, repair, and rehabilitate the road pavement, including surface treatments, patching of damaged areas, and the replacement of severely damaged sections.
- 2.2.4 Drainage and Stormwater Management:** Ensure the proper functioning of the road's drainage systems, including culverts, drains, and ditches, to prevent water accumulation and maintain road stability.
- 2.2.5 Traffic Signs and Road Markings:** Maintain and replace damaged or faded traffic signs, signals, and road markings in accordance with relevant traffic regulations and standards.
- 2.2.6 Roadside Structures and Bridges:** Maintain the structural integrity of all roadside structures, including bridges, overpasses, underpasses, retaining walls, and other infrastructure, ensuring safe operational conditions.
- 2.2.7 Traffic Management and Safety:** Implement safety measures during road maintenance activities, such as proper traffic management, signages, barriers, and other devices, to ensure safety for road users and workers.
- 2.2.8 Environmental Protection:** Conduct all maintenance activities in a manner that complies with environmental regulations, including proper disposal of waste, pollution control, and minimizing disruption to the surrounding environment.

2.3 Contractor's Obligations

- 2.3.1** The Contractor shall supply all labor, equipment, tools, materials, and expertise required to perform the work under this Agreement.
- 2.3.2** The Contractor shall comply with all relevant local, national, and international laws, regulations, and industry standards related to road maintenance, health and safety, and environmental protection.
- 2.3.3** The Contractor shall ensure that all maintenance work is completed within the prescribed timelines and quality standards specified in this Agreement.

2.4 Coordination and Reporting

- 2.4.1** The Contractor shall coordinate all maintenance activities with the Client and provide timely updates regarding the progress of work, issues identified, emergency responses, and completion status.

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2.4.2 The Contractor shall submit regular reports detailing all maintenance activities carried out, including a summary of work completed, ongoing tasks, and any emergency interventions.

2.5 Exclusions

This Agreement excludes any major reconstruction, upgrading, or new construction of roads, bridges, or structures unless explicitly specified in a separate written agreement between the Client and the Contractor.

3. Contract Period and Validity

3.1 Contract Period

The Contract shall commence on the **Effective Date** as specified in the Agreement and shall remain in force for an initial period of **[as specified in Contract Data Sheet] years/months** (the "Contract Period"), unless terminated earlier in accordance with the provisions of this Agreement. The Contractor shall commence work as specified and shall diligently proceed with the work to ensure that all obligations and deliverables are completed in accordance with the terms and conditions of this Agreement.

3.2 Extension of Contract Period

Upon mutual agreement between the Client and the Contractor, the Contract Period may be extended for additional periods, each not exceeding **[as specified in Contract Data Sheet] years/months**, subject to the terms and conditions agreed upon by both parties. Such extension shall be agreed in writing before the expiry of the initial Contract Period or any subsequent extension period. The extension may be due to reasons such as:

3.2.1 The need for continued road maintenance works / services beyond the initial Contract Period.

3.2.2 Delays in the completion of work that are beyond the Contractor's control and for which an extension is granted in accordance with the provisions of this Agreement.

3.3 Validity of Contract

This Agreement shall be valid and binding upon the parties from the **Effective Date [as specified in Contract Data Sheet]** until the completion of all obligations and deliverables, unless terminated earlier as per the provisions of this Agreement. The validity of the Contract shall also depend upon the fulfilment of the following:

3.3.1 Performance Security: The Contractor shall provide a Performance Security **[amount as specified in Contract Data Sheet]** as per the conditions stipulated in this Agreement, which shall remain valid throughout the Contract Period and any extensions thereof.

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3.3.2 Compliance with Regulatory Requirements: The Contract will remain valid provided the Contractor maintains compliance with all applicable laws, regulations, and standards relevant to the performance of road maintenance works / services.

3.4 Survival of Obligations After Termination

Notwithstanding the termination of the Contract, the Contractor's obligations regarding confidentiality, warranties, and indemnities shall survive beyond the termination and continue in full force until satisfied. Any outstanding payments owed by either party to the other at the time of termination shall also survive termination and remain due for settlement.

3.5 Termination and Final Acceptance

In the event of termination of the Contract, the provisions of **Clause 20 (Termination)** shall apply, and in the event of completion of the Contract, the provisions of **Clause 23 (Substantial Completion and Final Acceptance)** shall apply.

4. Contractor's Obligations

4.1 General Obligations

The Contractor shall perform all obligations and services in accordance with the terms of this Agreement and in a professional and efficient manner, ensuring compliance with the **Contract Specifications**, applicable laws, regulations, and standards, and minimizing disruption to road users and the public.

4.2 Obligations Relating to Performance and Quality

The Contractor shall ensure the performance and quality of the road maintenance works / services as per the specifications laid out in the **Scope of Work**. The Contractor shall maintain an efficient **Quality Control (QC) system** and ensure documentation of compliance.

4.3 Staffing and Resource Management

The Contractor shall provide sufficient and competent personnel, equipment, and materials to perform the works / services efficiently. The staffing obligations are detailed under **Clause 5 (Contractor's Personnel)**.

4.4 Health, Safety, and Environmental Requirements

The Contractor shall comply with health, safety, and environmental regulations, ensuring a safe working environment for all personnel and the public. Obligations in this area are covered in **Clause 11 (Health, Safety, and Environmental Management)**.

4.5 Insurance Obligations

The Contractor shall provide and maintain the necessary insurance policies, including public liability, workmen's compensation, and contractor's all-risk insurance, as detailed in **Clause 12 (Insurance)**.

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4.6 Site Management and Supervision

The Contractor shall be responsible for the management, supervision, and coordination of the work. This is covered under **Clause 25 (Site Management and Supervision)**.

4.7 Subcontracting

The Contractor shall not subcontract any part of the work without the prior written approval of the Client. Subcontracting provisions are in **Clause 6 (Subcontracting and Assignment)**.

4.8 Compliance with Laws and Regulations

The Contractor shall comply with all applicable laws and regulations, as outlined in **Clause 17 (Governing Law and Jurisdiction)**.

4.9 Indemnity and Liability

The Contractor shall indemnify and hold the Client harmless from any claims, damages, or liabilities. The indemnity and liability clauses are covered under **Clause 26 (Indemnity and Liability)**.

4.10 Reporting and Documentation

The Contractor shall maintain records and submit regular reports and documentation as required by the Client. Reporting and documentation are covered in **Clause 27 (Reporting and Documentation)**.

4.11 Maintenance and Performance Standards

The Contractor shall adhere to the maintenance and performance standards outlined in the **Contract Specifications** and ensure works / services are rendered to maintain road infrastructure as per **Clause 28 (Maintenance and Performance)**.

4.12 Dispute Resolution

In case of disputes, the dispute resolution process as per **Clause 18 (Dispute Resolution)** shall apply.

4.13 Termination of Contract

In the event of termination, the provisions of **Clause 20 (Termination of Contract)** shall apply.

4.14 The duties of the contractor

This shall include compliance with safety standards, quality, environmental, and health regulations as per MoRTH, IRC, and international norms.

5. Contractor's Personnel

5.1 Contractor's Responsibility:

The Contractor shall ensure that only qualified, experienced, and competent personnel are deployed for the execution of the Works. All personnel, including management, technical, and support staff, shall be appropriately trained, skilled, and

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capable of performing the assigned tasks efficiently, in compliance with applicable standards, laws, and regulations.

5.2 Key Personnel:

The Contractor shall provide a list of key personnel who will be assigned to the project, along with their qualifications, experience, and roles. These personnel shall include, but not be limited to, the Project Manager, Site Engineer, Safety Officer, Quality Control Officer, and other specialized personnel as required by the project. The roles and responsibilities of these key personnel shall be clearly defined and communicated to the Client.

5.3 Substitution of Personnel:

In the event of the need to replace or substitute any key personnel, the Contractor must obtain prior written approval from the Client. Any substitution shall be made with personnel of similar or higher qualifications, and the Contractor shall provide adequate justification for such changes. The new personnel must meet the same qualifications and experience criteria as the replaced staff.

5.4 Non-Compliance and Disciplinary Action:

In case the Client finds that any personnel deployed by the Contractor fail to meet the required standards, the Client reserves the right to request their removal from the site. The Contractor shall promptly remove such personnel and replace them with suitable alternatives. Continued non-compliance by the Contractor's personnel may lead to penalties as per the contract, including potential delays or suspension of work.

5.5 Health, Safety, and Welfare:

The Contractor is responsible for ensuring the health, safety, and welfare of all personnel deployed for the project. All personnel must be provided with the necessary personal protective equipment (PPE) and must comply with the safety protocols defined in the Health, Safety, and Environmental (HSE) plan for the project. The Contractor shall also ensure that all personnel undergo safety training and awareness programs as required.

5.6 Workforce Composition:

The Contractor shall provide a balanced workforce for the execution of the Works, including skilled labor, technical staff, and supervisory personnel. The workforce must be adequate to meet the project timeline and ensure continuous work in compliance with the project's quality, safety, and environmental requirements.

5.7 Contractor's Supervision:

The Contractor shall provide a sufficient number of supervisors and management personnel to oversee the work, ensuring compliance with the approved methodologies, safety standards, and project schedules. The Contractor shall also ensure that supervisors are responsible for maintaining quality control and reporting to the Client.

5.8 Employee Welfare and Benefits:

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The Contractor shall comply with all relevant labour laws and provide adequate welfare facilities for its personnel, including but not limited to, sanitation, accommodation, transportation (if required), and other benefits as per statutory requirements.

5.9 Exclusivity of Personnel:

The personnel deployed by the Contractor for the project shall not be transferred to other projects without the prior written consent of the Client. This ensures that the project benefits from dedicated and focused human resources.

5.10 Compliance with Local Regulations:

All personnel deployed must adhere to the labour laws, safety standards, and environmental regulations that apply to the locality of the project site, in addition to international standards, where applicable.

6. Subcontracting and Assignment

6.1 Subcontracting Approval:

The Contractor shall not subcontract any part of the Works without prior written consent from the Client. All subcontractors must meet the same standards required of the Contractor and adhere to the terms of this contract.

6.2 Contractor's Responsibility:

The Contractor remains fully responsible for the performance of the contract, even when subcontracting. Subcontractors' acts, omissions, and defaults shall be treated as those of the Contractor.

6.3 Assignment and Transfer:

The Contractor shall not assign, transfer, or subcontract the rights or obligations under this contract without the Client's prior written consent. Any unauthorized assignment or transfer shall be void.

6.4 Subcontractor Compliance:

The Contractor must ensure that all subcontractors comply with the terms, standards, and requirements of the contract, including quality, safety, and statutory obligations.

6.5 Notification of Changes:

Any changes to subcontractors must be approved by the Client. The Contractor shall notify the Client in writing of any proposed changes to the subcontractor team.

6.6 Subcontractor's Documentation:

Subcontractors must provide necessary documentation such as progress reports, safety records, and quality assurance certifications as required by the Client. The Contractor is responsible for submitting these on behalf of subcontractors.

6.7 Insurance Requirements:

Subcontractors must carry appropriate insurance coverage as required under the contract, including public liability and workers' compensation. The Contractor must provide proof of insurance on behalf of subcontractors when requested.

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6.8 Subcontractor Performance:

The Contractor shall evaluate subcontractor performance to ensure compliance with the contract, quality standards, and timelines. Any performance issues must be addressed immediately, and the Client should be informed of corrective actions.

6.9 Indemnity:

The Contractor shall indemnify the Client against any claims or damages arising from the actions or failures of subcontractors.

7. Risk Allocation

7.1 Client's Risks:

7.1.1 The Client assumes responsibility for risks arising from:

- 7.1.1.1 Force Majeure:** Events beyond the control of either party, such as natural disasters, strikes, wars, or other unforeseen events.
- 7.1.1.2 Site Conditions:** Delays or issues caused by pre-existing site conditions or environmental factors unknown to the Contractor at the time of bid submission.
- 7.1.1.3 Delays by the Client:** Delays caused by late approvals, failure to provide necessary access, or other actions attributable to the Client.
- 7.1.1.4 Design Changes:** Modifications or changes to the project's design or scope requested by the Client after contract execution.

7.2 Contractor's Risks:

The Contractor assumes responsibility for risks arising from:

- 7.2.1 Project Delays:** Delays resulting from the Contractor's failure to perform, inadequate resources, or failure to meet agreed milestones.
- 7.2.2 Unforeseen Site Conditions:** Conditions that, although unforeseen, could have been reasonably anticipated by the Contractor at the time of the bid submission.
- 7.2.3 Workmanship and Quality:** Ensuring that the works meet the specified standards, with responsibility for correcting any defects or deficiencies during the construction phase and warranty period.
- 7.2.4 Compliance with Laws:** The Contractor's responsibility for complying with all statutory requirements, regulations, and permits during the course of work.

7.3 Shared Risks:

Certain risks are shared between the Client and Contractor, with allocation based on mutual agreement or contract amendments. These include:

- 7.3.1 Changes in Law:** Risk arising from changes in local or national legislation impacting the execution or cost of the project.
- 7.3.2 Third-Party Claims:** Risks of third-party claims related to the construction process, which may be jointly managed by both parties depending on the cause.

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7.4 Risk Cost Purchase (Client's Risk Mitigation Effort):

7.4.1 Risk Management Costs: The Client may incur costs related to purchasing risk management tools or measures, including additional insurance, legal protections, or third-party services to mitigate specific risks identified during the project.

7.4.2 Additional Resources: The Client may provide or purchase additional resources, such as alternative designs or technologies, to mitigate risks related to site conditions, environmental challenges, or delays.

7.4.3 Cost Reimbursement: If the Client elects to purchase such risk mitigation services, any costs incurred may be passed on to the Contractor, subject to prior written approval or agreement on the cost-sharing method.

7.5 Risk Mitigation and Notification:

Both parties are required to actively mitigate risks within their control. Each party must promptly notify the other of any risk factors that could impact the project, including the potential for delay or additional costs. Regular risk assessments must be conducted, and mitigation strategies should be implemented as necessary.

7.6 Force Majeure:

In the event of Force Majeure, the affected party must notify the other party as soon as possible. The contract may be extended, or other adjustments may be made to accommodate the impact of such events.

7.7 Insurance for Risk Management:

Both the Client and Contractor must maintain appropriate insurance coverage to mitigate the impact of risks under their respective responsibilities. This includes public liability, contractor all-risk insurance, and other relevant policies.

8. Quality Control and Assurance

8.1 General Obligations

8.1.1 The Contractor shall ensure that all works comply with the approved Quality Assurance Plan (QAP), MoRTH, IRC, and other relevant specifications.

8.1.2 All materials, workmanship, and methodologies must adhere to the prescribed standards, with no deviations allowed without prior written approval from the Client.

8.1.3 The Contractor is fully responsible for the quality of work, including ensuring compliance with technical specifications, design criteria, and project-specific quality benchmarks.

8.2 Quality Assurance Plan (QAP)

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8.2.1 The Contractor shall submit a comprehensive QAP for Client approval before commencing work. The QAP must include:

8.2.1.1 Roles and responsibilities of personnel involved in quality control.

8.2.1.2 Inspection points, testing protocols, frequency of tests, corrective actions, and defect rectification timelines.

8.2.2 The QAP shall also detail mock-ups, trials, and continuous quality monitoring methods.

8.2.3 The Contractor must diligently implement the approved QAP and address any changes suggested by the Client.

8.3 On-Site Testing Laboratory

8.3.1 The Contractor must establish and operate an on-site testing laboratory with calibrated equipment as per IS and MoRTH standards.

8.3.2 Real-time quality tests shall be conducted, and the results documented and shared with the Client.

8.3.3 The Client reserves the right to verify results through independent testing at NABL-accredited laboratories.

8.4 Material Source Approval

8.4.1 All material sources shall be pre-approved by the Client. The Contractor must submit samples, test results, and certifications for approval before procurement.

8.4.2 The Contractor must ensure timely submission of documents to avoid delays.

8.5 Inspection and Testing Protocols

8.5.1 All materials and workmanship shall undergo regular inspections and testing as per the QAP.

8.5.2 Test frequencies, sampling methods, and acceptance criteria must adhere to MoRTH and project standards.

8.5.3 The Client may conduct independent testing or appoint third-party auditors at any stage, with costs borne by the Contractor in case of non-compliance.

8.6 Non-Conformance Management

8.6.1 The Contractor shall maintain a system to record and rectify non-conforming work.

8.6.2 Non-conforming materials or works must be removed from the site immediately and rectified at the Contractor's expense.

8.6.3 Repeated quality issues will result in escalation as follows: written warnings, penalties, and, if unresolved, suspension of work.

8.7 Defects Rectification and Timelines

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8.7.1 Identified defects must be rectified within timelines specified in the QAP or technical documents.

8.7.2 Failure to comply within these timelines may result in penalties, suspension of work, or termination of the contract.

8.8 Documentation and Reporting

8.8.1 The Contractor shall maintain updated records of all quality control activities, including inspection reports, test results, calibration certificates, and supplier certifications.

8.8.2 Periodic quality reports (daily, weekly, or monthly as specified) shall be submitted to the Client.

8.8.3 Handover documentation, including material certifications, test reports, inspection records, and warranties, must be submitted at project completion for final approval.

8.9 Continuous Improvement Measures

8.9.1 The Contractor shall adopt continuous improvement practices, including regular reviews of quality outcomes and training personnel on quality standards.

8.9.2 Feedback mechanisms must be established to identify recurring quality issues and implement corrective actions.

8.10 Penalties for Quality Non-Compliance

8.10.1 Failure to meet quality standards or address defects promptly shall result in penalties as per the contract.

8.10.2 Substandard quality, delays in defect rectification, or repeated non-conformance may also lead to work suspension or termination.

8.11 Client's Oversight and Rights

8.11.1 The Client reserves the right to conduct inspections, tests, and reviews at any stage, including surprise checks.

8.11.2 Additional testing at NABL-accredited laboratories may be mandated at the Contractor's cost in cases of suspected non-compliance.

8.11.3 Third-party audits may be conducted, with any resulting penalties or costs borne by the Contractor for non-compliance.

9. Work Execution and Methodology

9.1 General Obligations

9.1.1 The Contractor shall carry out all **road construction, periodic maintenance, and routine maintenance** works in strict compliance with the approved work methodologies, schedules, and technical specifications as per MoRTH guidelines, IRC standards, and the relevant contract documents.

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9.1.2 The Contractor is responsible for ensuring that all work is executed in line with the prescribed road maintenance procedures, safety protocols, quality benchmarks, and environmental standards. Any deviations from these shall be subject to prior written approval from the Client.

9.1.3 For the purpose of broad guidelines, the following brief methodology is being provided for reference. **The Contractor shall submit a detailed maintenance methodology at least 30 days before execution of the work for the Client's approval.**

9.2 Road Construction Methodology

Road construction shall be executed in accordance with MoRTH, IRC, and NHAI Schedule-F specifications, ensuring high-quality, durable pavements capable of sustaining traffic loads as per design life requirements. The methodology shall comprehensively cover earthwork, embankment formation, pavement layers, drainage structures, road safety appurtenances, and associated works. The Contractor shall ensure that all construction activities are planned, executed, and monitored as per approved designs, work methodologies, and safety protocols. All quality control tests shall be conducted as per specified standards, and the work shall be inspected by the Client or its authorized representatives at various stages.

9.2.1 Scope and Requirements

The Contractor shall execute all new road construction and major rehabilitation works in accordance with MoRTH, IRC, and NHAI Schedule-F specifications. The methodology shall cover embankment preparation, pavement layers, drainage, structures, and road safety features.

9.2.2 Subgrade and Pavement Layers

The Contractor shall ensure that subgrade, granular sub-base (GSB), wet mix macadam (WMM), bituminous layers (DBM, BC, etc.), and concrete layers (PQC, DLC, etc.) are laid as per approved designs and quality control norms.

9.2.3 Earthwork and Embankment Preparation

Before pavement construction, all earthwork and embankment preparation shall follow MoRTH specifications, including compaction testing, slope stabilization, and proper drainage provisions.

9.2.4 Drainage and Structural Components

The construction of culverts, drains, bridges, and retaining walls shall be carried out in line with approved drawings and IRC/MoRTH specifications. Proper curing and structural integrity checks shall be conducted before road opening.

9.2.5 Traffic Management during Construction

The Contractor shall implement a temporary traffic diversion plan to ensure smooth traffic flow and road user safety. Temporary roads or bypasses shall be constructed as required.

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9.3 Bridge and Structural Construction Methodology

The construction of bridges, culverts, ROBs, and other structures shall be carried out in accordance with MoRTH, IRC, and BIS standards, ensuring structural integrity, durability, and safety. The Contractor shall follow approved designs and specifications, ensuring strict quality control at every stage, from foundation work to superstructure completion.

The methodology shall cover all aspects of bridge and structural construction, including substructure and superstructure works, material selection, quality control measures, safety procedures, and traffic management during construction. The execution shall comply with MoRTH, IRC, and BIS standards, ensuring durability, stability, and road user safety.

9.3.1 Substructure and Foundation Works

- i. The Contractor shall ensure that all excavation, piling, and foundation works are carried out as per the approved design and site conditions.
- ii. Piling (bored cast-in-situ or driven) shall be executed using the appropriate methodology, maintaining verticality and ensuring proper reinforcement cage placement.
- iii. For shallow foundations, the excavation depth and bearing strata shall be verified before concreting.
- iv. Abutments and piers shall be constructed using high-strength concrete, ensuring proper curing and reinforcement cover as per IRC and MoRTH specifications.

9.3.2 Superstructure Erection

- i. The erection of girders (precast or cast-in-situ) shall follow an approved lifting and launching scheme, ensuring proper alignment and structural stability.
- ii. Deck slab construction shall ensure adequate formwork support, reinforcement placement, and proper curing.
- iii. Prestressing operations, if applicable, shall be carried out as per IRC:18 and MoRTH standards, ensuring proper tensioning and grouting.

9.3.3 Expansion Joints and Bearings

- i. The Contractor shall install expansion joints and bearings as per the approved design, ensuring correct alignment and proper seating.
- ii. Bearing pads (elastomeric, pot, or spherical) shall be placed with precision, and their compressibility shall be verified before final placement.
- iii. Expansion joints shall be sealed properly to prevent water ingress and joint deterioration.

9.3.4 Finishing Works and Safety Features

- i. Crash barriers, handrails, and parapets shall be installed as per IRC:5 and MoRTH guidelines.

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- ii. The bridge deck shall be waterproofed using approved membranes or asphaltic coatings.
- iii. Approach roads shall be integrated seamlessly, ensuring proper drainage and smooth transition between road and bridge sections.

9.3.5 Traffic and Environmental Management during Construction

- i. The Contractor shall ensure proper diversion routes and barricading during construction, as per the approved traffic management plan.
- ii. Dust suppression measures shall be implemented during excavation and material handling.
- iii. Waste materials shall be disposed off safely in compliance with environmental regulations.

9.4 Periodic Maintenance Methodology

Periodic maintenance activities are essential for ensuring the longevity, durability, and functional efficiency of the road infrastructure. These works shall include surface renewal, overlaying, strengthening, milling & resurfacing, crack sealing, and preventive maintenance measures to enhance pavement performance and road safety. The Contractor shall execute all periodic maintenance works in compliance with MoRTH, IRC, and NHAH Schedule-F guidelines. The methodology shall focus on proper surface preparation, material selection, quality assurance, and minimization of disruptions to traffic. Any deviations or modifications in the planned methodology shall require prior approval from the Client.

9.4.1 Scope and Objectives

Periodic maintenance shall include surface renewal, overlaying, strengthening, milling & resurfacing, crack sealing, and other preventive measures to extend pavement life.

9.4.2 Surface Preparation before Resurfacing

The Contractor shall undertake thorough surface cleaning, removal of loose material, and application of prime/tack coats as per MoRTH standards before overlaying new pavement layers.

9.4.3 Milling and Resurfacing

If resurfacing is required, existing asphalt layers shall be milled as per the required depth before new bituminous layers are laid. The Contractor shall ensure proper bonding between layers.

9.4.4 Strengthening of Pavement

For pavement strengthening, the Contractor shall execute overlaying or additional layers (BM, DBM, BC) as per the approved design mix, ensuring compaction and density control.

9.4.5 Inspection and Testing

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Core sampling, density tests, and roughness index tests shall be conducted to verify compliance with specified quality standards.

9.5 Periodic Maintenance of Bridges and Structures

Periodic maintenance of bridges, culverts, ROBs, and structures is critical to ensuring their longevity, structural safety, and functionality. The Contractor shall conduct systematic inspections, repairs, and preventive maintenance activities as per MoRTH Schedule-F, IRC, and BIS guidelines.

The methodology shall include inspection protocols, maintenance procedures for bearings and expansion joints, concrete repair techniques, waterproofing measures, and traffic safety arrangements. All maintenance activities shall be performed as per MoRTH Schedule-F, IRC:SP:35, and other relevant standards to ensure the long-term serviceability and structural integrity of bridges, culverts, and ROBs.

9.5.1 Inspection and Structural Assessment

- i. The Contractor shall conduct periodic inspections of all bridges, culverts, and ROBs as per IRC:SP:35 and MoRTH Schedule-F.
- ii. Structural integrity checks shall include visual inspections, load testing (if required), and material condition assessment.
- iii. Any signs of distress, such as cracks, spalling, or deflections, shall be documented, and corrective measures shall be proposed.

9.5.2 Bearing and Expansion Joint Maintenance

- i. Bearings shall be inspected for signs of displacement, corrosion, or excessive deformation.
- ii. Lubrication and cleaning of bearings shall be performed as per manufacturer recommendations.
- iii. Expansion joints shall be cleaned, re-sealed, or replaced if damaged, ensuring smooth movement of the structure.

9.5.3 Concrete Repairs and Strengthening Measures

- i. Deteriorated concrete shall be repaired using polymer-modified mortars or epoxy-based solutions.
- ii. Carbon fibre wrapping or steel plate bonding shall be used for strengthening weak structural elements.
- iii. Proper curing shall be ensured after repairs to achieve the required strength and durability.

9.5.4 Waterproofing, Drainage, and Corrosion Protection

- i. Deck waterproofing membranes shall be inspected and repaired if damaged.
- ii. Drainage pipes and scuppers shall be cleaned to prevent water accumulation on the bridge deck.

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- iii. Anti-corrosion coatings shall be applied to exposed reinforcement and steel elements to prevent deterioration.

9.5.5 Traffic and Public Safety Management during Maintenance

- i. Temporary lane closures shall be planned to minimize disruption to traffic.
- ii. Proper signage, barricading, and flagmen shall be deployed to guide road users safely.
- iii. The Contractor shall coordinate with local authorities to ensure compliance with safety regulations.

9.6 Detailed Maintenance Methodology

9.6.1 The Contractor shall submit a comprehensive Road Maintenance Methodology Plan for the Client's approval before commencement. This plan must include detailed processes for each maintenance activity, including surface repair, crack filling, patching, resurfacing, drainage maintenance, and any other works as per the scope.

9.6.2 The plan should detail the sequence of operations, methods, materials to be used, equipment, and labor deployment. It must also outline the methodology for managing road closures, traffic control, and diversion routes during maintenance work.

9.6.3 Any changes to the approved methodology must be submitted for Client approval before implementation.

9.7 Routine Maintenance Execution

9.7.1 The Contractor shall ensure that the maintenance works, such as pothole repairs, crack sealing, surface dressing, resurfacing, patch repairs, and drainage cleaning, are carried out as per MoRTH and IRC standards, ensuring road safety and minimal disruption to traffic.

9.7.2 Specific procedures for each type of work (e.g., resurfacing, pothole filling, crack sealing) shall be outlined in the methodology, and work shall proceed strictly as per the sequence and conditions specified.

9.7.3 For resurfacing works, the Contractor must ensure that existing road surface preparation is adequate, including milling, cleaning, and priming, as per the IRC and MoRTH specifications.

9.8 Emergency Repairs Under Routine Maintenance

While routine maintenance includes activities such as pothole filling, crack sealing, and minor surface repairs, **emergency repair works necessitated by unforeseen events**—such as floods, landslides, major accidents, or structural failures—require a structured response.

In the event of an emergency affecting the highway infrastructure, the contractor shall:

- i. **Immediate Response:** Mobilize resources within **[2] hours** of notification to assess the damage and ensure temporary traffic management measures for public safety.

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- ii. **Reporting & Coordination:** Notify the Authority Engineer immediately and submit a preliminary damage assessment report within **[6] hours**, detailing the nature and extent of damage.
- iii. **Temporary & Permanent Restoration:** Execute immediate safety measures, including temporary traffic diversions, barricading, and urgent patchwork. Permanent repairs shall follow within the timeframe stipulated by the Authority Engineer.
- iv. **Material & Cost Considerations:** The contractor shall maintain a stockpile of essential materials and deploy necessary manpower and equipment for emergency response. The cost of such emergency repairs, if beyond the scope of routine maintenance, shall be addressed as per contractual provisions.

All emergency repair activities must comply with relevant MoRTH specifications and safety guidelines, ensuring minimal disruption to traffic and structural integrity of the highway.

9.9 Approval Process for Deviations

In cases where deviations from the approved maintenance plan, materials, methodology, or schedule are necessary, the contractor shall obtain prior approval from the Client or Authority Engineer. The approval process shall be as follows:

- i. **Standard Approvals:** Any planned deviation must be submitted in writing, including justification, impact assessment, and proposed corrective measures. The Client/Authority Engineer shall review and respond within **[10] working days** from submission.
- ii. **Urgent & Emergency Deviations:** For urgent situations requiring immediate action (e.g., safety hazards, emergency repairs), the contractor may seek **verbal approval** from the Authority Engineer. Such approvals must be recorded in writing within **[24] hours**, followed by formal documentation within **[5] working days**.
- iii. **Record-Keeping & Compliance:** All approved deviations shall be documented for compliance with contractual provisions and MoRTH specifications. Unauthorized deviations may result in penalties or rejection of work.

9.10 Material Selection and Handling

9.10.1 All materials used for road maintenance must meet MoRTH and IRC specifications, with the Contractor required to submit material samples and obtain Client approval prior to procurement.

9.10.2 Materials must be sourced from approved suppliers, and the Contractor shall maintain documentation for certification of compliance with MoRTH, IRC, and relevant BIS standards.

9.10.3 Proper handling and storage of materials, such as bitumen, aggregates, and cement, must be ensured to maintain their quality and prevent contamination or deterioration.

9.11 Timely Execution and Scheduling

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9.11.1 Maintenance work shall be executed as per the approved work schedule, ensuring that critical road maintenance activities such as resurfacing and patching are completed within the stipulated timeframes to avoid prolonged disruption to road users.

9.11.2 Any delay in the completion of work must be reported to the Client immediately, along with a revised schedule and reasons for the delay. The Contractor must take immediate corrective actions to mitigate delays.

9.12 Site Mobilization and Readiness

9.12.1 The Contractor shall mobilize necessary resources, including equipment, skilled labor, and materials, before starting the work to ensure site readiness. This includes setting up of temporary safety barriers, signage, and traffic control systems as per the approved traffic management plan.

9.12.2 Temporary diversion routes and road closures, if necessary, must be coordinated with the Client and relevant local authorities to ensure smooth traffic flow during the maintenance period.

9.13 Quality Control during Execution

9.13.1 Quality control measures must be strictly adhered to at all stages of work. The Contractor shall conduct in-situ testing, such as core sampling, compaction testing, and bitumen content testing, in accordance with MoRTH specifications.

9.13.2 For major maintenance works such as resurfacing or surface dressing, the Contractor must verify the compaction, uniformity, and adhesion of the new layer with the underlying surface.

9.13.3 The Contractor must implement a system of daily inspections and testing to monitor the quality of materials, workmanship, and progress.

9.14 Health, Safety, and Environmental Considerations

9.14.1 The Contractor is responsible for ensuring that all work is carried out in compliance with the health, safety, and environmental standards outlined in the approved Safety Management Plan.

9.14.2 Measures must be implemented to minimize dust, noise, and other pollutants during work, and the site must be regularly cleaned **to maintain safety and environmental standards.**

9.14.2.1 Environmental Compliance

- i. The contractor shall ensure that all maintenance activities comply with environmental regulations as per **Central Pollution Control Board (CPCB) and State Pollution Control Board (SPCB) guidelines**. The following measures shall be strictly implemented:

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- ii. **Dust Suppression:** Regular water sprinkling, use of dust barriers, and other appropriate measures shall be adopted, particularly during sweeping, pothole repairs, and unpaved shoulder maintenance.
- iii. **Waste Management:** Debris, removed vegetation, and other waste materials shall be collected, segregated, and disposed of at designated locations as per SPCB norms. No waste shall be dumped in drains, water bodies, or road shoulders.
- iv. **Noise & Air Pollution Control:** Construction equipment and vehicles shall comply with prescribed emission and noise limits. Unnecessary idling of machinery shall be avoided.
- v. **Spill Prevention:** Proper handling and disposal of hazardous materials, including bitumen and oil spills, shall be ensured to prevent contamination of soil and water.
- vi. **Compliance & Monitoring:** The contractor shall maintain records of environmental protection measures undertaken and make them available for inspection by the Client/Authority Engineer.
- vii. Non-compliance may result in penalties as per contract provisions.

9.14.3 The Contractor shall ensure that adequate signage, barriers, and flagmen are deployed to ensure road user safety during work.

9.15 Traffic Management and Public Communication

9.15.1 The Contractor shall submit a detailed traffic management plan as part of the methodology, outlining road closure procedures, detour routes, signages, and safety measures for public protection.

9.15.2 Any changes to traffic management must be promptly communicated to the Client and local authorities.

9.15.3 Public notices regarding roadwork schedules, diversions, and alternate routes must be issued by the Contractor to ensure minimum inconvenience to the public.

9.16 Inspection and Supervision

9.16.1 The Contractor shall ensure that qualified supervisory staff are on-site at all times to oversee daily operations, ensuring work quality, safety, and adherence to the methodology.

9.16.2 The Client or its authorized representative reserves the right to inspect the work at any stage. Any defects or deviations identified shall be corrected by the Contractor at their expense.

9.17 Non-Conformance and Corrective Action

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9.17.1 In case of non-conformance to the approved methodology or technical specifications, the Contractor must take immediate corrective actions and notify the Client of the remedial measures.

9.17.2 Failure to correct defects within the specified timeframe will result in penalties, suspension of work, or other contractual remedies as outlined in the contract.

9.18 Reporting and Documentation

9.18.1 The Contractor shall submit daily and weekly progress reports, highlighting completed activities, quality checks, resource utilization, and any issues encountered during work.

9.18.2 The Contractor must maintain all records related to material procurement, testing, inspections, and any approvals from authorities for the duration of the project.

9.19 Completion and Handover

9.19.1 Upon completion of the maintenance work, the Contractor shall ensure that the site is fully cleaned, all temporary structures are removed, and the road is safely reopened for traffic.

9.19.2 The Contractor shall submit a completion report, including details of all maintenance work carried out, materials used, quality checks performed, and any outstanding issues to the Client for final approval.

10. Materials and Equipment

10.1 General Requirements

10.1.1 The Contractor shall supply all materials and equipment required for the execution of new construction, periodic maintenance, and routine maintenance of roadworks and electrification systems. This includes materials necessary for construction, rehabilitation, resurfacing, installation, repair, and maintenance activities, as well as the tools and machinery needed to perform these activities.

10.1.2 All materials and equipment must conform to the specifications outlined in MoRTH, IRC, relevant IS codes, and the approved Quality Assurance and Quality Control Plan (QA/QC Plan) as per **Clause 8**.

10.2 Materials

10.2.1 All materials required for new construction, periodic maintenance, and routine maintenance of roadworks and electrification systems must be sourced from approved suppliers and meet the prescribed standards. The materials shall conform to MoRTH, IRC, relevant IS codes, and the approved Quality Assurance and Quality Control Plan (QA/QC Plan).

10.2.1.1 Materials include, but are not limited to:

- i. **Roadworks (New Construction & Maintenance):** Bitumen, aggregates, cement, reinforcement steel, geotextiles, concrete admixtures, paint, road signs, reflective

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materials, thermoplastic road markings, joint sealants, drainage pipes, and ancillary construction materials.

- ii. **Electrification Works:** Poles, transformers, cables, streetlight fixtures, junction boxes, electrical wires, electrical control panels, earthing systems, and accessories.

10.2.2 The Contractor shall submit **samples, manufacturer test certificates, and third-party laboratory test reports** for all materials before use to ensure compliance with project specifications. If any material fails to meet the prescribed standards, it shall be **immediately rejected**, and the Contractor shall replace it with a conforming alternative **at their own expense and without affecting project timelines**.

10.3 Equipment for Execution and Maintenance

10.3.1 General Requirements

The Contractor shall deploy suitable, **calibrated, and well-maintained** equipment for **new construction, periodic maintenance, and routine maintenance** of roadworks and electrification systems. Equipment shall conform to the **MoRTH, IRC, relevant IS codes, and the approved QA/QC Plan**.

Equipment shall include but is not limited to:

- i. **Roadworks (New Construction & Maintenance):** Graders, pavers, rollers, excavators, milling machines, asphalt plants, bitumen sprayers, chip spreaders, road cutters, hot mix transporters, crack sealing machines, and surface dressing equipment.
- ii. **Electrification Works:** Cranes, hoists, lifting machines, cable pullers, welding machines, pole erection rigs, auger drilling machines, fault detection equipment, and transformer testing kits for streetlight and electrical system installation and maintenance.

10.3.2 Equipment Submission and Maintenance

The Contractor shall submit a **comprehensive list** of all equipment required for the project, including **calibration records and maintenance logs**, ensuring that all equipment is properly maintained and in **good working condition**.

Equipment must be:

- i. **Adequate for efficient and safe execution** of all tasks.
- ii. **Regularly serviced and calibrated** to ensure compliance with project requirements.
- iii. **GPS-enabled for tracking** (if applicable) to monitor utilization and ensure operational efficiency.
- iv. **Immediately replaced in case of malfunction**, to avoid project delays.

10.3.3 Equipment Fitness and Preventive Maintenance

All deployed equipment shall be:

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- i. **Fit for the intended purpose** and capable of performing the assigned tasks.
- ii. **Regularly inspected, tested, and serviced** to minimize breakdowns and downtime.
- iii. **Maintained proactively** as per manufacturer guidelines to avoid unexpected failures.
- iv. **Kept operational and available at all times** to meet project demands efficiently.

10.4 Quality Assurance and Testing of Materials

10.4.1 The Contractor shall ensure that all materials used in roadworks construction, maintenance and electrification comply with the approved **Quality Assurance and Quality Control (QA/QC) Plan**. The Contractor shall submit **source approvals, manufacturer test certificates (MTC), and on-site test reports** for all materials prior to their use. The quality control and testing of materials shall be conducted in accordance with the applicable provisions of **MoRTH, IRC, IS codes, and project-specific technical specifications**. Where required, testing shall be carried out by independent **NABL-accredited** laboratories.

10.4.2 Any material that fails to meet the specified requirements shall be deemed **non-compliant** and shall be immediately removed from the site at the Contractor's cost. The Contractor shall replace such material with compliant material from an **approved source**, ensuring that no additional cost is incurred by the Client.

10.4.3 The Contractor shall maintain comprehensive records of all **test results, approvals, and compliance certificates** and shall submit these to the Client upon request. The Client reserves the right to inspect and verify the materials at any stage of procurement, delivery, or installation.

10.5 Storage and Handling of Materials and Equipment

10.5.1 The Contractor shall ensure that all materials and equipment are **stored, handled, and protected** in a manner that prevents **damage, deterioration, contamination, or theft**. Storage facilities shall be designed to maintain materials in their original condition and comply with relevant **safety, environmental, and manufacturer's guidelines**.

10.5.2 Materials shall be stored in designated areas, with specific provisions as follows:

- i. **Roadworks Materials:**
 - a. **Bitumen and Cement** shall be stored in **covered, dry, and well-ventilated spaces** to prevent contamination and deterioration.
 - b. **Aggregates** may be stored in **open spaces**, duly protected from contamination and excessive moisture.
- ii. **Electrical Components** (e.g., transformers, cables, control panels) shall be stored in **weather-protected, moisture-free environments**, ensuring compliance with the manufacturer's storage guidelines.

10.5.3 The Contractor shall implement appropriate **handling procedures** to prevent damage during **loading, unloading, and transportation**. All equipment shall be stored and

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maintained in accordance with the **manufacturer's recommendations** to ensure its proper functionality and longevity.

10.5.4 The Client reserves the right to **inspect storage and handling procedures** at any time and may direct corrective measures if deficiencies are identified. Any material or equipment found damaged, defective, or improperly stored shall be **immediately replaced or rectified** at the Contractor's cost.

10.6 Non-Conformance of Materials and Equipment

10.6.1 Any materials or equipment that fail to comply with the approved specifications, quality standards, or contractual requirements shall be deemed non-conforming and shall not be used in the project.

10.6.2 Upon identification of non-conforming materials or equipment, whether through inspection, testing, or performance evaluation, the Contractor shall:

- i. Immediately remove the defective materials or equipment from the site.
- ii. Rectify or replace the non-conforming items at their own cost, without affecting the project timeline.
- iii. Ensure that all replacements strictly adhere to the approved specifications and quality control requirements.

10.6.3 If the Contractor fails to remove or replace the defective materials or equipment within the stipulated timeframe, the Client shall have the right to procure conforming replacements at the Contractor's risk and expense, and any associated costs shall be recovered from the Contractor.

10.6.4 The Client reserves the right to reject any material or equipment at any stage if it is found non-compliant, even after initial approval or installation. The Contractor shall be solely responsible for any delays, damages, or costs arising due to the use of non-conforming materials or equipment.

10.7 Client's Rights to Inspect and Test

10.7.1 The Client reserves the right to inspect and test all materials, equipment, and systems (roadworks, electrification) at any stage. If any non-compliance or deficiencies are identified, the Client may require corrective actions, including replacement or repair of materials or equipment at the Contractor's expense.

10.8 Documentation and Reporting

10.8.1 The Contractor must maintain accurate and up-to-date records of all materials supplied, equipment deployed, and testing conducted. This includes certifications, inspection reports, maintenance logs, calibration records, and material test results. The

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Contractor shall submit regular progress reports to the Client, detailing the status of material procurement, equipment deployment, and any issues related to materials or equipment.

11. Health, Safety, and Environmental Requirements

11.1 Compliance

The Contractor shall comply with all applicable health, safety, and environmental laws, regulations, and standards, including but not limited to those outlined by local authorities, MoRTH, and IRC. The Contractor is responsible for ensuring the safety of all personnel and for maintaining a safe working environment at all times, including the provision of necessary safety equipment, training, and emergency preparedness measures. All works shall be carried out in accordance with the Health, Safety, and Environmental (HSE) guidelines as detailed in the **Health, Safety, and Environmental Requirements document**. The Contractor shall also ensure compliance with environmental protection measures, including the management of waste, pollution control, and resource conservation.

For detailed HSE protocols, please refer to the **Health, Safety, and Environmental document**.

12. Insurance and Liability

12.1 Contractor's Insurance Requirements

The Contractor shall maintain, at their own expense, the following insurances throughout the term of the Contract and ensure that they are in full force and effect at all times during the execution of the work:

12.2 Workmen's Compensation Insurance

The Contractor shall procure and maintain adequate Workmen's Compensation Insurance to cover all liabilities arising under statutory provisions and at common law for injuries to or death of persons employed under the Contract. Proof of insurance shall be submitted to the Client prior to the commencement of the work.

12.3 Contractor All Risk (CAR) Insurance

The Contractor shall obtain and maintain a Contractor All Risk (CAR) Insurance policy covering all risks associated with the execution of the works, including but not limited to physical damage to the works, equipment, and third-party property. This insurance shall remain valid until the issuance of the final completion certificate.

12.4 Other Insurances

Additional insurances, if required, such as Public Liability Insurance or Third-Party Liability Insurance, shall be explicitly specified in the **Special Conditions of Contract**

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(SCC). In such cases, the Contractor shall ensure compliance as per the SCC's stipulations.

12.5 Proof of Insurance

Copies of all required insurance policies and proof of premium payments shall be submitted to the Client within seven days of the contract award and before the commencement of work.

12.6 Failure to Insure

In case the Contractor fails to procure or maintain the required insurance policies, the Client reserves the right to procure such insurances and deduct the cost from payments due to the Contractor, along with applicable penalties.

12.7 Indemnity

The Contractor agrees to indemnify and hold harmless the Client against any claims, damages, losses, or liabilities arising from the Contractor's negligence, omissions, or failure to comply with the terms of this contract. This includes claims related to third-party injuries, property damage, or environmental damage due to the Contractor's actions or lack of adequate precautions.

12.8 Insurance Documentation and Proof

12.8.1 The Contractor shall provide the Client with valid certificates of insurance for all required policies prior to the commencement of work. The insurance policies must be maintained for the duration of the contract and for a period of time post-completion as specified in the contract.

12.8.2 The Client reserves the right to verify and review all insurance coverage at any time. The Contractor shall immediately notify the Client of any cancellation, non-renewal, or change in insurance coverage.

12.9 Additional Insurances

The Contractor is responsible for obtaining any additional insurance that may be necessary for the completion of specific works under this contract, including any unforeseen risks that may arise during road maintenance works / services.

12.10 Liabilities and Limitations

12.10.1 The insurance coverage must not limit the Contractor's liabilities or responsibilities under the terms of the contract.

12.10.2 The Contractor shall remain liable for any risks that fall outside the scope of the insurance coverage.

12.10.3 The Client shall not be held liable for any damage or loss that is covered under the Contractor's insurance policies, nor for any failure by the Contractor to secure adequate insurance coverage.

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12.11 Specific Insurance for Road Maintenance Works

In addition to the general types of insurance listed above, **road maintenance works** have additional specific risks, particularly related to safety, traffic management, and environmental impacts. Therefore, the following should be included to cover roadworks effectively:

- 12.11.1 Traffic Management Insurance:** To cover incidents or accidents occurring due to changes or disruptions in traffic patterns caused by road maintenance work.
- 12.11.2 Roadwork Hazards Insurance:** Coverage for accidents occurring due to the nature of roadwork, including risks to workers and the public from construction equipment, excavations, or surface treatments.
- 12.11.3 Hazardous Material Handling Insurance:** Specifically for projects involving the disposal of hazardous materials such as asphalt, chemicals, or other waste generated during roadworks.

13. Labor Laws and Statutory Compliance

13.1 General Compliance

The Contractor shall comply with all applicable labour laws, regulations, and statutory requirements as per the laws of the land, including but not limited to:

- i. The **Contract Labor (Regulation and Abolition) Act, 1970** and its amendments.
- ii. The **Employees' Provident Funds and Miscellaneous Provisions Act, 1952**.
- iii. The **Employees' State Insurance Act, 1948**.
- iv. The **Minimum Wages Act, 1948**.
- v. The **Payment of Wages Act, 1936**.
- vi. The **Workmen's Compensation Act, 1923** or its amended equivalents.
- vii. The **Factories Act, 1948** (where applicable).
- viii. Any other applicable state or central labor legislation.

13.2 Wage Payment and Benefits

The Contractor shall ensure that all workers employed under the contract are paid wages not less than the prescribed minimum wages and are provided with benefits such as Provident Fund, Employee State Insurance, gratuity, and other statutory benefits as mandated by applicable laws.

13.3 Labor Licenses and Registrations

The Contractor shall obtain and maintain valid labor licenses, registrations, and permits required under applicable labor laws and provide copies to the Client upon request.

13.4 Health, Safety, and Welfare

The Contractor shall ensure the welfare of workers by providing adequate safety measures, sanitary facilities, clean drinking water, first aid, and hygienic working conditions in compliance with statutory requirements. The Contractor shall comply

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with the provisions of the **Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996** and the rules framed thereunder, including any welfare cess.

13.5 Prohibition of Child and Forced Labor

The Contractor shall not employ any person below the age of 18 years and ensure that no forced or bonded labour is engaged. The Contractor shall strictly comply with the provisions of the **Child Labor (Prohibition and Regulation) Act, 1986**.

13.6 Compliance Monitoring and Reporting

The Contractor shall maintain accurate records of all labour engaged on the project, including wages paid, hours worked, and statutory benefits provided. The Contractor shall furnish periodic reports as requested by the Client to demonstrate compliance with labor laws and statutory requirements.

13.7 Labor Disputes and Resolution

The Contractor shall be solely responsible for resolving any disputes arising with workers or unions and shall ensure that such disputes do not disrupt project activities or create liabilities for the Client.

13.8 Indemnification

The Contractor shall indemnify and hold harmless the Client from and against any liabilities, penalties, claims, or proceedings arising out of any breach of labour laws or statutory requirements by the Contractor or their subcontractors.

13.9 Penalty for Non-Compliance

In case of non-compliance with labor laws or statutory requirements, the Client reserves the right to impose penalties, deduct amounts from payments due to the Contractor, or terminate the contract without prejudice to other rights and remedies.

13.10 Specific to Road Maintenance

Given the nature of road maintenance work, the Contractor shall:

- i. Provide safety gear such as high-visibility jackets, helmets, gloves, and safety boots to all workers.
- ii. Ensure adequate training for workers handling machinery, hazardous materials, or working in traffic zones.
- iii. Comply with traffic management protocols to ensure worker and public safety during maintenance activities.

14. Payment Terms and Conditions

14.1 General

The Contractor shall be entitled to receive payments for the works executed, subject to certification by the Client or the Engineer-in-Charge. ***The payment structure, whether percentage-based, lump-sum, or BoQ-based item rate, shall be as per the type of contract and detailed in the Contract Data Sheet.*** This clause provides an indicative framework for various payment scenarios.

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14.2 Payment on Percentage Basis

In case the contract stipulates percentage-based payments, the Contractor shall receive payments in predefined stages linked to the completion of specific milestones, as outlined in the **Contract Data Sheet**. Each stage payment shall be proportional to the overall contract value and subject to certification of the milestone achievement.

14.3 Lump-Sum Payment

In case of lump-sum contracts, payments shall be made as per the agreed milestones or deliverables, as detailed in the **Contract Data Sheet**. Each payment shall be subject to satisfactory progress and certification by the Client. Any variations in scope shall be addressed through additional work orders or amendments, as applicable.

14.4 BoQ-Based Item Rate Payment

In case the contract follows a Bill of Quantities (BoQ) item rate basis, the Contractor shall be paid based on actual quantities executed and certified at the agreed unit rates as per the BoQ. Measurements for executed works shall conform to the applicable IS and MoRTH standards.

14.5 Retention Money

A retention amount, typically a percentage of each payment, shall be deducted and retained as security until successful completion of the works, including defect liability and final acceptance by the Client. The retention money shall be released along with the final bill upon satisfactory completion of all contractual obligations, including rectification of any defects during the defect liability period.

14.6 Advance Payments

Any advance payments, if applicable, shall be detailed in the SCC and subject to recovery through subsequent payments as per agreed terms.

14.7 Payment Certification and Conditions

Payments shall be subject to:

- i. Submission of detailed invoices along with supporting documents.
- ii. Certification by the Client or the Engineer-in-Charge for works completed.
- iii. Compliance with contractual obligations, including quality, safety, and statutory requirements.

14.8 Taxes and Deductions

All payments shall be subject to statutory deductions such as TDS, GST, or any other applicable taxes as per prevailing laws.

14.9 Final Bill Settlement

The final bill, including the release of retention money, shall be settled after:

- i. Submission of all as-built drawings, test reports, and warranties.
- ii. Clearance of all dues related to subcontractors, suppliers, and workers.
- iii. Certification by the Client of successful completion of works, including the defect liability period.

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14.10 Interim Payment Method and Requirements

Interim payments shall be processed periodically, as specified in the contract, to ensure timely reimbursement for the work executed. The Contractor shall submit interim invoices along with the required documentation, including measurement sheets, progress reports, and certifications of work completed. Each interim payment shall be subject to verification and certification by the Engineer-in-Charge, ensuring compliance with the contract specifications, quality standards, and milestones achieved. Retention money, as applicable, shall be deducted from each interim payment, and all statutory deductions, such as taxes, shall be applied as per prevailing laws. It is expressly clarified that all interim payments are provisional and shall not be considered final. These payments are subject to final reconciliation, adjustments, or modifications, as required, in the final bill to reflect the actual work performed, material consumed, and compliance with all contract obligations.

14.11 Submission of Documentation Along with Invoice

14.11.1 For Interim Payments

To process interim bills, the Contractor must submit the following:

A. Work-Related Documentation:

- Measurement Sheets** signed by the Contractor's representative and verified by the Client's representative.
- Inspection Reports** confirming adherence to Quality Assurance and Quality Control Plans (as per **Clause 8**).
- Test Reports and Material Certificates** for all materials utilized during the invoiced period.
- Progress Photographs** showcasing completed works corresponding to the invoice.
- Approved Work Orders and Variations**, if applicable.

B. Statutory Compliance Documentation:

- Wage Registers** and attendance records for labor deployed during the period.
- PF and ESI Deposit Receipts** for the period covered by the invoice.
- Labor Licenses** applicable to the workforce engaged in the project.
- Insurance Compliance Certificates** as per contractual requirements.

14.11.2 For Final Bill

In addition to the above, the following must be submitted:

A. Work-Related Documentation:

- Final Reconciliation Statement** of materials, quantities, and payments.
- Equipment Utilization Records** for all deployed equipment throughout the project.
- Variation and Extra Work Documentation** including Client-approved change orders.

B. Statutory Compliance Documentation:

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- a) **Acknowledgment of No Claims** from the Contractor, confirming no outstanding claims.
- b) **Safety Compliance Records** including training records and reports of any incidents.
- c) **Environmental Compliance Reports**, if applicable.
- d) **Retention and Deduction Summary** for retained amounts, advances, and penalties, if any.

Failure to submit the required documents may delay invoice processing. The Contractor is responsible for the timely submission of accurate and complete documentation.

15. Performance Standards and Penalties

15.1 Performance Standards

The Contractor shall ensure that all works and services under this contract are executed in strict compliance with:

- i. **MoRTH Specifications for Road and Bridge Works (Latest Revision).**
- ii. **Relevant IRC Standards and IS Codes.**
- iii. **Contractual obligations outlined in this Agreement.**
- iv. **Health, Safety, and Environmental (HSE) requirements (Clause 11).**

The scope of performance under this contract includes but is not limited to:

15.1.1 Road Construction and Maintenance

- i. Execution of **road construction, resurfacing, periodic and routine maintenance** in compliance with approved drawings, designs, and specifications.
- ii. Timely and quality completion of **pothole repairs, crack sealing, shoulder maintenance, and pavement rehabilitation.**
- iii. Ensuring **drainage structures (culverts, stormwater drains, etc.) are functional and free of obstructions** throughout the contract period.
- iv. Maintenance of **roadside infrastructure, including crash barriers, guardrails, embankments, and signage.**

15.1.2 Electrical Works

- i. **Installation, maintenance, and operation** of street lighting systems, high-mast lights, transformers, and power supply infrastructure.
- ii. Ensuring that streetlights have **minimum 98% operational uptime**, with faulty units repaired or replaced within the response time.

15.1.3 Safety and Environmental Compliance

- i. Implementation of **proper traffic management, barricading, and warning signs** during work execution.
- ii. Adherence to **CPCB and SPCB environmental regulations**, including **dust suppression, waste disposal, and pollution control measures.**

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- iii. Compliance with **statutory safety provisions** to prevent workplace hazards and ensure public safety.

15.2 Minimum Performance Requirements

The Contractor shall meet the following **minimum performance standards**, ensuring timely and quality execution of all works:

15.2.1 Road Maintenance Performance Standards

Activity	Maximum Response Time
Pothole repairs	24 hours from identification/reporting
Crack sealing & patchwork	48 hours from reporting
Shoulder maintenance	72 hours after deterioration is reported
Drainage clearing	Before & after monsoon, periodic check every 3 months
Road markings & signage	Maintained in reflective condition at all times

15.2.2 Electrical System Performance Standards

Activity	Maximum Response Time
Streetlight repair	48 hours from reporting
Transformer/panel fault repair	72 hours from reporting
Operational uptime for lighting systems	Minimum 98% uptime required

Non-compliance with these performance requirements shall attract penalties as per **Clause 15.4**.

15.3 Monitoring and Inspection

The Contractor shall conduct **regular inspections and performance evaluations** as per the approved Maintenance Plan, which shall include:

1. **Daily inspections** for routine maintenance (potholes, cracks, road markings, signage, and lighting).
2. **Weekly inspections** for structural elements, including drains, safety barriers, and electrical systems.
3. **Monthly inspections** for periodic maintenance planning, material quality checks, and service life assessments.
4. **Post-completion monitoring of rectified works**, ensuring durability as per Clause 28.4.

All inspections shall be documented as per **Clause 27 (Reporting and Documentation)**, and the Contractor shall rectify any identified deficiencies **within the stipulated response time**, failing which penalties shall apply as per Clause 15.4.

Recurring defects or repeated failures in previously rectified areas shall be closely monitored to ensure compliance with quality standards.

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15.4 Penalties for Non-Compliance

The following penalties shall be imposed in case of failure to meet the specified performance standards:

15.4.1 Delay in Completion of Works

- If the Contractor **fails to complete scheduled construction or maintenance work** within the agreed timeline, a penalty of **[0.5] % of the contract value per day of delay** shall be imposed, up to a maximum of **[10] % of the contract value**.

15.4.2 Road Maintenance Non-Compliance

Deficiency	Penalty
Failure to repair potholes within 24 hours	₹[X] per pothole per day
Cracks & patchwork not completed within 48 hours	₹[X] per defect per day
Failure to clear drainage in stipulated time	₹[X] per km per day
Non-maintenance of faded/damaged signage	₹[X] per sign per day

- If a defect reappears in the same location within the defect liability period, the Contractor shall extend its performance guarantee for that section as per Clause 24.
- Failure to maintain the rectified section will attract additional penalties, which shall be deducted from the performance security or monthly invoices.

15.4.3 Electrical System Failures

Deficiency	Penalty
Non-functional streetlights beyond 48 hours	₹[X] per pole per day
Transformer/panel failures beyond 72 hours	₹[X] per unit per day
Failure to maintain 98% uptime for lighting systems	₹[X] per month as a lump sum deduction

15.4.4 Safety Violations

Violation	Penalty
Failure to implement safety measures (barricades, traffic diversion, warning signs, etc.)	₹[X] per location per day
Any incident causing injury/property damage due to safety non-compliance	As per EHS Policy
Repeated safety violations	Escalated penalties + possible work suspension

Penalties shall be **deducted from the Contractor's monthly invoice or performance security**.

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15.5 Grace Period for Rectification

- i. The Client **may allow a grace period of [7] days** for rectification of **minor defects**, provided they do not impact public safety or overall project timelines.
- ii. No penalty shall be imposed during this period, but the **Contractor shall bear all rectification costs**.

15.6 Cumulative Penalties and Termination

- i. If the cumulative penalties imposed on the Contractor exceed **[5] % of the total contract value**, the Client reserves the right to **terminate the contract** under **Clause 20 (Termination for Default)**.
- ii. The Client shall have the right to **recover additional costs and damages** for non-performance.

15.7 Documentation of Penalties and Appeals

All penalties shall be **formally documented and notified** to the Contractor. The penalty notice shall include:

- i. **Details of the non-compliance.**
- ii. **Applicable performance standard and response time.**
- iii. **Penalty amount and reference clause.**

The Contractor shall have the right to **appeal within [15] days** of receiving the penalty notice, submitting **supporting evidence for reconsideration**. The Client shall review the appeal and decide on **waiving, reducing, or upholding** the penalty. The Client's decision shall be **final and binding** unless an alternate dispute resolution mechanism is specified in the contract.

16. Amendments and Variations

16.1 Change Management Framework

All Amendments and Variations under this Agreement shall be governed by a structured Change Management framework to ensure transparency, accountability, and compliance with the contractual terms. The framework shall serve as the guiding principle for initiating, processing, and implementing Amendments and Variations. The Change Management process involves:

- a) **Identification of Change:** Both parties shall identify any changes required in the scope, cost, or timelines of the contract.
- b) **Evaluation and Assessment:** Changes shall be evaluated for their technical, financial, and schedule impacts in accordance with the processes outlined in this clause.

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c) **Approval and Implementation:** Changes shall only be implemented upon written approval by the Client, following the procedures detailed in **Clause 16.3**.

d) **Documentation:** All changes, including approved Variations and Amendments, shall be formally documented and included in the contractual records.

This Change Management Framework establishes the overarching principles under which all Amendments and Variations shall be handled as specified in this clause.

16.2 Definition of Amendments and Variations

For the purpose of this Agreement, the term "Amendment" refers to any change to the terms, conditions, scope, or requirements of this contract that is agreed upon by both parties, whereas "Variation" refers to any alteration, addition, or omission in the work or services required under this contract, as directed by the Client in writing during the performance of the contract.

16.3 Initiation of Variations

Variations may be initiated under the following circumstances:

16.3.1 Client-Initiated Variations

The Client may, at any time, request the Contractor to carry out variations to the work through a formal written instruction. These may include, but are not limited to, changes in the scope of work, design modifications, or adjustments to specifications or schedule.

16.3.2 Contractor-Initiated Variations

The Contractor may propose a variation in case of unforeseen circumstances, including technical difficulties, material unavailability, or changes in statutory regulations that require adjustments to the original scope of work. Such proposals must be submitted in writing and subject to the Client's approval.

16.3.3 Force Majeure

In cases where events beyond the control of either party (such as natural disasters, governmental actions, etc.) affect the performance of the contract, a variation may be necessary to accommodate the resulting changes in work or schedule.

16.4 Process for Issuing a Variation or Amendment

16.4.1 Written Request

- i. Any proposed variation or amendment must be communicated through a formal written request by the initiating party (Client or Contractor). The request shall include:
 - a. A detailed description of the proposed change.
 - b. Justification for the variation (e.g., technical necessity, statutory compliance, unforeseen circumstances).

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- c. The expected impact on cost, schedule, and scope.

16.4.2 Impact Assessment:

Upon receipt of a variation request:

- i. **If initiated by the Client**, the Contractor shall submit a detailed **Impact Assessment Report** within **[7] days**. This report shall include:
 - a. A **detailed description** of the variation.
 - b. The **impact on the scope of work**, materials, and design.
 - c. A **comprehensive cost estimate**, including:
 - **Breakdown of costs** (labor, materials, and equipment).
 - **Rate analysis** for any new items.
 - **Comparison with the original scope**—if the revised work is cheaper, the Contractor shall indicate the applicable discount.
 - d. **Impact on the project schedule**, including adjustments to milestones.
 - e. Any **other relevant contractual or technical considerations** affecting execution.
- ii. **If initiated by the Contractor**, the request shall include:
 - a. **Justification for the variation**, such as technical feasibility, material unavailability, regulatory changes, or unforeseen site conditions.
 - b. **Proposed scope of change**, including any design modifications.
 - c. **Rate analysis and cost impact**, broken down into labor, material, and equipment costs.
 - d. **Impact on the project schedule**, including any required extension of time.
 - e. **Any supporting technical documentation**, such as drawings, calculations, or statutory approvals, if applicable.

The Client shall review the request and seek clarifications within **[15] days**, if necessary. The Contractor shall then submit the **complete impact assessment** within **[15] days** from the Client's request for additional details.

The Contractor shall not proceed with the variation until formal written approval is granted by the Client.

16.4.3 Approval of Variation:

- i. The **Client** shall review the assessment and either approve, reject, or request modifications within **[30] days**.
- ii. If the variation is **Contractor-initiated**, the Client may either approve or suggest modifications, considering the project's feasibility and budget constraints.
- iii. **No work related to the variation shall commence unless a formal Variation Order (VO) is issued.**

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16.4.4 Variation Order (VO):

Upon Client approval, the Variation Order shall be issued, specifying:

- The scope and nature of the variation.
- The agreed-upon adjustments to cost and schedule.
- Any necessary changes to other contract terms or conditions.

The VO shall form an integral part of the contract, and the Contractor shall proceed with the work as per the revised terms.

16.4.5 Finalization and Agreement:

Once the Variation Order is issued, both parties shall agree to the revised terms in writing, and the work shall proceed in accordance with the approved changes. Any financial or schedule adjustments will be incorporated into subsequent payments as per the agreed-upon terms in the Variation Order.

16.5 Cost and Payment for Variations

All variations shall be priced as follows:

16.5.1 Unit Rates or Lump Sum:

Variations shall be priced based on the existing unit rates or lump-sum rates in the contract. If unit rates are not applicable, the Contractor shall submit a detailed breakdown of costs for labor, materials, and equipment, which shall be subject to Client approval.

16.5.2 Cost Adjustment:

In cases where the original contract price cannot be used as a basis for the variation, the parties shall mutually agree on the appropriate cost adjustment. The Client reserves the right to request supporting documentation for any cost increase.

16.5.3 Retention of Rights:

The approval of a variation does not waive the Client's right to deduct penalties or enforce any contractual obligations related to the original scope of work. Any additional costs due to variations shall be subject to the retention of any agreed retention amounts.

16.6 Time Implications of Variations

16.6.1 Extension of Time (EoT):

If a variation impacts the project timeline, the Contractor shall request an extension of time in accordance with the provisions of **Clause 21 (Extension of Time)**. The Client shall consider the justification for the extension based on the impact of the variation.

16.6.2 Delays Due to Variations:

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Any delay in approval or execution of variations caused by either party shall not be considered as an excusable delay for the purpose of an extension of time unless the delay is due to reasons beyond control, such as force majeure.

16.7 Variation Documentation and Records

Both parties shall maintain detailed records of all variations, including:

- i. Copies of all Variation Orders (VOs).
- ii. Documentation of cost and time adjustments.
- iii. Correspondence and agreements related to the variation.

The Contractor shall provide a detailed update of the variations in every progress report and billing cycle, ensuring transparency and adherence to the amended scope and timelines.

16.8 Dispute Resolution for Variations

In case of any dispute regarding the scope, cost, or impact of a variation, the matter shall be resolved in accordance with the dispute resolution mechanism set forth in **Clause 18 (Dispute Resolution)**. Pending resolution, the Contractor shall continue to perform the work in accordance with the Variation Order.

17. Governing Law and Jurisdiction

This Agreement shall be governed by, and construed in accordance with, the laws of India. The parties hereby agree that any disputes, claims, or controversies arising out of or in connection with this Agreement, including its validity, interpretation, enforcement, or performance, shall be subject to the exclusive jurisdiction of the courts in New Delhi, India.

The parties' consent to the jurisdiction of the courts of New Delhi and waive any objections based on venue or forum non convenience. All legal proceedings under this Agreement shall be conducted in the English language.

18. Dispute Resolution

18.1 Dispute Notification and Procedure

The Contractor shall notify the Client in writing within 7 days of the occurrence of any dispute, difference, or claim that requires resolution. The notice should clearly detail the nature of the dispute, relevant facts, and the legal or factual basis for the claim. Upon receipt of the dispute notice, the Client and Contractor shall engage in discussions for a period not exceeding 30 days to attempt an amicable settlement.

18.2 Amicable Settlement

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In the event of any dispute, difference, or claim arising between the Client and the Contractor in connection with or related to the Contract, the parties shall first attempt to resolve such dispute amicably through mutual consultation and negotiation. The party initiating the dispute (the "Notifying Party") shall notify the other party in writing, clearly outlining the nature and scope of the dispute. Both parties shall make all reasonable efforts to settle the dispute, amicably, within 30 days from the date of notification.

If the dispute remains unresolved after this period, the decision of the Client's CEO shall be final and binding on both parties. Should the decision of the Client's CEO not be acceptable, and the dispute persists, the matter shall proceed to the Dispute Resolution process as outlined below.

18.3 Dispute Resolution Board (DRB)

If the dispute remains unresolved after the amicable settlement period, the dispute shall be referred to a Dispute Resolution Board (DRB).

- a) The DRB will be constituted solely from the senior management team of the Client at its Head Office (HO). No external person or third party will be involved in this process.
- b) The DRB shall be tasked with reviewing the dispute and providing a recommendation or resolution within 45 days from the date the dispute is referred to it. The decision of the DRB shall be binding on both parties unless challenged under the Arbitration clause below.
- c) In the event the DRB fails to resolve the dispute within the prescribed time, or if either party is dissatisfied with the DRB's decision, the dispute will proceed to arbitration.

18.4 Arbitration

If the dispute remains unresolved after mediation, the dispute shall be referred to and resolved through arbitration in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time.

- a) **In cases where the disputed amount is up to INR 1.5 Crore**, the arbitration shall be conducted by a sole arbitrator appointed by the Client.
- b) **In cases where the disputed amount exceeds INR 1.5 Crore**, three arbitrators shall be appointed. One arbitrator shall be appointed by the Client, one by the Contractor, and the third arbitrator shall be appointed by the two previously appointed arbitrators. In case the two arbitrators fail to agree on the appointment of the third arbitrator, the third arbitrator shall be appointed by the relevant arbitration institution in New Delhi.
- c) The arbitration proceedings shall be held in New Delhi, India, and the language of arbitration shall be English. The arbitrator's decision shall be final and binding on both parties. The cost of arbitration, including the arbitrator's fees, shall be borne equally by the parties unless otherwise awarded by the arbitrator.

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18.5 Jurisdiction and Venue

The courts at Delhi, India, shall have exclusive jurisdiction over all disputes and legal proceedings arising from or relating to the Contract. Both parties expressly consent to the jurisdiction of the courts at Delhi for the purpose of enforcement of any judgment or award.

18.6 Interim Relief

Notwithstanding the above, either party may seek interim relief from a court of competent jurisdiction at any time before or during the dispute resolution process, in order to preserve its rights or prevent any irreparable damage or harm.

18.7 No Suspension of Work

The Contractor shall continue with the performance of its obligations under the Contract, including the Works, during the dispute resolution process unless the Client has issued a formal suspension order. Non-payment of money or non-performance of obligations by the Client shall not relieve the Contractor of its responsibilities to continue the work.

19. Force Majeure

19.1 Definition

Force Majeure shall mean any extraordinary event or circumstance beyond the reasonable control of the affected party that prevents or delays the performance of its contractual obligations. These events may include, but are not limited to, acts of God, natural disasters (such as floods, earthquakes, or storms), acts of war, terrorism, riots, civil commotion, government orders, pandemics, or any other unforeseen event that cannot be mitigated through reasonable diligence.

Notification

The party affected by a Force Majeure event shall notify the other party in writing within seven (7) days of the occurrence of such an event, providing reasonable details of its nature, likely duration, and impact on performance. Failure to notify within this period may result in the loss of the right to claim Force Majeure relief.

19.2 Consequences of Force Majeure

- The obligations of the affected party shall be suspended for the duration of the Force Majeure event, to the extent that they are directly impacted by it.
- Both parties shall use all reasonable efforts to mitigate the effect of the Force Majeure event and resume performance of their obligations as soon as practicable.

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- c) If the Force Majeure event continues for a period exceeding ninety (90) days, either party may terminate the contract upon written notice to the other party.

19.3 Exclusions

Force Majeure shall not include:

- a) Any event caused by the negligence or intentional act of the affected party.
- b) Economic hardship, changes in market conditions, or lack of funds.

19.4 Extension of Time

If the Contractor's performance is delayed due to a Force Majeure event, the Contractor shall be entitled to an extension of time equivalent to the period of delay, subject to approval by the Client.

19.5 Payments During Force Majeure

The Contractor shall not be entitled to claim compensation or additional payments due to Force Majeure events unless explicitly agreed upon in the contract or otherwise required under applicable law.

19.6 Final Determination

Any disputes regarding the application of this clause shall be resolved in accordance with **Clause 18** (Dispute Resolution).

20. Termination of Contract

20.1 Termination by the Client

The Client may terminate the Contract, in whole or in part, with immediate effect or after a specified notice period, in the following circumstances:

20.1.1 Non-Performance: If the Contractor fails to meet contractual obligations, including delays or substandard performance, after receiving a written notice to cure the breach within a period specified in the Contract.

20.1.2 Breach of Terms: In case of material violation of any terms or conditions of the Contract, including but not limited to safety standards, statutory compliance, or quality assurance requirements.

20.1.3 Insolvency: If the Contractor becomes insolvent, enters into bankruptcy proceedings, or undergoes dissolution, liquidation, or similar financial distress events.

20.1.4 Force Majeure: If Force Majeure conditions continue for more than ninety (90) days, making further performance impracticable.

20.1.5 Convenience of the Client: The Client reserves the right to terminate the Contract for convenience, provided reasonable compensation for work performed up to the date of termination is made.

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20.1.6 Termination for Default:

In case of default by the Contractor, the Client reserves the right to terminate the Contract, either in whole or in part, by giving written notice. Default includes the following:

- a) **Non-Performance:** Failure to meet key contractual obligations, including delays in execution or substandard work, despite receiving a notice to cure within a period specified in the Contract.
- b) **Breach of Terms:** Failure to comply with any material provisions of the Contract, including statutory, safety, or quality assurance requirements.
- c) **Insolvency or Financial Distress:** If the Contractor enters into insolvency, bankruptcy, liquidation, or similar financial distress, or any situation that materially impacts its ability to fulfil its obligations under this Contract.

Upon such termination, the following shall apply:

- a) **Notice to Cure:** A written notice shall be issued to the Contractor, specifying the nature of the default. The Contractor will be granted a cure period of 15 days (or as specified in the Special Conditions of Contract) to remedy the default. Failure to rectify the default within the cure period will lead to immediate termination.
- b) **Penalties and Compensation:** The Client may impose penalties of up to **5% of the Contract value** for non-performance or failure to meet standards. The Contractor shall be liable to compensate the Client for any costs incurred due to the default, including but not limited to the cost of procuring alternate contractors to complete the work.
- c) **Withholding of Payments:** The Client has the right to withhold payments corresponding to incomplete, defective, or unsatisfactory work performed prior to termination.

Termination under this clause is without prejudice to any other legal or contractual rights available to the Client, including claims for damages and performance guarantees.

20.2 Termination by the Contractor

The Contractor may terminate the Contract by providing a written notice, subject to fulfilling its obligations until the termination date, in the following circumstances:

20.2.1 Non-Payment: If the Client fails to pay undisputed invoices for a period exceeding One Hundred & Eighty (180) days after they become due, despite receiving written notice.

20.2.2 Client Hindrance: If the Client repeatedly obstructs the Contractor's performance by failing to provide access, approvals, or other essential resources as specified in the Contract.

20.2.3 Force Majeure: If Force Majeure conditions persist beyond Ninety (90) days, rendering performance impossible.

20.3 Procedure for Termination

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20.3.1 Notice of Intent: A party initiating termination shall issue a formal written notice detailing the grounds for termination and the intended termination date, allowing a minimum of thirty (30) days for remedial action unless otherwise specified.

20.3.2 Efforts to Resolve: The parties shall engage in good-faith discussions during the notice period to address and resolve the stated issues.

20.3.3 Confirmation of Termination: If the issues remain unresolved by the end of the notice period, the initiating party shall issue a final termination notice, effectively ending the Contract.

20.4 Post-Termination Obligations

20.4.1 Cease Work: The Contractor shall cease all work immediately except for activities required to protect the works already executed or to comply with statutory obligations.

20.4.2 Return of Assets: All equipment, materials, designs, and other assets belonging to the Client shall be returned or securely handed over within seven (7) days of termination.

20.4.3 Payments: The Client shall settle payments for verified work performed up to the termination date, subject to deductions for any damages, penalties, or liabilities.

20.5 Liabilities Upon Termination

20.5.1 Contractor's Liabilities: The Contractor shall bear the cost of demobilization, removal of equipment, and site clearance unless otherwise agreed.

20.5.2 Client's Liabilities: In cases of termination for convenience, the Client shall pay reasonable compensation for expenses directly attributable to the termination. Reasonable compensation is limited to:

20.5.2.1 Costs for completed works and verified quantities based on contract rates.

20.5.2.2 Documented and substantiated costs for materials procured specifically for the project, provided these materials are handed over to the Client.

20.5.2.3 Actual and reasonable costs incurred for demobilization and site clearance.

20.5.2.4 Compensation shall exclude anticipated profits on unexecuted work, costs due to the Contractor's default, and any claims not supported by documentary evidence. Total compensation shall not exceed 10% of the original contract value. Claims for compensation must be submitted within 30 days of termination with all supporting documents, subject to verification by the Client.

20.6 Survival of Provisions

Provisions relating to confidentiality, indemnities, dispute resolution, warranties, and other obligations explicitly stated to survive termination shall remain enforceable.

20.7 Dispute Arising from Termination

Any disputes related to or arising from termination shall be resolved as per **Clause 18** (Dispute Resolution).

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21. Extension of Time

21.1 Request for Extension:

The Contractor shall apply for an extension of time in writing if the completion of work is delayed due to any of the following reasons, which are not attributable to the Contractor's fault:

- Unforeseen Force Majeure events, including but not limited to natural calamities, war, civil disturbances, strikes, etc.
- Changes in the scope of work, design modifications, or delays in instructions from the Client.
- Delays in the availability of land or necessary permissions from local authorities.
- Delays in the supply of materials or equipment by the Client.
- Any other circumstances as agreed upon in the Special Conditions of Contract.

21.2 Time Extension Request Procedure:

The Contractor must submit a written request for an extension of time, detailing the reasons for the delay, its impact on the project schedule, and any supporting documentation (e.g., reports, correspondence). Such requests must be made within **seven (7) days** from the occurrence of the event causing the delay. The Client shall review the request and provide a written decision within a reasonable period.

21.3 Approval and Grant of Extension:

The Client may grant an extension of time if the delay is caused by factors beyond the Contractor's control. Upon approval, the Contractor's completion date shall be extended for the period equal to the delay, subject to the terms of this Clause. No extension of time shall be granted for delays caused by the Contractor's own fault, negligence, or failure to manage the work.

21.4 No Financial Compensation:

An extension of time granted under this clause does not entitle the Contractor to any financial compensation or additional costs unless specifically agreed upon in writing by the Client and outlined in the Special Conditions of Contract.

21.5 Liquidated Damages during Extension:

In case of delay beyond the extended time granted, the Contractor shall be liable to pay **Liquidated Damages as specified in Clause 30** of this Agreement. The extension of time does not absolve the Contractor of its responsibility to meet the revised completion dates and obligations under the Contract.

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21.6 Client's Right to Terminate for Prolonged Delay:

If the delay exceeds a period of [refer contract data sheet] months or extends beyond a point where the completion of the work is no longer feasible, the Client reserves the right to terminate the Contract under **Clause 20.1.5** (Termination for Convenience) or **Clause 20.1.6** (Termination for Default), as applicable.

22. Price Variation / Escalation

Price escalation shall be applicable to contracts with a duration exceeding twelve (12) calendar months.

22.1 Scope of Price Variation

Price variation (Escalation / De-escalation) shall apply to the work under this Contract in the event of changes in the prices of materials, labor, fuel, and equipment during the Contract period, based on the indices and benchmarks specified below. Price variation shall be payable for the work executed within the **original contract period** and shall not apply to work performed beyond the contract period or during any extension of time unless specifically agreed upon by both parties in writing.

22.2 Escalation Calculation Formula

The price variation shall be calculated based on the following formula:

$$P.V. = 0.85RW \times \Sigma ((C_n - B_n) / B_n) \times W_n$$

Where:

RW = Invoice Value i.e. Value of work done & certified for the work completed

P.V. = Price Variation (Escalation/De-escalation) as a percentage of the total value of work executed.

C_n = Current price of the relevant component (labor, material, fuel, or equipment) for the nth item.

B_n = Base price (original agreed rate) of the relevant component (labor, material, fuel, or equipment) for the nth item.

W_n = Weight of the nth item, representing the proportion of that component in the total contract value.

22.3 Escalation Components and Basis

22.3.1 Labor Escalation (PL)

Labor price variation shall be based on the **Minimum Wages as issued by the Central Labour Commissioner (CLC), New Delhi**. The escalation will be determined by the

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percentage change in the minimum wage rates for the relevant labor categories between the base rate and the current rate at the time of execution.

The formula for labor escalation is:

$$P.V(\text{Labor}) = ((\text{Current Minimum Wage} - \text{Base Minimum Wage}) / \text{Base Minimum Wage}) \times (\text{Weight of Labor in Total Cost})$$

22.3.2 Cement Escalation (PC)

Cement price variation will be calculated based on the **Wholesale Price Index (WPI) published by the Reserve Bank of India (RBI) for Ordinary Portland Cement**. The Cement escalation will be determined by the percentage change in the WPI for All commodities used in the project between the base month and the month of execution.

The formula for material escalation is:

$$P.V(\text{Cement}) = ((\text{Current WPI} - \text{Base WPI}) / \text{Base WPI}) \times (\text{Weight of Cement in Total Cost})$$

22.3.3 Steel Escalation (PS)

Steel (steel/components (including strands and cables)) price variation will be calculated based on the **Wholesale Price Index (WPI) published by the Reserve Bank of India (RBI) for Mild Steel –Long Products**. The Steel escalation will be determined by the percentage change in the WPI for All commodities used in the project between the base month and the month of execution.

The formula for material escalation is:

$$P.V(\text{Material}) = ((\text{Current WPI} - \text{Base WPI}) / \text{Base WPI}) \times (\text{Weight of Steel in Total Cost})$$

22.3.4 Bitumen Escalation (PB)

Bitumen price variation will be calculated based on the **official retail price of bitumen at the nearest refinery of IOCL on the first day of the month**. The Bitumen escalation will be determined by the percentage change in the Bitumen prices as issued by IOCL used in the project between the base month and the month of execution.

The formula for material escalation is:

$$P.V(\text{Material}) = ((\text{Current Bitumen Price} - \text{Base Bitumen Price}) / \text{Base Bitumen Price}) \times (\text{Weight of Bitumen in Total Cost})$$

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22.3.5 Material Escalation (PM)

Material price variation will be calculated based on the **Wholesale Price Index (WPI) published by the Reserve Bank of India (RBI) for All Commodities**. The material escalation will be determined by the percentage change in the WPI for All commodities used in the project between the base month and the month of execution.

The formula for material escalation is:

$$P.V(\text{Material}) = ((\text{Current WPI} - \text{Base WPI}) / \text{Base WPI}) \times (\text{Weight of Material in Total Cost})$$

22.3.6 Fuel Escalation (PF)

Fuel price variation shall be based on the **diesel prices at the nearest petrol pump to the project site**, as published by the local authorities or oil companies. The escalation will be determined by the percentage change in the diesel price between the base price at the time of contract signing and the current price during execution.

The formula for fuel escalation is:

$$P.V(\text{Fuel}) = ((\text{Current Diesel Price} - \text{Base Diesel Price}) / \text{Base Diesel Price}) \times (\text{Weight of Fuel in Total Cost})$$

22.3.7 Equipment Escalation (PA)

Equipment price variation shall be based on the **Manufacture of Machinery and Equipment WPI** issued by the Reserve Bank of India (RBI). The escalation will be calculated based on the percentage change in the WPI for machinery and equipment between the base month and the month of execution.

The formula for equipment escalation is:

$$P.V(\text{Equipment}) = ((\text{Current Equipment WPI} - \text{Base Equipment WPI}) / \text{Base Equipment WPI}) \times (\text{Weight of Equipment in Total Cost})$$

22.4 Calculation of Price Variation

The total price variation for the contract will be the sum of the individual price variations for materials, labor, fuel, and equipment, calculated as follows:

$$P.V. = [P.V(\text{Labor}) + P.V(\text{Cement}) + P.V(\text{Steel}) + P.V(\text{Bitumen}) + P.V(\text{Material}) + P.V(\text{Fuel}) + P.V(\text{Equipment})]$$

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Where the individual components are calculated based on the relevant indices and their corresponding weights in the contract value.

22.5 Invoice Value for Price Variation

Price variation shall be payable based on the value of work completed and certified during the contract period. The amount of price variation will be calculated on the total invoiced value of the work executed during the contract period (excluding any work completed beyond the contract period or during extensions). The formula for the invoiced amount based on price variation is:

$$\text{P.V. Amount} = (\text{P.V.} \times \text{Invoice Value} \times 0.85)$$

Where:

- **P.V. = Price variation (as a percentage)**
- **Invoice Value = Certified value of the work completed during the contract period.**

22.6 Exclusions for Price Variation

Price variation shall not apply to:

- Items for which the rates have been fixed by the Client and are not subject to escalation.
- Any variation arising due to changes in taxes, duties, or levies after the contract is signed.
- Works executed beyond the contract period, unless extended by mutual agreement.

22.7 Component Weightage

Weightage of each component shall be as defined in the table “Price Variation Component Breakdown” below:

Price Variation Component Breakdown

Component	Earthwork, Granular work, and other works	Bituminous work	Cement Concrete Pavement	Culverts, minor bridges and other structures	Major Bridges and Structures
Labour (PL)	[20%]	[20%]	[20%]	[15%]	[15%]
Cement (PC)	[5%]	Nil	[20%]	[15%]	[15%]
Steel (PS)	Nil	Nil	Nil	[15%]	[20%]
Bitumen (PB)	Nil	[15%]	Nil	Nil	Nil

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Component	Earthwork, Granular work, and other works	Bituminous work	Cement Concrete Pavement	Culverts, minor bridges and other structures	Major Bridges and Structures
Fuel and Lubricants (PF)	[10%]	[10%]	[10%]	[10%]	[10%]
Other Materials (PM)	[50%]	[40%]	[35%]	[30%]	[25%]
Plant, Machinery, and Spares (PA)	[15%]	[15%]	[15%]	[15%]	[15%]
Total	100%	100%	100%	100%	100%

22.8 Limitations on Price Variation

The maximum allowable price variation, for any individual item or group of items, shall not exceed **[10%]** of the original contract price. Any variation in excess of this limit shall be subject to mutual agreement between the Client and the Contractor.

22.9 Final Adjustment

At the completion of the work, a final adjustment of the Price Variation will be made based on the actual quantities and costs incurred during the contract period. Any discrepancies, overpayments, or underpayments will be corrected in the final settlement.

23.Substantial Completion and Final Acceptance

23.1 Substantial Completion

23.1.1 Definition

Substantial Completion shall be deemed achieved when all contractual obligations related to **road construction, periodic maintenance, routine maintenance, electrical works, and electrical maintenance** have been completed to a stage where the works:

- Are fully **operational and fit for their intended purpose**.
- Comply with all contractual specifications**, statutory requirements, and safety standards.
- Have only **minor Punch List items** remaining, which do not impair the **functionality, safety, or operability** of the works.

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23.1.2 Notice of Substantial Completion

The Contractor shall issue a **written Notice of Substantial Completion** to the Client, accompanied by:

- i. **Punch List** – A detailed list of minor pending works or defects.
- ii. **Compliance Certificates** – Certifying that **all civil and electrical installations** meet the required standards and regulations.
- iii. **Test and Inspection Reports** – Demonstrating adherence to contractual and statutory requirements.

23.1.3 Client's Inspection and Certification

- i. The Client shall inspect the works within the timeframe specified in the **Contract Data Sheet (CDS)** and shall either:
 - a) Issue a **Substantial Completion Certificate**, or
 - b) Provide a **written notice** specifying deficiencies to be rectified by the Contractor within a prescribed period.

23.1.4 Contractor's Continuing Obligations

- i. The Contractor remains responsible for completing **all Punch List items** and shall not be relieved of obligations under the **Defect Liability Period (DLP) and Maintenance Provisions** of the contract.

23.2 Final Acceptance

23.2.1 Conditions for Final Acceptance

Final Acceptance shall be granted when the following conditions are met:

- i. **Completion of all Punch List items** to the satisfaction of the Client.
- ii. **Successful completion of the Defect Liability Period (DLP)** as stipulated in the **Special Conditions of Contract (SCC)**.
- iii. **Submission of Final Documentation**, including:
 - a) **Completion Certificates** for road construction, periodic maintenance, routine maintenance, and electrical works.
 - b) **Compliance Certificates** for safety, environmental, and statutory requirements.
 - c) **Warranties and Guarantees** for materials, equipment, and systems used.
 - d) **Operation and Maintenance (O&M) Manuals** where applicable.
 - e) **Final reconciliation of all quantities, variations, and payments**.

23.2.2 Request for Final Acceptance

The Contractor shall formally **request Final Acceptance** in writing, along with supporting documentation proving compliance with all contractual obligations.

23.2.3 Client's Final Inspection and Certification

- i. The Client shall conduct a **Final Inspection** within the timeframe specified in the SCC.

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- ii. If the Client is satisfied, a **Final Acceptance Certificate (FAC)** shall be issued, confirming that the Contractor has fully discharged its obligations, except for warranties and ongoing maintenance commitments.

23.2.4 Release of Retention Money and Final Payment

- i. The **issuance of the Final Acceptance Certificate** shall be a **precondition** for:
 - a) The **release of retention money**.
 - b) The **final settlement of outstanding payments** to the Contractor under the contract.

23.3 Retention of Rights

The issuance of the **Final Acceptance Certificate** shall not:

23.3.1 Waive the Client's rights to claim against the Contractor for:

- i. **Latent defects** discovered after Final Acceptance.
- ii. **Fraud, wilful misconduct, or gross negligence** that may come to light post-acceptance.

23.3.2 Release the Contractor from:

- i. **Warranty and guarantee obligations** under the contract.
- ii. **Statutory liabilities** that extend beyond the contract period.

23.4 Disputes Regarding Acceptance

- i. Any dispute regarding **Substantial Completion or Final Acceptance** shall be resolved in accordance with **Clause 18 (Dispute Resolution)** of this contract.

23.5 Consequences of Non-Compliance

Failure to achieve **Substantial Completion** or **Final Acceptance** within the stipulated timeframes shall result in:

- i. **Liquidated damages** as specified in the SCC.
- ii. **Applicable penalties** as per the contract.
- iii. **Other contractual remedies**, including the right of the Client to **engage third parties** to complete pending works at the Contractor's cost.

24. Warranty and Maintenance Period

24.1 Warranty Period:

"**Warranty**" shall mean the Contractor's obligation to ensure that all works executed under this Contract, including **Road Construction, Periodic Maintenance, Routine Maintenance, Electrical Works, and Electrical Maintenance**, comply with the prescribed technical specifications, contractual requirements, and statutory standards for the duration of the **Warranty Period**.

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The Contractor shall be responsible for rectifying, at no additional cost to the Client, any defects arising from **faulty materials, poor workmanship, design deficiencies, or non-compliance with contractual obligations**, as identified within the **Warranty Period**.

The Warranty Period shall be independent of and in addition to the Defects Liability Period (DLP). The DLP is a defined post-completion phase during which the Contractor remains obligated to rectify defects notified by the Client before the issuance of the Final Acceptance Certificate. The expiry of the DLP shall not relieve the Contractor from its obligations under the Warranty Period, which shall extend beyond the DLP to ensure the long-term durability, functionality, and compliance of the executed works as per the terms of this Contract.

24.1.1 Scope of Warranty

The Contractor shall provide a warranty for all **new construction works, periodic maintenance, routine maintenance, and electrical works** for a period specified in the **Special Conditions of Contract (SCC)**. The warranty period shall commence from the date of the **Final Acceptance Certificate** issued by the Client.

24.1.2 Warranty Obligations for Different Works

The Contractor shall be responsible for **repairing, replacing, or rectifying** any defects arising due to **faulty materials, substandard workmanship, or design deficiencies** within the warranty period. The warranty coverage shall include:

i. New Road Construction:

- Structural integrity of pavement layers, including subgrade, GSB, WMM, DBM, BC, PQC, and shoulders.
- Bridges, culverts, embankments, and retaining structures.
- Roadside infrastructure, including crash barriers, pedestrian facilities, and signage.

ii. Periodic Maintenance Works:

- Overlay works, resurfacing, micro surfacing, and rejuvenation treatments.
- Crack sealing and surface treatments.
- Drainage system rehabilitation.

iii. Routine Maintenance Works:

- Pothole patching, crack repairs, and road markings.
- Cleaning and upkeep of shoulders, medians, and embankments.

iv. Electrical Works:

- Street lighting, transformers, feeder panels, and cabling systems.
- Power supply infrastructure and associated electrical components.

24.1.3 Coverage and Responsibility

- The Contractor shall **rectify all defects at no additional cost** to the Client, including labor, materials, and execution.

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- b. If a rectified defect reoccurs within the warranty period, the warranty for that section shall be extended.
- c. Any failure affecting road safety shall be treated as an emergency and rectified immediately.

24.2 Maintenance Period

24.2.1 Duration & Scope

Following the completion of the **Warranty Period**, the Contractor shall undertake maintenance responsibilities for a period specified in the **Contract Data Sheet (referred to as the "Maintenance Period")**.

The Contractor shall be responsible for:

- a. **Ensuring the durability and continued serviceability** of the constructed works.
- b. **Periodic inspections and preventive maintenance** of roads, drainage, and electrical systems.
- c. **Immediate rectification of defects identified during inspections or reported by the Client.**

24.2.2 Maintenance Responsibilities

During the Maintenance Period, the Contractor shall:

- i. **Conduct periodic inspections** for early detection of defects.
- ii. **Ensure timely interventions** to prevent deterioration of road surfaces and electrical systems.
- iii. **Maintain an adequate workforce, materials, and equipment** for all maintenance activities.

24.3 Defect Rectifications During Warranty and Maintenance Period

24.3.1 Responsibilities During Warranty Period

- i. The Client shall notify the Contractor in writing of any defects. The Contractor shall rectify them **within the response time defined in the SCC**.
- ii. If a **rectified defect reoccurs within the Warranty Period**, the Contractor shall extend the **warranty obligations** for that section **at no additional cost** to the Client.
- iii. **Failure to rectify defects within the stipulated timeline will result in penalties**, as per Clause 15 (Penalties for Non-Compliance).
- iv. **Post-completion monitoring of rectified defects shall be undertaken as per Clause 28.4 (Post-Completion Monitoring and Extended Responsibility)**.

24.3.2 Responsibilities During Maintenance Period

- i. Any defects identified during the **Maintenance Period** must be attended to promptly, following the maintenance schedule in the **SCC**.

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- ii. **Recurring failures due to substandard repairs will lead to additional penalties, as per Clause 15 (Penalties for Non-Compliance).**
- iii. **All defect rectifications shall be performed in accordance with Clause 28.3 (Defect Rectification and Performance Assurance).**

24.3.3 Liability for Non-Performance of Warranty & Maintenance Obligations

- i. If the Contractor **fails to rectify defects within the stipulated timeline**, the Client shall have the right to:
 - a) Undertake the necessary rectifications at the Contractor's risk and cost.
 - b) Recover the expenses incurred by deducting the amount from payments due or the performance security.
- ii. The Contractor shall bear **all costs for repairing or replacing defective work** and any **damage caused to third parties due to non-compliance**.

24.3.4 Extended Warranty or Maintenance Period

- i. If defects persist beyond the original Warranty or Maintenance Period, an **extension of obligations may be required** under the same terms and conditions.
- ii. The extension shall be **subject to mutual agreement** between the Client and the Contractor.
- iii. **For extended responsibilities related to defect rectifications, Clause 28.3 shall apply.**

24.3.5 Performance Testing & Inspections

- i. During the **Warranty and Maintenance Period**, the Contractor shall conduct **performance testing and inspections** to ensure compliance with **MoRTH and IRC standards**.
- ii. The Client may require additional testing based on **statutory requirements** or performance benchmarks.

24.3.6 Final Inspection & Completion of Maintenance Period

- i. At the end of the **Maintenance Period**, the Contractor shall formally notify the Client and request a **Final Inspection**.
- ii. The Client shall conduct a **final performance inspection** to verify compliance with all maintenance obligations.
- iii. If all contractual conditions are met, the Client shall issue a **Certificate of Completion for the Maintenance Period**.
- iv. **Any outstanding defect rectifications and post-completion responsibilities shall be handled as per Clause 28.4.**

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25.Site Management and Supervision

25.1 Site Management and Supervision Requirements:

25.1.1 The Contractor shall be responsible for the effective management, supervision, and control of the worksite throughout the duration of the Contract, ensuring that all work is carried out in compliance with the approved plans, specifications, and relevant statutory and regulatory requirements.

25.1.2 The Contractor shall provide all necessary site management and supervision staff to ensure the timely, efficient, and safe execution of the works. The Contractor's site management team shall include suitably qualified engineers and personnel, each possessing the necessary qualifications, experience, and competence relevant to the specific tasks they are assigned.

25.2 Qualification of Engineers and Personnel:

25.2.1 The Contractor shall submit the qualifications, certifications, and experience details of all key personnel assigned to the project, including engineers, supervisors, and safety officers, for approval by the Client prior to commencement of work.

25.2.2 All engineers and supervisors shall hold qualifications and experience that are consistent with industry standards, and the Client reserves the right to reject any personnel deemed unqualified or inadequate for their assigned tasks.

25.3 Organization Chart and Manpower Deployment:

25.3.1 The Contractor shall submit an updated Organization Chart detailing the project's key personnel and their responsibilities, along with a manpower deployment plan, to the Client for approval.

25.3.2 The Contractor shall ensure that the necessary number and skill levels of personnel are deployed at the worksite throughout the project. The manpower plan shall include, but not be limited to, civil engineers, electrical engineers, safety officers, supervisors, foremen, and labourers. The Contractor shall update the manpower deployment plan regularly to reflect any changes in staffing or work requirements.

25.4 Construction Schedule and Work Monitoring:

25.4.1 The Contractor shall submit a detailed construction schedule, including milestones and timelines, for Client approval prior to the commencement of work. This schedule shall outline the planned sequence of work, dependencies, and estimated completion dates for each phase of the project.

25.4.2 The construction schedule shall be regularly updated and adjusted to reflect actual progress and any changes to the work scope, delays, or other factors affecting the timeline. The Contractor shall notify the Client in writing of any deviations from the approved schedule.

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25.5 Progress Reporting and Documentation:

25.5.1 The Contractor shall provide daily, weekly, and monthly progress reports to the Client. These reports shall detail the progress of all ongoing work, including work completed, work planned for the next reporting period, any issues encountered, and actions taken to address them.

25.5.2 The reports shall include:

- a) Daily Progress Reports (to include manpower deployed, equipment used, work accomplished, and any issues encountered).
- b) Weekly Progress Reports (to provide a summary of work completed, pending, and planned tasks, along with any delays or obstacles).
- c) Monthly Progress Reports (including a detailed overview of overall project progress, challenges, and mitigation measures).

25.5.3 The reports must be submitted in the format approved by the Client, and shall be accompanied by photographs or other relevant documentation as necessary to clearly demonstrate progress.

25.6 Supervision and Site Inspections:

25.6.1 The Contractor shall ensure that qualified engineers and supervisors are present on-site at all times during the execution of the works, supervising the quality and progress of the work.

25.6.2 The Contractor shall provide the Client with access to the site at all times for the purpose of inspecting, reviewing, and evaluating the work. The Client may conduct periodic or surprise inspections to ensure compliance with the contract specifications and work quality standards.

25.7 Coordination and Collaboration:

25.7.1 The Contractor shall coordinate all activities on-site, including subcontractors, suppliers, and any third-party entities involved in the project, to ensure smooth, uninterrupted work flow and adherence to the project schedule.

25.7.2 The Contractor shall maintain effective communication with the Client's designated project manager and provide all necessary support for coordination and monitoring of work progress.

25.8 Site Safety and Compliance:

25.8.1 The Contractor shall ensure that all work is performed in compliance with the applicable health, safety, and environmental regulations. A qualified Safety Officer shall be assigned to monitor compliance with safety standards on the site.

25.8.2 The Contractor shall submit safety plans, emergency procedures, and risk assessments for approval before commencement of any work. Regular safety audits and reviews shall be conducted as part of the project supervision.

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25.9 Penalties for Non-Compliance:

25.9.1 Failure to comply with the site management and supervision requirements, including the submission of the Organization Chart, manpower plan, construction schedule, progress reports, or failure to ensure appropriate supervision, shall result in penalties as outlined in the Special Conditions of Contract (SCC).

25.9.2 Non-compliance with safety standards, manpower shortages, or inadequate supervision will be subject to corrective actions, including possible suspension of work until compliance is achieved.

26. Indemnity and Liability

26.1 Contractor's Liability for Faults and Failures:

The Contractor shall be liable for all costs, losses, or damages incurred by the Client arising from:

26.1.1 Defective Work: Any defects in workmanship, materials, or designs that are not in accordance with the agreed specifications or industry standards.

26.1.2 Non-Compliance: Any failure by the Contractor to comply with the terms of the contract, including delays, substandard work, or failure to meet performance standards.

26.1.3 Failure to Meet Milestones: If the Contractor's fault causes delay or non-performance that affects the overall project timeline, the Contractor shall be liable for additional costs or damages suffered by the Client due to such delays.

26.2 Recovery of Costs:

26.2.1 The Client has the right to recover any costs incurred due to the Contractor's failures or delays, which include but are not limited to:

26.2.1.1 Costs for rework or rectification of defective work.

26.2.1.2 Additional costs for resources required to mitigate the impact of the Contractor's failure.

26.2.1.3 Costs for hiring third-party services, consultants, or experts to address the consequences of the Contractor's shortcomings.

26.2.2 The Client may deduct these costs from any pending payments due to the Contractor, including retention amounts.

26.3 Indemnity:

26.3.1 The Contractor shall indemnify and hold the Client harmless against all claims, losses, damages, liabilities, or expenses arising from:

26.3.1.1 Breach of the contract by the Contractor.

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26.3.1.2 Negligence or failure to act in accordance with statutory and regulatory requirements.

26.3.1.3 Any third-party claims related to defective work or performance under the contract.

26.4 Exclusion of Certain Liabilities:

26.4.1 This clause shall not apply to liabilities arising from Force Majeure events, or those outside the Contractor's control, unless expressly stated in the contract.

- i. The Contractor's liability is also subject to the terms of the **Force Majeure** and **Risk Allocation** clauses, where applicable.

26.5 Documentation and Notices:

26.5.1 The Client shall notify the Contractor in writing of any defects or costs incurred due to the Contractor's fault within a specified period after discovery.

26.5.2 The Contractor shall promptly investigate and take corrective actions at their own cost, or the Client may take remedial measures if the Contractor fails to act within a reasonable timeframe.

27. Reporting and Documentation

27.1 General Reporting Requirements:

The Contractor shall maintain **accurate, up-to-date, and detailed records** of all activities, progress, and events related to the execution of **Road Construction, Periodic Maintenance, Routine Maintenance, and Electrical Works & Maintenance**. These records shall include, but are not limited to:

- i. **Daily progress reports** covering work completed, material consumption, deployed manpower, and equipment usage.
- ii. **Quality control reports** including test results, material inspections, and compliance with MoRTH, IRC, and IS standards.
- iii. **Maintenance logs** documenting all periodic and routine maintenance activities, including pothole repairs, resurfacing, drainage cleaning, and roadside infrastructure upkeep.
- iv. **Electrical maintenance records** for streetlights, transformers, feeder panels, and high-mast lights, including uptime tracking and fault rectification timelines.
- v. **Safety and environmental compliance reports**, detailing adherence to HSE standards, traffic management measures, and environmental mitigation actions.
- vi. **Emergency repair reports** specifying the nature of the incident, response time, and remedial actions taken.

The Contractor shall also maintain and submit detailed records of defect rectifications, including recurrence tracking, corrective actions taken, and post-completion monitoring reports, as required under Clause 28.5 (Documentation & Record-Keeping)

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The Contractor shall ensure that all documentation is **properly organized, legible, and readily available** for inspection by the Client or its authorized representatives at any time. Reports shall be submitted **as per the prescribed formats and timelines** defined in the contract.

All reports and documentation shall be submitted in accordance with the formats, timelines, and instructions provided by the Client. The Contractor shall ensure the timely and correct submission of the required documentation without delay.

27.2 Types of Reports:

27.2.1 Daily Progress Reports:

- i. The Contractor shall submit daily progress reports detailing the work performed, manpower deployed, equipment utilized, and any challenges encountered on-site. These reports shall also include information on material consumption, quality control activities, and safety compliance. The reports should clearly identify any work delays, hindrances, or deviations from the scheduled activities, as well as the corrective actions taken.
- ii. The daily progress report shall be submitted to the Client within [24] hours from the end of each working day.

27.2.2 Weekly Progress Reports:

- i. The Contractor shall provide a weekly progress report summarizing the work accomplished, work planned for the following week, and any ongoing or anticipated challenges or risks. This report shall also include updated details of the work schedule, manpower, equipment, and materials usage, along with key project metrics and any changes to the approved schedule or scope.
- ii. The weekly report shall be submitted to the Client no later than [every Friday] for the preceding week.

27.2.3 Monthly Progress Reports:

- i. A detailed monthly progress report shall be submitted, covering all aspects of the project's progress, including completed milestones, ongoing works, deviations from the schedule, safety performance, and material and equipment status. The report shall highlight any issues impacting project completion and propose corrective actions.
- ii. This report shall be submitted to the Client within [5] working days after the end of each month.

27.3 Document Submission Requirements:

27.3.1 Work-Related Documentation:

- i. The Contractor shall submit the following documents along with their respective reports or as required by the Client:
 - a. Updated construction schedule and progress charts.

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- b. Record of materials used, including delivery notes, material certifications, and inspection reports.
- c. Details of equipment usage and maintenance logs.
- d. Work inspection reports and any testing or quality control documentation.
- e. Photos or drawings illustrating the progress of key works or any issues encountered.
- f. Correspondence, meeting minutes, and any other relevant documents that affect the progress of the work.

27.3.2 Statutory Compliance Documents:

- i. The Contractor shall also submit all statutory compliance documentation in line with legal and regulatory requirements, including:
 - a. Proof of statutory licenses, permits, and approvals.
 - b. Safety inspection and audit reports.
 - c. Workers' compensation and insurance certificates.
 - d. Records of labor and safety audits, if applicable.
 - e. Environmental compliance certificates, if applicable.
 - f. Health, safety, and environmental incident reports, if applicable.

27.4 Documentation for Payment Claims:

27.4.1 Submission Requirements

The Contractor shall submit **all required supporting documentation** along with each payment claim, as stipulated in **Clause 14 (Payment Terms and Conditions)**. The submitted documentation must be **complete, accurate, and verifiable**, ensuring compliance with contractual, statutory, and quality standards.

27.4.2 Mandatory Supporting Documents

Each payment claim shall be accompanied by the following:

- i. **Detailed Tax Invoices**
 - a. Clearly itemized **breakdown of work completed**, including road works, periodic maintenance, routine maintenance, electrical works, and electrical maintenance.
 - b. **GST-compliant format**, where applicable.
- ii. **Certification of Work Completion**
 - a. **Site Supervisor's or Client's Representative's Certification**, confirming satisfactory completion of the claimed work.
 - b. **Measurement Books (MBs) and Work Logs** duly signed and authenticated.
- iii. **Inspection and Test Reports**

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- a. **Quality control and assurance reports**, including material and workmanship compliance records.
- b. **Inspection and certification reports** for specialized works such as **electrical installations and roadwork quality assessments**.
- iv. **Labor Deployment Records**
 - a. **Signed timesheets**, specifying workforce details, shift durations, and site attendance.
 - b. **Deployment logs** for skilled and unskilled labor.
- v. **Material Delivery and Receipt Confirmations**
 - a. **Supplier delivery challans and invoices**, duly acknowledged by the Client's site representative.
 - b. **Material reconciliation statements**, where required.
- vi. **Additional Documentation**
 - a. Any **other document(s) requested by the Client** for verification, including statutory compliance records, safety certifications, and subcontractor invoices, where applicable.

27.4.3 Verification and Approval Process

- i. The **Client shall review and verify** the submitted documents within the timeframe specified in **Clause 14 (Payment Terms and Conditions)**.
- ii. In case of **discrepancies or missing documents**, the Contractor shall provide clarifications or resubmissions within the stipulated period, without affecting the overall payment timeline.

27.4.4 Consequences of Non-Compliance

Failure to submit **complete and accurate** documentation shall result in:

- i. **Withholding or delay of payment** until compliance is achieved.
- ii. Possible **imposition of penalties** or contractual remedies, as per Clause 14.
- iii. Rejection of the payment claim if deficiencies persist beyond the **specified rectification period**.

27.5 Record Keeping and Client Access:

27.5.1 The Contractor shall maintain records of all work performed, materials supplied, and equipment used for the duration of the contract, including any variations or changes to the original scope. All records shall be made available to the Client upon request.

27.5.2 The Client or its representatives shall have the right to review, audit, and copy any of the documentation submitted by the Contractor. The Contractor shall cooperate fully with

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the Client during such audits and inspections, providing all necessary assistance and documentation.

27.6 Corrective Actions for Non-Compliance:

27.6.1 In the event that the Contractor fails to submit any required reports or documentation in a timely or accurate manner, the Client reserves the right to impose corrective actions, including penalties or suspension of payment, until the required documentation is provided.

27.6.2 If any discrepancies, omissions, or inaccuracies are found in the documentation provided, the Contractor shall promptly correct and resubmit the documentation within [a specified time frame] at no additional cost to the Client.

27.7 Final Documentation:

27.7.1 Upon the completion of the contract, and prior to the final acceptance of the works, the Contractor shall submit all relevant final documentation, including but not limited to:

- As-built drawings and final construction reports.
- Final certification of work completion and acceptance by the Client.
- All warranty documents for materials and equipment installed.
- Final test and inspection certificates, if applicable.
- Any other documents as stipulated in the Special Conditions of Contract or by the Client.

27.8 Electronic Submission of Documents:

27.8.1 The Contractor is encouraged to submit all reports and documentation electronically, where possible, to facilitate faster processing and easier access. All electronic submissions should be in an acceptable file format, such as PDF, Excel, or Word, as specified by the Client.

27.8.2 In case of hardcopy submission, the Contractor shall provide the necessary number of copies as requested by the Client.

28. Maintenance Responsibilities and Post-Completion Obligations

28.1 Contractor's Obligations for Maintenance Works

The Contractor shall be fully responsible for the **maintenance, upkeep, and operational performance** of all road infrastructure and associated electrical systems. This includes, but is not limited to:

- Pavements, shoulders, and drainage systems**, ensuring structural integrity and unobstructed water flow.
- Traffic signage, road markings, and safety barriers**, ensuring visibility and compliance with MoRTH and IRC standards.

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- iii. **Street lighting, transformers, and electrical systems**, ensuring a minimum **98% operational uptime**.
- iv. **Emergency maintenance response**, including prompt rectification of damages caused by accidents, adverse weather, or unforeseen events.

All maintenance activities shall comply with the **contract specifications, MoRTH guidelines, IRC standards, and relevant statutory regulations**. The Contractor shall ensure **timely rectification of defects, preventive maintenance, and performance monitoring** throughout the contract period.

28.2 Inspection, Monitoring, and Reporting

The Contractor shall conduct **regular inspections and performance evaluations** as per the approved Maintenance Plan, which shall include:

- i. **Daily inspections** for routine maintenance (potholes, cracks, road markings, signage, and lighting).
- ii. **Weekly inspections** for structural elements, including drains, safety barriers, and electrical systems.
- iii. **Monthly inspections** for periodic maintenance planning, material quality checks, and service life assessments.
- iv. **Post-completion monitoring** of rectified works to ensure durability and adherence to quality standards.

Inspection reports shall be maintained and submitted as per Clause 27 (Reporting and Documentation), ensuring traceability of all maintenance activities. Any defects identified shall be rectified **within the prescribed response times**, failing which penalties shall be imposed as per Clause 15 (Performance Standards and Penalties).

28.3 Defect Rectification and Performance Assurance

- i. The Contractor shall **immediately address any reported defects or failures** within the contractual response time.
- ii. All rectifications, repairs, and replacements **shall be executed at the Contractor's cost** during the maintenance period.
- iii. If rectification delays exceed the **maximum allowable limit**, the Client reserves the right to undertake corrective actions at the **Contractor's risk and cost**, with recovery through penalties or performance security deductions.
- iv. If a defect reappears in the same location within the maintenance period due to poor workmanship or substandard materials, the Contractor shall be responsible for rework at no additional cost to the Client.
- v. Repeated failures in rectified sections will result in extended performance obligations and additional penalties, as per Clause 15.4.2.

28.4 Post-Completion Monitoring and Extended Responsibility

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- i. After the completion of **any repair, resurfacing, or structural rectification**, the Contractor shall **monitor the performance** of the restored section for a period as defined in the contract.
- ii. If failures occur within this monitoring period due to **poor workmanship, substandard materials, or improper execution**, the Contractor shall be obligated to **rework at no additional cost** to the Client.
- iii. The Client or its authorized representative shall have the right to **inspect and assess** the performance of all maintenance works and may impose corrective measures if performance benchmarks are not met.

28.5 Documentation and Record-Keeping

The Contractor shall **maintain detailed records** of all maintenance activities, inspections, defect rectifications, and post-completion monitoring. These records shall include:

- i. **Daily maintenance logs** with details of work completed, manpower deployed, and materials used.
- ii. **Inspection reports and defect records**, specifying issues identified, response times, and corrective measures taken.
- iii. **Compliance reports** to verify adherence to MoRTH, IRC, and contractual quality standards.

All reports shall be **submitted to the Client** in accordance with Clause 27 (Reporting and Documentation) and made available for audits or verification at any time.

29. Defects Liability Period (DLP)

29.1 Definition and Scope

The **Defects Liability Period (DLP)** shall commence from the date of **Substantial Completion** and the issuance of the **Certificate of Substantial Completion** by the Client. During this period, the Contractor shall be responsible for identifying and rectifying any defects, deficiencies, or non-conformities in the works related to **road construction, periodic maintenance, routine maintenance, electrical works, and electrical maintenance**. These defects may arise due to **faulty materials, poor workmanship, or non-compliance** with the contract specifications, approved designs, or relevant standards. The Contractor shall, at its own cost, rectify such defects within the timeframe stipulated by the Client, ensuring that the works meet the required functional, structural, and safety standards. Any failure to address defects within the specified period may result in the Client undertaking the necessary rectifications at the Contractor's risk and expense. The issuance of the **Final Acceptance Certificate** shall be subject to the satisfactory completion of all remedial works.

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29.2 Rectification of Defects

The Contractor shall promptly investigate and rectify any defects or deficiencies identified by the Client during the **Defects Liability Period (DLP)** within the timeframe specified in the Contract or as instructed by the Client. The rectification work shall be carried out in compliance with the contract specifications, applicable standards, and safety requirements, ensuring that the works maintain their structural integrity, functionality, and operational efficiency. All costs associated with defect rectification, including materials, labor, equipment, and any necessary rework, shall be borne entirely by the Contractor. In the event of failure to rectify defects within the stipulated timeframe, the Client reserves the right to impose penalties as per **Clause 15 (Performance Standards and Penalties)** or undertake the rectification work at the Contractor's risk and expense. The Contractor shall also ensure that any remedial work does not disrupt the ongoing operations or compromise the safety of road users and site personnel.

29.3 Inspection During DLP

During the **Defects Liability Period (DLP)**, the Client or its authorized representative shall have the unrestricted right to inspect the completed works at any time to assess their performance, structural integrity, and compliance with contractual requirements. The Contractor shall facilitate such inspections by providing full access to all relevant areas, documentation, and personnel necessary for a thorough evaluation. Any defects, deficiencies, or non-conformities identified during these inspections shall be formally notified to the Contractor in writing, specifying the nature and extent of the required remedial actions. The Contractor shall undertake corrective measures without delay, ensuring that all defects are rectified to the satisfaction of the Client. Failure to address the notified defects within the prescribed timeframe shall attract penalties as per **Clause 15 (Performance Standards and Penalties)**, and the Client may undertake the necessary rectifications at the Contractor's cost and risk.

29.4 Maintenance During DLP

The Contractor shall ensure that all components related to road construction, periodic maintenance, routine maintenance, electrical works, and electrical maintenance—including road pavements, drainage systems, street lighting, signage, and other associated civil and electrical infrastructure—are maintained in a fully functional and compliant state throughout the Defects Liability Period (DLP). The Contractor shall conduct routine inspections and undertake necessary maintenance activities in accordance with the standards specified in the Contract, MoRTH specifications, and IRC guidelines. Any deterioration, structural failures, electrical malfunctions, or deficiencies identified during this period shall be rectified by the Contractor at its own cost within the timeframe specified in the Contract or as directed by the Client. Non-compliance with maintenance obligations or delays in rectification shall attract penalties as per Clause 15 (Performance Standards and Penalties), and the Client

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reserves the right to undertake necessary corrective actions at the Contractor's expense.

29.5 Final Inspection and Handover

Before the expiry of the Defects Liability Period (DLP), the Contractor shall formally notify the Client of the readiness for a final inspection. The Client or its authorized representative shall conduct a thorough inspection of all works related to road construction, periodic maintenance, routine maintenance, electrical works, and electrical maintenance, including road pavements, drainage systems, street lighting, signage, and other associated civil and electrical infrastructure. The inspection shall verify that all identified defects, deficiencies, and non-conformities have been rectified as per the contractual requirements, MoRTH specifications, and IRC guidelines. If the works are found to be in compliance and satisfactory, the Client shall issue the Final Acceptance Certificate, formally concluding the DLP. In case of any outstanding deficiencies, the Contractor shall be required to address them within the stipulated timeframe before the certificate is issued.

29.6 Extension of DLP

If any defects, deficiencies, or non-conformities related to road construction, periodic maintenance, routine maintenance, electrical works, or electrical maintenance remain unresolved at the expiry of the Defects Liability Period (DLP), the DLP shall be automatically extended until all such defects have been satisfactorily rectified and certified by the Client. The Contractor shall remain fully responsible for rectifying these defects at its own cost, ensuring compliance with the contractual requirements, MoRTH specifications, and IRC guidelines. The extended DLP shall continue until the Client formally certifies that all outstanding defects have been addressed to its satisfaction. Any failure to rectify defects within the extended period may result in penalties, deductions, or other remedies as stipulated in the contract.

29.7 Retention Release

The release of retention money or any portion thereof, held as a performance guarantee during the Defects Liability Period (DLP), shall be contingent upon the satisfactory rectification of all defects, deficiencies, and non-conformities related to road construction, periodic maintenance, routine maintenance, electrical works, and electrical maintenance. Upon successful completion of the final inspection and verification that all rectifications have been carried out in accordance with the contract, MoRTH specifications, and IRC guidelines, the Client shall issue the Final Acceptance Certificate. Only upon issuance of this certificate shall the retention money be released to the Contractor. Any pending defects at the time of DLP expiry may lead to a proportional withholding of retention money until all outstanding issues are resolved.

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29.8 Duration of DLP

The Defects Liability Period (DLP) shall be **twelve (12) months** or as mentioned in **Contract Data Sheet**, from the date of issuance of the Certificate of Substantial Completion by the Client, unless extended under **Clause 29.6**.

Exclusions

The Contractor shall not be liable for defects arising due to normal wear and tear, misuse, or acts of God as defined under **Clause 19, Force Majeure**, unless otherwise specified in the Contract.

30. Liquidated Damages

30.1 Applicability

The Contractor acknowledges that the **timely and satisfactory execution of Road Construction, Periodic Maintenance, Routine Maintenance, Electrical Works, and Electrical Maintenance** is critical to the Client's operations. Any **failure to meet the performance standards, contractual timelines, or obligations** as specified in this Contract shall result in the imposition of **Liquidated Damages (LD)** as **compensation for losses, operational disruptions, or inconvenience caused to the Client**.

30.2 Trigger for Liquidated Damages

Liquidated Damages shall become applicable in the following scenarios:

- Delayed commencement or completion of any scheduled maintenance activities.
- Non-compliance with response times for emergency repairs or incident management.
- Failure to maintain performance standards as per **Clause 28, Maintenance and Performance**.
- Repeated non-rectification of defects within stipulated time frames during the Defects Liability Period (DLP).

30.3 Rate of Liquidated Damages

The LD rate shall be calculated as a percentage of the Contract Value or the specific milestone value, as detailed in the **Contract Data Sheet**. The total LD shall not exceed the maximum cap, **10% of the Contract Value**, unless otherwise specified in the Contract Data Sheet.

30.4 Computation and Deduction

The Liquidated Damages shall be calculated on a pro-rata basis for delays or deficiencies, as applicable, and shall be deducted from the Contractor's interim payments, retention money, or any other dues payable under the Contract.

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30.5 Exemptions

No Liquidated Damages shall apply if the delay or non-compliance is solely attributable to:

- a) Force Majeure events, as defined in **Clause 19**.
- b) Written instructions or approvals awaited from the Client beyond the stipulated period.

30.6 Additional Penalties for Chronic Non-Performance

In cases of persistent or willful non-performance by the Contractor, as determined by the Client, the Liquidated Damages may be supplemented with penalties, termination, or other remedies provided under this Contract.

30.7 Non-Exclusivity of LD

The imposition of Liquidated Damages shall not preclude the Client from seeking other remedies, including termination of the Contract or claims for actual damages, where applicable.

30.8 Acknowledgement

The Contractor agrees that the Liquidated Damages are a genuine pre-estimate of the loss likely to be suffered by the Client and do not constitute a penalty under applicable laws.

31. Notices and Communications

31.1 Mode of Communication:

All notices, instructions, approvals, requests, and other communications required or permitted under this contract shall be in writing and delivered through one of the following means:

- a) Registered post or courier to the designated addresses of the parties.
- b) Email communication to the designated official email addresses provided by the parties, provided that such emails are acknowledged by the recipient.

31.2 Designated Contact Details:

Each party shall provide and maintain updated contact details, including physical address, email address, and phone number, for all official communications. Notices sent to these addresses shall be deemed to have been duly served.

31.3 Effective Date of Notices:

Notices shall be deemed to have been received:

- a) If delivered by registered post or courier, on the date of actual delivery or acknowledgment of receipt.

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- b) If sent by email, on the date of acknowledgment by the recipient, or, if no acknowledgment is received, within 48 hours of dispatch, provided no error or failure message is received.

31.4 Change of Address or Contact Details:

Either party may change its designated contact details by giving written notice to the other party. Such changes shall become effective five (5) business days after receipt of the notice.

31.5 Language of Communication:

All notices and communications under this contract shall be in English unless otherwise specified in the Special Conditions of Contract.

31.6 Binding Nature of Communications:

All instructions, notices, and approvals issued by the Client under this clause shall be binding on the Contractor. Any queries or clarifications from the Contractor must be sought in writing within the stipulated time frame specified in the contract.

31.7 Service of Legal Notices:

Legal notices related to the contract shall be served to the respective registered office addresses of the parties and marked "For the Attention of Legal Counsel."

32. Confidentiality and Non-Disclosure

32.1 Confidential Information:

All information, data, reports, drawings, documents, trade secrets, technical specifications, and other materials, whether written, verbal, or electronic, disclosed by either party during the performance of this contract shall be considered confidential and proprietary ("Confidential Information").

32.2 Obligations of the Contractor:

The Contractor agrees to:

- Use Confidential Information solely for the purpose of fulfilling its obligations under this contract.
- Not disclose or permit the disclosure of Confidential Information to any third party without the prior written consent of the Client, except as required by law.
- Protect Confidential Information with the same degree of care used to safeguard its own confidential and proprietary information but no less than reasonable care.

32.3 Permitted Disclosures:

The Contractor may disclose Confidential Information to:

- Employees or subcontractors who need access to such information to perform the contract, provided they are bound by confidentiality obligations no less restrictive than those in this clause.
- Government authorities or regulatory bodies, as required by applicable law, after notifying the Client in writing (unless prohibited by law).

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32.4 Exclusions from Confidentiality:

The obligations under this clause shall not apply to information that:

- a) Is or becomes publicly available through no breach of this agreement.
- b) Was already in the possession of the receiving party without restriction before its disclosure.
- c) Is independently developed by the receiving party without use of or reference to the Client's Confidential Information.
- d) Is lawfully disclosed to the receiving party by a third party without restriction on disclosure.

32.5 Return or Destruction of Information:

Upon the completion, termination, or expiration of this contract, or upon the Client's written request, the Contractor shall return or destroy all copies of the Client's Confidential Information and provide written confirmation of such destruction.

32.6 Duration of Confidentiality Obligations:

The confidentiality obligations under this clause shall survive the termination or expiration of this contract for a period of **five (5) years** unless otherwise agreed in writing.

32.7 Remedies for Breach:

In the event of a breach or threatened breach of this clause, the Client shall be entitled to seek equitable relief, including but not limited to an injunction, in addition to any other remedies available under law or equity.

33. Bank Guarantee Formats

Provision of Bank Guarantee Formats:

33.1 Bank Guarantee Formats:

33.1.1 The Client shall provide the Contractor with the required formats for **Bank Guarantees** as per the terms and conditions stipulated in the Contract, including but not limited to:

- i. Performance Bank Guarantee
- ii. Advance Payment Bank Guarantee
- iii. Retention Money Bank Guarantee
- iv. Security Deposit Bank Guarantee, if applicable.

33.2 Availability of Formats:

33.2.1 The Contractor shall be provided with the Bank Guarantee formats within **[7] days** from the date of contract execution or from the date of any event that triggers the requirement for a Bank Guarantee (e.g., Advance Payment, Performance Guarantee).

33.2.2 These formats shall be made available either through the following means: - Directly from the Client's Contract Administrator or Authorized Representative. - Via the Client's

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designated electronic document management system (if applicable), accessible to the Contractor.

33.2.3 Request for Formats: In the event the Contractor does not receive the Bank Guarantee formats as specified, the Contractor may request the required format(s) in writing. The Client shall make the necessary formats available to the Contractor within **[7] days** of receiving such a request.

33.3 Compliance with Format:

The Contractor shall ensure that the Bank Guarantees are furnished in strict accordance with the formats provided by the Client. Any deviations from the prescribed format shall be subject to the Client's approval.

33.4 Submission of Bank Guarantees:

The Contractor shall submit the original Bank Guarantees to the Client at the appropriate stages, as per the terms of the Contract, and ensure that they are valid for the required period as per the contractual obligations.

33.5 Costs of Bank Guarantees:

All costs, charges, and fees related to the issuance and renewal of the Bank Guarantees shall be borne by the Contractor unless otherwise agreed by the parties in writing.

34.Limitation of Liability

The liability of the Contractor under this Agreement, whether arising from breach of contract, negligence, or any other cause, shall not exceed the total contract value or the amount recoverable under applicable insurance policies, whichever is higher, except in cases of gross negligence, wilful misconduct, or fraud. The Contractor shall not be held liable for indirect, incidental, or consequential damages, including but not limited to loss of profit, revenue, or anticipated savings, unless expressly stated otherwise in this Agreement or applicable law.

The Client's liability under this Agreement is limited to payment for works / services rendered and duly certified in accordance with the terms of this Contract. In no case shall either party be liable for claims arising from delays, disruptions, or failures resulting from events classified as Force Majeure, as defined under **Clause 19**.

This limitation shall not affect the Contractor's obligations related to indemnities, intellectual property, warranties, or the rectification of defects as outlined in this Agreement.

35.Annexures and Appendices

The following annexures and appendices form an integral part of this Contract and shall be referred to for detailed guidelines, specifications, and requirements applicable to the Road Maintenance Works:

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a) Bill of Quantities (BOQ)

This annexure includes the detailed schedule of quantities, unit rates, and cost estimates for all items of work covered under the Contract. The BOQ shall form the basis for interim and final payments, subject to adjustments as per the Contract terms.

b) Specifications for Materials and Equipment

This document provides the technical specifications for all materials and equipment to be supplied and utilized in the execution of the works, as per the latest MoRTH specifications, IRC standards, and other applicable codes. Compliance with these specifications is mandatory.

c) Work Orders and Sample Forms

Standardized templates for issuing work orders, recording daily progress, and maintaining site records are provided. These shall be used for proper documentation and record-keeping during the execution of the Contract.

d) Inspection and Maintenance Checklists

Comprehensive checklists detailing the procedures for inspections, periodic maintenance activities, and quality assurance measures are included to ensure compliance with performance standards.

e) Safety Standards and Procedures

This appendix outlines the safety protocols, emergency response plans, and mandatory compliance measures to ensure the health and safety of workers and the general public during the execution of works.

f) Bank Guarantees

This annexure includes the formats for bank guarantees required under the Contract, such as Performance Bank Guarantee, Advance Payment Guarantee, and Retention Money Guarantee. The Contractor shall ensure that all bank guarantees are submitted in the approved format and within the stipulated timelines as specified in the Contract.

The Contractor shall ensure familiarity with all annexures and appendices and comply with their requirements. Any deviations or non-compliance must be addressed through written approval from the Client.

In case of any conflict between the annexures or appendices and the main Contract terms, the provisions of the main Contract shall prevail unless expressly stated otherwise.

36. Other Conditions

36.1 General Compliance

The Contractor shall comply with all applicable laws, regulations, codes, and standards governing road maintenance works, including but not limited to labor laws, environmental regulations, safety standards, and other statutory requirements. Any

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failure to comply with such laws and regulations shall be considered a breach of contract, and the Contractor shall bear all resulting consequences, including penalties and corrective actions. The Contractor shall also adhere to industry best practices and ensure that all personnel, subcontractors, and suppliers engaged in the project operate within the boundaries of the law and the terms of this Agreement.

36.2 Interpretation of Contract

In the event of ambiguity or inconsistency between clauses of this Contract, the interpretation most consistent with the overall intent and objectives of the Agreement shall prevail. Should disputes regarding interpretation arise, they shall initially be resolved through consultation between the Client and Contractor. If unresolved, the matter shall follow the dispute resolution mechanism outlined in **Clause 18**. Both parties agree that all provisions of this Contract must be interpreted harmoniously to avoid rendering any clause redundant or inapplicable.

36.3 Confidentiality and Intellectual Property Rights

36.3.1 Ownership of Deliverables

36.3.1.1 All data, drawings, designs, reports, calculations, manuals, maps, photographs, and other deliverables produced or supplied by the Contractor under this Contract shall become the sole property of the Client upon submission. The Contractor shall not use, replicate, or disclose such deliverables for any purpose outside the scope of this Contract without the prior written consent of the Client.

36.3.2 Confidential Information

36.3.2.1 The Contractor agrees to treat all information provided by the Client or generated during the execution of this Contract as confidential. Such information shall not be disclosed to any third party or used for any purpose other than fulfilling the obligations under this Contract, except as required by law or with the written approval of the Client.

36.3.3 Intellectual Property Warranty

36.3.3.1 The Contractor warrants that all work, methodologies, and materials provided under this Contract do not infringe upon any existing intellectual property rights, including patents, copyrights, or trademarks of third parties, as per the applicable laws in India, including but not limited to the Copyright Act, 1957, and the Patents Act, 1970. The Contractor shall be solely responsible for resolving any claims or disputes arising from such infringements at its own cost.

36.3.4 Proprietary Technology and Methods

36.3.4.1 If the Contractor uses any proprietary technology, software, or methodologies owned by the Contractor during the performance of this Contract, it shall obtain prior written approval from the Client. Such proprietary elements shall remain the property of the Contractor unless explicitly transferred to the Client in writing.

36.3.5 Return of Data and Materials

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36.3.5.1 Upon the termination or expiration of this Contract, the Contractor shall return or destroy all confidential information, data, and materials belonging to the Client, as instructed by the Client.

36.3.6 Compliance with Laws

36.3.6.1 The Contractor shall comply with all applicable intellectual property and confidentiality laws in India, including but not limited to the Indian Contract Act, 1872, the Copyright Act, 1957, and any relevant rules or guidelines issued by Indian authorities.

36.4 Third-Party Rights

This Contract is intended solely for the benefit of the Client and Contractor. It does not confer any rights, privileges, or remedies upon any third party, nor does it create any obligations or liabilities for the benefit of third parties. However, this limitation does not preclude the enforcement of obligations or liabilities directly related to third-party safety, property damage, or environmental compliance arising out of the Contractor's actions during the execution of this Contract.

36.5 Force of Documentation

This General Conditions of Contract (GCC), along with its annexures, appendices, and referenced documents such as technical specifications, MoRTH guidelines, IRC standards, and work orders, forms the complete and binding agreement between the Client and Contractor. Any deviations, amendments, or additions to these documents must be agreed upon in writing and signed by both parties to take effect. In the event of conflict between the main Agreement and its annexures or appendices, the order of precedence specified in the Special Conditions of Contract shall apply.

36.6 Provisions for Emergencies

In the event of an emergency, such as natural disasters, accidents, or critical incidents that threaten public safety, the Contractor shall take immediate action to mitigate risks and prevent further harm. This includes mobilizing resources, securing the affected area, and providing necessary assistance in coordination with local authorities. The Contractor must notify the Client of such actions within 24 hours and submit a detailed report outlining the measures taken and any anticipated costs. Any additional work performed under such circumstances shall be subject to review and approval by the Client.

36.7 Waiver

The failure of either party to enforce any provision of this Contract shall not constitute a waiver of their rights to enforce the same or any other provision at a later time. A waiver shall only be valid if expressed in writing and signed by the party granting it.

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Such a waiver shall be limited to the specific breach or circumstance outlined and shall not be construed as a continuing waiver of other or future breaches.

36.8 Entirety of Agreement

This Contract constitutes the entire agreement between the Client and Contractor concerning the scope of road maintenance works and supersedes all prior agreements, communications, and understandings, whether written or oral. No modifications or amendments to this Agreement shall be valid unless executed in writing and signed by both parties. Both parties affirm that they have entered into this Agreement based on its express terms and not in reliance on any representations, promises, or warranties not explicitly contained herein.

36.9 Survival of Terms

Provisions of this Contract that by their nature extend beyond its termination or expiration shall survive and remain in effect. This includes, but is not limited to, clauses related to confidentiality, intellectual property, warranties, dispute resolution, indemnities, and liabilities. The Contractor acknowledges that these surviving obligations are essential to protecting the Client's rights and interests even after the completion or termination of this Contract.

36.10 Acknowledgment

The Contractor acknowledges that they have read and understood the terms and conditions of this Contract, including all annexures, appendices, and referenced documents. By signing this Agreement, the Contractor agrees to be bound by its terms and confirms their capability to fulfill all obligations outlined herein. The Contractor also warrants that they have sought independent legal or professional advice as necessary to comprehend the implications of this Contract fully.

36.11 Language of the Contract

The official language of this Contract shall be English. All correspondence, documentation, instructions, and deliverables related to this Contract shall be prepared, submitted, and interpreted in English only. In the event of any discrepancy between versions of this Contract or its associated documents in any other language, the English version shall prevail.

The Contractor shall ensure that its personnel, subcontractors, and agents are adequately conversant in English to comply effectively with the terms and obligations under this Contract. Any translation of this Contract or related documentation into another language shall be for convenience only and shall not carry legal validity unless expressly agreed upon by both parties in writing.

The parties agree that clarity and consistency in communication are paramount to the successful execution of the Contract, and this provision is binding on all parties.

Annexure A2

Special Conditions of Contract

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Not Applicable

Annexure A3

List of Approved Makes

Annexure A3 – List of Approved Makes (V-01)

List of Approved Makes		
S. No	Items Description	Name of Approved Suppliers/Vendors
1	Cement	Ultratech Cement Ltd
		Ambuja Cement- Holcim
		J K Super/Laxmi
		Wonder
		Shree Cement
		Birla/Mangalam Cement
		ACC Ltd
2	Reinforcement Steel	1. SAIL 2. TATA Steel 3. Rastriya Ispat Nigam Ltd [RINL] 4. Jindal Steel Power Ltd 5. JSW Steel Ltd (Including former JSW Ispat/Ispat industries Ltd)
3	Plates	Essar Steel Limited
		SAIL
		Jindal Steel & Power Limited
		JSW Steel Ltd (Including former JSW Ispat/Ispat industries Ltd)
		RINL
		Uttam Galva Steel
		Bhushan Steel & Power
		Arcelor & Mittal
		Tata Steel
4	Structural Steel	1. Tata Steel 2. SAIL 3. RINL 4. Jindal Steel Power Ltd
5	Bitumen (VG 30/ VG 40)	1. HPCL 2. IOCL 3. BPCL 4. MRPL 5. Reliance
6	Emulsion (RS & SS)	1. Hincol 2. Tiki Tar Shell India Ltd. 3. BPCL 4. IOCL
7	Concrete Admixtures	1. FOSROC 2. Sika 3. BASF 4. Dr. Fixit
8	AC Pipes	Local vendors complying IS requirement
9	PVC/HDPE Pipes	FIP
		Astral
		Finolex
		Prince
		Supreme Industries Ltd
		Kissan Irrigation Ltd.
		Jain Irrigation
		APL Apollo

Annexure A3 – List of Approved Makes (V-01)

List of Approved Makes		
S. No	Items Description	Name of Approved Suppliers/Vendors
10	High Tensile Steel strands	1. Usha Martin 2. TATA 3. Kataria
11	Sealant and sealant Primer for PQC	1. FOSROC 2. Sika 3. BASF 4. Dr. Fixit
12	Curing Compound	1. FOSROC 2. Sika 3. BASF 4. Dr. Fixit
13	Separation Membrane (LDPE)	1. Vishakha Polyfab 2. D.P. Wires
14	Hume Pipe	Local vendors complying IS requirement
15	Paver Blocks	Local vendors complying IS requirement
16	Drainage Spout	Local vendors complying IS requirement
17	Sheathing Pipes	1. Tirupati Plastomatics Private Limited 2. Usha Martin 3. Dynamic 4. Kataria
18	Expansion joints (Modular/Strip seal)	1. Dynamic Prestress(I) Pvt Ltd, Navi Mumbai 2. Maurer - Sanfield India Limited 3. Mageba Bridge Products Pvt. Ltd. Kolkata
19	Bearings	
19.01	Elastomeric bearing	1. Dynamic Prestress(I) Pvt Ltd, Navi Mumbai 2. Maurer - Sanfield India Limited 3. Mageba Bridge Products Pvt. Ltd. Kolkata
19.02	POT-PTFE Bearings	1. Dynamic Prestress(I) Pvt Ltd, Navi Mumbai 2. Maurer - Sanfield India Limited 3. Mageba Bridge Products Pvt. Ltd. Kolkata
20	Re Wall: Panels with all accessories like Geo Grid Materials, GI Clamp, etc	1. Maccaferri 2. Techfab India 3. Strata Geosystems 4. Reinforced Earth India Pvt. Ltd 5. Geosys India Infrastructure Pvt. Ltd.
21	Geocomposite Material for Filter Media	1. Maccaferri 2. Strata Geosystems 3. Techfab India
22	Traffic Signs, Marking and other Appurtenances:	
22.01	Retro Reflective Tapes for Signages	Any supplier with "3M/Orafol" Reflective sheet
22.02	Delineators (Roadway Indicators)	Any supplier with "3M/Orafol " Reflective sheet
22.03	Reflective pavement markers (road Studs)	Any supplier with "3M/Orafol/Kataline/Alcolite " Reflective sheet
22.04	Solar blinkers	Any supplier with "3M/Orafol/ Alcolite" Reflective sheet
22.05	Solar studs with red flashes	Any supplier with "3M/Orafol/ Alcolite" Reflective sheet

Annexure A3 – List of Approved Makes (V-01)

List of Approved Makes		
S. No	Items Description	Name of Approved Suppliers/Vendors
23	Highways & toll Illumination & Electrical works	
23.01	High mast	Bajaj/ Philips/ Crompton/ Valmont (upto 70M)/ Trans rail Lighting (up to 30M)/ Utkal (upto 30 M) Sigma Search light (upto 30M)/Utkarsh India Ltd.
23.02	Pole with Single Arm	For GI Poles - Bajaj/ Ridhdhi Poles/ Zenith Poles/ Subham Poles/ Aster Teleservices/Utkarsh India Ltd.
23.03	Median Lighting, Double Arm	For GI Poles - Bajaj/ Ridhdhi Poles/ Zenith Poles/ Subham Poles/ Aster Teleservices/ Utkarsh India Ltd.
23.04	Light inside/ under the Structure (i.e. VUP, PUP, Flyover, Toll Plaza canopy etc.)	Wipro/CGL/ Philips/Bajaj/ GE/ Osram/Havells/Sigma search light
23.05	HT Cable	Polycab/KEI / Ravin Cables/ Universal Cable/ Sterlite/ Gupta Power/ CCI/ Torrent Power/ Finolex /RPG
23.06	LT Cable	Polycab/KEI / Ravin Cables/ Universal Cable/ Torrent/Nicco/ Finolex /RPG/Havells/Cords/Thermos/Delton/Suyog
23.07	LT Panels	BCH/ Siemens/Schneider/ ABB/ L&T / C&S/ Manish Engineering, Mumbai / Akshar Electric. Baroda /Maktel, Vadodara/ Risha Control, Delhi/ Bharat Engineers, Vadodara/ Vidhyut Control, Ghaziabad/ Pyrotech Electronics, Udaipur/Milestone, Rudrapur / Unilec Engineer, Gurgaon/ Electro Control system, Noida
23.08	Junction Boxes	Sintex/Hensel
23.09	Cabel Termination	3M/Yamuna/Raychem/Gala shrinkfit
23.1	Cable Glands	Comet/VBI/Dowells/HMI/Sunil & Co/ Arup Engg/Quality Precision
23.11	Conduit	M. Chandra/Supreme/Precision/BEC Industries/ Elmech India
24	Pavement marking (Hot applied thermoplastic paint)	1. DG group construction, Pune 2. Kataline group, Mumbai 3. Asian Paint, Mumbai 4. Automark Industries 5. Berger
25	Chequered Tiles (25mm thk)	Local vendors complying IS requirement
26	ATMS & Toll Equipment's	1. Efkon, Mumbai 2. Metro, Delhi 3. Rajdeep, MP 4. Devaditya Technocrats LLP 5. Qualix Information System LLP 6. Vaaan Infra Pvt Ltd 7. Superwave Communications & Infra Solutions Pvt Ltd
27	Metal Beam Crash Barrier	1. Safety First 2. AARNEEL Technocraft Private Limited 3. Vinfab Engineers India Limited 4. GR Infra Projects Ltd 5. Utkarsh India Ltd. 6. Jindal (india) Limited 7. HI-TECH PIPES LIMITED 8. Prakash Asphaltting and Toll Highways India Limited

Annexure A3 – List of Approved Makes (V-01)

List of Approved Makes			
S. No	Items Description	Name of Approved Suppliers/Vendors	
28	Static Weigh Bridge	RICELAKE WEIGHING SYSTEM	
		AVERY INDIA LTD	
		ESSAE DIGITRONICS PVT. LTD.	Ashbee System Ltd.
29	Weigh In Motion	1. Efkon, Mumbai 2. Metro, Delhi 3. Rajdeep, MP` 4. Ashbee System Ltd.	
30	Aluminium Section	Hindalco	
		BALCO	
		NALCO	
31	Bajri/Frosted/Wired Glass/ Clear Float Glass(5mm Thick) for Doors, windows,	saint Gobain	
		Asahi Float	
		Modiguard	
32	Ceramic/ Vitrified Tiles	Somany Ceramics Limited	
		Nitco Tiles	
		Kajaria Ceramics	
		Johnson Tiles	
		Asian Granito India Ltd.	
33	Paints	Jotun	
		Asian	
		Grandpolycoat	
		Nerolac	
		Berger	
34	Sanitary Fittings	Parryware	
		Jaquar	
		Hindware	
		Cera	
		Somany	
35	ACP Panels	Eurobond industries	
		Alcan Composites India	
		Aludecor Lamination	
36	Cement Board	SHERA cement board by Mahapant fibre cement	
		AEROCON C board from HIL	
37	Mortised Locks & Door Accessories	Assa Abloy India Pvt. Ltd (Yale)	
		Everiet	
		Godrej & Boyce Manufacturing Company Limited	
		Link Group of Industries	
		Europa	
38	Pipes-MS Tube & Pipes (Galvanized)(IS 1239/IS 3589)	Tata Steel	
		Indus	
		Jindal	
		Advance Steel Tubes Ltd.	
		PS Steel tubes Ltd	
		APL Apollo	
39	Bituminous Paint	Shalimar	
		STP	
		Tiki Tar Industries	

Annexure A3 – List of Approved Makes (V-01)

List of Approved Makes		
S. No	Items Description	Name of Approved Suppliers/Vendors
40	Gypsum Board False Ceiling/Partition Wall/ Fireproof Partition	Saint Gobain Gyproc India Ltd.
		Borai Gypsum India Pvt. Ltd.
		Gypsonite
41	Fasteners for Structural Steel	Nexo Fasteners
		Lakshmi precision Screws Ltd.
		Precision Taps & dies pvt. Ltd.
		Bharti
		Deepak fasteners,
		Sundaram fasteners Ltd
42	Structural Hollow Steel Sections (Square & Rectangular)	Vinay Wires & Poly products (P) limited - (VWPPL)
		Hi Tech Pipes, Limited, TISCO
		Riddhi Steel & Tube Limited
		APL Apollo
43	Structural Tubular Sections	TISCO
		Jindal Steel
		SAIL
		Welspun
		Maharashtra Seamless
		Surya Roshni
		Ratnamani
		PSL Industries
		APL Apollo
44	RBT/CONCERTINA COIL/BARBED WIRE	Zonate Wire Industries
		Guru Krupa Wire Netting Industries
		A 1 Fence Products Company Pvt. Ltd.
		Sai Wire
		Parmeshwar Wire Products

Annexure A4

Utility shifting guidelines for safety, compliance, and timely execution.

National Highways Infra Trust

 National Highways Infra Trust	Utility shifting guidelines	Doc No.: NEPPL/FY25- 26/RFP/Pavement Repair & Rehabilitation - RKJL
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Not Applicable

Annexure A5

NHIT's EHS Policy

Annexure A5- EHS Responsibilities and Requirements – Work on Live Road

1. General

1.1. Personal Protective Equipment & Safety Appliances

The Contractor / Agency shall provide all the PPE (Personal Protective Equipment) and safety appliances required to carry out the job to all the workmen at its own cost and expenses.

1.2. PTW System (Wherever applicable, Sole discretion of – NHIT

The Contractor / Agency shall adhere to all the provisions of EHS requirements. In case of non-compliance or continuous failure in the implementation of any of EHS provisions. NHIT may impose stoppage of work without any cost or time implications /or impose a suitable penalty for non-compliance.

1.3. EHS violation Penalty List in INR

- 1.3.1. Non usage of PPEs – 1000/-
- 1.3.2. Violation of Barricading Requirements 2,000/-
- 1.3.3. Caution boards/signs not displayed.1000/-
- 1.3.4. Work without PTW system 1000/- (EPC, O&M and Work on Live Road)
- 1.3.5. Usage tools & tackles without valid third-party certification 2000/-
- 1.3.6. Deployment and usage of cranes and equipment without valid third-party certification 5000/-
- 1.3.7. Main carriage way blockage without prior permission and PTW 5,000/-
- 1.3.8. Failure to deploy a shadow vehicle: ₹2,000 per instance. However, the requirement for a shadow vehicle may be waived at the sole discretion of the EHS Manager, depending on the duration of the activity and the severity of the hazard.
- 1.3.9. Transportation of manpower using makeshift arrangements or a shadow vehicle: ₹2,000 per instance / per person.
- 1.3.10. Any other unsafe act and condition 2000/-

Remarks: Fines & Penalties shall be decided & revised by NHIT project manager. Fines & Penalties amount will be deducted from Contractor / Agency payment. Above penalties are per violation per occasion basis.

Repeated EHS violations will result in escalating disciplinary measures. A third occurrence of the same violation may lead to temporary suspension, while a fifth recurrence may result in permanent contract termination.

2. Method Statement & HIRA (Wherever applicable, Sole discretion of NHIT. The Contractor / Agency shall submit a detailed Work method statement and Hazard Identification & Risk Assessment (HIRA) for review and approval before commencing work.

3. Work on Live Road (Wherever applicable, Sole discretion of NHIT

- 3.1. Work Zone – Contractor / Agency shall create and maintain the Traffic control zones as per Section 4 of IRC SP 55 2014 – Advance warning zone, Approach transition zone, Activity zone, Terminal transition zone, Work zone end, ref figure (a) attached as annexure.

- 3.1.1. Provide MS board with "Arrow marking & Work in progress" display @ 100 meters ahead of the work zone and fix red flags over it for good visibility.
 - 3.1.2. Ensure to provide LED chevron or blinker in case of fog time or working during inadequate illumination.
 - 3.1.3. Display sign boards such as Go Slow, Speed Limit etc.
 - 3.1.4. Deploy flag man along with Red & Green flags with a whistle or virtual flagman to be placed for better visibility and a risk-free approach.
 - 3.1.5. Contractor / Agency should ensure sufficient manpower to provide the safety arrangement on live carriage way.
 - 3.1.6. MS board with display "Men at Work" (900 mm) & Arrow marking should be placed on the live carriageway in particular lane at least 500 m ahead of working place.
4. ISO 14001 and ISO 45001 Requirement

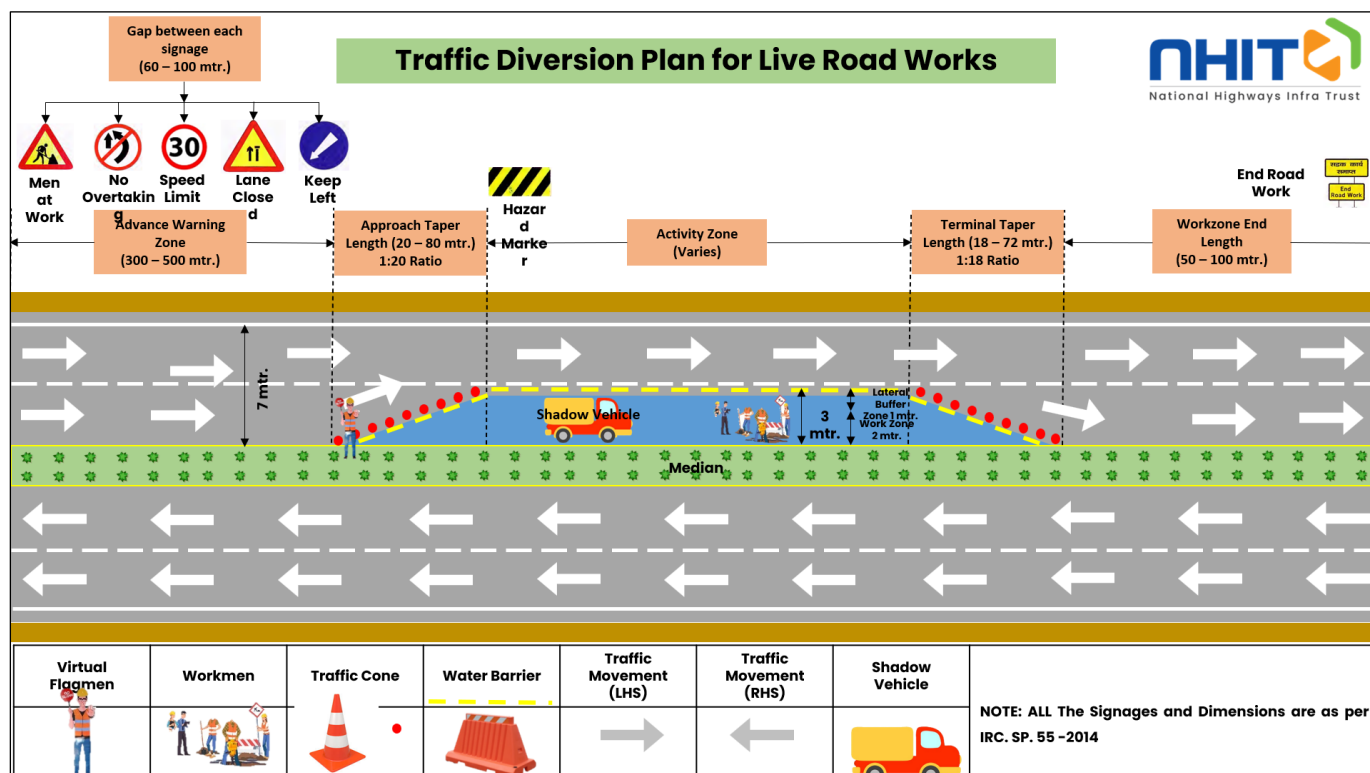
The Contractors and Agencies are encouraged to comply with the requirements of ISO 14001 and ISO 45001.

5. Environment

General – The Contractor/Agency shall be responsible for the storage and disposal of any waste generated as a result of its operations and comply with the respective state / central pollution control board regulations.

Routine maintenance/Initial improvement works – The Contractor/Agency shall obtain Consent to Establish (CTE) and Consent to Operate (CTO) at its own cost and expenses from the respective State Pollution Control Board and comply with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

Annexture - figure (a)



Standard Operating Procedure

“Safety Measures for Working on Live Road”

(Procedure No. EHS/SOP/031 / R1)

1. INTRODUCTION

The Standard Operating Procedure (“SOP”) shall form minimum standards to be achieved to mitigate the risk/ impact involved in the road diversion and O&M operations across all project sites.

2. SCOPE

This SOP – ‘Safety Measures for Working on Live Road’ is applicable to National Highways Infra Trust (“NHIT”) applicable entity (ies) means the legal entity (ies), under the Trust, which holds the Concession (s) granted by the Authority and includes all such asset (s) forming part of the Concession.

3. APPLICABILITY

The SOP is applicable for all the activities to be performed on live road including service road. i.e. – Routine maintenance, Initial Improvement work and any other non-routine activity on live road.

4. PURPOSE

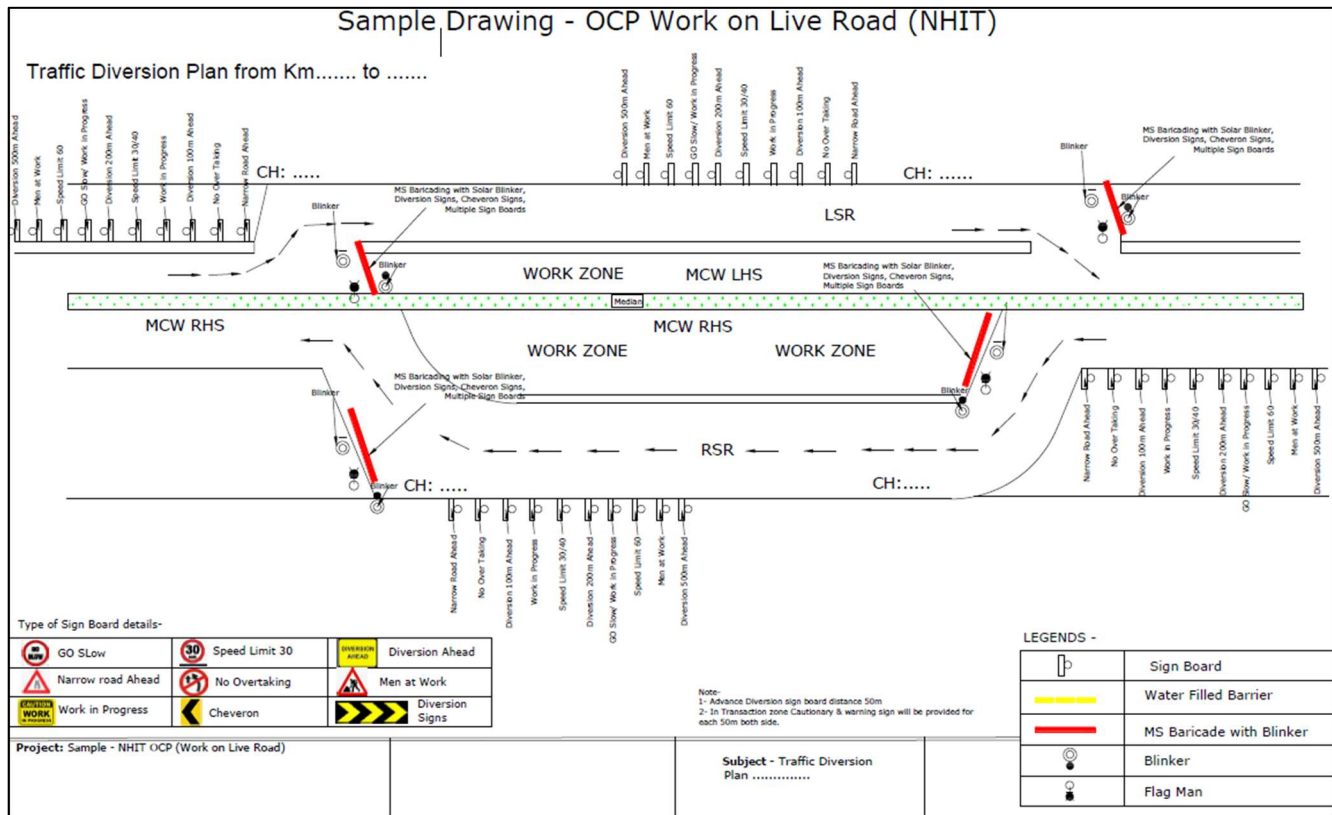
The purpose of the SOP is to minimize the hazards and risks in traffic diversion and smoothness of traffic on the National Highways in O&M and improvement works.

5. REFERENCE

- a.** IRC: SP: 55 -2014- Guidelines on Traffic Management in Work Zones.
- b.** IRC: 35 – 2015 Code of Practice for Road Markings
- c.** IRC 67: 2022 Code of Practice for Road Signs
- d.** IRC: SP: 84-2019- Manual of Specifications and Standards for Four Laning of Highways
- e.** The Building and Other Construction Workers’(Regulation of Employment and conditions of service) Act, 1996
- f.** Motor Vehicle Act,1948

6. TRAFFIC DIVERSION PLAN AND PROCESSES:

Requirement Of Diversion and Barricading for Working on Live Road: Prior to starting the works, a traffic diversion plan confirming IRC SP 35: 1997, IRC SP 55: 2014 and IRC SP 67: 2022 shall be prepared & followed once approved. Sketch of a diversion plan as sample given below.



6.1 Before Start of Work or during execution:

The respective contractor is responsible for preparing the Traffic Management Plan (TMP). The Maintenance Team (Manager/Engineer – NHIT) is responsible for ensuring that the TMP is prepared and implemented as specified in the guidelines, with all sign boards and barricades.

- a. The plan must be approved by the respective authority or independent engineer, as applicable. In case of non-compliances, the plan must be revised and resubmitted for approval.
- b. Once approval is received, the plan must be implemented on the ground, and work can then be started accordingly.
- c. During Execution, the traffic management arrangements must be checked on the ground as per the IRC SP 35: 2015, IRC SP 55: 2014, and IRC SP 67: 2022.

6.2 Partially Completed Section:

- a. In the case of staged construction scenario, partially completed sections are opened for traffic operations. Ensure the TMPs must be prepared before opening the section for traffic to indicate temporary markings and temporary signage.
- b. Channelizing safety devices (Rope light, Blinkers) shall be placed for identification of path in the nighttime.

7. ROAD DIVERSION

7.1 Diversion extending beyond the shift / days

7.1.1 Full Lane closure for Road Work

The following safety guidelines to be followed while providing road diversion:

- a.** Diversions should be done as per the specifications mentioned in the approved plan.
- b.** Diversion pavements should be in good condition with no potholes. Rectify any damaged road or potholes. Ensure the shoulder of the service road is in proper condition to cater to the MCW traffic.
- c.** Diversion boards should be aligned with no gaps and managed nicely for better presentation.
- d.** A minimum of two diversion boards with blinkers and retro-reflective tape should be provided at every exit.
- e.** Blinkers must be provided at exit and entry points.
- f.** Traffic channelizing devices such as spring delineators and bollards with three rows of reflectors should be provided at merging, demerging, and along the diversion road.
- g.** Thermoplastic marking with road studs should be applied along the diversion and transverse bar markings before the diversion point.
- h.** All advanced signboards must be installed as per IRC SP 67: 2022.
- i.** Provide barricade boards (Type IV), water barricades, and NJ barriers, etc.
- j.** Reflective tape, chevron boards, flashlights, rope lights, etc., should be provided to warn commuters during nighttime.
- k.** To facilitate easy traffic flow, the time limit for diverting MCW traffic to a service road must be kept to a minimum.
- l.** Adequate lighting arrangements should be provided on the service road used as a diversion.
- m.** Ensure flagmen (virtual) are provided at both ends of the diversion and at traffic congestion spots in the market.
- n.** Entry and exit points must be situated at a 45-degree angle to facilitate lane changes in traffic.

Actual photos of Road Diversions are as below for reference:



Road Diversion in Day Time



Road Diversion in the night

Partial Diversion for Road Work:

The following guidelines are to be followed for allowing work on the main carriageway (MCW) for short durations:

- The lane should be closed by an MS board 500 meters ahead of the work location.
- Blinker or LED chevron lights should be provided.
- A red flag and virtual flagman should be displayed.
- Traffic cones shall be spaced at 5-meter intervals, with one or two layers of cones* provided in the work zone. The distance between the inner and outer layers of the cones should be 1.2 meters. The outer layer cones should be connected with nylon rope or plastic chain to provide a visible deterrent.
- A signboard (Men at Work) should be displayed to caution commuters at a sufficient distance.
- All signboards shall comply with IRC SP 67: 2022 regulations and IRC SP 55: 2014.

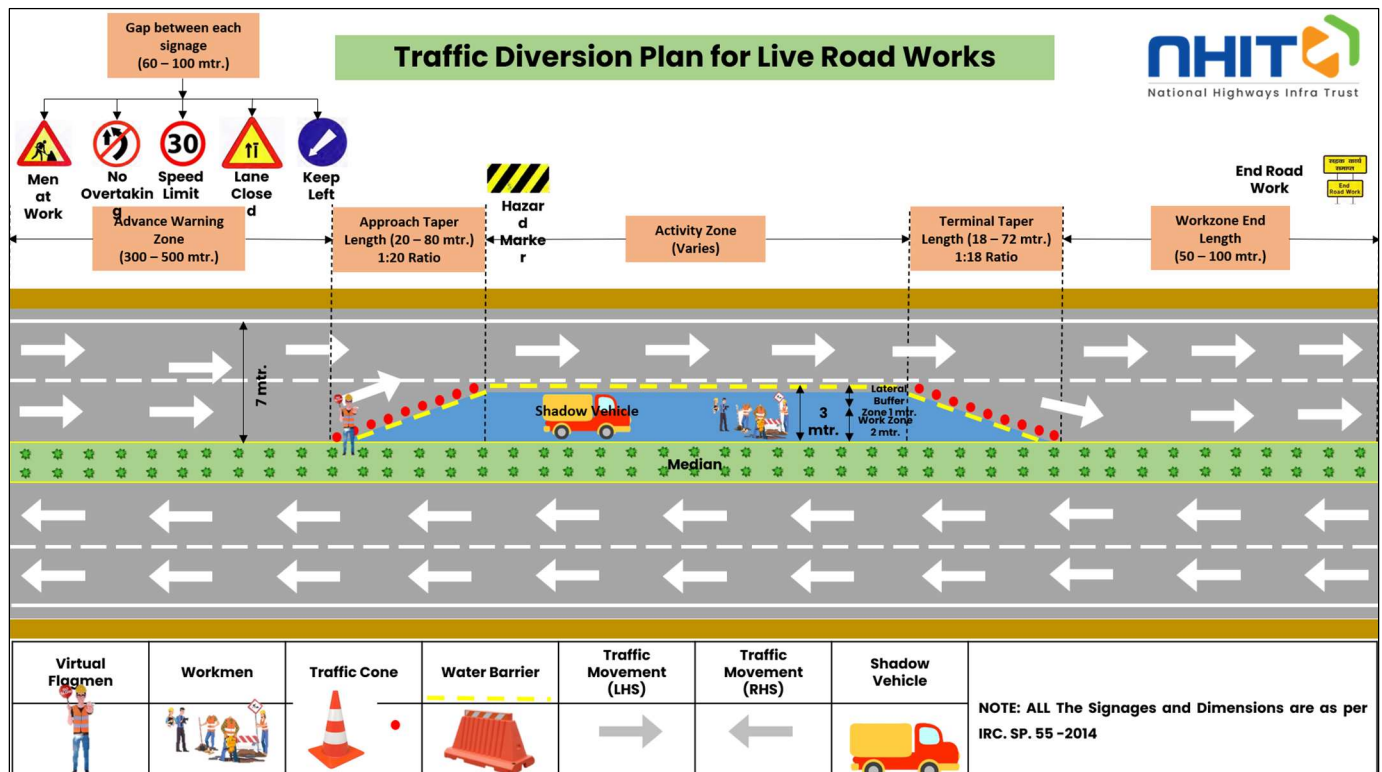
7.2 Diversion maximum extending up to the day shift – Barricading Requirements for O&M Works:

(RRM & any Non routine activity on Live Road including Service Road)

A robust barricading plan must be maintained to ensure the safety of all site workmen, staff, and commuters. The barricading requirements for O&M works on the MCW must strictly adhere to the specifications outlined in the diagram below. If these requirements are not met, the work must not be started.

Construction and Deconstruction of Work Zone

- A mechanism shall be put in place to protect workmen on the live carriageway during the construction and deconstruction of the work zone.
- Portable VMS boards should be installed in work zones and for traffic diversions at critical locations.
- Hazard markings and cautionary blinker boards/reflectors should be installed on all vehicles and tractor trolleys hired through subcontractors.



The following safety guidelines must be implemented for O&M works:

- a. Provide an MS board with "Arrow marking & Work in progress" display 100 meters ahead of approach zone.
- b. Ensure to provide LED chevron or blinker in case of **fog or when working during inadequate illumination**.
- c. Display signboards such as "**Go Slow**" and "**Speed Limit**" as per the above plan.
- d. Deploy a flagman with red and green flags and a whistle or place a virtual flagman for better visibility and a risk-free approach.
- e. Provide safety arrangements as per the above plan. No work shall be allowed until the arrangement is reviewed by the maintenance in-charge/engineer and approved Permit to Work.
- f. Contractor safety induction must be completed before engaging them in O&M-related work.
- g. The site manager/engineer must evaluate site hazards and risks before planning any type of O&M-related activities on the live road, along with work zone construction and deconstruction precautionary measures.
- h. Unauthorized access should be closed wherever it is opened or used by surrounding people.
- i. Vehicles should be parked with the carriage body facing towards the entrance of the vehicle.
- j. Work shall be executed only when there is dedicated supervision.
- k. Contractors should ensure sufficient manpower to provide safety arrangements on the live carriageway.
- l. In case of road curvature, an MS board with "Men at Work" and arrow markings should be placed on the live carriageway in the lane 500 meters ahead of the working place.
- m. For any work at height, ladders and full-body harnesses should be used by the workmen.
- n. No one should cross the road while talking on the phone and accompanied by supervisor.
- o. Ensure all workers and employees are wearing PPEs at the workplace.
- p. No one should take a rest or sleep in the vicinity of any vehicle at the site.
- q. Contractors should be engaged at the site based on their acceptance of the above safety arrangements as per IRC & NHIT SOP requirements.

8. TRAINING & AWARENESS:

Training & Awareness must be conducted to all front-line supervisors & workers for making safe diversions as per approved specifications. It must be included in regular TBTs.

9. RECORDS:

Hard copy (Duly filled & signed by maintenance team) of surrendered permit, checklist and other forms & format to be retained & maintained by EHS site EHS department. (Retention period – 4 Months.)

10. NOTE:

- a. Tractor-driven water tankers shall not be used for watering median plants or for any other purpose.
- b. Old-generation Hydra cranes shall not be used or engaged for any lifting operations, including incident management works.
- c. Under no circumstances shall manpower be lifted inside a makeshift man basket.
- d. Manpower shall not be transported in a tractor trolley or any other transporting vehicle. The use of passenger vehicles must be ensured at all times.

Annexure B1 Bank Guarantee Template for Bid Security.

National Highways Infra Trust

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BANK GUARANTEE FORMAT FOR BID SECURITY

(To be stamped in accordance with Stamp Act if any, of the country of issuing bank)

Ref.: **Tender No.** _____, **dated** _____

Bank Guarantee:

Date:

WHEREAS _____ (Name of Bidder) (hereinafter called “the bidder”) has submitted his bid dated _____ (date) for the **Tender No.** _____, **dated** _____ (hereinafter called “the Bid”).

KNOW ALL MEN by these presents that We, _____ [Name of Bank] of _____ [Name of Country] having our registered office at _____ (hereinafter called “the Bank”) are bound unto _____ [Name of Client] (hereinafter called “the Client”) in the sum of Rs. _____ (Rupees _____ Lakhs Only) for which payment will and truly to be made to the said Client the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 202_

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws his Bid during the period of bid validity specified in the Bid document; or
2. If the Bidder does not accept the correction of arithmetical errors of his Bid Price in accordance with the Instructions to Bidder; or
3. If the Bidder having been notified of the acceptance of his Bid by the Client during the period of bid validity,
 - a. fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - b. fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders,

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

This Guarantee will remain in force up to and including the date 120 (one hundred and twenty) days after the deadline for submission of bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Client, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

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

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

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DATE _____

SIGNATURE OF THE BANK _____

SEAL OF THE BANK _____

SIGNATURE OF THE WITNESS _____

Name and Address of the Witness _____

The bank guarantee shall be issued by a bank (Nationalized/Scheduled) located in India

NOTE for Issuing Bank (Not to be included in the BG):-

1. *The stamp papers of appropriate value shall be purchased in the name of bank, who issues the "Bank Guarantee".*
2. *The bank guarantee shall be from a Nationalized Indian Bank or reputed foreign commercial Bank acceptable to client for Foreign Consultant with counter guarantee from Nationalized Bank. Bank guarantee furnished by Foreign consultant shall be confirmed by any Nationalized Bank in India.*
3. The bank guarantee(s) contain(s) the name, designation and Code number of the officer(s) signing the guarantee(s).
4. The address, telephone no. 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.
5. The bank guarantee for Rs. 10,000 and above is signed by at least two officials (or as per the norms prescribed by the RBI in this regard).
6. The Bank Guarantee shall be transmitted through SFMS gateway to our banker with following details:

S. No.	Particulars	Details
1	Name of Beneficiary	
2	Beneficiary Bank Account No.	
3	Beneficiary Bank Branch IFSC	
4	Swift Code (For foreign Applicants)	
5	Beneficiary Bank Branch Name	
6	Beneficiary Bank Address	

7. The confirmation with supporting details if any shall be specifically mentioned in the covering letter issued with the Bank Guarantee.

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Annexure B2 Performance Security Template.

National Highways Infra Trust

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Bank Guarantee for Performance Security/Additional Performance Security

To,
 NHIT Western/Eastern/Southern Projects Private Limited
 (Formerly National Highway Infra Projects Private Limited)
 G-5 & 6, Sector-10, Dwarka, New Delhi-110075

WHEREAS:

- (A) _____ [name and address of contractor] (hereinafter called the “**Contractor**”) and NHIT Western/Eastern/Southern Projects Private Limited, G-5 & 6, Sector-10, Dwarka, New Delhi-110075, (hereinafter called the “**Concessionaire**”) have entered into an agreement (hereinafter called the “**Agreement**”) for the [Name of Work], 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:

- 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 Concessionaire, 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 Concessionaire shall claim, without the Concessionaire being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.
- A letter from the Concessionaire, under the hand of an officer not below the rank of Head SPV in the NHIT Western/Eastern/Southern Projects Private Limited, 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 Concessionaire 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 Concessionaire 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.
- In order to give effect to this Guarantee, the Concessionaire shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Contractor and/or

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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 Concessionaire to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
5. The Concessionaire 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, fulfilment 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 Concessionaire 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 Concessionaire, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Concessionaire 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 Concessionaire 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 Concessionaire in respect of or relating to the Agreement or for the fulfilment, 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 Concessionaire on the Bank under this Guarantee all rights of the Concessionaire 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 ****\$. Unless a demand or claim under this Guarantee is made in writing before expiry of the Guarantee, the Bank shall be discharged from its liabilities hereunder.
9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Concessionaire 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 authorised 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

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of the Concessionaire 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 Concessionaire pursuant to the provisions of the Agreement.
12. 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.
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 NHIT Western/Eastern/Southern Projects Private Limited, details of which is as under:

S. No.	Particulars	Details
1.	Name of Beneficiary	NHIT Western/Eastern/Southern Projects Private Limited
2.	Name of Bank	State Bank of India
3.	Account No.	
4.	IFSC Code	SBIN0017313

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.

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Annexure B3 Bank Guarantee Template.

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Guarantee for Advance Payment

To,
NHIT Western/Eastern/Southern Projects Private Limited
(Formerly National Highway Infra Projects Private Limited)
G-5 & 6, Sector-10, Dwarka, New Delhi-110075

WHEREAS:

- (A)[name and address of contractor]
(hereinafter called the “**Contractor**”) has executed an agreement (hereinafter called the “**Agreement**”) with NHIT Western/Eastern/Southern Projects Private Limited, G-5 & 6, Sector-10, Dwarka, New Delhi-110075, (hereinafter called the “**Concessionaire**”) have entered into an agreement (hereinafter called the “**Agreement**”) for the [Name of Work], subject to and in accordance with the provisions of the Agreement
- (B) In accordance with Clause [.....] of the Agreement, the Concessionaire shall make to the Contractor an interest bearing [Specify Percentage] advance payment (herein after called “**Advance Payment**”) equal to []% ([] per cent) of the Contract Price; and that the Advance Payment shall be made in [] instalments subject to the Contractor furnishing an irrevocable and unconditional guarantee by a scheduled bank for an amount equivalent to 110% (one hundred and ten percent) of such instalment to remain effective till the complete and full repayment of the instalment of the Advance Payment as security for compliance with its obligations in accordance with the Agreement. The amount of {first/second} installment of the Advance Payment is Rs. ----- cr. (Rupees ----- crore) and the amount of this Guarantee is 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**”*) for the Guarantee Amount.

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 repayment on time of the aforesaid instalment of the Advance Payment under and in accordance with the Agreement, and agrees and undertakes to pay to the **Concessionaire**, 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 **Concessionaire** shall claim, without the **Concessionaire** 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 Concessionaire, under the hand of an officer not below the rank of Head SPV in the NHIT Western/Eastern/Southern Projects Private Limited, that the Contractor has committed default in the due and faithful performance of all or any of its obligations for the

[§] The Guarantee Amount should be equivalent to _____% of the value of the applicable instalment.

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repayment of the instalment of the Advance Payment under and in accordance with the Agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that the Concessionaire 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 Concessionaire 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 Concessionaire 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 Concessionaire to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
5. The Concessionaire 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 Advance Payment or to extend the time or period of its repayment or to postpone for any time, and from time to time, any of the rights and powers exercisable by the Concessionaire 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 Concessionaire, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Concessionaire 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 Concessionaire 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 Concessionaire in respect of or relating to the Advance Payment.
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 Concessionaire on the Bank under this Guarantee all rights of the Concessionaire 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 ****. Unless a demand or claim under this Guarantee is made in writing on or before the aforesaid date, the Bank shall be discharged from its liabilities hereunder.
9. The Bank undertakes not to revoke this Guarantee during its currency, except with the

[§] Insert a date being _____ days after the end of one year from the date of payment of the Advance payment to the Contractor (in accordance with Clause ____ of the Agreement).

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previous express consent of the Concessionaire 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 authorised 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 Concessionaire 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 up to the date specified in paragraph 8 above or until it is released earlier by the Concessionaire pursuant to the provisions of the Agreement.
12. 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.
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 NHIT Western/Eastern/Southern Projects Private Limited, details of which is as under:

S. No.	Particulars	Details
1.	Name of Beneficiary	NHIT Western/Eastern/Southern Projects Private Limited
2.	Name of Bank	State Bank of India
3.	Account No.	
4.	IFSC Code	SBIN0017313

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:

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- (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.
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Annexure C1

Contract Data Sheet

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Contract Data Sheet

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Contract Data Sheet (CDS)

This Contract Data Sheet (CDS) provides project-specific details as referenced in the Request for Proposal (RFP) for repair and rehabilitation works and General Conditions of Contract.

1. Employer and Contractor – Contact Information

1.1. Employer (Client) Contact Details

Detail	Information
Name of Employer	NHIT Eastern Projects Private Limited
Office Address	Unit no. 3243rd Floor, D21 – Corporate Park, Sector-21, Dwarka –110077, Delhi
Official Contact Person	Sandeep Khosa, GM Procurement
Phone Number	011 49253927
Email ID	tender@nhit.co.in
Employer's Representative (if applicable)	N.A.

1.2. Contractor Contact Details (As per RFP Clause 1.4)

Detail	Information
Name of Contractor	
Office Address	
Authorized Representative	
Phone Number	
Email ID	
If JV/Consortium:	

2. Bid Invitation & Contract Overview (As per RFP Clause 1.1 & 1.2 of RFP; GCC Clause 2)

2.1. Project Title (Clause 4 of RFP)

Request for Proposal (“RFP”) issued by NHIT Eastern Projects Private Limited (NEPPL) for Engagement of Agency/Firm for Rigid Pavement Repair & Rehabilitation work for Rewa Katni Jabalpur Lakhnadon Road Project (RKJL) in the state of Madhya Pradesh.

2.2. Scope of Work (Brief Overview) (Clause 4.1 of RFP & Annexure [C2] of RFP)

As per attached Annexure C2

2.3. Contract Type & Payment Terms (GCC Clause 14; RFP Clause 2.2.14)

The contract shall be awarded on Item Rate basis. The payment structure shall follow the provisions outlined in the RFP and GCC, as detailed below:

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Payment Component	Details
Advance Payment	Not Applicable.
Mobilization Advance Recovery	Not Applicable
Interim / Milestone Payments	Payments shall be made as per certified progress of work , subject to deductions for advance recovery, retention money, and statutory taxes.
Retention Money	[06] % deduction from each bill, Subject to up to a maximum of 5% of the contract value. Refundable within 30 days from the end date of DLP or on submission of equal amount Bank Guarantee.
Deductions & Recoveries	Deductions shall include statutory taxes, liquidated damages (if any), and advance recovery as per contract terms.
Price Adjustments (if applicable)	Adjustments for inflation, material cost variations, or statutory changes as per the agreed formula.
Performance Security	[05] % of Contract Value, submitted as BG or FDR , valid until 30 days from the end of the Defect Liability Period (DLP).
Final Payment	Released upon successful completion, certification, and compliance with contract conditions.
Defect Liability Period (DLP) Payment	Any withheld amounts for DLP shall be released after 30 days of rectification of defects within the specified period.
Bank Guarantees (BGs) & Validity	All BGs must be valid for [13] months from the date of submission or as per contract conditions.
Website	www.nhit.co.in

Note: NHIT shall be responsible for contract administration, ensuring compliance with the terms and conditions of the RFP and GCC, and overseeing project execution.

2.4. Bid Reference & Contract Number

The contract shall be identified by the following references:

Description	Reference
Bid Reference Number	NEPL/FY25-26/RFP/Pavement Repair & Rehabilitation 01 – RKJL
Contract Number	N.A.
Project Code (if applicable)	N.A.
Package Number (if applicable)	N. A.

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2.5. Key Dates & Milestones (Clause 1.2 of RFP)

Event Description	Date & Time	Location / Mode (Online/Offline)
Invitation of RFP	28.07.2025	NHIT Office/Offline
Last Date for Receiving Queries / Clarifications	03.08.2025	Online
Pre-Bid Meeting Date	N.A.	N.A.
Pre-Bid Meeting Venue	N.A.	N.A.
Client's Response to Queries / Clarifications	05.08.2025	Online
Last Date of Bid Submission	11.08.2025, 17:00 Hrs	NHIT Office/Offline
Submission of Bid Security & Mandatory Documents	Along with Bid documents	NHIT Office/Offline
Opening of Technical Bid	11.08.2025, 18:00 Hrs	NHIT Office & Online
Declaration of Eligible / Qualified Bidders	To be intimated later	Online
Opening of Financial Bid	To be intimated later	NHIT Office & Online
Letter of Award (LOA)	To be intimated later	Online
Bid Validity Period	120 Days from Submission Date, as per RFP	----
Signing of Agreement	To be intimated later	NHIT Office & Online

Note: Dates are indicative and subject to change via addendum.

3. Time and Performance Obligations

3.1. Commencement and Completion Dates:

(RFP Clause 4; Annexure [C2] of RFP – Scope of Work; Clause 3 of GCC)

Description	Details
Commencement Date	Within 10 days of LoA/WO – The date on which the contract becomes effective, following the issuance of the Letter of Acceptance (LoA) and fulfilment of pre-commencement conditions by the contractor.
Conditions for Commencement	- Submission and approval of Performance Security. - Submission and approval of Insurance Policies as per contract. - Mobilization of key personnel and equipment as per the approved deployment plan. - Submission and approval of the Detailed Work Program.
Completion Date	Within 150 days from Commencement date

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Milestones / Key Project Dates	The contractor shall adhere to the milestone schedule outlined in the contract. Failure to meet key milestones may result in penalties or liquidated damages as per the contract.
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3.2. Contract Duration

(RFP Clause 4; Annexure [C2] of RFP – Scope of Work; Clause 3 of GCC)

Description	Details
Total Contract Duration	150 days from the Commencement Date .
Construction / Execution Period	150 days.
Defects Liability Period	12 Months after the issuance of the Completion Certificate.
Extension of Time (EOT) Conditions	The contractor may apply for an EOT in case of force majeure, employer delays, or other justifiable reasons as per contract provisions. Approval of an EOT is subject to the Engineer's review and Employer's approval.
Penalty for Delay	If the contractor fails to complete the works within the stipulated duration, liquidated damages (LD) shall be levied as per contract terms.

3.3. Defects Liability Period (Ref: GCC Clause 29)

Description	Details
Defects Liability Period (DLP) Duration	(12 months) from the issuance of the Completion Certificate.
Scope of Contractor's Obligations	- Rectification of any defects, deficiencies, or failures occurring during the DLP. - Conducting necessary inspections and maintenance to ensure the durability of the work. - Responding to defect notifications within the stipulated timeframe.
Response Time for Rectifications	Minor defects – 05 Days Major defects – 10 Days Critical defects affecting safety – Immediate action required
Retention Money / Security Release	06] % deduction from each bill, Subject to up to a maximum of 5% of the contract value. Refundable within 30 days from the end date of DLP or on submission of equal amount Bank Guarantee.
Failure to Rectify Defects	If the contractor fails to rectify defects within the stipulated time, the Employer may engage a third party to perform the necessary rectifications at the contractor's cost , deducted from retention money or performance security.

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3.4. Substantial Completion: (Ref. GCC Clause 23)

Description	Details
Definition of Substantial Completion	The stage when the Works, as per the Contract, are completed except for minor pending works or defects that do not materially affect the intended use of the project.
Conditions for Substantial Completion Certification	- All major works are completed as per the approved drawings and specifications. - The project is functional and fit for its intended purpose. - Testing & commissioning (if applicable) is successfully conducted. - Safety and operational compliance are ensured. - Any pending minor rectifications or works do not hinder functionality.
Issuance of Substantial Completion Certificate (SCC)	Upon fulfilment of the above conditions, the Engineer/Employer shall issue the Substantial Completion Certificate , marking the transition to the Defects Liability Period (DLP).
Responsibility of the Contractor Post-Substantial Completion	- Rectification of minor pending works within the specified timeframe. - Adhering to defect rectification obligations during the DLP. - Handover of As-Built Drawings, O&M Manuals, and other necessary documents.
Final Acceptance and Completion Certification	The Final Completion Certificate shall be issued after the Defects Liability Period, provided all outstanding issues are resolved to the Employer's satisfaction.

This section is structured **in accordance with GCC Clause 23** and provides a clear framework for determining substantial completion.

4. Instructions to Bidders (ITB)

4.1. Definitions & Interpretations (Ref: RFP Clause 2.1)

All terms shall have the meanings assigned to them as per the **Request for Proposal (RFP)** and **General Conditions of Contract (GCC)**. In case of any inconsistency, the order of precedence shall be as defined in the contract documents.

4.2. Earnest Money Deposit (EMD) (Ref: RFP Clause 2.4.1)

EMD Details	Description
EMD Amount	₹ 5,16,000
Mode of Submission	Demand Draft
Validity of EMD	90 days.
Refund Timeline for Unsuccessful Bidders	Within [30] days of bid finalization.

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Forfeiture Conditions	- Withdrawal or modification of bid during validity period. - Failure to sign the contract or submit performance security within the stipulated time.
Exemptions (if applicable)	N.A.

4.3. Electronic Submission (If Applicable) (Ref: RFP Clause 2.3.2.8)

Description	Details
URL for Bid Submission	https://mt.tyasuite.com/#/login?public_reg=0aaf37e9251457250bffd3a42962adec3e4c963c4fe62f3674b56a05bb61abd8c49036f1cb243563de6e29889c0d918c288b026c0e10cea049e1e4dc9749c6feUOI SboLsfcgxttbBmGfGMhZvfgE3cql/o12st2oxgnx9O8hIWpxoNkcD6O AQRqDpwnLGgoGC34NZq47bHc3Mj79iZNpeShehqListmrlSSBVm Fz8RMdiumQwmwwwKSdr7utITpQ1NKZc1wvfJFsSwo4QbTWW2ho NoDHIWsDKcMeZ3M5jR2V2qdYcl+9hUUcEC
Bid Submission Deadline	As above clause 2.5
Digital Signature Requirement	Not Applicable
Special Instructions to Bidders	Bidders are required to submit their technical and financial bids in both physical and online formats.
Process of Online Submission	Attached herewith as Annexure C10

5. Eligibility & Qualification Criteria

5.1. Financial Eligibility (Ref: RFP Clause 3.4.1, 3.6.1 & Clause 12.1)

Criteria	Requirement	Reference
Minimum Cumulative Turnover in last 3 Years	₹ 3,00,00,000	Ref: RFP Clause 3.4.1
Net Worth Requirement	₹ Should be Positive	Ref: RFP Clause 3.6.1
Solvency Certificate (if applicable)	Not Applicable	Ref: RFP Clause 3.6.1
Financial Data Submission Format	As per Clause 12.1	Ref: RFP Clause 12.1

5.2. Work Experience (Ref: RFP Clause 3 & Clause 12.2)

Criteria	Requirement	Reference
Executed Work Value Requirement	Cumulative ₹ 3,00,00,000 in last 03 years	Ref: RFP Clause 3.2.3
Similar Experience	Minimum 3 Years	Ref: RFP Clause 3.4.1
Civil Works Experience	Minimum 3 Years	Ref: RFP Clause 3.3.3

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Electrical Works Experience	N.A.	Ref: RFP Clause 3.3.4
Ongoing Projects (if required)	As per RFP Clause 2.2.7.3 & 12.2	Ref: RFP Clause 2.2.7.3; 12.2
Work Experience Data Submission Format	As per Clause 12.2	Ref: RFP Clause 12.2

5.3. Joint Venture or Consortium – Not Allowed (For RFP Clause 2.2.1).

6. Project Information (Ref: RFP Clause 4)

6.1. Time for Completion & Key Dates (Ref: GCC Clause 3.1 & Clause 4; RFP Annexure [C2])

The Contractor shall commence the work within the stipulated time as per the Letter of Acceptance (LoA) and shall ensure completion within the contract duration specified below.

Particulars	Details
Date of Commencement	Within 10 days of LoA/WO
Contract Duration	[150] Days from the commencement date
Scheduled Date of Completion	Within 150 days from Commencement date

6.2. Milestones & Performance Benchmarks (RFP Clause 4; Annexure [C2])

The Contractor shall achieve the following key milestones within the stipulated timeline:

Milestone No.	Description	Timeline from Start Date
Milestone 1	Not Applicable	Not Applicable
Milestone 2	Not Applicable	Not Applicable
Milestone 3	Not Applicable	Not Applicable

Failure to meet these milestones shall be subject to penalties or liquidated damages, as per Clause 30 of GCC.

6.3. Project Scope (Ref: RFP Clause 4; Annexure [C2])

As per attached annexure C2

6.4. Project Location & Length (Ref: RFP Clause 4.2.4; Annexure [C4])

Description	Details
Project Name	Rewa Katni Jabalpur Lakhnadon Road Project (RKJL) in the state of Madhya Pradesh.
Highway Stretch	RKJL

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Chainage	Refer Annexure C4
Total Length	Refer Annexure C4
State/Region	Madhya Pradesh

6.5. Technical Specifications & Standards (Ref: RFP Clause 11.4.2, Section 6.3, Annexure [C7])

The works shall conform to the following applicable standards:

- i. **Relevant MoRTH Specifications for Road & Bridge Works**
- ii. **Relevant IRC (Indian Roads Congress) Codes & Guidelines**
- iii. **Relevant Indian Standard (IS) Codes**
- iv. **Employer's Requirements as specified in the RFP**

7. Financial Proposal (Ref: RFP Clause 9)

7.1. Payment Schedule (Ref: RFP Clause 9.2 & GCC Clause 14)

The Contractor shall be paid as per the approved payment schedule, ensuring compliance with contractual obligations and performance benchmarks.

Particulars	Details
Milestone-Based Payments	[No]
Bill of Quantities-Based Payment	[Yes]
Advance Payment (if applicable)	Not Applicable.
Retention Money (Ref: GCC Clause 14.5)	06] % deduction from each bill, Subject to up to a maximum of 5% of the contract value. Refundable within 30 days from the end date of DLP or on submission of equal amount Bank Guarantee.
Interim Payment Certificates (IPCs)	Issued upon verification of completed work as per BoQ (monthly)
Final Payment	Released after successful completion and final acceptance of works
Deductions (if any)	Includes retention, penalties, or adjustments for non-conformance
GST Payable Extra	[Yes]
Mode of Payment	[NEFT / RTGS]
Payment Processing Time	Payments shall be processed within [45] days from submission of verified invoice
Taxes & Duties (excluding GST)	As applicable, to be deducted at source (TDS, etc.)
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7.2. Bills of Quantities (BoQ) (Ref: RFP Clause 9.3)

Measurement and payment shall be made strictly as per the approved **Bill of Quantities (BoQ)** and contractual provisions.

Particulars	Details
Measurement & Payment Terms	As per BoQ
Verification Process	Joint measurement by Engineer & Contractor before certification
Variation in Quantities	Subject to approval and rate adjustments as per contract

8. Performance & Security Documents (Ref: RFP Clause 10.1 & 10.2)

8.1. Performance Security (Ref: GCC Clause 33 & RFP Clause 10.1)

The Contractor shall submit a **Performance Security** as per the details below:

Particulars	Details
Performance Security Amount	05 % of contract Value
Mode of Submission	Bank Guarantee (BG)
Validity Period	[13] months from the Commencement of Defect Liability Period (DLP)
Issuing Bank Criteria	Scheduled Commercial Bank as per RFP guidelines
Invocation Conditions	Upon default, non-performance, or contract termination

8.2. Advance Payment Security (Ref: RFP Clause 10.2)

If an **Advance Payment** is applicable, the Contractor shall provide a **Bank Guarantee (ABG)** as security for the same:

Particulars	Details
Advance Bank Guarantee (ABG) Amount	Equal to the Advance Payment sanctioned if payable in this RFP.
Format for Bank Guarantee	As per Annexure [B3]
Validity Period	Until full adjustment of advance
Adjustment Mechanism	Deduction from Interim Payments as per the agreed recovery schedule
Bank Guarantee Issuing Authority	Nationalized/Scheduled Commercial Bank

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9. Payments, Financials, and Security

9.1. Insurance Requirements (Ref: GCC Clause 12)

The Contractor shall procure and maintain the following insurances during the contract period:

- i. **Contractor's All-Risk Insurance** covering loss or damage to works, plant, and materials.
- ii. **Public Liability Insurance** covering third-party claims due to contractor's operations.
- iii. **Worker's Compensation Insurance** as per applicable labor laws.
- iv. **Any other insurance required as per Employer's requirements.**

9.2. Currency of Payment (Ref: RFP Clause 2.2.14.3)

All payments shall be made in INR, as per contract terms.

9.3. Total Contract Price (RFP Clause 2.1; 2.3)

Total Contract Value	N.A.
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- i. The contract price is inclusive/exclusive of applicable taxes and duties, as defined in the Agreement.
- ii. **GST shall be payable extra, as applicable.**

9.4. Liquidated Damages for Delay (Ref: GCC Clause 30)

- i. If the Contractor fails to achieve completion within the stipulated time, **liquidated damages (LD)** shall be levied at **0.5% of contract value per day of delay**, subject to a maximum of **[05]** % of the contract price.
- ii. Delay beyond the maximum LD cap shall be liable for further penalties or contract termination, as per Employer's discretion.
- iii. In the event of non-payment of liquidated damages as stipulated herein, the Employer shall be entitled to levy an interest @18% till dated of realization of liquidated damages, the said sum shall be payable by sole fact of the delay without the need for any previous notice or any legal proceedings, of proof of damages, which shall in all cases be considered as ascertained. The Employer may, without prejudice to any other method of recovery, deduct the amount of such liquidated damages from any moneys in its hand due for payment to the contractor. The payment of deduction of such damages shall not relieve the contractor of its obligation to complete the work or form any other of its obligations and liabilities under the contract.

10. Supplementary Information for Bidders

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Particulars	Details	Reference Clause
Clarifications Issued After Pre-Bid	Any amendments or clarifications post pre-bid meeting will be officially communicated through an addendum.	RFP Clause 11.5 & 2.5
Addendums & Corrigenda	Any modifications to the RFP will be issued through formal addenda. Bidders must regularly check the employer's website/portal.	RFP Clause 11.6
Bidder's Responsibility for Site Conditions	Bidders must examine site conditions before submission. No claims due to lack of site awareness will be entertained.	RFP Clause 2.2.21.4.
Bid Withdrawal & Modification Rules	Conditions under which bidders may withdraw or modify their bids before the submission deadline.	RFP Clause 2.3.2.5.
Confidentiality & non-disclosure	Bidders must not disclose any project-related confidential information. Breach may lead to disqualification.	RFP Clause 2.2.18; 15; GCC Clause 32; 36.3
Disqualification Criteria	Grounds for bid rejection (e.g., non-compliance, blacklisting, fraudulent practices).	RFP Clause 3.8

11. Abstract of Relevant Contractual Information

Item No.	Description	Details	GCC Clause
Dispute Resolution and Governing Law			
1	Dispute Resolution Mechanism	Process for resolving disputes (e.g., Arbitration, Mediation).	GCC 18
2	Governing Law	Jurisdiction and applicable laws governing the contract.	GCC 17
Force Majeure and Termination			
3	Force Majeure Clause	Conditions under which force majeure applies and the process for notifying.	GCC 19
4	Termination Clauses	Conditions under which the contract can be terminated by either party.	GCC 20
Health, Safety, Environment, and Quality Management			
5	Health, Safety, and Environmental Management	Contractor's responsibilities regarding health, safety, and environmental protection.	GCC 11
6	Quality Management	Quality control measures, adherence to standards, and quality certifications required.	GCC 8
Contractor's Obligations			
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Item No.	Description	Details	GCC Clause
7	Contractor's Obligations	Contractor's primary responsibilities including timelines, material standards, and compliance.	GCC 4
8	Contractor's Personnel	Details of the required personnel qualifications and roles.	GCC 5
Subcontracting, Risk, and Documentation			
9	Subcontracting and Assignment	Conditions under which the contractor may subcontract or assign parts of the contract.	GCC 6
10	Risk Management	Contractor's obligations for identifying, monitoring, and mitigating risks.	GCC 7
11	Project Documentation and Reporting	Reporting requirements, documentation submission during project progress.	GCC 27
12	Change Management	Procedures for changes in project scope, cost, or time.	GCC 16
Warranties and Maintenance			
13	Warranties and Guarantees	Warranties regarding the quality and performance of work/ materials.	GCC 24
14	Maintenance and Performance Standards	Specific maintenance standards and performance benchmarks.	GCC 28
Performance Monitoring, Reporting, and Penalties			
15	Performance Monitoring and Reporting	Requirements for monitoring contractor performance and reporting during execution.	GCC 15
16	Performance Penalties	Mechanisms for imposing penalties for underperformance.	GCC 15
Intellectual Property			
17	Intellectual Property Rights	Ownership and use of designs, deliverables, or documents created during the project.	GCC 36.3
Miscellaneous Provisions			
18	Compliance with Local Laws & Regulations	Contractor shall comply with labor laws, environmental regulations, and tax obligations.	GCC 4; 13; 17
19	Language of Communication	All official communication, reports, and documents shall be in English.	GCC 31.5
20	Amendments & Modifications	Any modifications to the contract must be agreed upon in writing by both parties.	GCC 16
21	Contractor's Obligations in Case of Termination	Responsibilities in case of contract termination, including project handover.	GCC 3.4; 20

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12. Project-Specific Annexures (*Ref: RFP Clause 18*)

The list of project-specific annexures, along with their respective formats and requirements, is detailed in RFP Clause 18 “List of Annexures”. Bidders shall refer to Clause 18 (List of Annexures) for complete details and ensure compliance with the submission requirements.

Annexure C2

Scope of Works.

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Request for Proposal (“RFP”) issued by NHIT Eastern Projects Private Limited (NEPPL) for Engagement of Agency/Firm for Pavement Repair & Rehabilitation work for Rewa Katni Jabalpur Lakhnadon Road Project (RKJL) in the state of Madhya Pradesh.

The detailed scope shall be as per **Annexure C3**, however rate shall include all costs associated with labor, material, machinery, Excavation, transporting, placing, Panting, curing, sampling, testing, and incidental works. Shuttering costs, where required, are also deemed included in the rate. The work shall be executed with due diligence, adhering to environmental and safety measures, and ensuring compliance with the project’s specifications and MoRTH standards.

All costs towards transport, handling, hoisting, storage, watch and ward for all the materials procured for use in the Works, including all the equipment, labour, machinery, tools and tackles required for the Works and other Works related to horticulture as per needs from time to time shall be included in the Quoted Price and no extra claim on account of these charges will be entertained.

RKJL PROJECT

Annexure C3 -BILL OF QUANTITIES(BOQ)- Rigid Pavement Repair Pkg- 1,2,4 & JL

S.No	Item Description	Unit	Quantity	Rate	Amount (Rs.)	Remarks
1	Dismantling of pavement quality concrete (PQC) in existing panels, ensuring minimal disturbance to adjoining panels by using precision equipment such as jackhammers, handheld concrete saws, or low-impact concrete splitters. The PQC must be broken into small pieces, sized appropriately for ease of handling and transport, with pieces suitable for potential reuse in debris filling applications at approved locations. All dismantled material shall be loaded, transported, and disposed of within a lead of 1 km from the worksite. Any serviceable materials such as embedded steel bars encountered during the dismantling shall be carefully removed, cleaned, and stacked separately for potential reuse or disposal as directed by the Engineer-in-Charge. The rate includes the cost of all labor, equipment, transportation, stacking, and any incidental works. Cost Inclusions: The final price covers all expenses for equipment usage, labor, transportation up to the specified lead distance, material handling, and stacking of serviceable steel, as well as any incidental costs. Relevant Specifications: This work should comply with relevant MoRTH and IRC standards for dismantling and debris management to ensure safety and efficient waste handling practices.	Cum	7665.62			
2	Dry Lean Cement Concrete Sub- base (Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.)	Cum	2269.01			
3	Cement Concrete Pavement (Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver or Manual spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, , admixtures as approved, curing compound, finishing to lines and grades as per drawing)	Cum	5566.70			
	Add extra in Item No.6.3, 6.4, 6.6 & 6.10 above for the cost of steel in dowel bar and tie rod including craddle, laps etc. complete required as per design.					

Annexure C3 -BILL OF QUANTITIES(BOQ)- Rigid Pavement Repair Pkg- 1,2,4 & JL

S.No	Item Description	Unit	Quantity	Rate	Amount (Rs.)	Remarks
4	Dowel Bar- All charges for providing, cutting, bending, transporting, and tying of Dowel bar steel of designation FE 500 as per IS 1786 for Rigid Pavement construction work. The vendor shall supply all necessary steel and Dowel Bar Caps. Dowel bars are to be cut & fix as per approved drawings, ensuring precise dimensions and placements. Dowel bars shall be securely fix with provided chair as per Morth Specification. No separate payment for chair to be considered. Steel will be measured by weight in kilograms, excluding chair & binding wire and without allowances for overlaps or wastage. The scope of work includes supply, handling, and on-site quality assurance for positioning, alignment, and compliance with specifications and as directed by EIC. Safety measures and quality checks shall be implemented during all stages, ensuring high-standard reinforcement for structural integrity. Reinforcement bars from the approved make shall only be used.	MT	36.30			
5	Tie Bar- All charges for providing, cutting, bending, transporting, and tying of Tie bar steel of designation FE 500 as per IS 1786 for Rigid Pavement construction work. The vendor shall supply all necessary steel . bars are to be cut & fix as per approved drawings, ensuring precise dimensions and placements. Tie bars shall be securely fix with provided chair as per Morth Specification. No separate payment for chair to be considered. Steel will be measured by weight in kilograms, excluding chair & binding wire and without allowances for overlaps or wastage. The scope of work includes supply, handling, and on-site quality assurance for positioning, alignment, and compliance with specifications and as directed by EIC. Safety measures and quality checks shall be implemented during all stages, ensuring high-standard reinforcement for structural integrity. Reinforcement bars from the approved make shall only be used.	MT	22.690			
6	Repair of Cracked Rigid Pavement (PQC Panels) using Cross bar stitching : Crack stitching with inclined tie bar (cross Stitching) used for cracks in reasonably good condition in order to arrest movement of slab and slabs pieces by making primer verticals holes,, alternative inclined hole, cleaning the hole through oil free compressor and filled with epoxy resin in enough quality that will coat HYSD bar confirming IS 1786 of 12 mm dia in every hole also groove shall be made along with line cracks display spalling and filled with a low viscosity resin or fire epoxy mortar following the method specified IRC SP 83:2008.	Rmt	26238.60			
7	Crack Sealing: Providing and laying low viscosity, abrasion resistant, insitu UV resistant sealer FOSROC EP75 / equivalent into all type of concrete pavement cracks wherever required in culverts, bridges and pavements as per manufacturer's specifications and guidelines etc. complete including chipping the surface and making groove into cracks 5mm x 10mm and cleaning the surface and pouring the material into cracks etc. complete.	Rmt	23860.00			
Amount (Rs.)					0	
GST 18%					0	
Total Amount incl.GST (Rs.)					-	

Project Name:- RKJL																
MAIN CARRIAGE WAY-SECTION (Rigid Pavement) PKG-01																
S. No.	Starting Chainage	Ending Chainage	Side	Lane	No.of Panels	Length (M)	Type of Treatment					Dowel & Tie Bar Panel Replacement		Observations		
							Panel Replacement	Panel Replacement DLC Qty	Panel Replacement - PQC Qty	Partial panel Replacement	Stitching (Nos)	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum		Tie Bar @ 5 Kg/Cum	
1	656.210	656.305	LHS	L1	19	86		0	-		19		0	0	Longitudinal crack	
2	656.320	656.329	LHS	L1	2	9	2	6	12.15				0	0	settlement	
3	656.320	656.329	LHS	L2	2	9	2	6	12.15				0	0	settlement	
4	656.490	656.517	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack	
5	656.550	656.582	LHS	L1	8	36		0	-			8	0	0	Longitudinal crack	
6	656.560	656.578	LHS	L1	11	18	3	9	18.23	1		7	0	0	settlement	
7	656.560	656.578	LHS	L2	10	18	3	9	18.23	1		8	0	0	settlement	
8	656.610	656.655	LHS	L1	9	41		0	-		8	7	0	0	Longitudinal crack	
9	656.760	656.796	LHS	L1	10	45		0	-	6		11	0	0	Longitudinal crack	
10	656.770	656.793	LHS	L2	7	32		0	-			4	0	0	Longitudinal crack	
11	656.910	656.937	LHS	L1	8	36		0	-			15	0	0	Longitudinal crack	
12	657.020	657.151	LHS	L1	8	36		0	-	27		15	0	0	Longitudinal crack	
13	657.200	657.340	LHS	L1	11	50		0	-	29		5	0	0	Longitudinal crack	
14	657.340	657.354	LHS	L1	10	14	2	6	12.15	1		10	0	0	settlement	
15	657.354	657.372	LHS	L1	7	32		0	-			13	0	0	Longitudinal crack	
16	657.710	657.746	LHS	L1	8	36	4	12	24.30	4		5	0	0	settlement	
17	657.710	657.746	LHS	L2	8	36	4	12	24.30	4		5	0	0	settlement	
18	658.280	658.298	LHS	L1	11	50		0	-			4	0	0	Longitudinal crack	
19	659.580	659.585	LHS	L1	7	5		0	-	1		11	0	0	settlement	
20	660.100	660.118	LHS	L1	4	18		0	-			7	0	0	Longitudinal crack	
21	660.330	660.339	LHS	L1	7	9	2	6	12.15			10	0	0	settlement	
22	660.410	660.446	LHS	L1	15	68		0	-			5	0	0	Longitudinal crack	
23	660.710	660.769	LHS	L1	12	54		0	-	11		7	0	0	Longitudinal crack	
24	660.710	660.769	LHS	L2	11	50		0	-	11		4	0	0	Longitudinal crack	
25	661.650	661.673	LHS	L1	15	68	1	3	6.08	2		5	0	0	settlement	
26	662.000	662.023	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack	
27	662.150	662.195	LHS	L1	4	45		0	-	10		22	0	0	Joint spalling	
28	662.450	662.473	LHS	L2	10	45		0	-			7	0	0	Longitudinal crack	
29	662.650	662.704	LHS	L1	17	77		0	-	10		5	0	0	Longitudinal crack	
30	662.650	662.659	LHS	L2	13	9	2	6	12.15			21	0	0	settlement	
31	662.850	662.913	LHS	L2	11	50		0	-	12		13	0	0	Longitudinal crack	
32	665.350	665.354	LHS	L1	10	4	1	3	6.08			5	0	0	settlement	
33	665.620	665.638	LHS	L1	13	59		0	-			4	0	0	Longitudinal crack	
34	665.880	665.916	LHS	L1	9	36	6	18	36.45	2		4	0	0	settlement	
35	665.880	665.889	LHS	L2	4	9	2	6	12.15			10	0	0	settlement	
36	665.930	666.038	LHS	L1	5	23		0	-	22		9	0	0	Longitudinal crack	
37	666.070	666.147	LHS	L1	9	77		0	-			4	0	0	Longitudinal crack	
38	666.070	666.147	LHS	L2	4	77		0	-			9	0	0	Longitudinal crack	
39	666.150	666.263	LHS	L1	4	18		0	-			7	0	0	Longitudinal crack	
40	666.150	666.195	LHS	L2	5	23		0	-			7	0	0	Longitudinal crack	
41	666.600	666.645	LHS	L1	5	23		0	-			4	0	0	Longitudinal crack	
42	667.050	667.253	LHS	L1	5	23		0	-	40		4	0	0	Longitudinal crack	
43	667.340	667.350	LHS	L1	4	18		0	-	2		6	0	0	settlement	
44	669.270	669.333	LHS	L1	4	18		0	-			10	0	0	Longitudinal crack	
45	669.530	669.548	LHS	L1	11	50		0	-			5	0	0	Longitudinal crack	
46	669.720	669.855	LHS	L1	4	18		0	-	28		16	0	0	Longitudinal crack	
47	669.720	669.743	LHS	L2	4	23	5	15	30.38			6	0	0	settlement	
48	669.855	669.860	LHS	L1	4	5	1	3	6.08			4	0	0	settlement	
49	670.030	670.116	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack	
50	670.700	670.718	LHS	L2	7	32		0	-			5	0	0	Longitudinal crack	
51	671.720	671.752	LHS	L2	10	45		0	-			5	0	0	Longitudinal crack	
52	671.920	671.992	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack	
53	671.992	672.006	LHS	L1	4	18	3	9	18.23			5	0	0	settlement	
54	672.120	672.512	LHS	L1	4	18		0	-	85		4	0	0	Longitudinal crack	
55	672.120	672.309	LHS	L2	7	32		0	-			5	0	0	Longitudinal crack	
56	672.309	672.381	LHS	L1	4	18	10	30	60.75	6		5	0	0	settlement	
57	672.540	672.599	LHS	L1	7	32		0	-			6	0	0	Longitudinal crack	
58	672.540	672.590	LHS	L2	4	18		0	-			6	0	0	Longitudinal crack	
59	672.620	672.706	LHS	L1	7	32		0	-	17		5	0	0	Longitudinal crack	
60	672.620	672.688	LHS	L2	7	32		0	-	13		5	0	0	Longitudinal crack	
61	672.750	673.110	LHS	L2	7	360		0	-			5	0	0	Longitudinal crack	
62	672.750	673.169	LHS	L1	4	419	25	76	151.88	10	58	4	1	1	settlement+longitudinal cracks	
63	673.252	673.324	LHS	L1	5	23		0	-			8	0	0	Longitudinal crack	
64	673.350	673.377	LHS	L2	5	23		0	-			13	0	0	Longitudinal crack	
65	673.450	673.473	LHS	L2	22	99		0	-			13	0	0	Longitudinal crack	
66	674.389	674.394	LHS	L1	9	5	1	3	6.08			13	0	0	settlement	
67	676.050	676.095	LHS	L2	7	32		0	-			10	0	0	Longitudinal crack	
68	676.480	676.561	LHS	L1	5	23		0	-			10	0	0	Longitudinal crack	
69	676.600	676.663	LHS	L1	21	95		0	-			5	0	0	Longitudinal crack	
70	676.650	676.700	LHS	L1	13	59		0	-			13	0	0	Longitudinal crack	
71	676.700	676.723	LHS	L1	4	9	3	9	18.23	2		5	0	0	settlement	
72	676.770	676.815	LHS	L1	5	23		0	-			6	0	0	Longitudinal crack	
73	676.820	676.883	LHS	L1	4	18		0	-			8	0	0	Longitudinal crack	
74	676.900	676.941	LHS	L1	4	18		0	-			9	0	0	Longitudinal crack	
75	676.900	676.918	LHS	L2	10	45		0	-			5	0	0	Longitudinal crack	
76	676.941	677.031	LHS	L1	6	27		0	-			9	0	0	Longitudinal crack	
77	676.941	676.968	LHS	L2	9	41		0	-			4	0	0	Longitudinal crack	

S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panels	Length (M)	Type of Treatment					Dowel & Tie Bar Panel Replacement		Observations		
							Panel Replacement	Panel Replacement - DLC Qty	Panel Replacement - PQC Qty	Partial panel Replacement	Stitching (Nos)	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum		Tie Bar @ 5 Kg/Cum	
78	677.150	677.191	LHS	L1	4	18		0	-			7	0	0	Longitudinal crack	
79	677.240	677.263	LHS	L1	9	41		0	-			3	0	0	Longitudinal crack	
80	677.280	677.303	LHS	L1	7	32		0	-			3	0	0	Longitudinal crack	
81	677.480	677.498	LHS	L1	7	18		0	-			4	0	0	Longitudinal crack	
82	677.545	677.635	LHS	L2	6	27		0	-		18		0	0	Longitudinal crack	
83	677.900	677.927	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack	
84	677.900	677.954	LHS	L2	12	54		0	-		10		0	0	Longitudinal crack	
85	678.200	678.223	LHS	L1	4	18		0	-	5		4	0	0	settlement	
86	678.290	678.308	LHS	L2	6	27		0	-			3	0	0	Longitudinal crack	
87	679.090	679.099	LHS	L1	5	9	2	6	12.15				0	0	settlement	
88	679.090	679.099	LHS	L2	10	9	2	6	12.15				0	0	settlement	
89	679.110	679.115	LHS	L1	6	5		0	-	1			0	0	settlement	
90	679.115	679.133	LHS	L1	5	18	4	12	24.30				0	0	settlement	
91	679.570	679.575	LHS	L1	5	5	1	3	6.08				0	0	settlement	
92	679.580	679.585	LHS	L1	7	5	1	3	6.08				0	0	settlement	
93	679.800	679.805	LHS	L1	12	5	1	3	6.08				0	0	settlement	
94	679.805	679.823	LHS	L1	10	45		0	-			3	0	0	Longitudinal crack	
95	679.920	679.970	LHS	L1	5	23		0	-			9	0	0	Longitudinal crack	
96	680.800	680.944	LHS	L1	13	59		0	-		25		0	0	Longitudinal crack	
97	681.510	681.528	LHS	L1	16	72		0	-			3	0	0	Longitudinal crack	
98	681.660	681.609	LHS	L1	5	23	9	27	54.68	2			0	0	settlement	
99	681.785	681.790	LHS	L1	5	5	1	3	6.08				0	0	settlement	
100	681.800	681.881	LHS	L1	5	23	2	6	12.15	2	12		0	0	Longitudinal crack	
101	681.900	681.923	LHS	L1	6	27		0	-			3	0	0	Longitudinal crack	
102	682.020	682.124	LHS	L1	5	23	4	12	24.30	2	15		0	0	Longitudinal crack	
103	682.020	682.038	LHS	L2	4	18		0	-			3	0	0	Longitudinal crack	
104	682.380	682.475	LHS	L1	5	23		0	-		19		0	0	Longitudinal crack	
105	683.110	683.137	LHS	L1	5	23		0	-			4	0	0	Longitudinal crack	
106	683.390	683.476	LHS	L1	5	23		0	-		17		0	0	Longitudinal crack	
107	683.700	683.732	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack	
108	683.800	683.845	LHS	L1	5	23		0	-			8	0	0	Longitudinal crack	
109	684.050	684.045	LHS	L1	5	23		0	-	1			0	0	settlement	
110	684.450	684.455	LHS	L1	7	32	1	3	6.08				0	0	settlement	
111	685.800	685.827	LHS	L1	5	23		0	-			4	0	0	Longitudinal crack	
112	686.000	686.023	LHS	L1	5	23		0	-			3	0	0	Longitudinal crack	
113	686.000	686.018	LHS	L2	4	18		0	-			3	0	0	Longitudinal crack	
114	686.090	686.180	LHS	L1	4	18		0	-		18		0	0	Longitudinal crack	
115	686.090	686.122	LHS	L2	5	23		0	-			5	0	0	Longitudinal crack	
116	686.310	686.333	LHS	L1	5	23		0	-			3	0	0	Longitudinal crack	
117	686.350	686.382	LHS	L1	6	27		0	-			5	0	0	Longitudinal crack	
118	686.820	686.838	LHS	L2	6	27		0	-			3	0	0	Longitudinal crack	
119	686.860	686.892	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack	
120	687.000	687.036	LHS	L1	5	23		0	-			6	0	0	Longitudinal crack	
121	687.080	687.116	LHS	L1	5	23		0	-	2		4	0	0	Longitudinal crack	
122	687.200	687.223	LHS	L2	4	18		0	-			3	0	0	Longitudinal crack	
123	688.490	688.513	LHS	L1	8	36		0	-			3	0	0	Longitudinal crack	
124	689.070	689.093	LHS	L1	13	59		0	-			4	0	0	Longitudinal crack	
125	689.600	689.704	LHS	L1	13	59		0	-	2	19		4	0	0	Longitudinal crack
126	689.730	689.771	LHS	L1	13	59		0	-			4	0	0	Longitudinal crack	
127	689.730	689.766	LHS	L2	10	46		0	-			4	0	0	Longitudinal crack	
128	689.940	689.967	LHS	L1	10	46		0	-			4	0	0	Longitudinal crack	
129	690.000	690.099	LHS	L1	5	23		0	-		20		4	0	0	Longitudinal crack
130	690.000	690.063	LHS	L2	13	59		0	-			4	0	0	Longitudinal crack	
131	690.220	690.229	LHS	L1	5	9	2	6	12.15			3	0	0	settlement	
132	690.520	690.547	LHS	L1	6	28		0	-			4	0	0	Longitudinal crack	
133	690.700	690.718	LHS	L2	8	37		0	-			3	0	0	Longitudinal crack	
134	691.410	691.428	LHS	L1	9	41		0	-			3	0	0	Longitudinal crack	
135	691.428	691.437	LHS	L1	5	9	2	6	12.15				0	0	settlement	
136	692.500	692.550	LHS	L1	6	27		0	-			7	0	0	Longitudinal crack	
137	692.550	692.581	LHS	L2	10	45		0	-			11	0	0	Longitudinal crack	
138	692.700	692.709	LHS	L1	9	9	2	6	12.15			5	0	0	settlement	
139	692.980	693.025	LHS	L1	4	18		0	-			8	0	0	Longitudinal crack	
140	693.298	693.330	LHS	L1	9	32		0	-		7		0	0	Joint spalling	
141	693.440	693.458	LHS	L2	7	32		0	-			5	0	0	Longitudinal crack	
142	693.500	693.577	LHS	L2	7	32		0	-		15		5	0	0	Longitudinal crack
143	693.710	693.755	LHS	L2	6	27		0	-			7	0	0	Longitudinal crack	
144	693.850	693.886	LHS	L1	4	18		0	-			6	0	0	Longitudinal crack	
145	693.886	693.913	LHS	L1	12	9	4	12	24.30	2		11	0	0	settlement	
146	694.180	694.216	LHS	L1	4	18		0	-			7	0	0	Longitudinal crack	
147	694.180	694.212	LHS	L2	6	27		0	-			6	0	0	Longitudinal crack	
148	694.390	694.408	LHS	L1	5	23		0	-			14	0	0	Longitudinal crack	
149	694.490	694.549	LHS	L1	10	45		0	-			17	0	0	Longitudinal crack	
150	694.490	694.508	LHS	L2	6	27		0	-			6	0	0	Longitudinal crack	
151	694.549	694.567	LHS	L1	5	18	4	12	24.30				6	0	0	settlement
152	694.690	694.920	LHS	L1	5	23		0	-		45		7	0	0	Longitudinal crack
153	694.920	694.960	LHS	L1	7	41	4	12	24.30	5			6	0	0	settlement
154	695.000	695.018	LHS	L1	12	18		0	-	4			6	0	0	settlement
155	695.100	695.136	LHS	L1	10	36		0	-	8			6	0	0	settlement
156	695.140	695.172	LHS	L1	5	23		0	-				6	0	0	Longitudinal crack

S. No.	Starting Chainage	Ending Chainage	Side	Lane	No.of Panels	Length (M)	Type of Treatment						Dowel & Tie Bar Panel Replacement		Observations
							Panel Replacement	Panel Replacement - DLC Qty	Panel Replacement - PQC Qty	Partial panel Replacement	Stitching (Nos)	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum	
157	695.140	695.167	LHS	L2	13	59		0	-			6	0	0	Longitudinal crack
158	695.230	695.280	LHS	L1	16	72		0				6	0	0	Longitudinal crack
159	695.280	695.284	LHS	L1	5	5	1	3	6.08			6	0	0	settlement
160	695.320	695.352	LHS	L1	5	23		0	-			6	0	0	Longitudinal crack
161	695.450	695.477	LHS	L1	5	23		0	-			7	0	0	Longitudinal crack
162	695.450	695.473	LHS	L2	6	27		0	-			6	0	0	Longitudinal crack
163	696.220	696.256	LHS	L1	5	23		0	-			14	0	0	Longitudinal crack
164	696.490	696.562	LHS	L1	4	18		0	-		14	14	0	0	Longitudinal crack
165	696.565	696.624	LHS	L1	5	23		0	-			6	0	0	Longitudinal crack
166	696.565	696.615	LHS	L2	5	23		0	-			9	0	0	Longitudinal crack
167	696.620	696.706	LHS	L1	5	23		0	-		17	10	0	0	Longitudinal crack
168	696.620	696.643	LHS	L2	5	23		0	-			6	0	0	Longitudinal crack
169	697.140	697.203	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack
170	697.250	697.286	LHS	L1	5	36		0	-		8	5	0	0	Joint spalling
171	697.450	697.477	LHS	L1	7	27	4	12	24.30	2		7	0	0	settlement
172	697.477	697.554	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack
173	697.555	697.582	LHS	L2	5	23		0	-			5	0	0	Longitudinal crack
174	697.850	697.922	LHS	L2	4	18		0	-		14	4	0	0	Longitudinal crack
175	698.060	698.074	LHS	L1	4	14		0	-		3	4	0	0	Joint spalling
176	698.074	698.101	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack
177	698.101	698.110	LHS	L1	5	23		0	-	2		5	0	0	settlement
178	698.878	698.896	LHS	L1	6	18	4	12	24.30			6	0	0	settlement
179	699.000	699.023	LHS	L1	6	27		0	-			6	0	0	Longitudinal crack
180	699.000	699.023	LHS	L1	5	23		0	-	5		5	0	0	settlement
181	699.620	699.634	LHS	L1	5	14	3	9	18.23			5	0	0	settlement
182	699.634	699.665	LHS	L2	5	23		0	-			5	0	0	Longitudinal crack
183	699.730	699.789	LHS	L1	4	18		0	-		11	4	0	0	Longitudinal crack
184	699.730	699.766	LHS	L2	8	36		0	-		6	8	0	0	Longitudinal crack
185	699.820	699.847	LHS	L1	13	59		0	-			13	0	0	Longitudinal crack
186	699.960	699.978	LHS	L1	13	59		0	-			13	0	0	Longitudinal crack
187	699.960	699.996	LHS	L2	13	59		0	-		6	13	0	0	Longitudinal crack
188	700.010	700.037	LHS	L1	10	46	4	12	24.30	2		10	0	0	settlement
189	700.497	700.510	LHS	L1	10	14	3	9	18.23			10	0	0	settlement
190	700.650	700.659	LHS	L1	5	9	2	6	12.15			5	0	0	settlement
191	700.650	700.659	LHS	L2	13	9	2	6	12.15			13	0	0	settlement
192	700.659	700.686	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack
193	700.725	700.752	LHS	L1	6	27		0	-		6	6	0	0	Joint spalling
194	700.880	700.907	LHS	L1	8	37		0	-			8	0	0	Longitudinal crack
195	700.950	700.977	LHS	L1	9	41		0	-			9	0	0	Longitudinal crack
196	701.220	701.243	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack
197	701.320	701.329	LHS	L1	5	9		0	-		2	5	0	0	Joint spalling
198	701.450	701.459	LHS	L1	9	9		0	-		2	9	0	0	Joint spalling
199	701.500	701.523	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack
200	701.530	701.557	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack
201	701.650	701.767	LHS	L2	24	108		0	-		24		0	0	Longitudinal crack
202	701.670	701.679	LHS	L2	2	9		0	-	2			0	0	settlement
203	701.679	701.715	LHS	L2	6	27		0	-			6	0	0	Longitudinal crack
204	701.760	701.774	LHS	L2	3	14	3	9	18.23				0	0	settlement
205	702.420	702.452	LHS	L1	7	32		0	-		7		0	0	Joint spalling
206	702.452	702.479	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack
207	703.040	703.063	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack
208	703.040	703.067	LHS	L2	4	18		0	-		4		0	0	Longitudinal crack
209	703.340	703.358	LHS	L1	4	18		0	-		4		0	0	Longitudinal crack
210	703.340	703.358	LHS	L2	4	18		0	-		4		0	0	Longitudinal crack
211	703.600	703.609	LHS	L1	3	9		0	-			3	0	0	Longitudinal crack
212	705.050	705.068	LHS	L2	3	14		0	-			3	0	0	Longitudinal crack
213	705.850	705.873	LHS	L1	5	23		0	-		5		0	0	Joint spalling
214	706.220	706.238	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack
215	706.220	706.238	LHS	L2	4	18		0	-			4	0	0	Longitudinal crack
216	706.960	706.969	LHS	L1	2	9	2	6	12.15				0	0	settlement
217	709.500	709.509	LHS	L1	2	9	2	6	12.15				0	0	settlement
218	709.509	709.541	LHS	L1	5	23		0	-			5	0	0	Longitudinal crack
219	710.400	710.432	LHS	L1	7	32		0	-		7		0	0	Joint spalling
220	710.520	710.534	LHS	L1	3	14	3	9	18.23				0	0	settlement
221	710.970	710.979	LHS	L1	2	9		0	-	2			0	0	settlement
222	711.000	711.045	LHS	L1	8	36		0	-		8		0	0	Longitudinal crack
223	711.000	711.032	LHS	L2	5	23		0	-			5	0	0	Longitudinal crack
224	711.100	711.127	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack
225	711.127	711.132	LHS	L1	1	5		0	-	1			0	0	settlement
226	711.260	711.287	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack
227	711.287	711.292	LHS	L1	1	5	1	3	6.08				0	0	settlement
228	711.400	711.423	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack
229	711.600	711.659	LHS	L1	11	50		0	-		11		0	0	Longitudinal crack
230	711.730	711.802	LHS	L1	14	63		0	-	3	11		0	0	Longitudinal crack
231	712.929	712.947	LHS	L1	3	14		0	-			3	0	0	Longitudinal crack
232	713.100	713.141	LHS	L1	7	32		0	-	1		7	0	0	Longitudinal crack
233	714.200	714.268	LHS	L1	13	59		0	-		13		0	0	Longitudinal crack
234	715.900	715.963	LHS	L1	12	54		0	-			12	0	0	Longitudinal crack
235	715.963	715.972	LHS	L1	2	9	2	6	12.15				0	0	settlement

S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panels	Length (M)	Type of Treatment						Dowel & Tie Bar Panel Replacement		Observations
							Panel Replacement	Panel Replacement - DLC Qty	Panel Replacement - PQC Qty	Partial panel Replacement	Stitching (Nos)	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum	
236	715.963	715.972	LHS	L2	2	9	2	6	12.15				0	0	settlement
237	716.250	716.313	LHS	L1	12	54		0	-		12		0	0	Longitudinal crack
238	716.250	716.313	LHS	L2	12	54		0	-			12	0	0	Longitudinal crack
239	716.313	716.367	LHS	L1	12	54		0	-			12	0	0	Longitudinal crack
240	717.400	717.450	LHS	L1	9	41		0	-			9	0	0	Longitudinal crack
241	717.900	717.950	LHS	L1	9	41		0	-			9	0	0	Longitudinal crack
242	718.300	718.368	LHS	L1	13	59		0	-		13		0	0	Longitudinal crack
243	718.300	718.323	LHS	L2	4	18		0	-			4	0	0	Longitudinal crack
244	718.368	718.382	LHS	L1	3	14	3	9	18.23				0	0	settlement
245	718.568	718.577	LHS	L2	2	9	2	6	12.15				0	0	settlement
246	718.631	718.636	LHS	L1	1	5	1	3	6.08				0	0	settlement
247	718.830	718.893	LHS	L1	12	54		0	-			12	0	0	Longitudinal crack
248	719.280	719.303	LHS	L2	4	18		0	-			4	0	0	Longitudinal crack
249	719.334	719.343	LHS	L1	2	9	2	6	12.15				0	0	settlement
250	719.800	719.832	LHS	L2	5	23		0	-			5	0	0	Longitudinal crack
251	719.920	719.961	LHS	L1	7	32		0	-			7	0	0	Longitudinal crack
252	719.920	719.979	LHS	L2	11	50		0	-		11		0	0	Longitudinal crack
253	720.880	720.925	LHS	L2	8	36		0	-			8	0	0	Longitudinal crack
254	721.200	721.313	LHS	L2	23	104		0	-		23		0	0	Longitudinal crack
255	723.170	723.197	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack
256	723.420	723.443	LHS	L2	3	14		0	-	3			0	0	multiple Longitudinal crack
257	723.620	723.652	LHS	L1	5	23		0	-		5		0	0	Longitudinal crack
258	723.710	723.737	LHS	L1	4	18		0	-			4	0	0	Longitudinal crack
259	723.750	723.822	LHS	L1	16	72		0	-		16		0	0	Joint spalling
260	724.600	724.590	LHS	L1	2	72	2	6	12.15				0	0	settlement
261	724.600	724.645	LHS	L1	8	36		0	-			8	0	0	Longitudinal crack
Total Length (M)						8307	176	535	1069	95	913	1355	9	5	
402															
									Road Marking	DLC-Full	PQC Full	Partial	Epoxy	Dowel Bar	Tie Bar
									2774.371	535	1069	288.56	6098	9	5
															Stitching
															4108.5

Project Name:- RKJL															
MAIN CARRIAGE WAY-SECTION (Rigid Pavement) PKG-01															
S. No.	Starting Chainage	Ending Chainage	Side	Lane	No.of Panels	Length (M)	Type of Treatment						Dowel & Tie Bar Panel Replacement (MT)		Observations
							Panel Replacement	Panel Replacement -DLC Qty	Panel Replacement -PQC Qty	Partial panel Replacement	Stitching	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum	
1	656.012	656.320	RHS	L1	60	270		0	-		60		0	0	Longitudinal crack
2	656.384	656.402	RHS	L1	4	18	4	12	24.30				0	0	settlement
3	656.518	656.550	RHS	L2	5	23		0	-		5		0	0	Longitudinal crack
4	656.652	656.720	RHS	L1	13	59		0	-		13		0	0	Longitudinal crack
5	656.782	656.800	RHS	L1	2	9		0	-		2		0	0	Longitudinal crack
6	656.842	656.910	RHS	L1	9	68	9	27	54.68				0	0	settlement
7	656.856	656.910	RHS	L2	9	54	9	27	54.68				0	0	settlement
8	656.950	657.000	RHS	L1	11	50	6	18	36.45	5			0	0	Settlement
9	656.950	657.000	RHS	L2	11	50	6	18	36.45	5			0	0	Settlement
10	657.012	657.030	RHS	L1	3	14		0	-			3	0	0	Longitudinal crack
11	657.018	657.050	RHS	L1	6	27		0	-			6	0	0	Longitudinal crack
12	657.054	657.090	RHS	L1	5	36	6	18	36.45	2		8	0	0	Settlement
13	657.105	657.110	RHS	L1	4	5	1	3	6.08			9	0	0	Settlement
14	657.229	657.270	RHS	L1	8	37		0	-			7	0	0	Longitudinal crack
15	657.252	657.270	RHS	L1	9	41		0	-			16	0	0	Longitudinal crack
16	657.290	657.299	RHS	L1	9	9	2	6	12.15			5	0	0	Settlement
17	657.299	657.340	RHS	L1	7	32		0	-			5	0	0	Longitudinal crack
18	657.381	657.386	RHS	L1	4	5	1	3	6.08			6	0	0	Settlement
19	657.386	657.420	RHS	L1	16	73		0	-			11	0	0	Longitudinal crack
20	657.420	657.440	RHS	L1	11	50	4	12	24.30			9	0	0	settlement
21	657.395	657.440	RHS	L2	5	23		0	-			4	0	0	Longitudinal crack
22	657.464	657.550	RHS	L1	4	18		0	-		17	9	0	0	Longitudinal crack
23	657.764	657.800	RHS	L1	5	23		0	-			4	0	0	Longitudinal crack
24	657.873	657.887	RHS	L1	4	14	3	9	18.23			16	0	0	Settlement
25	657.887	658.000	RHS	L1	7	32		0	-		23	20	0	0	Longitudinal crack
26	658.215	658.220	RHS	L1	4	5	1	3	6.08			10	0	0	Settlement
27	658.300	658.302	RHS	L1	5	2		0	-	2		4	0	0	settlement
28	658.302	658.320	RHS	L1	6	28		0	-			23	0	0	Longitudinal crack
29	659.240	659.163	RHS	L1	11	50		0	-			10	0	0	Longitudinal crack
30	659.700	659.646	RHS	L1	9	41		0	-			7	0	0	Longitudinal crack
31	660.223	660.205	RHS	L1	4	18	4	12	24.30			9	0	0	Settlement
32	660.250	660.223	RHS	L1	4	19		0	-			5	0	0	Longitudinal crack
33	660.250	660.232	RHS	L2	12	55		0	-		2	5	0	0	Longitudinal crack
34	660.320	660.293	RHS	L1	5	23		0	-		4	7	0	0	Longitudinal crack
35	660.380	660.362	RHS	L1	9	41		0	-			5	0	0	Longitudinal crack
36	660.591	660.600	RHS	L1	4	19	2	6	12.15			12	0	0	Settlement
37	661.040	661.013	RHS	L1	4	18		0	-			4	0	0	Longitudinal crack

S. No.	Starting Chainage	Ending Chainage	Side	Lane	No.of Panels	Length (M)	Type of Treatment						Dowel & Tie Bar Panel Replacement (MT)			Observations
							Panel Replacement	Panel Replacement -DLC Qty	Panel Replacement -PQC Qty	Partial panel Replacement	Stitching	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum		
38	661.340	661.322	RHS	L1	16	73		0	-			4	0	0		Longitudinal crack
39	661.430	661.394	RHS	L1	20	90		0	-			11	0	0		Longitudinal crack
40	661.780	661.762	RHS	L1	10	46		0	-			4	0	0		Longitudinal crack
41	662.080	662.079	RHS	L1	6	1	1	3	6.08			11	0	0		Settlement
42	663.900	663.873	RHS	L1	4	18		0	-			12	0	0		Longitudinal crack
43	665.200	665.105	RHS	L1	3	14		0	-		19	4	0	0		Longitudinal crack
44	665.500	665.495	RHS	L1	8	5	1	3	6.08			21	0	0		Settlement
45	665.639	665.634	RHS	L1	11	5	1	3	6.08			8	0	0		Settlement
46	665.720	665.639	RHS	L1	3	14		0	-		16	3	0	0		Longitudinal crack
47	665.720	665.652	RHS	L2	4	19		0	-		13	3	0	0		Longitudinal crack
48	665.760	665.733	RHS	L1	3	14	4	12	24.30			6	0	0		Settlement
49	665.850	665.818	RHS	L1	23	104		0	-			12	0	0		Longitudinal crack
50	666.200	666.146	RHS	L1	10	46	6	18	36.45			3	0	0		Settlement+longitudinal crack
51	666.290	666.245	RHS	L1	7	32		0	-			3	0	0		Longitudinal crack
52	666.422	666.412	RHS	L1	5	23	2	6	12.15			39	0	0		Settlement
53	666.440	666.422	RHS	L1	9	41		0	-			18	0	0		Longitudinal crack
54	666.520	666.497	RHS	L1	5	23		0	-			3	0	0		Longitudinal crack
55	666.770	666.711	RHS	L1	5	23		0	-			3	0	0		Longitudinal crack
56	666.850	666.823	RHS	L1	7	32		0	-			3	0	0		Longitudinal crack
57	667.045	667.050	RHS	L1	23	104	1	3	6.08			3	0	0		Settlement
58	667.180	667.135	RHS	L1	5	23		0	-			4	0	0		Longitudinal crack
59	667.300	667.277	RHS	L1	12	55		0	-			4	0	0		Longitudinal crack
60	667.520	667.515	RHS	L2	7	5		0	-	1		8	0	0		settlement
61	668.800	668.795	RHS	L1	3	5	1	3	6.08			21	0	0		Settlement
62	668.840	668.822	RHS	L1	4	19		0	-			19	0	0		Longitudinal crack
63	668.840	668.835	RHS	L2	3	5	1	3	6.08			5	0	0		Settlement
64	669.010	669.005	RHS	L1	3	5	1	3	6.08			5	0	0		Settlement
65	669.033	669.028	RHS	L1	4	5	1	3	6.08			4	0	0		Settlement
66	669.110	669.033	RHS	L1	4	20		0	-			7	0	0		Longitudinal crack
67	669.209	669.123	RHS	L1	11	51		0	-			4	0	0		Longitudinal crack
68	669.232	669.209	RHS	L1	10	45	5	15	30.38			6	0	0		settlement
69	669.300	669.250	RHS	L1	4	19		0	-			4	0	0		Longitudinal crack
70	669.390	669.358	RHS	L1	11	50		0	-			4	0	0		Longitudinal crack
71	669.750	669.732	RHS	L1	12	55		0	-			5	0	0		Longitudinal crack
72	669.750	669.732	RHS	L2	4	18		0	-			7	0	0		Longitudinal crack
73	669.880	669.839	RHS	L1	21	95		0	-			4	0	0		Longitudinal crack
74	669.930	669.925	RHS	L1	4	5		0	-	1		4	0	0		settlement
75	669.975	669.930	RHS	L1	4	45	5	15	30.38	5		4	0	0		Settlement
76	669.980	669.926	RHS	L2	8	37		0	-			4	0	0		Longitudinal crack

S. No.	Starting Chainage	Ending Chainage	Side	Lane	No.of Panels	Length (M)	Type of Treatment						Dowel & Tie Bar Panel Replacement (MT)			Observations
							Panel Replacement	Panel Replacement -DLC Qty	Panel Replacement -PQC Qty	Partial panel Replacement	Stitching	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum		
77	670.400	670.382	RHS	L1	3	14		0	-			12	0	0		Longitudinal crack
78	670.417	670.412	RHS	L1	3	5	1	3	6.08			10	0	0		Settlement
79	670.440	670.417	RHS	L1	3	14		0	-			6	0	0		Longitudinal crack
80	670.520	670.502	RHS	L1	6	28		0	-			4	0	0		Longitudinal crack
81	670.630	670.522	RHS	L1	12	54		0	-			7	0	0		Longitudinal crack
82	670.630	670.580	RHS	L2	3	14		0	-			7	0	0		Longitudinal crack
83	670.830	670.794	RHS	L1	3	14		0	-			3	0	0		Longitudinal crack
84	671.850	671.823	RHS	L1	39	176		0	-			11	0	0		Longitudinal crack
85	672.250	672.205	RHS	L1	18	81		0	-			3	0	0		Longitudinal crack
86	672.320	672.293	RHS	L1	3	14		0	-			3	0	0		Longitudinal crack
87	672.320	672.293	RHS	L2	3	14		0	-			4	0	0		Longitudinal crack
88	672.811	672.806	RHS	L1	5	5	1	3	6.08			5	0	0		Settlement
89	672.890	672.854	RHS	L2	3	14		0	-			3	0	0		Longitudinal crack
90	672.960	671.951	RHS	L1	3	14		0	-			4	0	0		Longitudinal crack
91	673.060	673.033	RHS	L1	4	18		0	-			4	0	0		Longitudinal crack
92	673.129	673.070	RHS	L1	4	18		0	-			4	0	0		Longitudinal crack
93	673.147	673.129	RHS	L1	5	18	4	12	24.30			4	0	0		Settlement
94	673.152	673.147	RHS	L1	6	5	1	3	6.08			10	0	0		Settlement
95	673.210	673.174	RHS	L1	8	37		0	-			4	0	0		Longitudinal crack
96	673.260	673.255	RHS	L2	15	5		0	-	1		6	0	0		settlement
97	673.320	673.302	RHS	L2	21	95		0	-			3	0	0		Longitudinal crack
98	673.440	673.417	RHS	L1	19	86		0	-			5	0	0		Longitudinal crack
99	673.440	673.435	RHS	L2	4	5		0	-	1		6	0	0		settlement
100	673.540	673.522	RHS	L1	5	23		0	-			3	0	0		Longitudinal crack
101	673.740	673.722	RHS	L2	5	23		0	-			5	0	0		Longitudinal crack
102	674.470	674.465	RHS	L1	4	5		0	-	1		9	0	0		settlement
103	674.500	674.482	RHS	L1	4	5	4	12	24.30			7	0	0		settlement
104	674.730	674.721	RHS	L2	4	9	2	6	12.15			8	0	0		Settlement
105	674.900	674.876	RHS	L1	4	18		0	-			6	0	0		Longitudinal crack
106	674.900	674.876	RHS	L2	7	32		0	-			5	0	0		Longitudinal crack
107	675.500	675.445	RHS	L1	4	18		0	-			3	0	0		Longitudinal crack
108	675.750	675.701	RHS	L2	6	28		0	-			3	0	0		Longitudinal crack
109	675.860	675.855	RHS	L2	11	5		0	-	1		8	0	0		settlement
110	675.900	675.877	RHS	L1	4	18		0	-			7	0	0		Longitudinal crack
111	676.120	676.066	RHS	L1	4	18		0	-			4	0	0		Longitudinal crack
112	676.470	676.411	RHS	L1	5	23		0	-			4	0	0		Longitudinal crack
113	676.830	676.808	RHS	L2	7	32		0	-			6	0	0		Longitudinal crack
114	676.840	676.830	RHS	L2	7	32	2	6	12.15			6	0	0		
115	677.050	676.951	RHS	L1	4	18		0	-			3	0	0		Longitudinal crack

S. No.	Starting Chainage	Ending Chainage	Side	Lane	No.of Panels	Length (M)	Type of Treatment						Dowel & Tie Bar Panel Replacement (MT)			Observations
							Panel Replacement	Panel Replacement -DLC Qty	Panel Replacement -PQC Qty	Partial panel Replacement	Stitching	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum		
116	677.500	677.477	RHS	L1	4	18		0	-			3	0	0		Longitudinal crack
117	677.500	677.477	RHS	L2	4	18		0	-			3	0	0		Longitudinal crack
118	679.550	679.509	RHS	L1	4	18		0	-			3	0	0		Longitudinal crack
119	679.600	679.582	RHS	L1	12	54		0	-			11	0	0		Longitudinal crack
120	680.080	680.062	RHS	L1	10	45		0	-			9	0	0		Longitudinal crack
121	680.080	680.062	RHS	L2	6	27		0	-			5	0	0		Longitudinal crack
122	680.250	680.218	RHS	L1	4	19		0	-			3	0	0		Longitudinal crack
123	680.800	680.742	RHS	L1	7	32		0	-			6	0	0		Longitudinal crack
124	681.050	681.045	RHS	L1	4	5	1	3	6.08			3	0	0		Settlement
125	681.320	681.302	RHS	L1	7	32		0	-			6	0	0		Longitudinal crack
126	681.320	681.302	RHS	L2	3	14		0	-			2	0	0		Longitudinal crack
127	681.712	681.518	RHS	L1	11	50		0	-			10	0	0		Longitudinal crack
128	681.712	681.627	RHS	L2	3	14		0	-			2	0	0		Longitudinal crack
129	681.730	681.712	RHS	L1	3	18	4	12	24.30			2	0	0		Settlement
130	682.210	681.985	RHS	L1	5	23		0	-		45	4	0	0		Longitudinal crack
131	682.370	682.320	RHS	L1	61	275		0	-		9	60	0	0		Longitudinal crack
132	683.160	683.115	RHS	L1	18	82		0	-		8	17	0	0		Longitudinal crack
133	683.510	683.479	RHS	L2	7	32		0	-		5	6	0	0		Longitudinal crack
134	683.900	683.878	RHS	L1	26	117		0	-		3	25	0	0		Longitudinal crack
135	684.032	684.018	RHS	L1	3	14	3	9	18.23			2	0	0		Settlement
136	684.050	684.032	RHS	L1	3	14		0	-			2	0	0		Longitudinal crack
137	684.050	684.032	RHS	L2	4	19		0	-			3	0	0		Longitudinal crack
138	684.093	684.084	RHS	L1	3	9	2	6	12.15			2	0	0		Settlement
139	684.093	684.084	RHS	L2	3	9	2	6	12.15			2	0	0		Settlement
140	684.140	684.113	RHS	L2	5	23		0	-			4	0	0		Longitudinal crack
141	684.220	684.202	RHS	L1	3	14		0	-			2	0	0		Longitudinal crack
142	684.400	684.382	RHS	L1	4	18		0	-			3	0	0		Longitudinal crack
143	684.500	684.482	RHS	L1	4	18		0	-			3	0	0		Longitudinal crack
144	684.550	684.532	RHS	L1	4	18		0	-			3	0	0		Longitudinal crack
145	684.650	684.623	RHS	L1	4	19		0	-			3	0	0		Longitudinal crack
146	684.877	684.859	RHS	L1	7	18	4	12	24.30			6	0	0		Settlement
147	684.900	684.869	RHS	L1	10	45		0	-			9	0	0		Longitudinal crack
148	684.990	684.949	RHS	L1	4	18		0	-			3	0	0		Longitudinal crack
149	685.140	685.068	RHS	L1	6	27		0	-			5	0	0		Longitudinal crack
150	685.206	685.201	RHS	L1	9	5	1	3	6.08			8	0	0		Settlement
151	685.382	685.283	RHS	L1	3	14		0	-			2	0	0		Longitudinal crack
152	685.400	685.310	RHS	L2	5	23		0	-			4	0	0		Longitudinal crack
153	685.400	685.382	RHS	L1	4	18	4	12	24.30			3	0	0		Settlement
154	685.700	685.678	RHS	L2	6	27		0	-			5	0	0		Longitudinal crack

S. No.	Starting Chainage	Ending Chainage	Side	Lane	No.of Panels	Length (M)	Type of Treatment	Panel Replacement -DLC Qty	Panel Replacement -PQC Qty	Partial panel Replacement	Stitching	Crack sealing with Epoxy (Nos)	Dowel & Tie Bar Panel Replacement (MT)			Observations
							Panel Replacement						Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum		
155	685.750	685.723	RHS	L1	3	14		0	-			2	0	0		Longitudinal crack
156	686.140	686.113	RHS	L2	5	23		0	-			4	0	0		Longitudinal crack
157	686.140	686.118	RHS	L1	9	41		0	-			8	0	0		Longitudinal crack
158	686.291	686.286	RHS	L1	7	5	1	3	6.08			6	0	0		Settlement
159	686.350	686.332	RHS	L1	7	32		0	-			6	0	0		Longitudinal crack
160	686.400	686.382	RHS	L2	8	36		0	-			7	0	0		Longitudinal crack
161	686.840	686.822	RHS	L1	6	27		0	-			5	0	0		Longitudinal crack
162	686.920	686.884	RHS	L1	5	23		0	-			4	0	0		Longitudinal crack
163	686.946	686.941	RHS	L1	5	5	1	3	6.08			4	0	0		Settlement
164	687.100	687.091	RHS	L1	9	9	2	6	12.15			8	0	0		Settlement
165	687.182	687.177	RHS	L1	4	5	1	3	6.08			3	0	0		Settlement
166	687.200	687.182	RHS	L1	3	14		0	-			2	0	0		Longitudinal crack
167	687.700	687.682	RHS	L1	4	18	2	6	12.15			3	0	0		settlement
168	689.080	689.048	RHS	L1	3	14		0	-			2	0	0		Longitudinal crack
169	689.080	689.026	RHS	L2	8	36		0	-			7	0	0		Longitudinal crack
170	689.350	689.345	RHS	L1	8	5	3	9	18.23			7	0	0		Settlement
171	689.750	689.728	RHS	L2	7	32		0	-			6	0	0		Longitudinal crack
172	690.400	690.378	RHS	L1	4	18		0	-			3	0	0		Longitudinal crack
173	690.500	690.473	RHS	L1	4	18	4	12	24.30				0	0		settlement
174	690.500	690.473	RHS	L2	4	18		0	-			4	0	0		Longitudinal crack
175	690.600	690.564	RHS	L1	6	27		0	-			6	0	0		Longitudinal crack
176	690.600	690.564	RHS	L2	6	27		0	-			6	0	0		Longitudinal crack
177	690.682	690.677	RHS	L1	1	5	1	3	6.08				0	0		Settlement
178	690.700	690.682	RHS	L1	3	14		0	-			3	0	0		Longitudinal crack
179	690.700	690.678	RHS	L2	3	14		0	-			3	0	0		Longitudinal crack
180	690.800	690.778	RHS	L2	3	14		0	-			3	0	0		Longitudinal crack
181	691.102	691.062	RHS	L1	7	32		0	-		7		0	0		Longitudinal crack
182	691.120	691.084	RHS	L2	6	27		0	-		6		0	0		Longitudinal crack
183	691.120	691.102	RHS	L1	4	18	4	12	24.30				0	0		Settlement
184	691.380	691.362	RHS	L1	3	14		0	-			3	0	0		Longitudinal crack
185	691.420	691.402	RHS	L1	4	18	4	12	24.30				0	0		Settlement
186	691.650	691.592	RHS	L1	11	50		0	-			11	0	0		Longitudinal crack
187	692.350	692.301	RHS	L1	9	41		0	-			9	0	0		Longitudinal crack
188	692.350	692.319	RHS	L2	5	23		0	-			5	0	0		Longitudinal crack
189	694.250	694.227	RHS	L1	3	14		0	-			3	0	0		Longitudinal crack
190	694.500	694.464	RHS	L1	6	27		0	-			6	0	0		Longitudinal crack
191	694.686	694.677	RHS	L1	2	9	2	6	12.15				0	0		Settlement
192	694.686	694.677	RHS	L1	2	9	2	6	12.15				0	0		Settlement
193	694.877	694.868	RHS	L1	2	9	2	6	12.15				0	0		Settlement

S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panels	Length (M)	Type of Treatment						Dowel & Tie Bar Panel Replacement (MT)			Observations
							Panel Replacement	Panel Replacement -DLC Qty	Panel Replacement -PQC Qty	Partial panel Replacement	Stitching	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum		
194	694.900	694.877	RHS	L1	3	14		0	-			3	0	0		Longitudinal crack
195	694.900	694.864	RHS	L2	6	27		0	-			6	0	0		Longitudinal crack
196	695.080	695.062	RHS	L1	2	9		0	-			2	0	0		Longitudinal crack
197	695.224	695.215	RHS	L1	2	9	2	6	12.15				0	0		Settlement
198	695.250	695.151	RHS	L2	20	90		0	-		20		0	0		Longitudinal crack
199	695.350	695.224	RHS	L1	26	117		0	-		26		0	0		Longitudinal crack
200	695.350	695.224	RHS	L2	26	117		0	-		26		0	0		Longitudinal crack
201	695.400	695.342	RHS	L1	11	50		0	-		11		0	0		Longitudinal crack
202	695.809	695.795	RHS	L1	3	14	3	9	18.23				0	0		Settlement
203	695.886	695.791	RHS	L2	21	95		0	-		21		0	0		Longitudinal crack
204	695.980	695.809	RHS	L1	32	144		0	-		32		0	0		Longitudinal crack
205	696.033	696.019	RHS	L1	3	14	5	15	30.38				0	0		Settlement
206	696.150	696.033	RHS	L2	24	108		0	-		24		0	0		Longitudinal crack
207	696.595	696.541	RHS	L1	10	45		0	-			10	0	0		Longitudinal crack
208	696.600	696.582	RHS	L2	2	9		0	-			2	0	0		Longitudinal crack
209	696.600	696.595	RHS	L1	1	5	1	3	6.08				0	0		Settlement
210	696.873	696.855	RHS	L2	2	9		0	-			2	0	0		Longitudinal crack
211	696.900	696.882	RHS	L1	4	18	4	12	24.30				0	0		Settlement
212	696.900	696.873	RHS	L2	6	27	6	18	36.45				0	0		Settlement
213	697.100	697.082	RHS	L1	4	18		0	-			4	0	0		Longitudinal crack
214	697.540	697.243	RHS	L1	60	270		0	-			60	0	0		Longitudinal crack
215	697.669	697.660	RHS	L1	2	9	2	6	12.15				0	0		Settlement
216	697.669	697.660	RHS	L2	2	9	2	6	12.15				0	0		Settlement
217	698.100	698.014	RHS	L1	17	77		0	-			17	0	0		Longitudinal crack
218	698.100	698.064	RHS	L2	6	27		0	-			6	0	0		Longitudinal crack
219	698.530	698.400	RHS	L1	25	113		0	-			26	0	0		Longitudinal crack
220	699.070	699.056	RHS	L1	3	5	3	9	18.23				0	0		Settlement
221	699.550	699.505	RHS	L2	8	36		0	-		8		0	0		Longitudinal crack
222	699.950	699.945	RHS	L1	1	5	1	3	6.08				0	0		Settlement
223	700.580	700.544	RHS	L1	6	27	6	18	36.45				0	0		Settlement
224	700.700	700.664	RHS	L2	6	27		0	-		6		0	0		Longitudinal crack
225	700.800	700.782	RHS	L1	2	9		0	-			2	0	0		Longitudinal crack
226	701.050	701.041	RHS	L1	2	9	2	6	12.15				0	0		Settlement
227	701.300	701.286	RHS	L1	3	14	3	9	18.23				0	0		Settlement
228	701.450	701.405	RHS	L1	8	36		0	-		8		0	0		Longitudinal crack
229	701.600	701.555	RHS	L1	8	36		0	-		8		0	0		Longitudinal crack
230	701.655	701.632	RHS	L1	5	23	5	15	30.38				0	0		Settlement
231	701.700	701.655	RHS	L1	8	36		0	-		8		0	0		Longitudinal crack
232	701.920	701.902	RHS	L1	2	9		0	-			2	0	0		Longitudinal crack

S. No.	Starting Chainage	Ending Chainage	Side	Lane	No.of Panels	Length (M)	Type of Treatment						Dowel & Tie Bar Panel Replacement (MT)			Observations
							Panel Replacement	Panel Replacement -DLC Qty	Panel Replacement -PQC Qty	Partial panel Replacement	Stitching	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum		
233	702.500	702.455	RHS	L1	8	36		0	-		8		0	0		Longitudinal crack
234	702.800	702.674	RHS	L2	22	99		0	-		22		0	0		Longitudinal crack
235	703.000	703.005	RHS	L1	1	5	1	3	6.08				0	0		settlement
236	703.145	703.122	RHS	L1	3	14		0	-			3	0	0		Longitudinal crack
237	703.250	703.232	RHS	L1	2	9		0	-			2	0	0		Longitudinal crack
238	703.990	703.891	RHS	L1	22	99		0	-		22		0	0		Joint spalling
239	704.043	704.033	RHS	L1	2	5	2	6	12.15				0	0		Settlement
240	704.600	704.582	RHS	L1	2	9		0	-			2	0	0		Longitudinal crack
241	705.830	705.825	RHS	L1	1	5	1	3	6.08				0	0		Settlement
242	706.200	706.195	RHS	L1	1	5	1	3	6.08				0	0		Settlement
243	706.473	706.468	RHS	L1	1	5	1	3	6.08				0	0		Settlement
244	706.500	706.473	RHS	L2	4	18		0	-			4	0	0		Longitudinal crack
245	708.250	708.232	RHS	L1	2	9		0	-			2	0	0		Longitudinal crack
246	708.550	708.528	RHS	L2	3	14		0	-			3	0	0		Longitudinal crack
247	708.550	708.523	RHS	L1	6	27		0	-		6		0	0		Joint spalling
248	709.475	709.470	RHS	L1	1	5	1	3	6.08				0	0		Settlement
249	709.480	709.471	RHS	L1	2	9	2	6	12.15				0	0		Settlement
250	709.750	709.728	RHS	L1	3	14		0	-			3	0	0		Longitudinal crack
251	709.850	709.828	RHS	L2	3	14		0	-			3	0	0		Longitudinal crack
252	711.900	711.810	RHS	L1	14	63		0	-		14		0	0		Longitudinal crack
253	711.900	711.806	RHS	L2	15	68		0	-		15		0	0		Longitudinal crack
254	712.060	712.037	RHS	L1	3	14		0	-			3	0	0		Longitudinal crack
255	712.060	712.015	RHS	L2	8	36		0	-		8		0	0		Longitudinal crack
256	712.160	712.115	RHS	L2	8	36		0	-		8		0	0		Longitudinal crack
257	712.400	712.346	RHS	L1	10	45		0	-		10		0	0		Longitudinal crack
258	712.400	712.252	RHS	L2	31	140		0	-		31		0	0		Longitudinal crack
259	712.500	712.446	RHS	L1	10	45		0	-		10		0	0		Longitudinal crack
260	712.550	712.433	RHS	L2	24	108		0	-		24		0	0		Longitudinal crack
261	712.600	712.564	RHS	L2	6	27		0	-			6	0	0		Longitudinal crack
262	712.990	712.941	RHS	L2	9	41		0	-			9	0	0		Longitudinal crack
263	714.200	714.178	RHS	L2	3	14		0	-			3	0	0		Longitudinal crack
264	714.200	714.142	RHS	L1	13	59		0	-		13		0	0		Joint spalling
265	714.520	714.489	RHS	L1	5	23		0	-			5	0	0		Longitudinal crack
266	714.700	714.655	RHS	L1	8	36		0	-			8	0	0		Longitudinal crack
267	715.500	715.415	RHS	L1	17	77		0	-		17		0	0		Longitudinal crack
268	715.750	715.732	RHS	L1	2	9		0	-			2	0	0		Longitudinal crack
269	715.750	715.723	RHS	L1	4	18		0	-			4	0	0		Longitudinal crack
270	716.200	716.187	RHS	L2	3	14	3	9	18.23				0	0		settlement
271	716.300	716.278	RHS	L1	5	23	5	15	30.38				0	0		settlement

S. No.	Starting Chainage	Ending Chainage	Side	Lane	No.of Panels	Length (M)	Type of Treatment					Dowel & Tie Bar Panel Replacement (MT)			Observations
							Panel Replacement	Panel Replacement -DLC Qty	Panel Replacement -PQC Qty	Partial panel Replacement	Stitching	Crack sealing with Epoxy (Nos)	Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum	
272	716.380	716.308	RHS	L1	14	63		0	-		14		0	0	Longitudinal crack
273	716.380	716.299	RHS	L1	16	72		0	-		16		0	0	Longitudinal crack
274	717.130	717.072	RHS	L2	11	50		0	-		11		0	0	Longitudinal crack
275	717.210	717.188	RHS	L1	3	14		0	-			3	0	0	Longitudinal crack
276	717.250	717.246	RHS	L1	1	5	1	3	6.08				0	0	settlement
277	717.610	717.556	RHS	L1	10	45		0	-		10		0	0	Longitudinal crack
278	717.680	717.671	RHS	L1	2	9	2	6	12.15				0	0	settlement
279	717.850	717.733	RHS	L2	24	108		0	-		24		0	0	Longitudinal crack
280	717.900	717.869	RHS	L2	5	23		0	-			5	0	0	Longitudinal crack
281	718.310	718.292	RHS	L1	2	9		0	-			2	0	0	Longitudinal crack
282	718.400	718.373	RHS	L2	4	18		0	-			4	0	0	Longitudinal crack
283	718.510	718.465	RHS	L1	8	36		0	-			8	0	0	Longitudinal crack
284	719.100	719.064	RHS	L2	6	27		0	-			6	0	0	Longitudinal crack
285	719.720	719.684	RHS	L1	6	27		0	-			6	0	0	Longitudinal crack
286	720.019	720.015	RHS	L1	1	5	1	3	6.08				0	0	settlement
287	720.269	720.260	RHS	L1	2	9	2	6	12.15				0	0	settlement
288	721.670	721.630	RHS	L2	7	32		0	-			7	0	0	Longitudinal crack
289	721.790	721.786	RHS	L1	1	5	1	3	6.08				0	0	settlement
290	723.091	723.087	RHS	L1	1	5	1	3	6.08				0	0	settlement
291	723.140	723.109	RHS	L2	5	23		0	-			5	0	0	Longitudinal crack
292	723.200	723.173	RHS	L1	4	18		0	-			4	0	0	Longitudinal crack
293	723.200	723.173	RHS	L2	4	18		0	-			4	0	0	Longitudinal crack
294	723.280	723.235	RHS	L1	8	36		0	-			8	0	0	Longitudinal crack
295	723.330	723.308	RHS	L1	3	14		0	-			3	0	0	Longitudinal crack
296	723.440	723.422	RHS	L1	2	9		0	-			2	0	0	Longitudinal crack
297	723.600	723.587	RHS	L1	3	14	3	9	18.23				0	0	settlement
298	723.640	723.618	RHS	L1	3	14		0	-			3	0	0	Longitudinal crack
299	724.060	724.042	RHS	L1	2	9		0	-			2	0	0	Longitudinal crack
300	724.150	724.110	RHS	L2	7	32		0	-			7	0	0	Longitudinal crack
301	724.310	724.270	RHS	L1	7	32		0	-			7	0	0	Longitudinal crack
302	724.640	724.604	RHS	L2	6	27		0	-			6	0	0	Longitudinal crack
303	724.720	724.698	RHS	L2	3	14		0	-			3	0	0	Longitudinal crack
Total Length (M)						9522	226	686	1373	25	738	1456	11	7	

Project Name:- RKJL								
MAIN CARRIAGE WAY-SECTION Rigid PKG-02								
S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observations	Remarks
1	726.800	726.827	LHS	6.000	L1	0.027	Partial panel replace	
2	728.250	728.259	LHS	2.000	L1	0.009	Partial panel replace	
3	728.340	728.349	LHS	2.000	L1	0.009	Partial panel replace	
4	729.850	729.859	LHS	2.000	L1	0.009	Partial panel replace	
5	732.780	732.789	LHS	2.000	L1	0.009	Partial panel replace	
6	740.480	740.489	LHS	2.000	L2	0.009	Partial panel replace	
7	741.350	741.364	LHS	3.000	L1	0.014	Partial panel replace	
8	741.600	741.609	LHS	2.000	L1	0.009	Partial panel replace	
9	742.200	742.227	LHS	6.000	L1	0.027	Partial panel replace	
10	748.300	748.309	LHS	2.000	L1	0.009	Partial panel replace	
11	750.370	750.384	LHS	3.000	L1	0.014	Partial panel replace	
12	752.670	752.720	LHS	11	L1	0.050	Partial panel replace	
13	752.800	752.823	LHS	5	L1	0.023	Partial panel replace	
14	753.080	753.103	LHS	5	L1	0.023	Partial panel replace	
15	753.100	753.109	LHS	2	L2	0.009	Partial panel replace	
16	753.170	753.188	LHS	4	L1	0.018	Partial panel replace	
17	753.800	753.809	LHS	2	L2	0.009	Partial panel replace	
18	758.450	758.477	LHS	6	L1&L2	0.027	Partial panel replace	
19	764.090	764.135	LHS	10	L1	0.045	Partial panel replace	
20	773.120	773.134	LHS	3	L1	0.014	Partial panel replace	
21	803.140	803.154	LHS	3	L1&L2	0.014	Partial panel replace	
22	728.650	728.664	RHS	3	L2	0.014	Partial panel replace	
23	731.050	731.059	RHS	2	L2	0.009	Partial panel replace	
24	732.400	732.409	RHS	2	L1	0.009	Partial panel replace	
25	733.000	733.009	RHS	2	L1&L2	0.009	Partial panel replace	
26	734.000	734.005	RHS	1	L2	0.005	Partial panel replace	
27	735.300	735.314	RHS	3	L1	0.014	Partial panel replace	
28	735.580	735.603	RHS	5	L1	0.023	Partial panel replace	
29	735.620	735.638	RHS	4	L1&L2	0.018	Partial panel replace	
30	736.800	736.809	RHS	2	L2	0.009	Partial panel replace	

S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observations	Remarks
31	736.980	736.985	RHS	1	L1	0.005	Partial panel replace	
32	738.800	738.805	RHS	1	L1	0.005	Partial panel replace	
33	740.000	740.027	RHS	6	L1	0.027	Partial panel replace	
34	740.100	740.109	RHS	2	L1	0.009	Partial panel replace	
35	742.400	742.405	RHS	1	L1	0.005	Partial panel replace	
36	742.720	742.725	RHS	1	L1	0.005	Partial panel replace	
37	744.100	744.105	RHS	1	L1	0.005	Partial panel replace	
38	747.900	747.909	RHS	2	L1&L2	0.009	Partial panel replace	
39	748.700	748.709	RHS	2	L1	0.009	Partial panel replace	
40	748.700	748.705	RHS	1	L2	0.005	Partial panel replace	
41	752.550	752.577	RHS	6	L1	0.027	Partial panel replace	
42	752.780	752.789	RHS	2	L1	0.009	Partial panel replace	
43	755.300	755.305	RHS	1	L1	0.005	Partial panel replace	
44	754.700	754.705	RHS	1	L1	0.005	Partial panel replace	
45	757.880	757.885	RHS	1	L1	0.005	Partial panel replace	
46	758.950	758.955	RHS	1	L1	0.005	Partial panel replace	
47	758.980	758.985	RHS	1	L1	0.005	Partial panel replace	
48	759.850	759.859	RHS	2	L1	0.009	Partial panel replace	
49	760.200	760.295	RHS	21	L1	0.095	Partial panel replace	
50	761.890	761.895	RHS	1	L1	0.005	Partial panel replace	
51	763.890	763.899	RHS	2	L1	0.009	Partial panel replace	
52	769.300	769.354	RHS	12	L1	0.054	Partial panel replace	
53	772.980	772.985	RHS	1	L1	0.005	Partial panel replace	
54	800.050	800.086	RHS	8	L1&L1	0.036	Partial panel replace	
55	803.000	803.045	RHS	10	L1&L2	0.045	Partial panel replace	
Total length						0.878		
		Total Panel	195.000					

Qty / panel	50% Qty	Qty
6.075	3.0375	592.31

Road Marking

293.09

Project Name:- RKJL												
MAIN CARRIAGE WAY-SECTION -Rigid(Panel Replacement) PKG-02												
S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Panel Replacement - DLC Qty	Panel Replacement - PQC Qty	Lane	Length (km)	Dowel & Tie Bar Panel Replacement (MT)		Observations	Remarks
									Dowel Bar @ 8 Kg per/Cum	Tie Bar @ 5 Kg/Cum		
1	732.900	732.923	LHS	5	15	30.38	L1&L2	0.0225	0.24	0.15	Panel Replacement	
2	733.000	733.023	LHS	5	15	30.38	L1	0.0225	0.24	0.15	Panel Replacement	
3	741.980	741.998	LHS	4	12	24.30	L1	0.018	0.19	0.12	Panel Replacement	
4	748.300	748.309	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
5	749.180	749.189	LHS	2	6	12.15	L1&L2	0.009	0.10	0.06	Panel Replacement	
6	750.370	750.388	LHS	4	12	24.30	L1&L2	0.018	0.19	0.12	Panel Replacement	
7	750.450	750.459	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
8	750.600	750.618	LHS	4	12	24.30	L1&L2	0.018	0.19	0.12	Panel Replacement	
9	751.960	751.969	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
10	752.450	752.459	LHS	2	6	12.15	L1&L2	0.009	0.10	0.06	Panel Replacement	
11	752.670	752.693	LHS	5	15	30.38	L2	0.0225	0.24	0.15	Panel Replacement	
12	752.780	752.803	LHS	5	15	30.38	L2	0.0225	0.24	0.15	Panel Replacement	
13	753.100	753.114	LHS	3	9	18.23	L1&L2	0.0135	0.15	0.09	Panel Replacement	
14	753.400	753.409	LHS	2	6	12.15	L1&L2	0.009	0.10	0.06	Panel Replacement	
15	758.450	758.464	LHS	3	9	18.23	L1&L2	0.0135	0.15	0.09	Panel Replacement	
16	759.870	759.879	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
17	763.200	763.214	LHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
18	766.000	766.009	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
19	766.020	766.029	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
20	766.750	766.759	LHS	2	6	12.15	L1&L2	0.009	0.10	0.06	Panel Replacement	
21	767.250	767.273	LHS	5	15	30.38	L1	0.0225	0.24	0.15	Panel Replacement	
22	767.280	767.289	LHS	2	6	12.15	L2	0.009	0.10	0.06	Panel Replacement	
23	767.550	767.559	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
24	767.650	767.659	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
25	768.580	768.598	LHS	4	12	24.30	L1&L2	0.018	0.19	0.12	Panel Replacement	
26	769.150	769.159	LHS	2	6	12.15	L1&L2	0.009	0.10	0.06	Panel Replacement	
27	773.120	773.129	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
28	773.220	773.229	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
29	773.350	773.355	LHS	1	3	6.08	L2	0.0045	0.05	0.03	Panel Replacement	
30	795.400	795.405	LHS	1	3	6.08	L2	0.0045	0.05	0.03	Panel Replacement	
31	795.780	795.789	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
32	798.750	798.759	LHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
33	798.780	798.807	LHS	6	18	36.45	L1&L2	0.027	0.29	0.18	Panel Replacement	
34	799.170	799.188	LHS	4	12	24.30	L2	0.018	0.19	0.12	Panel Replacement	
35	799.700	799.705	LHS	1	3	6.08	L1	0.0045	0.05	0.03	Panel Replacement	
36	813.070	813.138	LHS	15	46	91.13	L1&L2	0.0675	0.73	0.46	Panel Replacement	
37	729.320	729.356	RHS	8	24	48.60	L1	0.036	0.39	0.24	Panel Replacement	
38	729.800	729.809	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
39	729.950	729.959	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
40	729.980	729.989	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
41	730.980	730.994	RHS	3	9	18.23	L1&L2	0.0135	0.15	0.09	Panel Replacement	

S	Startina	Endina		No. of	Panel Replacement -	Panel Replacement -		Length	Dowel & Tie Bar Panel Replacement (MT)			
42	732.580	732.598	RHS	4	12	24.30	L1	0.018	0.19	0.12	Panel Replacement	
43	732.800	732.814	RHS	3	9	18.23	L1&L2	0.0135	0.15	0.09	Panel Replacement	
44	733.210	733.219	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
45	734.960	734.974	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
46	735.060	735.069	RHS	2	6	12.15	L2	0.009	0.10	0.06	Panel Replacement	
47	736.800	736.818	RHS	4	12	24.30	L1	0.018	0.19	0.12	Panel Replacement	
48	737.470	737.497	RHS	6	18	36.45	L1	0.027	0.29	0.18	Panel Replacement	
49	738.800	738.809	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
50	739.750	739.764	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
51	741.080	741.089	RHS	2	6	12.15	L1&L2	0.009	0.10	0.06	Panel Replacement	
52	746.650	746.659	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
53	746.700	746.714	RHS	3	9	18.23	L1&L2	0.0135	0.15	0.09	Panel Replacement	
54	748.000	748.009	RHS	2	6	12.15	L1&L2	0.009	0.10	0.06	Panel Replacement	
55	748.150	748.159	RHS	2	6	12.15	L2	0.009	0.10	0.06	Panel Replacement	
56	748.150	748.159	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
57	748.500	748.514	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
58	749.650	749.668	RHS	4	12	24.30	L1&L2	0.018	0.19	0.12	Panel Replacement	
59	750.050	750.064	RHS	3	9	18.23	L1&L2	0.0135	0.15	0.09	Panel Replacement	
60	751.730	751.739	RHS	2	6	12.15	L2	0.009	0.10	0.06	Panel Replacement	
61	752.550	752.564	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
62	755.000	755.005	RHS	1	3	6.08	L1	0.0045	0.05	0.03	Panel Replacement	
63	757.880	757.889	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
64	760.080	760.094	RHS	3	9	18.23	L2	0.0135	0.15	0.09	Panel Replacement	
65	760.100	760.114	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
66	764.080	764.089	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
67	764.700	764.709	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
68	767.140	767.158	RHS	4	12	24.30	L1&L2	0.018	0.19	0.12	Panel Replacement	
69	772.980	772.994	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
70	795.280	795.307	RHS	6	18	36.45	L1	0.027	0.29	0.18	Panel Replacement	
71	795.400	795.445	RHS	10	30	60.75	L1&L2	0.045	0.49	0.30	Panel Replacement	
72	795.950	795.959	RHS	2	6	12.15	L2	0.009	0.10	0.06	Panel Replacement	
73	797.000	797.009	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
74	797.000	797.014	RHS	3	9	18.23	L2	0.0135	0.15	0.09	Panel Replacement	
75	798.880	798.894	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
76	798.900	798.932	RHS	7	21	42.53	L2	0.0315	0.34	0.21	Panel Replacement	
77	799.280	799.289	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
78	799.280	799.289	RHS	2	6	12.15	L2	0.009	0.10	0.06	Panel Replacement	
79	799.300	799.336	RHS	8	24	48.60	L2	0.036	0.39	0.24	Panel Replacement	
80	799.300	799.314	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
81	800.050	800.064	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
82	800.480	800.494	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
83	800.670	800.679	RHS	2	6	12.15	L1&L2	0.009	0.10	0.06	Panel Replacement	
84	801.300	801.309	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
85	804.950	804.959	RHS	2	6	12.15	L1&L2	0.009	0.10	0.06	Panel Replacement	
86	805.200	805.209	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
87	806.200	806.209	RHS	2	6	12.15	L2	0.009	0.10	0.06	Panel Replacement	

									Dowel & Tie Bar Panel Replacement (MT)			
S	Startina	Endina		No. of	Panel Replacement -	Panel Replacement -		Length				
88	809.050	809.059	RHS	2	6	12.15	L1&L2	0.009	0.10	0.06	Panel Replacement	
89	809.090	809.113	RHS	5	15	30.38	L1&L2	0.0225	0.24	0.15	Panel Replacement	
90	809.450	809.459	RHS	2	6	12.15	L1	0.009	0.10	0.06	Panel Replacement	
91	809.550	809.559	RHS	2	6	12.15	L2	0.009	0.10	0.06	Panel Replacement	
92	811.200	811.214	RHS	3	9	18.23	L1&L2	0.0135	0.15	0.09	Panel Replacement	
93	811.250	811.264	RHS	3	9	18.23	L1	0.0135	0.15	0.09	Panel Replacement	
Total Length								1.3005				
		Total Panel		289.000	877.838	1755.675			14.045	8.778		

	DLC	PQC	Dowel Bar	Tie Bar
	877.838	1755.675	14.045	8.778

Road Marking
434

Project Name:- RKJL									
MAIN CARRIAGE WAY-SECTION -Rigid (STITCHING) PKG-02									
S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
1	725.300	725.359	LHS	14.000	L1	0.063	Longitudinal Cracks	Stitching	
2	725.300	725.372	LHS	15.000	L2	0.0675	Longitudinal Cracks	Stitching	
3	725.500	725.554	LHS	12.000	L2	0.054	Longitudinal Cracks	Stitching	
4	725.600	725.650	LHS	11.000	L2	0.0495	Longitudinal Cracks	Stitching	
5	725.640	725.802	LHS	36.000	L1	0.162	Longitudinal Cracks	Stitching	
6	725.795	725.984	LHS	43.000	L1&L2	0.18	Longitudinal Cracks	Stitching	
7	726.200	726.245	LHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	
8	726.400	726.459	LHS	13.000	L2	0.0585	Longitudinal Cracks	Stitching	
9	726.830	726.871	LHS	9.000	L1	0.0405	Longitudinal Cracks	Stitching	
10	727.220	727.270	LHS	11.000	L2	0.0495	Longitudinal Cracks	Stitching	
11	728.250	728.304	LHS	12.000	L1	0.054	Longitudinal Cracks	Stitching	
12	728.250	728.313	LHS	14.000	L1 & L1	0.063	Longitudinal Cracks	Stitching	
13	728.340	728.385	LHS	10.000	L2	0.045	Longitudinal Cracks	Stitching	
14	729.050	729.095	LHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	
15	729.920	730.037	LHS	26.000	L1&L2	0.117	Longitudinal Cracks	Stitching	
16	730.050	730.113	LHS	14.000	L1 & L2	0.063	Longitudinal Cracks	Stitching	
17	730.550	730.618	LHS	15.000	L1	0.0675	Longitudinal Cracks	Stitching	
18	731.570	731.615	LHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	
19	732.250	732.304	LHS	12.000	L1 & L2	0.054	Longitudinal Cracks	Stitching	
20	732.450	732.522	LHS	16.000	L1	0.072	Longitudinal Cracks	Stitching	
21	732.500	732.550	LHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
22	732.900	732.963	LHS	14.000	L1&L2	0.063	Longitudinal Cracks	Stitching	
23	733.000	733.045	LHS	10.000	L1&L2	0.045	Longitudinal Cracks	Stitching	
24	733.840	733.917	LHS	17.000	L1	0.0765	Longitudinal Cracks	Stitching	
25	734.100	734.150	LHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
26	734.120	734.152	LHS	7.000	L2	0.0315	Longitudinal Cracks	Stitching	
27	734.520	734.552	LHS	7.000	L1	0.0315	Longitudinal Cracks	Stitching	
28	737.180	737.225	LHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	
29	737.500	737.550	LHS	11.000	L2	0.0495	Longitudinal Cracks	Stitching	
30	737.900	737.941	LHS	9.000	L1	0.0405	Longitudinal Cracks	Stitching	
31	738.500	738.550	LHS	11.000	L2	0.0495	Longitudinal Cracks	Stitching	
32	738.100	738.150	LHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
33	739.680	739.725	LHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	
34	740.980	741.030	LHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
35	741.340	741.381	LHS	9.000	L1&L2	0.0405	Longitudinal Cracks	Stitching	
36	741.600	741.645	LHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	
37	741.780	741.825	LHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	

S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
38	742.150	742.186	LHS	8.000	L1	0.036	Longitudinal Cracks	Stitching	
39	742.380	742.425	LHS	10.000	L2	0.045	Longitudinal Cracks	Stitching	
40	743.380	743.430	LHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
41	743.950	744.013	LHS	14.000	L1	0.063	Longitudinal Cracks	Stitching	
42	744.180	744.243	LHS	14.000	L2	0.063	Longitudinal Cracks	Stitching	
43	744.350	744.395	LHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	
44	744.550	744.595	LHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	
45	744.650	744.700	LHS	11.000	L2	0.0495	Longitudinal Cracks	Stitching	
46	745.970	746.020	LHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
47	746.430	746.471	LHS	9.000	L1	0.0405	Longitudinal Cracks	Stitching	
48	746.600	746.659	LHS	13.000	L2	0.0585	Longitudinal Cracks	Stitching	
49	747.690	747.762	LHS	16.000	L2	0.072	Longitudinal Cracks	Stitching	
50	748.400	748.450	LHS	11.000	L1&L2	0.0495	Longitudinal Cracks	Stitching	
51	748.680	748.734	LHS	12.000	L1	0.054	Longitudinal Cracks	Stitching	
52	749.200	749.245	LHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	
53	749.180	749.225	LHS	10.000	L2	0.045	Longitudinal Cracks	Stitching	
54	749.530	749.593	LHS	14.000	L1	0.063	Longitudinal Cracks	Stitching	
55	749.650	749.700	LHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
56	750.370	750.415	LHS	10	L1	0.045	Longitudinal Cracks	Stitching	
57	751.960	752.010	LHS	11	L1	0.0495	Longitudinal Cracks	Stitching	
58	752.450	752.500	LHS	11	L1&L2	0.0495	Longitudinal Cracks	Stitching	
59	752.480	752.525	LHS	10	L2	0.045	Longitudinal Cracks	Stitching	
60	752.720	752.774	LHS	12	L1&L2	0.054	Longitudinal Cracks	Stitching	
61	752.800	752.899	LHS	22	L1	0.099	Longitudinal Cracks	Stitching	
62	753.100	753.150	LHS	11	L1	0.0495	Longitudinal Cracks	Stitching	
63	753.170	753.220	LHS	11	L1	0.0495	Longitudinal Cracks	Stitching	
64	753.600	753.650	LHS	11	L2	0.0495	Longitudinal Cracks	Stitching	
65	753.800	753.899	LHS	22	L1&L2	0.099	Longitudinal Cracks	Stitching	
66	754.300	754.345	LHS	10	L1	0.045	Longitudinal Cracks	Stitching	
67	755.200	755.245	LHS	10	L2	0.045	Longitudinal Cracks	Stitching	
68	756.720	756.806	LHS	19	L1&L2	0.0855	Longitudinal Cracks	Stitching	
69	758.400	758.445	LHS	10	L1	0.045	Longitudinal Cracks	Stitching	
70	759.780	759.870	LHS	20	L1	0.09	Longitudinal Cracks	Stitching	
71	759.900	759.963	LHS	14	L1	0.063	Longitudinal Cracks	Stitching	
72	760.050	760.091	LHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
73	763.200	763.241	LHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
74	763.500	763.541	LHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
75	763.900	763.945	LHS	10	L1	0.045	Longitudinal Cracks	Stitching	
76	764.060	764.105	LHS	10	L1	0.045	Longitudinal Cracks	Stitching	

S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
77	764.250	764.300	LHS	11	L1	0.0495	Longitudinal Cracks	Stitching	
78	764.550	764.595	LHS	10	L1	0.045	Longitudinal Cracks	Stitching	
79	767.650	767.691	LHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
80	767.820	767.861	LHS	9	L2	0.0405	Longitudinal Cracks	Stitching	
81	768.030	768.084	LHS	12	L1	0.054	Longitudinal Cracks	Stitching	
82	768.100	768.204	LHS	23	L1	0.1035	Longitudinal Cracks	Stitching	
83	768.780	768.884	LHS	23	L1	0.1035	Longitudinal Cracks	Stitching	
84	769.150	769.195	LHS	10	L1&L2	0.045	Longitudinal Cracks	Stitching	
85	771.450	771.491	LHS	9	L2	0.0405	Longitudinal Cracks	Stitching	
86	773.129	773.242	LHS	25	L1	0.1125	Longitudinal Cracks	Stitching	
87	794.800	794.841	LHS	9.000	L2	0.0405	Longitudinal Cracks	Stitching	
88	795.350	795.386	LHS	8	L2	0.036	Longitudinal Cracks	Stitching	
89	795.400	795.441	LHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
90	795.780	795.821	LHS	9	L2	0.0405	Longitudinal Cracks	Stitching	
91	795.800	795.877	LHS	17	L2	0.0765	Longitudinal Cracks	Stitching	
92	795.800	795.854	LHS	12	L1	0.054	Longitudinal Cracks	Stitching	
93	798.680	798.743	LHS	14	L1	0.063	Longitudinal Cracks	Stitching	
94	798.750	798.791	LHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
95	798.750	798.791	LHS	9	L2	0.0405	Transeverse cracks	Stitching	
96	798.820	798.973	LHS	34	L1	0.153	Longitudinal Cracks	Stitching	
97	798.820	798.892	LHS	16	L2	0.072	Longitudinal Cracks	Stitching	
98	798.950	798.995	LHS	10	L2	0.045	Longitudinal Cracks	Stitching	
99	799.050	799.095	LHS	10	L2	0.045	Longitudinal Cracks	Stitching	
100	799.200	799.272	LHS	16	L1	0.072	Longitudinal Cracks	Stitching	
101	798.950	799.004	LHS	12.000	L1	0.054	Longitudinal Cracks	Stitching	
102	799.700	799.732	LHS	7.000	L2	0.0315	Longitudinal Cracks	Stitching	
103	800.370	800.415	LHS	10.000	L1&L2	0.045	Longitudinal Cracks	Stitching	
104	801.400	801.450	LHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
105	803.140	803.185	LHS	10	L2	0.045	Longitudinal Cracks	Stitching	
106	805.020	805.056	LHS	8.000	L1	0.036	Longitudinal Cracks	Stitching	
107	805.050	805.104	LHS	12.000	L1	0.054	Longitudinal Cracks	Stitching	
108	805.100	805.159	LHS	13.000	L1&L2	0.0585	Longitudinal Cracks	Stitching	
109	805.500	805.550	LHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
110	808.750	808.795	LHS	10.000	L2	0.045	Multiple cracks	Stitching	
111	725.200	725.254	RHS	12	L2	0.054	Longitudinal Cracks	Stitching	
112	725.450	725.540	RHS	20.000	L1&L2	0.09	Longitudinal Cracks	Stitching	
113	725.750	725.813	RHS	14.000	L2	0.063	Longitudinal Cracks	Stitching	
114	726.120	726.161	RHS	9	L2	0.0405	Longitudinal Cracks	Stitching	
115	726.520	726.574	RHS	12	L2	0.054	Longitudinal Cracks	Stitching	

S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
116	726.800	726.868	RHS	15.000	L1	0.0675	Longitudinal Cracks	Stitching	
117	727.150	727.263	RHS	25	L2	0.1125	Longitudinal Cracks	Stitching	
118	727.650	727.704	RHS	12	L2	0.054	Longitudinal Cracks	Stitching	
119	727.950	727.995	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
120	728.150	728.222	RHS	16	L2	0.072	Longitudinal Cracks	Stitching	
121	728.650	728.695	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
122	728.820	728.919	RHS	22.000	L2	0.099	Longitudinal Cracks	Stitching	
123	728.870	728.911	RHS	9.000	L2	0.0405	Longitudinal Cracks	Stitching	
124	728.900	728.941	RHS	9.000	L1	0.0405	Longitudinal Cracks	Stitching	
125	729.120	729.174	RHS	12	L1	0.054	Longitudinal Cracks	Stitching	
126	729.820	729.865	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
127	729.950	729.995	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
128	730.750	730.822	RHS	16	L2	0.072	Longitudinal Cracks	Stitching	
129	730.970	731.042	RHS	16	L2	0.072	Longitudinal Cracks	Stitching	
130	730.730	730.834	RHS	23.000	L1	0.1035	Longitudinal Cracks	Stitching	
131	731.300	731.345	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
132	731.450	731.495	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
133	731.750	731.854	RHS	23.000	L2	0.1035	Longitudinal Cracks	Stitching	
134	731.900	731.945	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
135	732.050	732.145	RHS	16.000	L1	0.072	Longitudinal Cracks	Stitching	
136	732.100	732.136	RHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
137	732.300	732.318	RHS	9.000	L2	0.0405	Multiple cracks	Stitching	
138	732.400	732.318	RHS	7.000	L1&L2	0.0315	Longitudinal Cracks	Stitching	
139	732.500	732.318	RHS	9.000	L1&L2	0.0405	Longitudinal Cracks	Stitching	
140	732.460	732.318	RHS	9.000	L1&L2	0.0405	Longitudinal Cracks	Stitching	
141	732.800	732.318	RHS	7.000	L1	0.0315	Transeverse cracks	Stitching	
142	732.800	732.318	RHS	10.000	L2	0.045	Longitudinal crack	Stitching	
143	733.400	733.454	RHS	12	L1	0.054	Longitudinal Cracks	Stitching	
144	733.300	733.341	RHS	9.000	L2	0.0405	Longitudinal crack	Stitching	
145	733.500	733.541	RHS	9.000	L1	0.0405	Longitudinal crack	Stitching	
146	733.980	734.030	RHS	11	L2	0.0495	Longitudinal Cracks	Stitching	
147	734.380	734.421	RHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
148	734.770	734.811	RHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
149	735.060	735.123	RHS	14	L2	0.063	Longitudinal Cracks	Stitching	
150	735.620	735.679	RHS	13	L1	0.0585	Longitudinal Cracks	Stitching	
151	735.800	735.836	RHS	8	L1	0.036	Longitudinal Cracks	Stitching	
152	736.800	736.868	RHS	15	L1	0.0675	Longitudinal Cracks	Stitching	
153	736.820	736.870	RHS	11	L1	0.0495	Longitudinal Cracks	Stitching	
154	737.350	737.386	RHS	8	L2	0.036	Longitudinal Cracks	Stitching	

S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
155	737.470	737.502	RHS	7	L2	0.0315	Longitudinal Cracks	Stitching	
156	738.620	738.742	RHS	27	L1	0.1215	Longitudinal Cracks	Stitching	
157	738.800	738.841	RHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
158	739.420	739.465	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
159	739.700	739.745	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
160	740.100	740.168	RHS	15	L1	0.0675	Longitudinal Cracks	Stitching	
161	740.600	740.636	RHS	8	L2	0.036	Longitudinal Cracks	Stitching	
162	740.600	740.645	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
163	741.070	741.115	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
164	742.500	742.541	RHS	9.000	L1	0.0405	Longitudinal Cracks	Stitching	
165	742.620	742.661	RHS	9.000	L1	0.0405	Longitudinal Cracks	Stitching	
166	743.080	743.161	RHS	18	L1	0.081	Longitudinal Cracks	Stitching	
167	743.080	743.116	RHS	8	L2	0.036	Longitudinal Cracks	Stitching	
168	743.870	743.915	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
169	743.950	743.986	RHS	8.000	L1	0.036	Longitudinal Cracks	Stitching	
170	744.250	744.291	RHS	9.000	L2	0.0405	Longitudinal Cracks	Stitching	
171	744.700	744.741	RHS	9.000	L1&L2	0.0405	Longitudinal Cracks	Stitching	
172	745.400	745.463	RHS	14	L1	0.063	Longitudinal Cracks	Stitching	
173	746.200	746.236	RHS	8	L2	0.036	Longitudinal Cracks	Stitching	
174	746.400	746.432	RHS	7	L1	0.0315	Longitudinal Cracks	Stitching	
175	747.100	747.150	RHS	11.000	L2	0.0495	Longitudinal Cracks	Stitching	
176	747.300	747.341	RHS	9.000	L1	0.0405	Longitudinal Cracks	Stitching	
177	747.600	747.641	RHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
178	747.900	747.932	RHS	7	L2	0.0315	Longitudinal Cracks	Stitching	
179	748.180	748.230	RHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
180	748.300	748.354	RHS	12.000	L1&L2	0.054	Longitudinal Cracks	Stitching	
181	748.500	748.554	RHS	12	L1	0.054	Longitudinal Cracks	Stitching	
182	748.800	748.818	RHS	4	L1	0.018	Longitudinal Cracks	Stitching	
183	749.040	749.085	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
184	749.550	749.582	RHS	7	L1	0.0315	Longitudinal Cracks	Stitching	
185	750.320	750.352	RHS	7	L1	0.0315	Longitudinal Cracks	Stitching	
186	750.350	750.400	RHS	11	L1	0.0495	Longitudinal Cracks	Stitching	
187	750.420	750.474	RHS	12	L1	0.054	Longitudinal Cracks	Stitching	
188	750.540	750.585	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
189	750.540	750.585	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
190	750.900	750.963	RHS	14.000	L2	0.063	Multiple cracks	Stitching	
191	751.000	751.068	RHS	15	L1&L2	0.0675	Longitudinal Cracks	Stitching	
192	751.130	751.175	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
193	751.280	751.339	RHS	13	L1&L2	0.0585	Longitudinal Cracks	Stitching	

S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
194	751.480	751.525	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
195	751.730	751.775	RHS	10	L2	0.045	Longitudinal Cracks	Stitching	
196	752.400	752.445	RHS	10.000	L2	0.045	Longitudinal Cracks	Stitching	
197	752.550	752.663	RHS	25	L1&L2	0.1125	Longitudinal Cracks	Stitching	
198	752.780	752.852	RHS	16	L1	0.072	Longitudinal Cracks	Stitching	
199	752.950	752.995	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
200	752.950	752.991	RHS	9	L2	0.0405	Longitudinal Cracks	Stitching	
201	753.100	753.145	RHS	10	L1&L2	0.045	Longitudinal Cracks	Stitching	
202	755.120	755.161	RHS	9.000	L2	0.0405	Multiple cracks	Stitching	
203	755.500	755.545	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
204	755.720	755.770	RHS	11.000	L1	0.0495	Multiple cracks	Stitching	
205	756.100	756.141	RHS	9.000	L2	0.0405	Longitudinal Cracks	Stitching	
206	756.980	757.016	RHS	8.000	L2	0.036	Longitudinal Cracks	Stitching	
207	757.400	757.441	RHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
208	757.800	757.845	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
209	758.350	758.395	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
210	758.950	758.986	RHS	8	L1	0.036	Longitudinal Cracks	Stitching	
211	758.980	759.016	RHS	8	L1	0.036	Longitudinal Cracks	Stitching	
212	759.850	759.958	RHS	24	L1	0.108	Longitudinal Cracks	Stitching	
213	759.900	759.941	RHS	9	L2	0.0405	Longitudinal Cracks	Stitching	
214	760.100	760.145	RHS	10	L1&L2	0.045	Longitudinal Cracks	Stitching	
215	760.430	760.475	RHS	10.000	L1&L2	0.045	Multiple cracks	Stitching	
216	760.630	760.680	RHS	11.000	L1	0.0495	Longitudinal Cracks	Stitching	
217	760.700	760.741	RHS	9.000	L2	0.0405	Longitudinal Cracks	Stitching	
218	760.800	760.854	RHS	12	L1	0.054	Longitudinal Cracks	Stitching	
219	761.200	761.236	RHS	8.000	L2	0.036	Longitudinal Cracks	Stitching	
220	761.750	761.786	RHS	8	L2	0.036	Longitudinal Cracks	Stitching	
221	763.890	763.926	RHS	8	L1	0.036	Longitudinal Cracks	Stitching	
222	764.080	764.125	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
223	764.150	764.191	RHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
224	764.700	764.736	RHS	8	L1	0.036	Longitudinal Cracks	Stitching	
225	765.920	765.970	RHS	11	L2	0.0495	Longitudinal Cracks	Stitching	
226	766.440	766.490	RHS	11	L2	0.0495	Longitudinal Cracks	Stitching	
227	767.560	767.596	RHS	8	L1	0.036	Longitudinal Cracks	Stitching	
228	767.800	767.841	RHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
229	767.830	767.871	RHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
230	768.040	768.094	RHS	12	L2	0.054	Longitudinal Cracks	Stitching	
231	768.930	769.002	RHS	16	L1	0.072	Longitudinal Cracks	Stitching	
232	769.080	769.202	RHS	27	L1&L2	0.1215	Longitudinal Cracks	Stitching	

S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
233	769.240	769.357	RHS	26	L1&L2	0.117	Longitudinal Cracks	Stitching	
234	771.050	771.113	RHS	14	L1	0.063	Longitudinal Cracks	Stitching	
235	772.980	773.021	RHS	9	L1	0.0405	Longitudinal Cracks	Stitching	
236	795.260	795.305	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
237	795.400	795.463	RHS	14	L1&L2	0.063	Longitudinal Cracks	Stitching	
238	795.750	795.782	RHS	7	L1	0.0315	Longitudinal Cracks	Stitching	
239	795.750	795.804	RHS	12	L2	0.054	Longitudinal Cracks	Stitching	
240	795.820	795.874	RHS	12	L1	0.054	Longitudinal Cracks	Stitching	
241	795.750	795.791	RHS	9	L2	0.0405	Longitudinal Cracks	Stitching	
242	795.950	795.982	RHS	7	L2	0.0315	Longitudinal Cracks	Stitching	
243	798.950	798.995	RHS	10	L1	0.045	Longitudinal Cracks	Stitching	
244	798.950	798.986	RHS	8	L2	0.036	Longitudinal Cracks	Stitching	
245	799.180	799.225	RHS	10.000	L1	0.045	Longitudinal Cracks	Stitching	
246	800.050	800.118	RHS	15	L1&L2	0.0675	Longitudinal Cracks	Stitching	
Total						13.167	Road Marking		
		Total Panels		2929.000	13167		4397.778		

Project Name:- RKJL									
MAIN CARRIAGE WAY-SECTION -Rigid(Crack sealing with epoxy) PKG-02									
S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
1	727.050	727.131	LHS	18.000	L1	0.081	Longitudinal Cracks	Crack sealing with Epoxy	
2	729.820	729.897	LHS	17.000	L1&L2	0.0765	Longitudinal Cracks	Crack sealing with Epoxy	
3	730.800	730.868	LHS	15.000	L1	0.0675	Longitudinal Cracks	Crack sealing with Epoxy	
4	731.200	731.263	LHS	14.000	L2	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
5	731.970	732.038	LHS	15.000	L1&L2	0.0675	Longitudinal Cracks	Crack sealing with Epoxy	
6	733.600	733.735	LHS	30.000	L2	0.135	Longitudinal Cracks	Crack sealing with Epoxy	
7	733.800	733.868	LHS	15.000	L2	0.0675	Longitudinal Cracks	Crack sealing with Epoxy	
8	734.700	734.763	LHS	14.000	L1	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
9	740.780	740.848	LHS	15.000	L2	0.0675	Longitudinal Cracks	Crack sealing with Epoxy	
10	741.470	741.524	LHS	12.000	L1	0.054	Longitudinal Cracks	Crack sealing with Epoxy	
11	742.000	742.045	LHS	10.000	L1	0.045	Longitudinal Cracks	Crack sealing with Epoxy	
12	744.200	744.281	LHS	18.000	L1&L2	0.081	Longitudinal Cracks	Crack sealing with Epoxy	
13	748.240	748.362	LHS	27.000	L1	0.1215	Multiple cracks	Crack sealing with Epoxy	
14	749.370	749.451	LHS	18.000	L2	0.081	Longitudinal Cracks	Crack sealing with Epoxy	
15	752.250	752.349	LHS	22.000	L2	0.099	Longitudinal Cracks	Crack sealing with Epoxy	
16	766.680	766.766	LHS	19.000	L1	0.0855	Multiple cracks	Crack sealing with Epoxy	
17	767.900	768.035	LHS	30.000	L1	0.135	Longitudinal Cracks	Crack sealing with Epoxy	
18	769.520	769.601	LHS	18.000	L1&L2	0.081	Longitudinal Cracks	Crack sealing with Epoxy	
19	773.060	773.132	LHS	16.000	L2	0.072	Longitudinal Cracks	Crack sealing with Epoxy	
20	793.950	794.000	LHS	11.000	L1&L2	0.0495	Longitudinal Cracks	Crack sealing with Epoxy	
21	795.100	795.168	LHS	15.000	L1	0.0675	Longitudinal Cracks	Crack sealing with Epoxy	
22	795.200	795.286	LHS	19.000	L2	0.0855	Longitudinal Cracks	Crack sealing with Epoxy	
23	796.200	796.290	LHS	20.000	L1	0.09	Longitudinal Cracks	Crack sealing with Epoxy	
24	796.430	796.493	LHS	14.000	L2	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
25	796.800	796.958	LHS	35.000	L1	0.1575	Multiple cracks	Crack sealing with Epoxy	
26	797.100	797.163	LHS	14.000	L1	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
27	797.150	797.209	LHS	13.000	L2	0.0585	Transverse Cracks	Crack sealing with Epoxy	
28	797.150	797.204	LHS	12.000	L1	0.054	Transverse Cracks	Crack sealing with Epoxy	
29	798.550	798.609	LHS	13.000	L1&L2	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
30	800.050	800.163	LHS	25.000	L2	0.1125	Longitudinal Cracks	Crack sealing with Epoxy	
31	726.520	726.583	RHS	14.000	L2	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
32	732.310	732.423	RHS	25.000	L2	0.1125	Longitudinal Cracks	Crack sealing with Epoxy	
33	732.380	732.439	RHS	13.000	L1&L2	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
34	732.390	732.444	RHS	12.000	L1&L2	0.054	Transvers cracks	Crack sealing with Epoxy	
35	732.390	732.480	RHS	20.000	L1&L2	0.09	Longitudinal Cracks	Crack sealing with Epoxy	
36	732.390	732.458	RHS	15.000	L1&L2	0.0675	Longitudinal Cracks	Crack sealing with Epoxy	

S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
37	732.550	732.613	RHS	14.000	L1	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
38	732.600	732.668	RHS	15.000	L2	0.0675	Longitudinal Cracks	Crack sealing with Epoxy	
39	732.630	732.702	RHS	16.000	L1	0.072	Longitudinal crack	Crack sealing with Epoxy	
40	734.540	734.630	RHS	20.000	L1	0.09	Longitudinal crack	Crack sealing with Epoxy	
41	734.560	734.628	RHS	15.000	L1	0.0675	Longitudinal crack	Crack sealing with Epoxy	
42	734.580	734.657	RHS	17.000	L2	0.0765	Longitudinal crack	Crack sealing with Epoxy	
43	734.600	734.677	RHS	17.000	L1	0.0765	Longitudinal crack	Crack sealing with Epoxy	
44	737.500	737.572	RHS	16.000	L1	0.072	Longitudinal Cracks	Crack sealing with Epoxy	
45	737.950	738.040	RHS	20.000	L1	0.09	Longitudinal Cracks	Crack sealing with Epoxy	
46	739.100	739.168	RHS	15.000	L2	0.0675	Longitudinal Cracks	Crack sealing with Epoxy	
47	739.250	739.313	RHS	14.000	L2	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
48	740.100	740.150	RHS	11.000	L1	0.0495	Tranverse cracks	Crack sealing with Epoxy	
49	740.300	740.359	RHS	13.000	L2	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
50	740.420	740.510	RHS	20.000	L1	0.09	Longitudinal Cracks	Crack sealing with Epoxy	
51	741.430	741.489	RHS	13.000	L1	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
52	741.450	741.513	RHS	14.000	L1	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
53	741.450	741.513	RHS	14.000	L2	0.063	Multiple cracks	Crack sealing with Epoxy	
54	742.250	742.309	RHS	13.000	L2	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
55	742.680	742.739	RHS	13.000	L1&L2	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
56	742.780	742.857	RHS	17.000	L1	0.0765	Longitudinal Cracks	Crack sealing with Epoxy	
57	752.200	752.286	RHS	19.000	L2	0.0855	Longitudinal Cracks	Crack sealing with Epoxy	
58	752.330	752.474	RHS	32.000	L1	0.144	Longitudinal Cracks	Crack sealing with Epoxy	
59	753.580	753.679	RHS	22.000	L2	0.099	Longitudinal Cracks	Crack sealing with Epoxy	
60	753.630	753.729	RHS	22.000	L1	0.099	Multiple cracks	Crack sealing with Epoxy	
61	754.580	754.675	RHS	21.000	L1	0.0945	Longitudinal Cracks	Crack sealing with Epoxy	
62	761.600	761.663	RHS	14.000	L1	0.063	Multiple cracks	Crack sealing with Epoxy	
63	762.320	762.383	RHS	14.000	L1	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
64	762.700	762.754	RHS	12.000	L1	0.054	Longitudinal Cracks	Crack sealing with Epoxy	
65	763.650	763.713	RHS	14.000	L2	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
66	763.650	763.718	RHS	15.000	L1	0.0675	Tranverse cracks	Crack sealing with Epoxy	
67	766.100	766.213	RHS	25.000	L1&L2	0.1125	Longitudinal Cracks	Crack sealing with Epoxy	
68	766.200	766.295	RHS	21.000	L1	0.0945	Longitudinal Cracks	Crack sealing with Epoxy	
69	768.480	768.539	RHS	13.000	L1	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
70	768.600	768.690	RHS	20.000	L2	0.09	Longitudinal Cracks	Crack sealing with Epoxy	
71	768.820	768.883	RHS	14.000	L2	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
72	769.400	769.459	RHS	13.000	L1	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
73	769.660	769.741	RHS	18.000	L1	0.081	Longitudinal Cracks	Crack sealing with Epoxy	
74	770.400	770.513	RHS	25.000	L2	0.1125	Longitudinal Cracks	Crack sealing with Epoxy	

S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
75	770.770	770.896	RHS	28.000	L2	0.126	Longitudinal Cracks	Crack sealing with Epoxy	
76	770.800	770.899	RHS	22.000	L2	0.099	Longitudinal Cracks	Crack sealing with Epoxy	
77	771.260	771.323	RHS	14.000	L1&L2	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
78	771.870	771.924	RHS	12.000	L1	0.054	Longitudinal Cracks	Crack sealing with Epoxy	
79	773.300	773.386	RHS	19.000	L1	0.0855	Longitudinal Cracks	Crack sealing with Epoxy	
80	773.500	773.599	RHS	22.000	L1&L2	0.099	Longitudinal Cracks	Crack sealing with Epoxy	
81	793.500	793.599	RHS	22.000	L1	0.099	Longitudinal Cracks	Crack sealing with Epoxy	
82	794.950	795.036	RHS	19.000	L2	0.0855	Multiple cracks	Crack sealing with Epoxy	
83	796.400	796.463	RHS	14.000	L1	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
84	796.800	796.890	RHS	20.000	L1	0.09	Tranverse cracks	Crack sealing with Epoxy	
85	796.900	796.977	RHS	17.000	L2	0.0765	Longitudinal Cracks	Crack sealing with Epoxy	
86	797.000	797.099	RHS	22.000	L1	0.099	Multiple cracks	Crack sealing with Epoxy	
87	797.050	797.113	RHS	14.000	L1&L2	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
88	797.050	797.109	RHS	13.000	L1	0.0585	Tranverse cracks	Crack sealing with Epoxy	
89	798.680	798.770	RHS	20.000	L1&L2	0.09	Longitudinal Cracks	Crack sealing with Epoxy	
90	798.850	798.922	RHS	16.000	L1	0.072	Longitudinal Cracks	Crack sealing with Epoxy	
91	799.180	799.306	RHS	28.000	L1	0.126	Longitudinal Cracks	Crack sealing with Epoxy	
92	800.500	800.559	RHS	13.000	L1&L2	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
93	800.500	800.622	RHS	27.000	L1&L2	0.1215	Tranverse cracks	Crack sealing with Epoxy	
94	800.600	800.654	RHS	12.000	L1&L2	0.054	Longitudinal Cracks	Crack sealing with Epoxy	
95	801.050	801.145	RHS	21.000	L1&L2	0.0945	Longitudinal Cracks	Crack sealing with Epoxy	
96	801.200	801.286	RHS	19.000	L1&L2	0.0855	Longitudinal Cracks	Crack sealing with Epoxy	
97	801.650	801.727	RHS	17.000	L1&L2	0.0765	Multiple cracks	Crack sealing with Epoxy	
98	802.300	802.354	RHS	12.000	L1&L2	0.054	Longitudinal Cracks	Crack sealing with Epoxy	
99	802.500	802.613	RHS	25.000	L1&L2	0.1125	Longitudinal Cracks	Crack sealing with Epoxy	
100	802.900	802.972	RHS	16.000	L1&L2	0.072	Longitudinal Cracks	Crack sealing with Epoxy	
101	803.500	803.599	RHS	22.000	L1&L2	0.099	Longitudinal Cracks	Crack sealing with Epoxy	
102	804.550	804.618	RHS	15.000	L1	0.0675	Longitudinal Cracks	Crack sealing with Epoxy	
103	804.700	804.759	RHS	13.000	L1	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
104	804.880	804.988	RHS	24.000	L1	0.108	Longitudinal Cracks	Crack sealing with Epoxy	
105	804.900	804.954	RHS	12.000	L2	0.054	Longitudinal Cracks	Crack sealing with Epoxy	
106	805.050	805.104	RHS	12.000	L1	0.054	Longitudinal Cracks	Crack sealing with Epoxy	
107	807.450	807.518	RHS	15.000	L2	0.0675	Multiple cracks	Crack sealing with Epoxy	
108	807.630	807.716	RHS	19.000	L2	0.0855	Longitudinal Cracks	Crack sealing with Epoxy	
109	807.800	807.854	RHS	12.000	L1	0.054	Multiple cracks	Crack sealing with Epoxy	
110	807.820	807.888	RHS	15.000	L1	0.0675	Multiple cracks	Crack sealing with Epoxy	
111	807.820	807.879	RHS	13.000	L2	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
112	808.120	808.201	RHS	18.000	L2	0.081	Multiple cracks	Crack sealing with Epoxy	

S. No.	Starting Chainage	Ending Chainage	Side	No. of panels	Lane	Length (km)	Observation	Methodology	Remarks
113	809.200	809.259	RHS	13.000	L1	0.0585	Longitudinal Cracks	Crack sealing with Epoxy	
114	809.210	809.264	RHS	12.000	L2	0.054	Longitudinal Cracks	Crack sealing with Epoxy	
115	809.520	809.574	RHS	12.000	L2	0.054	Longitudinal Cracks	Crack sealing with Epoxy	
116	811.300	811.363	RHS	14.000	L2	0.063	Longitudinal Cracks	Crack sealing with Epoxy	
117	812.320	812.388	RHS	15.000	L1	0.0675	Longitudinal Cracks	Crack sealing with Epoxy	
118	812.850	812.927	RHS	17.000	L1	0.0765	Longitudinal Cracks	Crack sealing with Epoxy	
119	812.950	813.031	RHS	18.000	L2	0.081	Longitudinal Cracks	Crack sealing with Epoxy	
120	812.960	813.059	RHS	22.000	L1	0.099	Multiple cracks	Crack sealing with Epoxy	
121	812.970	813.060	RHS	20.000	L2	0.09	Longitudinal Cracks	Crack sealing with Epoxy	
				Total Length		9.4095			
		Total Panel		2091.000		9409.5			

Project Name:- RKJL																				
MAIN CARRIAGE WAY-SECTION (RIGID) PKG-04																				
S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panel	Length (m)	Observations	Type of Rectification	Measurement (M)				Panel Replacement (DLC)	Panel Replacement (PQC)	Quantity			Dowel & Tie Bar Panel Replacement (MT)		Remarks
									L	B	DLC Thick	PQC Thick			Cross Stitching	Partial Panel Replacement	Crack Sealing			
																		Cum	Cum	
1	813+260	813+310	LHS	L1	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
2	813+260	813+310	LHS	L2	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
3	813+310	813+328	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18	-	-	
4	813+310	813+342	LHS	L2	7	31.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					31.5	-	-	
5	813+328	813+346	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18	-	-	
6	813+342	813+373	LHS	L2	7	31.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					31.5	-	-	
7	813+390	813+444	LHS	L1	12	54.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					54	-	-	
8	813+560	813+574	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
9	813+992	814+010	RHS	L1	2	9.00	Longitudinal crack	Cross Sttiching	4.5	5	0.15	0.3			9			-	-	
10	814+550	814+573	LHS	L2	5	22.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					22.5	-	-	
11	814+573	814+577	LHS	L2	1	4.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					4.5	-	-	
12	814+580	814+603	LHS	L1	5	22.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					22.5	-	-	
13	814+620	814+800	LHS	L2	3	13.50	Joint Separation	Cross Stitching	4.5	5	0.15	0.3			17.55			-	-	
14	814+650	814+677	LHS	L1	6	27.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					27	-	-	
15	814+771	814+780	RHS	L1	2	9.00	Map cracking, Longitudinal cracks Bridge Approach	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
16	814+771	814+780	RHS	L2	2	9.00	Map cracking, Longitudinal cracks Bridge Approach	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
17	814+846	814+900	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
18	814+850	814+895	LHS	L2	3	13.50	Joint Separation	Cross Stitching	4.5	5	0.15	0.3			17.55			-	-	
19	814+873	814+900	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
20	814+874	814+950	RHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
21	815+156	815+250	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
22	815+180	815+194	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
23	815+180	815+221	LHS	L2	9	40.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					40.5	-	-	
24	815+520	815+552	LHS	L2	7	31.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					31.5	-	-	
25	815+580	815+603	LHS	L2	5	22.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					22.5	-	-	
26	815+610	815+628	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18	-	-	
27	815+780	815+807	LHS	L2	6	27.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					27	-	-	
28	816+420	816+447	LHS	L1	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
29	816+420	816+447	LHS	L2	6	27.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			27			-	-	
30	816+470	816+475	LHS	L2	1	4.50	Pothole	Partial Panel Replacement	2	2	0.15	0.3				0.9		-	-	
31	816+480	816+485	LHS	L2	1	4.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					4.5	-	-	
32	816+820	816+847	LHS	L2	6	27.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					27	-	-	
33	816+830	816+839	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
34	817+910	817+950	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
35	818+320	818+329	LHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
36	818+332	818+350	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
37	818+390	818+413	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
38	818+430	818+439	LHS	L1	2	9.00	Longitudinal crack, Bridge approach	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
39	818+442	818+500	RHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
40	818+450	818+527	LHS	L1	3	13.50	Longitudinal crack, Bridge approach	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
41	818+490	818+513	LHS	L2	3	13.50	Longitudinal crack, Bridge approach	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
42	818+491	818+500	RHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
43	818+510	818+537	LHS	L2	6	27.00	Longitudinal crack, Bridge approach	Cross Stitching	4.5	5	0.15	0.3			27			-	-	
44	818+530	818+539	LHS	L1	2	9.00	Transverse crack	Panel Replacement	4.5	5	0.15	0.3	6.075	12.15				0.1		0.1
45	818+570	818+593	LHS	L2	5	22.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					22.5	-	-	
46	818+622	818+640	RHS	L1	3	13.50	Map cracking	Panel Replacement	4.5	5	0.15	0.3	9.1125	18.225				0.1		0.1
47	818+680	818+698	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18	-	-	
48	818+720	818+734	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
49	818+820	818+852	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
50	818+837	818+850	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
51	818+866	818+870	RHS	L2	1	4.50	Corner break	Partial Panel Replacement	1.5	1	0.15	0.3				0.45		-	-	
52	818+901	818+950	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
53	818+903	818+930	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
54	818+932	818+950	RHS	L2	2	9.00	Longitudinal crack	Cross Sttiching	4.5	5	0.15	0.3			9			-	-	
55	819+000	819+027	LHS	L2	6	27.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			27			-	-	
56	819+040	819+054	LHS	L2	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
57	819+070	819+097	LHS	L2	6	27.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					27	-	-	
58	819+560	819+569	LHS	L2	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
59	819+880	819+934	LHS	L1	6	27.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			27			-	-	

MAIN CARRIAGE WAY-SECTION (RIGID) PKG-04																				
S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panel	Length (m)	Observations	Type of Rectification	Measurement (M)				Panel Replacement (DLC)	Panel Replacement (PQC)	Quantity			Dowel & Tie Bar Panel Replacement (MT)		Remarks
									L	B	DLC Thick	PQC Thick			Cross Stitching	Partial Panel Replacement	Crack Sealing			
																		Cum	Cum	
60	821+137	821+150	RHS	L1	3	13.50	Map cracking & Longitudinal cracks VUP Approach	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
61	821+137	821+150	RHS	L2	3	13.50	Map cracking & Longitudinal cracks VUP Approach	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
62	821+161	821+170	RHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
63	821+170	821+197	LHS	L1	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
64	821+170	821+197	LHS	L2	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
65	821+200	821+209	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
66	821+260	821+269	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
67	821+367	821+380	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
68	821+384	821+420	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
69	821+398	821+420	RHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
70	821+480	821+498	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18	-	-	
71	821+820	821+829	LHS	L2	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
72	821+970	821+979	LHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
73	822+280	822+312	LHS	L1	7	31.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					31.5	-	-	
74	822+280	822+303	LHS	L2	5	22.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					22.5	-	-	
75	823+538	823+560	RHS	L1	2	9.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
76	823+560	823+600	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
77	823+940	823+958	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18	-	-	
78	824+520	824+525	LHS	L2	1	4.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					4.5	-	-	
79	824+540	824+549	LHS	L2	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
80	824+588	824+590	RHS	L1	1	4.50	Cracks & spalling at joint	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075			0.0		0.0	
81	824+607	824+620	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
82	824+778	824+800	RHS	L1	2	9.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
83	824+851	824+860	RHS	L2	2	9.00	Longitudinal crack & spalling at joint	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
84	824+980	824+989	LHS	L2	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
85	825+010	825+028	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
86	825+030	825+035	LHS	L2	1	4.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
87	825+056	825+060	RHS	L1	1	4.50	Corner break	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
88	825+070	825+106	LHS	L1	8	36.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					36	-	-	
89	825+070	825+079	LHS	L2	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
90	825+180	825+194	LHS	L2	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
91	825+230	825+244	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
92	825+250	825+264	LHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
93	825+738	825+760	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
94	825+758	825+780	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
95	825+800	825+805	LHS	L2	1	4.50	Pothole	Partial Panel Replacement	1.5	2	0.15	0.3				0.765		-	-	
96	825+904	825+940	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
97	826+160	826+205	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
98	826+206	826+210	RHS	L1	1	4.50	Pothole 1*1mtr	Partial Panel Replacement	1	1	0.15	0.3				0.15		-	-	
99	826+270	826+324	LHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
100	826+330	826+384	LHS	L2	12	54.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					54	-	-	
101	826+557	826+570	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
102	826+557	826+570	RHS	L2	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
103	826+611	826+620	RHS	L1	2	9.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
104	826+616	826+620	RHS	L2	1	4.50	Corner break	Partial Panel Replacement	2	1	0.15	0.3				0.72		-	-	
105	826+840	826+854	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
106	826+870	826+875	LHS	L1	1	4.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					4.5	-	-	
107	826+870	826+875	LHS	L2	1	4.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					4.5	-	-	
108	826+890	826+895	LHS	L2	1	4.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					4.5	-	-	
109	826+890	826+895	LHS	L1	1	4.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					4.5	-	-	
110	826+900	826+918	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
111	827+643	827+670	RHS	L1	3	13.50	Longitudinal Cracks	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
112	827+773	827+800	RHS	L1	3	13.50	Joint separation	Cross Stitching	4.5	5	0.15	0.3			17.55			-	-	
113	827+841	827+890	RHS	L1	2	9.00	Joint separation	Cross Stitching	4.5	5	0.15	0.3			11.7			-	-	
114	827+881	827+890	RHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
115	827+967	827+980	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
116	827+987	828+000	RHS	L2	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
117	827+994	828+030	RHS	L1	2	9.00	Joint separation	Cross Stitching	4.5	5	0.15	0.3			11.7			-	-	
118	828+031	828+040	RHS	L1	2	9.00	Diagonal crack	Panel Replacement	4.5	5	0.15	0.3	6.075	12.15			0.1		0.1	
119	828+031	828+040	RHS	L2	2	9.00	Diagonal crack	Panel Replacement	4.5	5	0.15	0.3	6.075	12.15			0.1		0.1	

MAIN CARRIAGE WAY-SECTION (RIGID) PKG-04																						
S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panel	Length (m)	Observations	Type of Rectification	Measurement (M)				Panel Replacement (DLC)	Panel Replacement (PQC)	Quantity					Dowel & Tie Bar Panel Replacement (MT)		Remarks
									L	B	DLC Thick	PQC Thick			Cross Stitching	Partial Panel Replacement	Crack Sealing					
																		Cum	Cum	Rm	Cum	
120	828+066	828+070	RHS	L2	1	4.50	Map cracking	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075					0.0	0.0		
121	828+083	828+200	RHS	L1	3	13.50	Joint separation	Cross Stitching	4.5	5	0.15	0.3			17.55				-	-		
122	828+311	828+320	RHS	L1	2	9.00	Joint separation and spalling at joint	Cross Stitching	4.5	5	0.15	0.3			11.7				-	-		
123	828+721	828+730	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9				-	-		
124	828+732	828+750	RHS	L1	2	9.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			9				-	-		
125	828+764	828+800	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
126	828+810	828+837	LHS	L1	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			22.5				-	-		
127	828+950	828+964	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
128	829+300	829+314	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
129	829+314	829+327	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5		-	-		
130	829+400	829+409	LHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9				-	-		
131	829+430	829+439	LHS	L2	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9		-	-		
132	829+500	829+514	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
133	829+529	829+560	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9				-	-		
134	829+571	829+580	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9				-	-		
135	829+590	829+595	LHS	L2	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5				-	-		
136	829+611	829+620	RHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9				-	-		
137	830+730	830+753	LHS	L2	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			22.5				-	-		
138	830+730	830+748	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
139	830+760	830+774	LHS	L1	3	13.50	Diagonal crack	Panel Replacement	4.5	5	0.15	0.3	9.1125	18.225					0.1	0.1		
140	830+800	830+845	LHS	L1	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			22.5				-	-		
141	830+828	830+850	RHS	L2	3	13.50	Longitudinal crack MNB Approach	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
142	830+828	830+850	RHS	L1	3	13.50	Map cracking	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
143	830+863	830+890	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
144	830+900	830+909	LHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9				-	-		
145	831+070	831+093	LHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
146	831+145	831+190	RHS	L2	6	27.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			27				-	-		
147	831+152	831+170	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
148	831+181	831+190	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9				-	-		
149	831+570	831+588	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18		-	-		
150	832+187	832+200	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
151	832+220	832+225	LHS	L1	1	4.50	Map cracking	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075					0.0	0.0		
152	832+240	832+245	LHS	L2	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5				-	-		
153	832+252	832+270	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
154	832+257	832+270	RHS	L2	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
155	832+450	832+486	LHS	L2	8	36.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					36		-	-		
156	833+280	833+298	LHS	L2	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18		-	-		
157	833+706	833+710	RHS	L1	1	4.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			4.5				-	-		
158	833+722	833+740	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
159	833+750	833+755	LHS	L1	1	4.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			4.5				-	-		
160	833+810	833+828	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18		-	-		
161	833+830	833+866	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5				-	-		
162	834+160	834+169	LHS	L2	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9		-	-		
163	834+160	834+165	LHS	L1	1	4.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					4.5		-	-		
164	834+640	834+645	LHS	L1	1	4.50	Map cracking	Crack Sealing	4.5	5	0.15	0.3					4.5		-	-		
165	834+640	834+645	LHS	L2	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5				-	-		
166	834+660	834+665	LHS	L1	1	4.50	Ravelling	Partial depth repairing	4.5	5	0.15	0.1				2.025			-	-		
167	835+166	835+170	RHS	L1	1	4.50	Spalling at joint	Cross Stitching	4.5	5	0.15	0.3			5.85				-	-		
168	835+397	835+410	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
169	835+397	835+410	RHS	L2	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
170	835+861	835+870	RHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9				-	-		
171	835+870	835+897	LHS	L2	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5				-	-		
172	835+880	835+894	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
173	835+930	835+948	LHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
174	835+940	835+963	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
175	836+000	836+018	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
176	836+100	836+114	LHS	L1	3	13.50	Map cracking, Longitudinal cracks	Cross Stitching	4.5	5	0.15	0.3			13.5				-	-		
177	836+100	836+141	LHS	L2	6	27.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			27				-	-		
178	836+130	836+135	LHS	L1	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5				-	-		
179	836+150	836+159	LHS	L1	2	9.00	Transverse crack	Panel Replacement	4.5	5	0.15	0.3	6.075	12.15					0.1	0.1		

MAIN CARRIAGE WAY-SECTION (RIGID) PKG-04																						
S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panel	Length (m)	Observations	Type of Rectification	Measurement (M)				Panel Replacement (DLC)	Panel Replacement (PQC)	Quantity					Dowel & Tie Bar Panel Replacement (MT)		Remarks
									L	B	DLC Thick	PQC Thick			Cross Stitching	Partial Panel Replacement	Crack Sealing					
																		Cum	Cum	Rm	Cum	
180	836+500	836+505	LHS	L1	1	4.50	Transverse crack, spalling at joint	Cross Stitching	4.5	5	0.15	0.3			5.85			-	-			
181	836+500	836+505	LHS	L2	1	4.50	Transverse crack, spalling at joint	Cross Stitching	4.5	5	0.15	0.3			5.85			-	-			
182	837+120	837+134	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
183	837+140	837+154	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3				13.5		-	-			
184	837+300	837+309	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3				9		-	-			
185	837+360	837+369	LHS	L1	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
186	838+273	838+300	RHS	L1	6	27.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			27			-	-			
187	838+321	838+330	RHS	L1	2	9.00	Spolling at joint	Cross Sttching	4.5	5	0.15	0.3			11.7			-	-			
188	838+388	838+460	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
189	838+443	838+470	RHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
190	838+456	838+510	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
191	838+477	838+490	RHS	L2	3	13.50	Diagonal crack	Panel Replacement	4.5	5	0.15	0.3	9.1125	18.225			0.1		0.1			
192	838+620	838+683	LHS	L1	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
193	838+620	838+697	LHS	L2	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
194	838+727	838+740	RHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
195	838+750	838+755	LHS	L1	1	4.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			4.5			-	-			
196	838+770	838+797	LHS	L1	6	27.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			27			-	-			
197	838+791	838+800	RHS	L1	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
198	838+812	838+830	RHS	L1	3	13.50	Joint sepration	Cross Sttching	4.5	5	0.15	0.3			17.55			-	-			
199	838+824	838+860	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
200	839+200	839+205	LHS	L1	1	4.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			4.5			-	-			
201	839+267	839+280	RHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
202	839+280	839+294	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
203	839+300	839+327	LHS	L2	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
204	839+320	839+329	LHS	L1	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
205	839+322	839+340	RHS	L2	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
206	839+371	839+380	RHS	L1	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
207	839+391	839+400	RHS	L1	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
208	839+711	839+720	RHS	L1	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
209	839+750	839+759	LHS	L1	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
210	839+780	839+789	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3				9		-	-			
211	839+963	839+990	RHS	L2	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
212	839+977	839+990	RHS	L1	3	13.50	Map cracking	Partial Panel Replacement	2.5	5	0.15	0.3				10.125		-	-			
213	839+980	839+994	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
214	839+998	840+020	RHS	L2	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
215	840+008	840+030	RHS	L2	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
216	840+017	840+030	RHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
217	840+019	840+100	RHS	L1,L2	5	22.50	Joint sepration	Cross Sttching	4.5	5	0.15	0.3			29.25			-	-			
218	840+061	840+070	RHS	L1	2	9.00	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
219	840+200	840+232	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
220	840+271	840+320	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
221	840+300	840+314	LHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
222	840+313	840+380	RHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
223	840+780	840+870	RHS	L2	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
224	841+249	841+280	RHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
225	841+300	841+332	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
226	841+330	841+339	LHS	L1	2	9.00	Longitudinal crack & Corner break	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
227	841+350	841+368	LHS	L2	3	13.50	Map cracking, Longitudinal cracks & BC ravelling, potholes	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
228	841+400	841+414	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
229	842+093	842+120	RHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
230	842+107	842+120	RHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
231	842+180	842+220	RHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
232	842+193	842+220	RHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
233	842+200	842+245	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
234	842+250	842+264	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
235	842+300	842+309	LHS	L2	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
236	842+300	842+359	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
237	842+431	842+440	RHS	L1	1	4.50	Map cracking	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075			0.0		0.0			
238	842+436	842+440	RHS	L2	2	9.00	Map cracking	Partial Panel Replacement	2	5	0.15	0.3				5.4		-	-			
239	842+448	842+470	RHS	L2	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			

MAIN CARRIAGE WAY-SECTION (RIGID) PKG-04																				
S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panel	Length (m)	Observations	Type of Rectification	Measurement (M)				Panel Replacement (DLC)	Panel Replacement (PQC)	Quantity			Dowel & Tie Bar Panel Replacement (MT)		Remarks
									L	B	DLC Thick	PQC Thick			Cross Stitching	Partial Panel Replacement	Crack Sealing			
																		Cum	Cum	
240	842+460	842+465	LHS	L1	1	4.50	Diagonal crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
241	842+466	842+470	RHS	L1	1	4.50	Punchout map cracking	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075				0.0	0.0	
242	842+480	842+503	LHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
243	842+490	842+508	LHS	L1	3	13.50	Diagonal crack	Panel Replacement	4.5	5	0.15	0.3	9.1125	18.225				0.1	0.1	
244	842+516	842+570	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
245	842+520	842+529	LHS	L2	2	9.00	Diagonal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
246	842+520	842+655	LHS	L1	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	v	0.15	0.3			22.5			-	-	
247	842+860	842+865	LHS	L1	2	9.00	Pothole	Partial Panel Replacement	1	5	0.15	0.3				2.7		-	-	
248	843+000	843+018	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18	-	-	
249	843+030	843+048	LHS	L2	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18	-	-	
250	843+200	843+205	LHS	L1	2	9.00	Pothole	Partial Panel Replacement	1	5	0.15	0.3				2.7		-	-	
251	843+370	843+379	LHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
252	843+550	843+559	LHS	L1	2	9.00	Longitudinal cracks, Punchout	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
253	843+550	843+555	LHS	L2	1	4.50	Longitudinal cracks, Punchout	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
254	843+620	843+625	LHS	L1	1	4.50	Longitudinal cracks, Punchout	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
255	843+620	843+625	LHS	L2	1	4.50	Longitudinal cracks, Punchout	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
256	843+893	843+920	RHS	L1,L2	3	13.50	Joint separation	Cross Stitching	4.5	5	0.15	0.3			17.55			-	-	
257	843+901	843+910	RHS	L2	3	13.50	Diagonal crack	Panel Replacement	4.5	5	0.15	0.3	9.1125	18.225				0.1	0.1	
258	843+920	843+947	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
259	843+920	843+947	LHS	L2	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
260	843+921	843+930	RHS	L2	2	9.00	Diagonal crack	Cross Stitching	4.5	5	0.15	0.3			11.7			-	-	
261	843+921	843+930	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
262	843+969	844+000	RHS	L2	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
263	843+982	844+000	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
264	843+985	844+030	RHS	L1,L2	3	13.50	Joint separation	Cross Stitching	4.5	5	0.15	0.3			17.55			-	-	
265	844+000	844+009	LHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
266	844+020	844+038	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
267	844+081	844+130	RHS	L2	4	18.00	Longitudinal cracks observed	Partial Panel Replacement	4.5	1	0.15	0.3				2.7		-	-	
268	844+270	844+275	LHS	L1	1	4.50	Longitudinal crack & pothole	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
269	844+430	844+439	LHS	L2	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
270	844+540	844+572	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
271	844+570	844+606	LHS	L1	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
272	844+570	844+606	LHS	L2	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
273	844+630	844+648	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
274	844+891	844+900	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
275	844+917	844+930	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
276	844+937	844+950	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
277	844+956	845+010	RHS	L2	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
278	844+990	844+995	LHS	L2	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
279	845+100	845+109	LHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
280	845+109	845+118	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
281	845+200	845+205	LHS	L1	1	4.50	Transverse crack	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075				0.0	0.0	
282	845+400	845+409	LHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
283	845+540	845+572	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
284	845+546	845+600	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
285	845+600	845+618	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
286	845+640	845+654	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
287	845+641	845+650	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
288	845+700	845+705	LHS	L2	1	4.50	Corner break	Partial Panel Replacement	1.5	5	0.15	0.3				2.025		-	-	
289	845+800	845+908	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
290	845+960	846+005	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
291	846+100	846+109	LHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
292	846+200	846+214	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
293	846+230	846+248	LHS	L1	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
294	846+341	846+350	RHS	L1	2	9.00	Map cracking	Panel Replacement	4.5	5	0.15	0.3	6.075	12.15				0.1	0.1	
295	846+382	846+400	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
296	846+390	846+399	LHS	L2	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
297	846+400	846+409	LHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
298	846+500	846+532	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
299	846+630	846+635	LHS	L1	1	4.50	Pothole	Partial Panel Replacement	2	1	0.15	0.3				0.72		-	-	

MAIN CARRIAGE WAY-SECTION (RIGID) PKG-04																						
S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panel	Length (m)	Observations	Type of Rectification	Measurement (M)				Panel Replacement (DLC)	Panel Replacement (PQC)	Quantity					Dowel & Tie Bar Panel Replacement (MT)		Remarks
									L	B	DLC Thick	PQC Thick			Cross Stitching	Partial Panel Replacement	Crack Sealing					
																		Cum	Cum	Rm	Cum	
300	846+832	846+850	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-			
301	846+846	846+900	RHS	L2	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-			
302	846+874	846+950	RHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
303	846+918	846+940	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-			
304	846+956	846+960	RHS	L2	1	4.50	Diagonal crack	Partial Panel Replacement	1.5	5	0.15	0.3				2.025		-	-			
305	846+966	846+970	RHS	L2	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-			
306	846+991	847+000	RHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-			
307	847+010	847+050	RHS	L2	7	31.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			31.5			-	-			
308	847+020	847+056	LHS	L2	8	36.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3				36		-	-			
309	847+123	847+150	RHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-			
310	847+137	847+150	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-			
311	847+157	847+170	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-			
312	847+200	847+214	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-			
313	847+600	847+605	LHS	L1	1	4.50	Pothole	Partial Panel Replacement	1.2	2	0.15	0.3				0.27		-	-			
314	847+667	847+680	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-			
315	847+696	847+700	RHS	L1	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-			
316	847+696	847+700	RHS	L2	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-			
317	847+767	847+780	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-			
318	847+782	847+800	RHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-			
319	847+887	847+900	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-			
320	847+901	847+950	RHS	L1	6	27.00	Multiple cracks, Longitudinal cracks Observed	Cross Stitching	4.5	5	0.15	0.3			27			-	-			
321	847+972	847+990	RHS	L2	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
322	847+989	848+020	RHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-			
323	848+064	848+100	RHS	L2	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
324	848+119	848+200	RHS	L2	6	27.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			27			-	-			
325	848+220	848+225	LHS	L1	1	4.50	Pothole	Partial Panel Replacement	1.5	2	0.15	0.3				0.405		-	-			
326	848+700	848+718	LHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
327	848+777	849+020	RHS	L1	6	27.00	Multiple cracks, Longitudinal cracks Observed	Cross Stitching	4.5	5	0.15	0.3			27			-	-			
328	848+800	848+814	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
329	848+882	848+900	RHS	L2	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
330	848+980	848+985	LHS	L1	1	4.50	Pothole	Partial Panel Replacement	2	1	0.15	0.3				0.36		-	-			
331	849+100	849+109	LHS	L2	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-			
332	849+100	849+109	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-			
333	849+200	849+236	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
334	849+450	849+563	LHS	L2	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
335	849+540	849+554	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-			
336	849+580	849+594	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
337	850+100	850+114	LHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
338	850+114	850+127	LHS	L2	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-			
339	850+350	850+355	LHS	L2	1	4.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			4.5			-	-			
340	850+760	850+796	LHS	L1	8	36.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					36	-	-			
341	850+760	850+774	LHS	L2	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-			
342	850+800	850+814	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
343	850+850	850+900	LHS	L1	5	22.50	Map cracking	Cross Sttching	4.5	5	0.15	0.3			29.25			-	-			
344	851+180	851+189	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-			
345	851+300	851+314	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
346	851+450	851+459	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-			
347	851+620	851+629	LHS	L1	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
348	851+720	851+747	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
349	851+759	851+790	RHS	L1	5	22.50	Map Cracking	Cross Sttching	4.5	5	0.15	0.3			29.25			-	-			
350	851+762	851+780	RHS	L2	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
351	851+803	851+830	RHS	L2	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
352	851+820	851+829	LHS	L2	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-			
353	851+846	851+850	RHS	L1	1	4.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			4.5			-	-			
354	851+970	851+997	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-			
355	852+000	852+009	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-			
356	852+210	852+260	LHS	L1	7	31.50	Longitudinal crack & spalling at joint	Cross Sttching	4.5	5	0.15	0.3			31.5			-	-			
357	852+250	852+264	LHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-			
358	852+600	852+609	LHS	L1	2	9.00	Longitudinal crack & spalling at joint	Cross Sttching	4.5	5	0.15	0.3			9			-	-			
359	852+780	852+794	LHS	L2	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-			

MAIN CARRIAGE WAY-SECTION (RIGID) PKG-04																				
S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panel	Length (m)	Observations	Type of Rectification	Measurement (M)				Panel Replacement (DLC)	Panel Replacement (PQC)	Quantity			Dowel & Tie Bar Panel Replacement (MT)		Remarks
									L	B	DLC Thick	PQC Thick			Cross Stitching	Partial Panel Replacement	Crack Sealing			
																		Cum	Cum	
360	852+990	852+999	LHS	L2	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
361	853+090	853+108	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3				18		-	-	
362	853+091	853+100	RHS	L1	1	4.50	Map cracking	Partial Panel Replacement	2	5	0.15	0.3			2.7			-	-	
363	853+150	853+173	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
364	853+200	853+209	LHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
365	853+200	853+209	LHS	L2	2	9.00	map cracking & Longitudinal cracks	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
366	853+440	853+449	LHS	L1	2	9.00	map cracking & Longitudinal cracks	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
367	853+600	853+605	LHS	L1	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
368	853+710	853+715	LHS	L1	1	4.50	Pothole	Partial Panel Replacement	2	1	0.15	0.3				0.36		-	-	
369	853+860	853+883	LHS	L1	5	22.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					22.5	-	-	
370	853+900	853+927	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
371	853+940	853+949	LHS	L1	2	9.00	Punchout	Panel Replacement	4.5	5	0.15	0.3	6.075	12.15			0.1		0.1	
372	854+000	854+014	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
373	854+006	854+010	RHS	L2	1	4.50	Map cracking & corner break	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075				0.0	0.0	
374	854+100	854+109	LHS	L1	2	9.00	Pothole	Partial Panel Replacement	1.5	1	0.15	0.3				0.54		-	-	
375	854+240	854+254	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
376	854+266	854+270	RHS	L1	1	4.50	Longitudinal & shrinkage crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
377	854+266	854+270	RHS	L2	1	4.50	Longitudinal & shrinkage crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
378	854+310	854+342	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
379	854+471	854+480	RHS	L1	2	9.00	Punchout near joint	Partial Panel Replacement	1.5	5	0.15	0.3					4.05	-	-	
380	854+570	854+584	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
381	854+816	854+820	RHS	L1	1	4.50	Pothole & longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
382	855+230	855+253	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
383	855+290	855+322	LHS	L1	7	31.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					31.5	-	-	
384	855+330	855+348	LHS	L1	3	13.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
385	855+516	855+520	RHS	L1	1	4.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
386	855+516	855+520	RHS	L2	1	4.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
387	855+530	855+580	LHS	L1,L2	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
388	855+680	855+698	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
389	855+726	855+780	RHS	L1	5	22.50	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	
390	855+978	856+000	RHS	L2	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
391	856+092	856+110	RHS	L2	2	9.00	Map cracking	Panel Replacement	4.5	5	0.15	0.3	6.075	12.15			0.1		0.1	
392	856+096	856+100	RHS	L1	1	4.50	Longitudinal crack & spalling at joint	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
393	856+106	856+110	RHS	L1	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
394	856+121	856+130	RHS	L1	2	9.00	Map cracking	Panel Replacement	4.5	5	0.15	0.3	6.075	12.15				0.1	0.1	
395	856+126	856+130	RHS	L2	1	4.50	Transverse crack	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075				0.0	0.0	
396	856+146	856+150	RHS	L2	1	4.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
397	856+157	856+170	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
398	856+166	856+170	RHS	L2	1	4.50	Longitudinal crack & pothole	Cross Stitching	4.5	5	0.15	0.3			4.5			-	-	
399	856+191	856+200	RHS	L1	1	4.50	Ravelling & scaling	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075				0.0	0.0	
400	856+240	856+245	LHS	L2	1	4.50	Spalling at joint	Cross Stitching	4.5	5	0.15	0.3			5.85			-	-	
401	856+252	856+270	RHS	L1	2	9.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
402	856+420	856+434	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
403	856+585	856+608	LHS	L1	5	22.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					22.5	-	-	
404	856+610	856+628	LHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
405	856+628	856+637	LHS	L1	2	9.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
406	856+642	856+660	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
407	856+666	856+670	RHS	L1	1	4.50	Spalling at joint	Cross Stitching	4.5	5	0.15	0.3			5.85			-	-	
408	856+680	856+694	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
409	856+681	856+690	RHS	L1	2	9.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
410	856+692	856+800	RHS	L1	3	13.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
411	856+701	856+710	RHS	L1	2	9.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
412	856+701	856+710	RHS	L2	2	9.00	Longitudinal cracks observed	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
413	856+726	856+730	RHS	L1	1	4.50	Transverse crack near joint	Cross Stitching	4.5	5	0.15	0.3			5.85			-	-	
414	856+737	856+750	RHS	L1	3	13.50	Longitudinal cracks & Cracks	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
415	856+737	856+750	RHS	L2	3	13.50	Longitudinal cracks & Cracks	Cross Stitching	4.5	5	0.15	0.3			13.5			-	-	
416	856+891	856+900	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
417	856+915	857+000	RHS	L1	2	9.00	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			9			-	-	
418	856+915	856+947	LHS	L1	7	31.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					31.5	-	-	
419	856+950	856+982	LHS	L1	5	22.50	Longitudinal crack	Cross Stitching	4.5	5	0.15	0.3			22.5			-	-	

MAIN CARRIAGE WAY-SECTION (RIGID) PKG-04																				
S. No.	Starting Chainage	Ending Chainage	Side	Lane	No. of Panel	Length (m)	Observations	Type of Rectification	Measurement (M)				Quantity					Dowel & Tie Bar Panel Replacement (MT)		Remarks
									L	B	DLC Thick	PQC Thick	Panel Replacement (DLC) Cum	Panel Replacement (PQC) Cum	Cross Stitching Rm	Partial Panel Replacement Cum	Crack Sealing Rm			
420	856+982	856+995	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
421	857+071	857+080	RHS	L1	2	9.00	Spalling & crack	Cross Sttching	4.5	5	0.15	0.3			11.7			-	-	
422	857+116	857+120	RHS	L1	1	4.50	Spalling at joint	Cross Sttching	4.5	5	0.15	0.3			5.85			-	-	
423	857+340	857+358	LHS	L1	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18	-	-	
424	857+587	857+600	RHS	L1	3	13.50	Multiple crack & spalling	Panel Replacement	4.5	5	0.15	0.3	9.1125	18.225				0.1	0.1	
425	857+760	857+783	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
426	857+763	857+790	RHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
427	857+788	857+860	RHS	L1	4	18.00	Map cracking	Partial Panel Replacement	4.5	1	0.15	0.3				2.7		-	-	
428	857+816	857+820	RHS	L1	1	4.50	Multiple crack & spalling	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075				0.0	0.0	
429	857+847	857+860	RHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-	
430	857+850	857+868	LHS	L2	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-	
431	858+001	858+050	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-	
432	858+070	858+160	RHS	L1	7	31.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					31.5	-	-	
433	858+230	858+253	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
434	858+260	858+283	LHS	L1	5	22.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					22.5	-	-	
435	858+266	858+270	RHS	L2	1	4.50	Transverse crack & spalling	Cross Sttching	4.5	5	0.15	0.3			5.85			-	-	
436	858+364	858+400	RHS	L1	8	36.00	Longitudinal crack	Crack Sealing	4.5	5	0.15	0.3					36	-	-	
437	858+486	858+490	RHS	L2	1	4.50	Spalling at joint	Cross Sttching	4.5	5	0.15	0.3			5.85			-	-	
438	858+506	858+510	RHS	L1	1	4.50	Spalling at joint	Cross Sttching	4.5	5	0.15	0.3			5.85			-	-	
439	858+506	858+510	RHS	L2	1	4.50	Corner break	Partial Panel Replacement	0.5	5	0.15	0.3				0.3375		-	-	
440	858+640	858+672	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
441	858+800	858+836	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
442	858+836	858+840	RHS	L1	1	4.50	Map cracking & BC overlay ravelling	Partial depth repairing	4.5	5	0.15	0.1				2.025		-	-	
443	858+856	858+860	RHS	L1	1	4.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			4.5			-	-	
444	858+856	858+860	RHS	L2	1	4.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			4.5			-	-	
445	858+861	858+870	RHS	L1	2	9.00	Map cracking	Panel Replacement	4.5	5	0.15	0.3	6.075	12.15				0.1	0.1	
446	858+890	858+899	LHS	L1	2	9.00	Map cracking & Longitudinal cracks	Cross Sttching	4.5	5	0.15	0.3			9			-	-	
447	858+890	858+908	LHS	L2	3	13.50	Map cracking & Longitudinal cracks	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-	
448	858+920	858+970	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
449	858+920	858+947	LHS	L2	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
450	858+990	858+999	LHS	L1	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-	
451	859+250	859+259	LHS	L2	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-	
452	859+280	859+289	LHS	L2	2	9.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			9			-	-	
453	859+333	859+400	RHS	L1	8	36.00	Longitudinal crack	Crack Sealing	4.5	5	0.15	0.3					36	-	-	
454	859+430	859+470	RHS	L1	9	40.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					40.5	-	-	
455	859+730	859+735	LHS	L2	1	4.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					4.5	-	-	
456	859+860	859+883	LHS	L1	5	22.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					22.5	-	-	
457	859+970	859+979	LHS	L1	2	9.00	Longitudinal crack & spalling at joint	Cross Sttching	4.5	5	0.15	0.3			9			-	-	
458	860+183	860+210	RHS	L2	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
459	860+350	860+368	LHS	L2	4	18.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					18	-	-	
460	860+530	860+544	LHS	L1	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
461	860+530	860+544	LHS	L2	3	13.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					13.5	-	-	
462	861+146	861+150	RHS	L2	1	4.50	Longitudinal crack & spalling near joint	Cross Sttching	4.5	5	0.15	0.3			4.5			-	-	
463	861+500	861+536	LHS	L2	6	27.00	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			27			-	-	
464	862+326	862+380	RHS	L1	5	22.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
465	862+335	862+380	RHS	L1	5	22.50	Map cracking & Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
466	862+360	862+396	LHS	L1	8	36.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					36	-	-	
467	862+550	862+568	LHS	L1	3	13.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-	
468	862+560	862+583	LHS	L2	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
469	862+740	862+767	LHS	L1	6	27.00	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					27	-	-	
470	863+060	863+069	LHS	L1	2	31.50	Longitudinal cracks observed	Crack Sealing	4.5	5	0.15	0.3					9	-	-	
471	863+100	863+136	LHS	L1	5	22.50	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	
472	863+466	863+470	RHS	L1	1	4.50	Spalling at joint	Cross Sttching	4.5	5	0.15	0.3			5.85			-	-	
473	863+510	863+578	LHS	L1	6	27.00	Longitudinal crack & spalling at joint	Cross Sttching	4.5	5	0.15	0.3			27			-	-	
474	863+682	863+700	RHS	L1	3	13.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			13.5			-	-	
475	864+200	864+223	LHS	L1	4	18.00	Longitudinal crack	Cross Sttching	4.5	5	0.15	0.3			18			-	-	
476	864+211	864+220	RHS	L1	2	9.00	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			9			-	-	
477	864+216	864+220	RHS	L2	1	4.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			4.5			-	-	
478	864+220	864+225	LHS	L2	1	4.50	Transverse crack	Panel Replacement	4.5	5	0.15	0.3	3.0375	6.075				0.0	0.0	
479	864+416	864+470	RHS	L1	5	22.50	Longitudinal cracks observed	Cross Sttching	4.5	5	0.15	0.3			22.5			-	-	

Annexure C4

Detailed location maps, site layouts, and access points

Rewa – Katni – Jabalpur – Lakhandon (NH-30)

A four-lane road on NH-30 and NH-34 with project length of 306.34 kms.

The asset starts at km 656+000 of NH-30 (Km 242+400 of old NH-7) and ends at Km 1428+557 of NH 34 in the State of Madhya Pradesh. The asset has four toll plaza at Odhaki Paipkhar (Km 675+700 of NH 30), Kherwasani (Km 739+000 of NH 30), Mohtara (KM 840+567 of NH 30) and Boharipar (Km 1362+780 of NH 34).

The project stretch connects Rewa, Katni, Jabalpur and Lakhandon districts of Madhya Pradesh. In the larger road network, the project stretch provides connectivity between East-West Corridor connecting Kolkata in West Bengal to Delhi and North-South corridor (NH-44) towards south at Jabalpur.

Annexure C5

Design requirements including parameters for structural and safety submissions.

National Highways Infra Trust

 National Highways Infra Trust	Design Requirements	Doc No.: NEPPL/FY25- 26/RFP/Pavement Repair & Rehabilitation - RKJL
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Not Applicable

Annexure C6

Construction requirements covering quality, workmanship, and Testing Standards.

National Highways Infra Trust

 National Highways Infra Trust	Construction Requirements	Doc No.: NEPPL/FY25- 26/RFP/Pavement Repair & Rehabilitation – RKJL
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As per Contract Data Sheet

Annexure C7

Technical Specifications based on MoRTH, IRC, and IS codes.

National Highways Infra Trust



Technical Specifications

Doc No.: NEPPL/FY25-
26/RFP/Pavement Repair &
Rehabilitation - RKJL

As per Contract Data Sheet

Annexure C8
Approved Drawings including layouts,
GADs, and structural details.

National Highways Infra Trust

 National Highways Infra Trust	Approved Drawings	Doc No.: NEPPL/FY25- 26/RFP/Pavement Repair & Rehabilitation – RKJL
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Not Applicable

Annexure C9

Draft Contract Agreement

National Highways Infra Trust

 National Highways Infra Trust		Doc No.: NEPPL/FY25- 26/RFP/Pavement Repair & Rehabilitation - RKJL
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NOT APPLICABLE

Annexure C 10- Process for Online Submission

Process/Step note for Open RFP Online Submission in NHIT

(Refer CDS for Entity Name)

1. Link for NHIT Entity

https://mt.tyasuite.com/#/login?public_reg=04f58dac471d1d0faaf64535d127893b85780b0f7645b3164d75fca164a14af824ed37fdd34ebfa471de822f7ed82b5731194d2b15acb00867ab4d8d0a2e58e7XIX8XMQRp6YEO4tomjhtOvKBTk8EFahHxNU8jOFKdn0C1KUn8SEap3bjeivM2Ft8t+zkHqSwbn5QC2gMpVTopDQB2r1joYyc1aSsVMslaRRyfWbM3cVrQ+XQZv6N5Ny1A2f1Oq382feeBXbfuFDPYNC5dQvXyqtN/g1BxtMSRel/KlIp4kJK8Yonvd62U5JU

2. Link for NHIIMPL

https://mt.tyasuite.com/#/login?public_reg=925e4c216bbe57920c520ac82a9c1ce0e6b6bccf5e8a14b3821acc4f4051d5661232b700b2abbc358678373629b0c07ad6e7dc9393014737b33df13660369c77p5B8Rrn0DH0U3sNngZYzycNxdKqTHHSeyruDxhJVT65wotP2jE/HzC/8Tu7mRgWfVq8jrX0tnWel+Utkfi2cIIcYyZ+nkOWyR5gEOzMOMoyoMcdwR9fuOhuMY9c1GWTFyskGGkFQRADP7vU7YFmn2FwM2TFSmb5l+y4kecju3MEo5u56z1RwrvBcrl1dL0nj+

3. Link for NEPPL

https://mt.tyasuite.com/#/login?public_reg=0aaf37e9251457250bffd3a42962adec3e4c963c4fe62f3674b56a05bb61abd8c49036f1cb243563de6e29889c0d918c288b026c0e10cea049e1e4dc9749c6feUOISboLsfcgxttbBmGfGMhZvfgE3cql/o12st2oxgnx9O8hIWpxoNkcD6OARqDpwnLGgoGC34NZq47bHc3Mj79iZNpeShehqListmrSSBVmFz8RMdiumQwmwwKSdr7utlTpQ1NKZc1wvfJFsSwo4QbTWW2hoNoDHIWsDKcMeZ3M5jR2V2qdYcl+9hUUCeEC

4. Link for NWPPPL

https://mt.tyasuite.com/#/login?public_reg=3eeb8cf60769a592d78d33f1754ce2dd2a4f230e1f88306f660ff4b225cb94bf46459db32b55bb789ae449085a1a432c8838b3faf9691f6652b0313c22ba5eb6s2AkqgNlxxX0izAO1fn6yOEcZVTqgghLXxorQ1S+HarFaSPGcBTtq44jbZdIPT6o6+i2mqXLUgCQ8+hDUVgf50G3wa5JBTJ2PotTzLKtLu9VDv5lo2HM4vSaLteaNsjev5OuhuD9UvfHlBj+MNWe3yYDQPUewEzn5VIRoaEJ4Ufgn0Hio1XUEvoN1GJNUbb3

5. Link for NSPPL

https://mt.tyasuite.com/#/login?public_reg=a68f9eb277f60f168baa8741dfe10abafce830477598258b192b19bfaf9cca6a76998090da77762f1bd37d839666d73407652b051215da7d2169b62ffcc68261KCwrUfYz75pjfglV/nwSsN9I1z5ZARaxNx6+1xiUpJsfMhDDqgJpDPVX/K0nzCDAm7Vjs90ldjSsepMZ7ToBx5B+7lxGCIXe37NLRyokTPx11uNnDmEQFFGeZ+kr7W77bLcWiXIIISr5io1V1q/9o8NzmAz785IJVrrzUj7MHE4C5KhgUvi3tDGJxdEnSysrb

- Bidders will click on the Link and land on to Bidders Login Page (Refer the screenshot below).

Introducing ComplianceNavigator

Navigating to Compliance Excellence !

Key Features

- ✓ Effortless Compliance Tracking
- ✓ Automated Alerts and notifications
- ✓ Secure & Reliable
- ✓ Intuitive Dashboard
- ✓ In-Depth Reporting

Set Sail for Compliance Success [Request a Demo](#) and Discover ComplianceNavigator Today!

Welcome

Login to your TYASuite Account

Email

Password

☐ Remember Email

[Login](#)

[Sign in](#)
[Sign in](#)

[Forgot Password?](#)
[New Registration?](#)

- Bidders are required to register on the NHIT-TYA Suite portal.
- If a bidder is already registered on the NHIT-TYA Suite portal, they can log in directly using their registered email ID and password.
- New bidders must complete the registration process by clicking on the "New Registration" tab.
- Upon clicking the "New Registration" tab, a page will appear prompting the bidder to enter basic details necessary to complete the registration.

Introducing ComplianceNavigator

Navigating to Compliance Excellence !

Key Features

- ✓ Effortless Compliance Tracking
- ✓ Automated Alerts and notifications
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- ✓ Intuitive Dashboard
- ✓ In-Depth Reporting

Set Sail for Compliance Success [Request a Demo](#) and Discover ComplianceNavigator Today!

Welcome

Login to your TYASuite Account

Email

Password

☐ Remember Email

[Login](#)

[Sign in](#)
[Sign in](#)

[Forgot Password?](#)
[New Registration?](#)

Registration Form

Vendor Name *

Email *

Mobile Number *

GSTN Number for Billing purpose *

By registering I hereby agree to pay TYASuite or any other agency the Vendor Portal Charges of Rs. 1,200 plus GST/year. I understand that my access will be blocked if payment is not made within 3 working days.

[Generate OTP](#)

- Bidders are required to submit the following details in order to complete the registration.
 - Bidders Name
 - Email
 - Mobile Number
 - GSTN Number.
- Bidders will be required to submit their details, following which a One-Time Password (OTP) will be sent to the registered email ID. After verification, they can create a password for login.
- Once the password is successfully created, the bidder can log in to the Bidder Portal. The portal interface will appear as shown below.

Vendor Profile

Profile Settings > Vendor Profile

Good Evening Syed Brothers Enterprises

Basic Details

Other Details

Documents

SNo.	Name	Attached Documents	Attachments	Expiry Date	Remarks
1	Pan Doc		Upload Pan Doc		

- After clicking on the “Open RFP” option from the menu bar, the corresponding page will be displayed.
- A list of open RFPs will appear on the page. Bidders should select the specific RFP for which they intend to submit their bid.

List Of Open RFP - 5

> Quotation By Vendor > List Of Open RFP

SL.NO. ↑	RFQ Number ↑	RFQ Name ↑	RFQ Start Date ↑	RFQ End Date ↑	Technical Bid Open Date ↑	Bid Open Date ↑	Bid Close Date ↑	Status ↑	Date Added ↑	Last Action ↑
1	RFQ00052	RFQ OPEN Test8	2025-04-16 17:25:14	2025-04-16 18:25:21	2025-04-16 18:28:03	2025-04-16 18:41:21	2025-04-16 18:54:21	Active	2025-04-16 15:58:27	20% 15:
2	RFQ00051	OPEN RFP Test3	2025-04-10 16:08:19	2025-04-10 16:26:24	2025-04-10 16:28:24	2025-04-10 16:39:24	2025-04-10 16:51:24	Active	2025-04-10 14:39:49	20% 15: Response Submit Time Over
3	RFQ00050	OPEN RFP Test1	2025-04-09 16:28:50	2025-04-09 16:46:59	2025-04-09 16:47:25	2025-04-09 16:54:59	2025-04-09 17:05:59	Active	2025-04-09 15:06:59	20% 15: Response Submit Time Over

- Bidders can submit their response by clicking on the “+” button.
- Upon clicking the “+” button, the bidder will be able to view the following details.

RFQ Number : RFQ000062	RFQ Name : RFQ OPEN TextB	RFQ Description : RFQ OPEN TextB	RFQ Start Date : 2025-04-18 17:26:14	RFQ End Date : 2025-04-18 18:26:21	Bid Open Date : 2025-04-18 18:41:21
Bid Close Date : 2025-04-18 18:54:21	Responsible Person Name :	Responsible Person Email :	Send RFQ to Vendor : No	Status : Active	Remarks :
Ship Location : Kornt1 (000001000)	Bill Location : Kornt1 (000001000)	RFI Number :	Employee Who Can Open Bid: Mohammad Harkis (EMP001)		
Open RFP : Yes	2 Step RFP : Yes	Technical Bid Open Date : 2025-04-18 18:26:00			

RFQ Details

HI Vendors

RFQ Filing Activity List

Sl No.	Requirements	Value	Attachment	Remarks
1	Label 1 :	Submitted		Ok //

Uploaded RFQ Documents

S. No.	Item Description	UOM	Quantity	GST Type	Item Unit Price (INR ₹)	Total Unit Price (INR ₹)	Total Amount (INR ₹)	Vendor Remarks	Company Attachments	Vendor Attachments
1	NUT & AND SCREW3 (PRD001)	Pcs	10	Excluded	100	100	1000	ok //		
Total							1000			

- Bidders are required to submit the technical details along with relevant attachments in the **Activity Table**, and the financial details, including pricing and attachments, in the **Product Table**.
- Once the details are submitted, bidders may modify their entries until the bid submission deadline.
- After due date and time, bidders will not be allowed to make any changes in submitted Bid.
- If there is any change in schedule, same will be uploaded on Website of NHIT at www.nhit.co.in
- For any queries or support bidders may contact procurement team of NHIT at tender@nhit.co.in