
NATIONAL HIGHWAYS INFRA PROJECTS PRIVATE LIMITED

Registered Office: G 5 & 6, Sector-10, Dwarka, New Delhi

Email: procurement@nhit.co.in

Request for Proposal (“RFP”) issued by National Highways Infra Projects Private Limited for Appointment of Contractor/bidder for Supply and Installation of MBCB on Chittorgarh-Kota Toll Road Project.

| BID SUMMARY | | |
|--------------------|---|--|
| 1. | Last date and time for receipt of Bidding Documents | 25 April 2024 up to 10:30 Hrs |
| 2. | Date and Time of Opening of Bids | At 11:30 Hrs on 25 April 2024 |
| 3. | Place of opening of Bids | NHIPPL - Corporate Office Unit No.: 324, 3rd Floor, D21 - Corporate Park, Sector-21, Dwarka:110077, Delhi |

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

Tender Reference No. - NHIT/FY 2024-25/RFP/ MBCB at CKRP

Date of Issue - 19.04.2024

NATIONAL HIGHWAYS INFRA PROJECTS PRIVATE LIMITED

Unit 324, D21 Corporate Park, Sector 21,
Dwarka, New Delhi - 110077

Email: procurement@nhit.co.in

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DISCLAIMER

The information contained in this Request for Proposal ("RFP") or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of "NHIPPL" by persons authorized to do so, is provided to the interested parties on the terms and conditions set out in this RFP and such other terms and conditions subject to which such information is provided.

This RFP is not an agreement and is neither an offer nor an invitation by NHIPPL to interested parties who submit their quote (henceforth "Bidders") in response to this RFP. The purpose of this RFP is to provide Bidders with information that may be useful to them in preparing and submitting their proposals ("Proposal") for Appointment of Contractor/bidder for **Supply and Installation of MBCB** on Chittorgarh-Kota Toll Road Project for National Highways Infra Projects Private Limited (NHIPPL)"

NHIPPL makes no representation or warranty and shall have no liability to any person or Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP and any assessment, assumption, statement or information contained herein or deemed to form part of this RFP or arising in any way from this process.

A Bidder must warrant that all the information provided by it to NHIPPL at the time of application & subsequently, is true to the best of its knowledge and belief, and specially warrants that it has duly complied with the provisions of laws applicable to it. Bidder indemnifies NHIPPL from any liabilities arising out of error or default or negligence or contravention in regard to any of the applicable laws, including, but not limited to, submission of statutory forms & other such documents.

The issue of this RFP does not imply that NHIPPL is bound to select any Bidder(s) for any project/Services/work. NHIPPL may accept or reject any proposal in its discretion and may ask for any additional information or vary its requirements, add to or amend the terms, procedure and protocol set out in RFP for bona fide reasons, which will be notified to all the Bidders invited to tender. Further NHIPPL hereby reserves its right to annul the process at any time prior to issuance of Letter of Award without incurring any liability towards the Bidders.

The Bidders shall bear all costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by NHIPPL or any other costs incurred regarding or relating to its Bid. All such costs and expenses will remain with the Bidder and NHIPPL shall not be liable in any manner for the same or for any other costs or expenses incurred by a Bidders in preparation or submission of the Bid, regardless of the conduct or outcome of this RFP and the related processes.

Section 1. Notice Inviting Tender

The National Highways Infra Projects Private Limited (hereinafter referred to as "NHIPPL"), invites bids from reputed parties for Appointment of Contractor/bidder for Supply and Installation of MBCB on Chittorgarh-Kota Toll Road Project for National Highways Infra Projects Private Limited (NHIPPL), referred as "NHIPPL".

1. Contractor/bidder will be selected under Cost Based Selection Method as described in this RFP and in accordance with the practices of NHIT.
2. The RFP includes the following documents:
 - Section 1 – Notice Inviting Tender
 - Section 2 – Instructions to Bidders
 - Section 3 – Scope of work
 - Section 4 – Form of Financial Proposal
 - Section 5 – Undertakings
3. The RFP is uploaded on the website of NHIT at <https://nhit.co.in/procurement-tender/>

4. **Brief Description of Bidding Process**

- 4.1. NHIPPL has adopted a Single-stage evaluation process for selection of the Bidder(s) for Appointment of Contractor/bidder for Supply and Installation of MBCB on Chittorgarh-Kota Toll Road Project, the financial bid (the "Financial Bid") containing the amount quoted by the Bidder shall be submitted in physical form in the prescribed format in the manner specified, and before the date and time specified herein.
- 4.2. The Bidders may send their authorized representatives along with authorization letter on the letter head of the bidder for participation in the opening of the Financial Bid. The date and time of opening of Financial Bids, will be informed to them separately by NHIPPL through email or uploaded on the NHIT website. The Financial Bids will be opened physically at the location provided in such communications. Only one representative of the Qualified Bidder shall be allowed to attend the opening of the Financial Bids.
- 4.3. The Financial Bid of each qualified bidder shall be opened and evaluated.

Any queries or request for additional information concerning the RFP shall be submitted in writing and/or e-mail to the officer designated below. The envelope / email communication shall clearly bear the following identification/title:

"Queries/ Request for Additional Information: RFP issued by NHIPPL for Appointment of Contractor/bidder for **Supply and Installation of MBCB** on Chittorgarh-Kota Toll Road Project for National Highways Infra Projects Private Limited (NHIPPL)".

5 **Address for Communication:**

Shri Arun Kumar Jha,
Head – SPV,
National Highways Infra Projects Private Limited,
Unit No.: 324, 3rd Floor, D21 - Corporate Park,
Sector-21, Dwarka, Delhi: 110077, India.
E mail: procurement@nhit.co.in

6 Schedule of Bidding Process:

The NHIPPL shall endeavour to adhere to the following schedule: Any changes to the following schedule shall be informed to the Bidders through Website or email communication.

| S. N. | Description of Events | Date |
|-------|--|---|
| 1. | Name of Assignment | Request for Proposal ("RFP") issued by National Highways Infra Projects Private Limited (NHIPPL) for Appointment of Contractor/bidder for Supply and Installation of MCB on Chittorgarh-Kota Toll Road Project. |
| 2. | Date of issue of RFP | 19 April 2024 |
| 3. | Last date for receiving queries from bidders | 21 April 2024 up to 17:00 Hrs. |
| 4. | Pre-Bid Meeting | No pre-bid meeting. The bidders must submit their queries through email at procurement@nhit.co.in which will be replied at NHIT website / through email. |
| 5. | NHIPPL's response to queries latest by | 22 April 2024 up to 18:00 Hrs. |
| 6. | Bid due date (Last date for bid submission) | 25 April 2024 up to 10:30 Hrs. |
| 7. | Opening of Financial Bids | At 11:00 Hrs. on 25 April 2024 at NHIPPL Office, Unit No.: 324, 3rd Floor, D21 - Corporate Park, Sector-21, Dwarka, Delhi:110077 |
| 8. | Letter of Award (LOA) | Will be intimated later |
| 9. | Validity of proposals | 120 days from Bid Due Date |
| 10. | Consortium/ Joint Venture | Not allowed |
| 11. | Performance Bank Guarantee (PBG) | Contractor is required to submit the 5 % amount of total contract amount as a Performance Bank Guarantee (PBG) within 7 days of issuance of the LOA by the Authority. |

Section 2. Instruction to the Bidders

1. Introduction:

About the company: Please refer our website www.nhit.co.in

2. Proposal

- 2.1 NHIPPL seeks proposals for the Appointment of Contractor/bidder for Supply and Installation of MBCB on Chittorgarh-Kota Toll Road Project for National Highways Infra Projects Private Limited (NHIPPL) as per scope of work given in Section 3 – Scope of Work of the RFP document.

3. Clarification and Amendment of RFP Documents

- 3.1. Bidders may request for clarifications on up to the time mentioned in Section 1. Any request for clarification must be sent in writing to NHIPPL's address indicated in the RFP or by e-mail to procurement@nhit.co.in. NHIPPL will respond in writing, or by e-mail/ uploading responses on website or will send written copies of the response to all Bidders. Should NHIPPL deem it necessary to amend the RFP as a result of a clarification, it shall do so following the established procedure and inform the Bidders of the same through written communication or by uploading it on the website of NHIT.
- 3.2. At any time before the submission of the Bids, NHIPPL shall have the right to amend the RFP by issuing an addendum/corrigendum in writing or by standard electronic means. The addendum/ corrigendum shall be uploaded on the website of NHIT at <https://nhit.co.in/procurement-tender/> which will be binding on all Bidders. To give Bidders reasonable time for considering the addendum/ corrigendum in their Bids, NHIPPL may, if the addendum/ corrigendum is substantial, at its discretion, extend the deadline for the submission of Bids.
- 3.3. It will be the responsibility of the Bidders to keep track of any uploaded addendum/ corrigendum before submission of the Bid.

4. Submission of Proposal

- 4.1 The proposal shall be submitted as indicated below:
- 4.2 Envelope containing the "Financial Bid of the Appointment of Contractor/bidder for Supply and Installation of MBCB on Chittorgarh-Kota Toll Road Project". The proposal should be in the manner and format as prescribed in Section 4 – Form of Financial Bid. Please note that proposals with any conditionality will be summarily rejected.
- 4.3 Proposals (i.e. the aforesaid envelope marked as "BID-Proposal for the Appointment of Contractor/bidder for **Supply and Installation of MBCB** on Chittorgarh-Kota Toll Road Project for NHIPPL" should reach the undersigned, latest by date/time mentioned in the Section 1 - Notice inviting Tender, in hard copies/in original and shall remain valid for 30 days thereafter. The proposal should be signed by the authorized signatory of the Bidder, supported by the relevant authorization document from the Bidder firm on his name. No Proposal will be entertained after the due time and date, as stated above. NHIT-entities shall not be responsible for any delay whatsoever in nature. The proposals received after the due time and date, will be summarily rejected.
- 4.4 NHIT-entities reserves the right to accept or reject any or all the offers received without assigning any reason. For any clarification, you may feel free to contact the undersigned.

5. Modification/ Substitution/ Withdrawal of Bids

- 5.1 The Bidder may substitute or withdraw its bid after submission prior to the Bid due date. No Bid shall be allowed to be substituted or withdrawn by the Bidder on or after the Bid due date.
- 5.2 Any alteration/modification in the Bid or additional information supplied subsequent to the Bid Due Date, unless the same has been expressly sought for by NHIT-entities, shall be disregarded.
- 5.3 Partial modification of the Bid is not allowed. The Bidder will have to submit the revised bid again in a sealed envelope, as per clause 2.4 above, mentioning "Revised Bid" on the top of the sealed envelope

and the original bid envelope will be returned to the Bidder. No Financial Bid may be modified after the Bid Due Date. Withdrawal or modification of Financial Bids between the Bid Due Date and Expiration of Bid validity shall result into disqualification from the bidding process.

6. Opening and Evaluation of the Bids

- 6.1 The Bids will be opened after the due date at the time prescribed in the RFP document in the presence of the Bidders who choose to attend. NHIPPL will subsequently examine and evaluate the Bids in accordance with the provisions set out herein.
- 6.2 To assist in the examination, evaluation, and comparison of Bids, NHIPPL may, at its discretion, ask any Bidder for clarification of its Bid. The request for clarification and the response shall be in writing or by e-mail, but no change in the price or substance of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by NHIPPL in the evaluation of the Bids.
- 6.3 The Bidders would be evaluated on the criteria mentioned in Section 4 of this RFP.
- 6.4 Except in case any clarification is asked by NHIPPL, no Bidder shall contact NHIPPL on any matter relating to its Bid from the time of the Bid opening to the time the contract is awarded. If any Bidder wishes to bring additional information to the notice of NHIPPL, it should do so in writing at the address prescribed in the Notice Inviting Tender.

7. Prior to evaluation of the Bids, the NHIPPL shall determine whether each Bid/Proposal is responsive to the requirements of this RFP document. A Bid will be declared non-responsive in case:

- a. If a Bidder submits more than one Bid against this RFP.
- b. The physical bid submissions are incomplete/ inadequate to the requirements of the RFP Documents.
- c. If in case the Power of Attorney or the Authority Letter is not provided as per Paragraph 16 of this Section.
- d. If a Bidder submits a conditional Bid or makes changes in the terms and conditions given in this RFP document.
- e. Failure to comply with all the requirements of RFP document by a Bidder.
- f. If the Bid is not submitted in the formats prescribed in the RFP document.
- g. If any requisite document/ certificate is not in the prescribed format the same shall not be considered while evaluating the bids and the same may lead to Bid being declared as non- responsive.
- h. If the envelope containing physical submission is not sealed and marked as prescribed in the RFP document.
- i. A Bid valid for a period of time shorter than prescribed in the RFP document.

8. Conflict of Interest

Bidders at all times shall provide professional, objective, and impartial advice and at all times hold the NHIPPL strictly avoid conflicts with other assignments or their own corporate interests and act without any consideration for future work. No two Bidders can have same constituents or any such arrangement pursuant to which any third party is in a position to have access to confidential information of each other.

9. **Fraud & Corruption**

9.1 Bidders would be required to observe the highest standard of ethics during the selection and execution of such work. NHIPPL defines:

9.1.1 "Corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the selection process or in contract execution; and

9.1.2 "Fraudulent practice" means a misrepresentation of facts in order to influence a selection process or the execution of a contract to the detriment of the NHIPPL and includes collusive practices among bidders (prior to or after submission of proposals) and to deprive the NHIPPL of the benefits of free and open competition.

9.2 NHIPPL will reject a proposal for Selection if it determines that the bidder recommended for engagement has engaged in corrupt or fraudulent activities in competing for the work in question.

9.3 NHIPPL will declare a bidder ineligible, either indefinitely or for a stated period of time, to be engaged if it at any time determines that the bidder has engaged in corrupt or fraudulent practices in the bidding process for engagement for the subject work.

9.4 The bidder declared ineligible for corrupt and fraudulent practices by NHIPPL in accordance with the above paras shall not be eligible for selection.

10. **Consortium of Bidders/Joint Venture is not allowed.**

11. **Engagement Period**

NHIPPL propose to Issue LOA for validity of 3 months further extendable to 2 months subject to written approval from NHIPPL.

12. **Minimum Eligibility Criteria**

12.1 Bidder Eligibility Criteria to be considered for selection by the NHIPPL, the bidders should meet the following criteria:

| S. N. | Criteria | Documents to be submitted |
|-------|---|--|
| 1 | Experienced company having minimum 5 years' experience in supply and installation of MCB on NHAI Project sites. | Copy of LOA/s should be attached with bid. |
| 2 | Bidder should be manufacturer/Applicator | Undertaking/certificate shall be attached with bid documents |
| 3 | The Applicant (insurance company) should not have been blacklisted/ barred/ disqualified by any regulator/ statutory body in the past 3 years | Self-Declaration |

12.2 The Bidder/ Company should have cumulative revenue/ turnover of minimum Rs 5.00 crores during the last three financial years ending 31/03/2022, 31/03/2023 and 31/03/2024. Certified copies of Financial Statements or certificate of turnover from Statutory Auditor/ Chartered Accountant of the Bidder to be submitted along with the bid.

12.3 The Bidder shall not be an associate of the Sponsor i.e., NHAI, or NHIPPL or IDBI Trusteeship Services Limited.

13. Dis-Qualification Criteria:

The company may at its sole discretion and at any time during the evaluation of proposal, disqualify any respondent, if the respondent:

- 13.1 Submitted the proposal documents after the response deadline;
- 13.2 Made misleading or false representations in the forms, statements and attachments submitted in proof of the eligibility requirements;
- 13.3 Failed to provide related clarifications, when sought;
- 13.4 Respondent or its directors declared ineligible, debarred by CPSU/ SPSU/ Government companies/ Government organizations/ regulatory authorities for corrupt and fraudulent practices or blacklisted;

14. Financial Proposal

The Financial Proposals of Bidders would be opened in presence of Authorized persons from Bidders who wish to attend along with an Authorization Letter issued by their organization. The date and time of opening of the Financial Proposals would be shared on NHIPPL.

15. Procedure for Selection of Contractor

The Selection of Contractor amongst the qualified bids will be done by NHIPPL at its own discretion. Accordingly, NHIPPL has the right to award the work to any of the Contractor, depending on the exigencies, nature and magnitude of the Transaction.

16. Documents to be submitted along with the Bid

- 16.1 Either power of attorney or an authority letter from Partner/ Board / Managing Committee of the Bidder entity should be provided for authentication of the authorized signatory signing the Bid document.
- 16.2 Bid in the form provided in the RFP duly signed by the authorized representative of the bidder on all pages.
- 16.3 Detailed profile of the Bidder certified by Authorized Signatory of the Bidder.
- 16.4 Documents in support of the claims of Bidder regarding eligibility/ experience duly signed by the authorized representative of the bidder on all pages. NHIPPL may ask for 3rd party certificates from the Bidder(s), at a later stage.
- 16.5 Undertaking in the format provided in the RFP duly signed by the authorized representative of the bidder on all pages.

17. Financial Bids / Fees

- 17.1 The Bidder is required to submit financial proposal as per Section 4 – Form of Financial Proposal.
- 17.2 The Financial quoted should be unconditional.
- 17.3 NHIPPL shall pay the Successful Bidder the applicable payment as detailed in Section 3, as sole compensation for the performance of the Services.
- 17.4 The Payment shall be payable as per payment schedule after submission of appropriate tax invoice.
- 17.5 All the expenses including those related to the scope of work, travelling, manpower, or any other out-of-pocket expense shall be borne by the Bidder.

18. Dispute Resolution

Any dispute arising out of the RFP, which cannot be amicably settled between the parties, shall be referred to arbitration in accordance with the Arbitration and Conciliation Act, 1996 through a panel of three arbitrators, with each of NHIPPL and the remaining disputing party(ies) appointing one arbitrator and the two arbitrators so appointed appointing a third arbitrator. Provided that if any disputing parties fail to appoint an arbitrator within 15 days from the dispute being referred to arbitration, the other parties shall be at liberty to appoint an arbitrator for such disputing party(ies) and such Selection shall be final and binding on the other disputing parties. The venue of the arbitration shall be at New Delhi.

19. Retention Money

- a. From every payment for Works due to the Contractor in accordance with the provisions of this agreement, the Authority (NHIPPL) shall retain 5% (five per cent) thereof as guarantee money for performance of the obligations of the Contractor during the Construction Period (the "Retention Money")
- b. Upon occurrence of a Contractor's Default, the Authority (NHIPPL) shall, without prejudice to its other rights and remedies hereunder or in law, be entitled to appropriate the relevant amounts from the Retention Money as Damages for such Contractor's Default.

Section 3: Scope of work

1. Supply and Installation of MBCB at on Chittorgarh-Kota Toll Road Project with material, labour or any tools and tackle required to complete assigned works.
2. W-Type Metal Beam Crash Barrier (Semi Rigid) as per IRC 119-2015, with fixing on various chainages as per requirement.
3. **List of approved makes for Metal Beam Crash Barrier are as follows:**

| | | | | |
|--|-------------------------------------|-----------------------|-----------------------------------|--|
| Metal Beam Crash Barrier (W-beam / Thrie Beam.) | GR Infra Projects Ltd. | Utkarsh Tubes & pipes | Jindal (India) limited | M/s Safety First |
| | AARNEEL Technocraft Private Limited | HI-TECH PIPES LIMITED | Vinfab Engineers India Limited ** | Prakash Asphaltings and Toll Highways (India) Ltd ** |

4. Vendor has to follow all EHS requirements as per EHS Terms & Conditions of NHIT attached as **Annexure-1**.

Section 4:- Form of Financial Proposal

(On the letter head of the bidder)

Financial Proposal

To

Shri Arun Kumar Jha,
Head SPV, NHIPPL,
National Highways Infra Projects Private Limited,
Unit No.: 324, 3rd Floor, D21 - Corporate Park,
Sector-21, Dwarka:110077, Delhi, India.

Subject: Request for Proposal ("RFP") issued by National Highways Infra Projects Private Limited for Appointment of Contractor/bidder for Supply and Installation of MBCB on Chittorgarh-Kota Toll Road Project.

Financial offer of bidders must be submitted in the following manner (as given below):-

| S. No. | Particulars | Rate/meter |
|---------------|---|-------------------|
| 1 | Supply and Installation of MBCB as per scope of works given in section 3 | |
| | | |

Name & Signature of Bidder's Authorized Signatory

From (**Bidder Details: Name, Designation, Address, Phone, Mobile, Email**)

Date:

Section 6:- Undertakings

(On the letter head of the bidder)

(To be provided with the bid)

We undertake that: -

- 1) The proposal submitted hereunder shall remain valid for a period of at least 30 days from the last date for submission of proposal.
- 2) No other fees/ cost/ expenses/taxes/levies shall be payable by NHIPPL/ NHIT or any of its associated entity for the Services rendered by Bidder/Selected Agency except as mentioned in Financial Proposal and the OPE expenses as mentioned in the RFP.
- 3) The Bidder has not been banned/ blacklisted/ de-listed/ disqualified/ debarred by any organization/ government agency/ quasi-government agency/ PSU to participate in their tenders for empanelment. We further certify that there is no investigation pending against us or the CMD/CEO/Directors of our Company and no action has been initiated against us/ our Directors by CVC/ RBI or any other government/ statutory agency with regard to any financial irregularities.
- 4) The Bidder does not have any conflict of interest which is prejudicial to the scope of work. Further, the bidder will ensure that no such business or professional activities will be carried out by it, which may affect the interest of NHIPPL.
- 5) The Bidder has adequate infrastructure, personnel, and resources to carry out the required Services and are eligible for acting as Contractor/bidder for Supply and Installation of MCB on Chittorgarh-Kota Toll Road Project. The Bidder has understood the scope of work properly and shall comply with the terms of engagement.
- 6) No bankruptcy/ liquidation proceedings have been initiated against the Bidder by any entity/ government agency/ quasi-government agency/ PSU and there is no material case/ proceeding against the Bidder/ its Directors that is likely to have significant impact on its business as selected Bidder / Agency or on its deliverables pursuant to this bid/ RFP.
- 7) All the information submitted as part of the Bid is true and correct.

We accept all the terms & conditions as mentioned in the RFP. In the event of any contradiction in the terms and conditions as mentioned in the RFP and our proposal/ offer to NHIPPL, the NHIPPL's decision shall prevail.

Signature(s) and name(s) of the Authorized Signatory with Seal Date:

Health, Safety and Environment**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 NHIPPL)

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. NHIPPL 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 5,000/-
- 1.3.8. Any other unsafe act and condition 2000/-

Remarks: Fines & Penalties shall be decided & revised by NHIPPL project manager. Fines & Penalties amount will be deducted from Contractor / Agency payment. Above penalties are for per violation per occasion basis.

2. Method Statement & HIRA (Wherever applicable, Sole discretion of NHIPPL)

The Contractor / Agency shall submit a detailed Work method statement and Hazard Identification & Risk Assessment (HIRA) to NHIPPL for review and approval before commencing work.

3. Work on Live Road

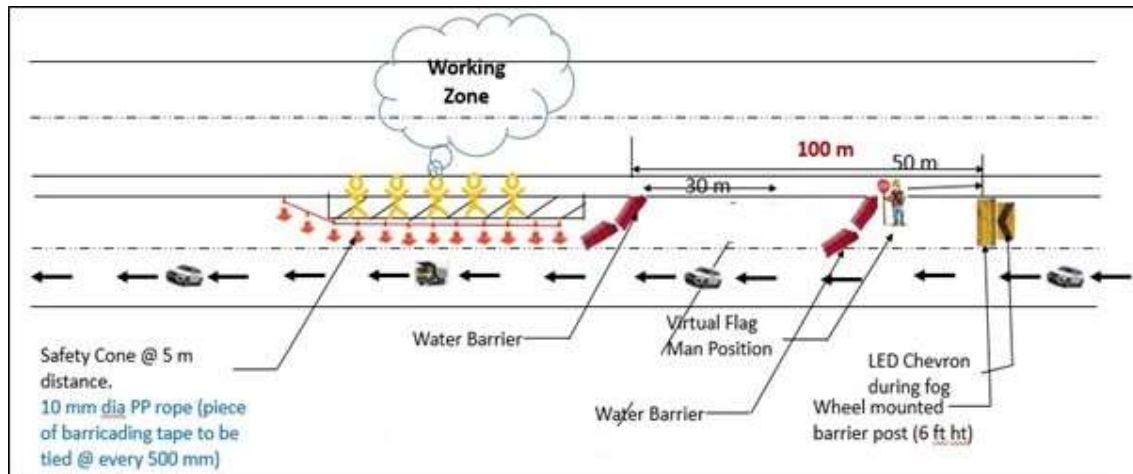
- 3.1. Work Zone - Contractor / Agency shall create and maintain the Traffic control zones as per Section 4 of IRC SP 55 2014 – Advance warning zone, Approach transition zone, Activity zone, Terminal transition zone, Work zone end, ref figure (a) mentioned below.
 - 3.1.1. Provide MS board with “Arrow 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. Environment

General – The Contractor/Agency shall be responsible for the storage and disposal of any waste generated as a result of its operations.

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.

figure (a)



Note - In addition to the above "Men at Work" (900 mm) & Arrow marking should be placed on the live carriageway at least 500 m ahead of working place.