



REQUEST FOR PROPOSAL

FOR

**Infrastructure Upgradation and Improvement of commuter
safety**

**Jabalpur Smart City Ltd.
Jabalpur, Madhya Pradesh**

Disclaimer

The information contained in this Request for Proposal document ("RFP") or subsequently provided to Contractors, whether orally or in documentary or any other form by or on behalf of the Jabalpur Smart City Ltd., Madhya Pradesh or any of its employees or advisers, is provided to Contractors 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 invitation by the Jabalpur Smart City Ltd. to the prospective Contractors or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in the formulation of their Proposals pursuant to this RFP.

This RFP includes statements, which reflects the intentions of the Jabalpur Smart City Ltd. in relation to the Infrastructure upgradation and improvement for commuter safety.

The Jabalpur Smart City Ltd. its employees and advisers make no representation or warranty and shall have no liability to any person including any Contractor under any law, statute, rules or regulations or part, 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, reliability or completeness of the RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way in this Selection Process.

Jabalpur Smart City Ltd. also accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance of any Contractor upon the statements contained in this RFP. The Jabalpur Smart City Ltd. may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this RFP.

The issue of this RFP does not imply that the Jabalpur Smart City Ltd. is bound to award the Contract or to appoint the Selected Contractor, as the case may be, for the award of contract for installation of Proposed items on the identified locations and the Jabalpur Smart City Ltd. reserves the right to reject all or any of the Proposals without assigning any reasons whatsoever.

The Contractor shall bear all its 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 in connection with or relating to its proposal. All such costs and expenses will remain with the Contractor and Jabalpur Smart City Ltd. shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Contractor in preparation or submission of the proposal, regardless of the conduct or outcome of the Selection Process.

दैनिक भास्कर 12/01/2020

JABALPUR SMART CITY LIMITED (JSCL)
Manas Bhavan Wright Town, Jabalpur, M.P.-482001,
www.jscljabalpur.org,
Contact: admin@jscljabalpur.org, ceojscl@mpurban.gov.in Mob. 7622236800
कं. जे.एस.सी.एल. /2019/39/ADM/2020/03 Date : 10.01.2020

NOTICE INVITING TENDER (NIT)
Jabalpur Smart City Limited Invites Online Bid for the work of "Infrastructure Upgradation and Improvement of Commuter Safety on Contract Basis" Details of tender can be viewed on www.jscljabalpur.org & www.mptenders.gov.in.
Contact : 7611136807, 7611136815
Executive Director,
Jabalpur Smart City Limited

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Jabalpur Smart City Limited (JSCL)
Manas Bhavan Wright Town, Jabalpur, M.P.-482001, www.jscljabalpur.org
Contact : admin@jscljabalpur.org, ceojscl@mpurban.gov.in, Mob. 7611136800
Ref.No. : JSCL/2019/39/ADM/2020/03 Date 10.01.2020

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RefNo. JSCL/2019/39/ADM/2020/03 Dt. 10/01/2020

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Contact No. 7611136807, 7611136815 Executive Director
Jabalpur Smart City Limited

Notice Inviting Tender

Online tenders are invited for following works. Tender forms may be purchased online by the eligible contractors having relevant experience.

S.No.	Name of Work	Estimated Cost of Work	Cost of Tender Document	Earnest Money Deposit	Completion Period
1.	“Tender for Infrastructure Upgradation and Improvement of Commuter Safety”	28,07,40,866.90	Rs. 50000.0	Rs.14.10 Lakhs	12 Months

Key Dates

S.No.	Description	Date and Time
1.	Pre-Bid Meeting	10.02.2020 from 1500 Hrs.
2.	Last date for Purchase and submission of Tender (Online)	04.03.2020 till 1855 Hrs.
3.	Technical bid opening (Online)	06.03.2020
4.	Last date for Submission of Hard Copy of Technical Bid (envelop A and B)	07.03.2020

Notes-

- Tender Document and other details shall be available on Website-www.mptenders.gov.in
- Amendment to NIT, if any would be published on website only.
- The EMD shall be deposited through Debit card /Credit card / Net banking or System Generated Challan.

**Executive Director
Jabalpur Smart City Ltd.**

SECTION I INSTRUCTIONS TO BIDDERS

1. DEFINITIONS AND INTERPRETATIONS

1.1. DEFINITIONS

“Agreement” shall mean the Agreement entered among the Jabalpur Smart City Ltd. & Contractor/Service Provider. Jabalpur Smart City Ltd. shall mean C.E.O, Jabalpur Smart City Ltd.

“Contractor”/“Service Provider” shall mean the selected Preferred Contractor selected and nominated by the Jabalpur Smart City Ltd. to implement the Project on the terms and conditions stipulated in the Agreement.

“Bid or Detailed Bid or Proposal” shall mean each Bid (one per project) submitted by the Bidder for any or all of the Projects, in response to this RFP including clarifications and/or amendments to RFP, if any.

“Bidder” shall mean an Entity / Individual who participate in online Bidding.

“Bid Security” shall mean the security furnished by the Bidder as stipulated in the RFP document.

“Bid Evaluation Committee” shall mean the committee constituted by the, Jabalpur Smart City Ltd. for evaluating the Bids.

“Project Location” is an individual location for installation of Active & Static Information System.

“Commercial Bid” shall have the meaning as set forth in the RFP document.

“Due Date” shall mean the last date for submission/receipt of the Bid, as mentioned in the RFP document.

“Firm” shall mean a single legal entity, which is a Registered Body. “Authority” shall mean Jabalpur Smart City Ltd.

“Letter of Acceptance” or “LOA” means the letter issued by Jabalpur Smart City Ltd. to the Successful Contractor to install proposed items in conformity with the terms and conditions set forth in the RFP.

“Maintenance Period” for signage shall be from the date of handing over of the site in the phase manner for given period of time.

“Preferred Bidder” shall mean the successful Contractor, whose Bid is declared as responsive with the lowest price offer quoted for the Project as a result of the Bid evaluation process as set forth in this RFP document.

“Project” means Survey, Design, Fabrication, Supply, Installation, Maintenance of Active & Static Information System including ancillary/support infrastructure on Various Roads in Jabalpur (Madhya Pradesh) as per the terms and conditions/ specifications mentioned in the RFP.

“Project Agreement” shall mean Agreement and any other legal documents as mutually agreed to be executed between the Jabalpur Smart City Ltd. and the Preferred Contractor, necessary for implementing the Project.

“Project Completion Period” shall mean the period in which the construction of the project (as per the

designs/ Phases) should be completed and certified by Authority or its nominated agency. For avoidance of doubt, it is hereby clarified that Project Completion Period for each phase shall be different.

“PQ Warranty” shall mean pre-qualification warranty of proposed full cube micro prismatic Type XI Retro Reflective sheeting for minimum 10 Years & pre-qualification warranty for other safety products jointly signed by bidder, Authorized converter of OEM.

“Request for Proposal or RFP” shall mean this document.

“Technical Criteria” or “Criteria” shall mean the criteria stipulated in the RFP, which is required to be complied by the Bidder based on his Technical Bid to become eligible for opening and evaluation of his Commercial Bid.

“Third Party Lab Test” shall mean photometric laboratory test as required in IRC from reputed certified Indian/ International laboratory to ensure that proposed sheeting meets minimum specification parameters given in this document.

Any other term(s) not defined herein above but defined elsewhere in this RFP shall have the meaning(s) ascribed to such term(s) therein and shall be deemed to have been included in this Section.

1.2. INTERPRETATION

In the interpretation of this RFP, unless the context otherwise requires:

- I. The singular of any defined term includes the plural and vice versa, and any word or expression defined in the singular has the corresponding meaning used in the plural and vice versa;
- II. Reference to any gender includes the other gender;
- III. Unless otherwise stated, a reference to a Clause, Sub-Clause, Paragraph, Subparagraph, Annex, Exhibit, Attachment, Schedule or Recital is a reference to a Clause, Sub-Clause, Paragraph, Subparagraph, Annex, Exhibit, Attachment, Schedule or Recital of this RFP;
- IV. A reference to any agreement is a reference to that agreement and all annexes, attachments, exhibits, schedules, appendices and the like incorporated therein, as the same may be
- V. amended, modified, supplemented, waived, varied, added to, substituted, replaced, renewed or extended, from time to time, in accordance with the terms thereof;
- VI. The terms “include” and “including” shall be deemed to be followed by the words “without limitation”, whether or not so followed;
- VII. Any reference to a person shall include such person’s successors and permitted assignees;
- VIII. A reference to a “writing” or “written” includes printing, typing, lithography and other means of reproducing words in a visible form;
- IX. Any date or period set forth in this RFP shall be such date or period as may be extended pursuant to the terms of this RFP;
- X. A reference to “month” shall mean a calendar month, a reference to “week” shall mean a calendar week and a reference to “day” shall mean a calendar day, unless otherwise specified.
- XI. The terms "hereof, "Herein", "hereto", "hereunder" or similar expressions used in this RFP mean and refer to this RFP and not to any particular Article, Clause or Section of this RFP. The terms "Article", "Clause", “Paragraph” and “Schedule” mean and refer to the Article, Clause, Paragraph and Schedule of this RFP so specified;

XII. In the case of any conflict, discrepancy or repugnancy between the provisions of RFP documents, provisions of the Contract Agreement shall prevail over and supersede the provisions of other documents.

XIII. The descriptive headings of Articles and Sections are inserted solely for convenience of reference and are not intended as complete or accurate descriptions of content thereof and shall not be used to interpret the provisions of this Agreement;

All capitalized words and expressions used in the RFP but not defined therein shall have the same meaning as ascribed to them in the Agreement.

2. INSTRUCTIONS TO BIDDERS

- (a) Bidders are required to read carefully the contents of this document including Technical Capabilities.
- (b) The bidders shall have to submit their Technical Bid online on <https://mptenders.gov.in> and upload the relevant documents from as per key dates. Earnest Money Deposit (EMD) have to be made online on <https://mptenders.gov.in> through Debit/ Credit, Internet Banking or system generated challan for participation rights in Bidding. Technical documents should also reach the office of the Jabalpur Smart City Ltd. through Speed Post or hand delivery. Jabalpur Smart City Ltd. shall not be responsible for any postal or online delays that may happened due to any technical failures.
- (c) Tender form can be purchased online only from e-portal <https://mptenders.gov.in> by making online payment.
- (d) Bidders will be evaluated on the basis of their experience and their technical, administrative capability to perform the contract. Poor past performance record such as abandoning of works; blacklisting by any government organization or agency; not properly completing contracts; litigation history, financial failure, etc., may lead to rejection.
- (e) Bidders should clearly note the last date and time of submittal of the tender applications. No late or delayed applications will be accepted. Bidders are reminded that no supplementary material would be entertained by Jabalpur Smart City Ltd. However, Jabalpur Smart City Ltd. may, if necessary, at its sole discretion ask for any clarification regarding the submitted tender and/or other documents.
- (f) Bidders and/or successful bidder who are/is found to have made any misleading or false representations in the tender including any statements, attachments, document, Performa's & Annexure submitted as proof of the requirements, shall be disqualified & earnest money shall be forfeited.
- (g) The Preferred Bidder shall have to ensure the following within 15 days of issue of Letter of Award to avoid cancellation of acceptance.
 - (a) Payment of Performance Security deposit in form of Bank Guarantee
 - (b) Signing of the Contract and submission of affidavits on stamp papers (Non-Judicial).

3. DIRECTIONS TO THE BIDDERS

- (a) The Contractor shall construct proposed items on the earmarked sites as per approved survey by Jabalpur Smart City Ltd.
- (b) The Contractor shall install the proposed items strictly as per specifications and standards mentioned in this RFP.
- (c) The bidders shall closely peruse all the clauses and specifications indicated in the RFP documents before quoting. Should the tenderer have any doubt about the meaning of any portion of the RFP Specifications or find discrepancies / omission in the tender documents issued are incomplete or shall require clarification on any of the technical aspect, scope of work etc., he shall at once contact the Authority inviting the tender for clarification before the submission of the tender.
- (d) Before tendering, the tenderers are advised to inspect the site of work and the environments and be acquainted with the actual working and other prevalent conditions, facilities available, position of material and labor. No claim will be entertained later on grounds of lack of knowledge.
- (e) The Contractor has to incur all expenses: The Contractor shall incur all expenses related to proposed items installation and installation/erection of proposed items should be as per the standard & specifications define in this RFP. The Structural design of proposed large format (Over 1 MT weight) structures shall be certified by Structural Engineer, the certified structural design & drawing submitted by Contractor shall be further verified by Jabalpur Smart City Ltd. Under No circumstances Jabalpur Smart City Ltd. shall bear any charges related to the installation and erection of proposed items. The Contractor shall have to get the structural plans approved by the Structural Engineer of good repute, at his own cost.
- (f) While installing the Proposed items or during the installation, the Contractor shall not cause any damage to any street furniture/pavement/central verge of the street, in any manner whatsoever.
- (g) The Contractor shall be responsible for any injury or damage caused to or suffered by any person or property arising out of or relating to the proposed items and the consequential claim or claims shall be borne by the Contractor who will also indemnify and safeguard the Jabalpur Smart City Ltd. in respect of any such claim or claims. The Contractor of the proposed items shall be liable to buy insurance against public liability.

4. GENERAL CONDITIONS

- (a) This section should be read in conjunction with other sections of RFP. The words and expressions, which are defined in this Section of RFP i.e. Instructions to Bidders (ITB), have the same meaning when used in the other Sections of RFP, unless separately defined.
- (b) The ITB sets out the bidding procedure and provides necessary details for the Bidders to prepare their Bid/s for the subject Project/s. The prescribed formats for submission of Bids are as per the Section-III of the RFP.
- (c) The Bidders are advised to submit their Bids complying with the requirements stipulated in the RFP document. The Bids may be rendered disqualified in case of receipt of incomplete Bids and/or the information is not submitted as per the prescribed formats.

- (d) The prospective bidders are required to inspect the locations for installation of Active & Static Information System and after inspection of the site of the proposed Active & Static Information System they may quote the rates in bidding. The tenderer submitting the tender will be considered to have accepted all the terms and conditions and no further terms and conditions will be accepted. No enquiries in written or orally will be entertained with regard to acceptance/rejection of the tender. Any attempt on the part of the tenderer to influence any official/officer of this organization will disqualify the tender. Active & Static Information System locations shall be available on "as is where basis". The prospective bidders should satisfy themselves as to the suitability of the proposed location of the System for purposes of erection/installation of Active & Static Information System.
- (e) The Grant of construction rights with regard to installation of Active & Static Information System erected/installed by the Contractor for Jabalpur Smart City Ltd. provided therein shall vest with the Jabalpur Smart City Ltd., except that these will be operated and maintained by the Preferred Contractor during the Construction Period. The title, interest in and ownership of land remain with the land owning agency i.e. Jabalpur Smart City Ltd.
- (f) While every effort has been made to provide comprehensive and accurate background information and requirements and specifications, however Bidders should form their own conclusions about the methodology/ solution needed to meet the requirements.
- (g) All information supplied by Bidders may be treated as contractually binding on the Bidders, on successful award of the assignment by the Jabalpur Smart City Ltd. on the basis of this RFP.
- (h) No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of Jabalpur Smart City Ltd. Any notification of preferred Bidder status by Jabalpur Smart City Ltd. shall not give rise to any enforceable rights by the Bidder. The Jabalpur Smart City Ltd. may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of the Jabalpur Smart City Ltd.
- (i) This RFP supersedes and replaces any previous public documentation & communications, and Bidders should place no reliance on such communications.
- (j) The financial assessment for the Project are being provided only as a preliminary reference document by way of assistance to the Bidders who are expected to carry out their own surveys, investigations and other detailed examination before submitting their Bids.
- (k) Notwithstanding anything to the contrary contained in this RFP, the detailed terms specified in the draft Contract shall have overriding effect; provided, however, that any conditions or obligations imposed on the Bidder hereunder shall continue to have effect in addition to its obligations under the Contract.
- (l) The Bidder should submit a Power of Attorney authorizing the signatory of the Proposal to commit the Bidder.
- (m) Bidder is required to submit financial bid inclusive of all current prevailing duties, taxes, royalties and other levies excluding GST; and the Jabalpur Smart City Ltd. shall not be liable for the same.
- (n) This RFP is not transferable.

- (o) Any award of Contract pursuant to this RFP shall be subject to the terms of Bidding Documents.
- (p) Each Bidder shall submit only one bid. A Bidder who submits or participates in more than one Bid (either solely or as consortium member, if permitted) will cause all the proposals with the Bidder's participation to be disqualified.

5. INTRODUCTION

1. To develop Jabalpur and to carry out uniform city signage program, different works being taken up for implementation. Erection of Active & Static Information System at all important roads of the city is one of such projects taken up in the city. The proposed Active & Static Information System are to be fabricated and erected as per norms of MORTH, MPUADD specification, State PWD and Display panel colour scheme, Text size, Font type as per Indian Road Congress code (IRC 67- 2012) guidelines. In view of this, Jabalpur Smart City Ltd. invites eligible agencies for **Infrastructure upgradation and improvement for commuter safety under the Smart City Mission.**
2. Importance of said Information System in Jabalpur City: The Active & Static Information System works in Jabalpur city is intended to provide the needed information distinctively with adequate clarity and prominence so that citizens and tourists will never feel inconvenience in searching destinations and/or finding facilities in the same. The works will also add aesthetic value & uniform identity to the public information system in the city.

The main objectives of the Active & Static Information System works are:

- (a) To provide Active & Static Information System and road safety on different localities of the city, public places, important messages to public, places of tourist attractions within the boundaries of the city in such a way that said System guides the citizens, tourists and visitors to their destinations.
- (b) Ensure that the establishment and existence of said System of in the city roads are consistent with road safety and other road and traffic objectives and provide effective guidance in directing citizens and visitors to the city.
- (c) Enhance quality of natural and cultural tourist attractions.
- (d) Highlight attractions and services, reinforce locations, and reassure visitors that they are travelling in the right direction and direct visitors to tourist information services.

The main benefits from the proposed Active & Static Information System are:

- (i) The said System will reassure visitors that they are travelling in the right direction, give advance notice of locations and services, direct visitors to tourist locations along with providing optimum road safety to the commuter.
 - (ii) It will save the time of the road users to reach their destination.
3. **Existing Active & Static Information System in Jabalpur City:** At present, main facility available for guiding citizens and visitors to the city are some Static signage Information System erected by municipal corporation, development authorities, State PWD & National Highway Authority of India as routine works. Those Way finders' endeavors have no special agenda except providing normal information to user. The basic information to guide in the form of Way finder are inadequate and

ad-hoc in manner. It is envisaged that the installation of proposed Way finder works would open up a new avenue for tourist guidance as well as it will add up aesthetic value.

4. The navigational information published or displayed on said System shall be decided and finalized by Jabalpur Smart City Ltd. Under no circumstances Contractor shall put the navigational information on devices without the approval of Jabalpur Smart City Ltd.
5. The goods supplied and works executed under this contract shall confirm to the standards mentioned in the technical specification and where no applicable standard is mentioned, the latest version of Indian Standard Institution or Bureau of Indian Specification shall be applicable.
6. Jabalpur Smart City Ltd. or its duly authorized representatives shall have the right to inspect and /or to test the goods to confirm their quality according to the contract and shall have access to the Contractor works premises and the power to inspect and examine the materials and workmanship of the said System at all reasonable times during their manufacture.

S. No.	Key Information	Details
1	Project Components	<p>The design of Proposed items in uniform city signage and safety program shall be modern, innovative, creative, and attractive and shall ensure structural stability and safety as per the model design attach with the RFP. Facilitate the regular visit, of the Jabalpur Smart City Ltd. officials and Jabalpur Smart City Ltd. appointed consultant (if any), to the site during construction of Proposed items and certification in the site register that the structural designs and drawings are being correctly interpreted at site and the finishing is of acceptable quality.</p> <p>The model specifications including information are provided along with this RFP. The selected bidder shall undertake the proposed items of development and implementation strictly in accordance with the following minimum specifications.</p> <p>The minimum execution for development/ installation of proposed items with specifications are provided in this RFP. The selected contractor shall undertake the installation and implementation of proposed items strictly in accordance with the minimum development obligation.</p>
2	Project Locations	Jabalpur City Road Network.
3	Construction/Installation Controls/ Guidelines	All applicable guidelines including Indian Road Congress Guidelines/National Highway Authority of India (NHAI) regulations and any other regulations issued by any other Statutory Authorities applicable within the jurisdiction of Jabalpur Smart City Ltd..
4	Technical Specifications	<p>Generally, as per applicable BIS Codes and Ministry of Road Transport and Highways (MORTH) regulations, Indian Road Congress (IRC) Code and any other applicable Indian Standards or its equivalent.</p> <p>Bidder has to execute the same make of brand of items quoted (including VMS and reflective sheeting OEM) in tender with which it has bid in this tender till the end of contract period for maintaining the uniformity within the city limits.</p>
5	Time for Completion	The Proposed items shall be installed by the Contractor within Twelve (12) months from the Agreement Date in accordance with the RFP stipulations. Other requirements over and above this tendered quantity shall be executed as per existing rate prevailing in integrated standard schedule of rates (Dept. of Urban administration & development)/ PWD SOR or any other applicable SOR.
6	Implementation Format	Engineering, Procurement and Construction (EPC)

Bid Conditions & Evaluation		
7	Bid Eligibility Criteria	Bidder shall meet the eligibility criteria defined in this RFP
S. No.	Key Information	Details
8	Bid Security ~ Earnest Money Deposit (EMD)	Earnest Money Deposit as per NIT have to be deposited online on https://mptenders.gov.in to avail the participation rights in Bidding. The payment options at https://mptenders.gov.in are Credit Cards or Debit Cards or Net Banking or system generated challan.
9	Performance Security	The Contractor shall have to submit the Performance Security in the form of a Bank Guarantee in favor of C.E.O, JABALPUR SMART CITY LTD., MADHYA PRADESH by a Scheduled/Nationalized bank, for 5% (Five percent) of total awarded amount for the project as per the format provided at Annexure and shall be valid equivalent to tender/ completion period.
10	Pre-condition for Signing Contract Agreement (Only preferred Bidder after receipt of Letter of Award)	Signing of Contract Agreement is within 15 days from the issue of Letter of Award (LoA).
11	Selection of Bidder	<ul style="list-style-type: none"> Online tender filled in either percentage plus or minus Bid to be quoted % above or below in the given uploaded Excel Sheet format For NON SOR item sheet individual rates must be quoted for each item in the given uploaded excel sheet if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the Bidder, rate of such item shall be treated as "0" (ZERO). The bidder shall have to quote rates inclusive of all duties, taxes, royalties and other levies except goods & services tax (GST). The amount of applicable GST will be paid separately to the contractor with each bill at the time of payment; and the employer shall not be liable for any duties, taxes (except GST) royalties and levies etc. Only those Bidders qualified in technical bid, will be considered for financial bid opening on https://mptenders.gov.in The quoted Lowest Cumulative rates is the Bid Winning Parameter through online bidding.
12	The Proposals must be submitted no later than	As per NIT

13	Bid Validity	180 days from the due date of Bid submission
17	Bid Evaluation	<p>a) Technical Bid Evaluation: Bidders whose bids are responsive and also meet the Eligibility Criteria shall only be undertaken for Technical evaluation.</p> <p>b) Financial Bid Opening: Only technically qualified firms / bidders shall be considered for Financial bid opening.</p>

6. PROPOSAL PREPARATIONCOST

The Bidder shall be responsible for all the costs associated with the preparation of its Proposal and its participation in the bidding process, including all types of due diligence in the process. Jabalpur Smart City Ltd. will not in any way be responsible or liable for such costs, regardless of the conduct or outcome of bidding.

7. DUE DILIGENCE

The Bidder is expected to examine all instructions, forms, terms and specifications in the RFP. The Bid should be precise, complete and in the prescribed format as per the requirement(s) of the RFP. Failure to furnish all information required by the RFP or submission of a Bid not responsive to the RFP in every respect will be at the Bidder's risk and may result in rejection of the Bid.

8. CLARIFICATION ON RFP DOCUMENT

In the event that any Bidder requires any clarification on the RFP, such Bidder are expected to send their queries to Jabalpur Smart City Ltd. in writing by post, courier, or by email at least 72 (Seventy Two) hours prior to the tender bid time at the following addresses in order to enable Jabalpur Smart City Ltd. to have adequate notice of the said queries so that the same may be addressed before tender bidding:

Nothing in this section shall be taken to mean or read as compelling or requiring Jabalpur Smart City Ltd. to respond to any questions or to provide any clarification to a query. Jabalpur Smart City Ltd. reserves the right to not respond to questions it perceives as non-relevant which may be raised by a Bidder or not to provide clarifications if Jabalpur Smart City Ltd. in its sole discretion considers that no reply is necessary.

No extension of Deadline for Submission of Bids will be granted on the basis or grounds that Jabalpur Smart City Ltd. has not responded to any question or provided any clarification to a query.

9. AMENDMENT OF BIDDINGDOCUMENTS

At any time before the Deadline for Submission of Bids, Jabalpur Smart City Ltd. may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the RFP by amendment. Any amendments/ modifications to the RFP Document, which may become necessary for any reason, shall be through the issue of addendum(s) to the RFP which shall set forth the said amendments/ modifications thereto (hereinafter referred to as the "Addendum(s).". If required, in order to allow prospective Bidders reasonable time in which to take the Addendum(s) into account in preparing their respective Bids, Jabalpur Smart City Ltd., reserves the right to extend the Deadline for the Submission of Bids. However, no request from the prospective Bidder(s), shall be binding on Jabalpur Smart City Ltd. for the same.

10. COMPLIANT PROPOSALS / COMPLETENESS OF RESPONSE

Bidders are advised to study all instructions, forms, terms, requirements and other information in the RFP documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.

Failure to comply with the requirements may render the Proposal non-compliant and the Proposal may be rejected.

Bidders must:

- (i) Include all documentation specified in this RFP;
- (ii) Follow the format of this RFP and respond to each element in the order as set out in this RFP
- (iii) Comply with all requirements as set out within this RFP.

11. KEY REQUIREMENTS OF THE BID

11.1. RIGHT TO TERMINATE THE PROCESS

- (i) Jabalpur Smart City Ltd. may terminate the RFP process at any time and without assigning any reason. Jabalpur Smart City Ltd. makes no commitments, express or implied, that this process will result in a business transaction with anyone.
- (ii) This RFP does not constitute an offer by Jabalpur Smart City Ltd. The Bidder's participation in this process may result selecting the Bidder for execution of the contract.

11.2. CONTRACT

The Contract sets forth the detailed terms and conditions for grant of the contract to the successful Bidder, including the scope of the services and obligations. The Bidder should study the contract and identify the risks and appropriately factor in its costs & Commercial Proposal.

11.3. CONSORTIUMS AND SUB-CONTRACTING

Consortium / Joint Venture or sub-contracting in any form shall not be allowed.

11.4. SUBMISSION OF BIDS

The complete bidding process will be online (e-Tendering) in three cover system. Electronic and hard copy submission of bids shall be in accordance with the instructions given in the Table below:

Particulars	Instructions
Cover 1	Proof of submission of RFP Document Fee and EMD. The Proof of submission of RFP Document Fee and original document of EMD should be submitted in Hard Copy as mentioned in the NIT.
Cover2: Technical Proposal	The Technical Proposal shall be prepared in accordance with the requirements specified in this RFP document. Technical Proposal should be submitted through online bid submission process and also in Hard Copy/ Spiral as mentioned in the NIT.

Financial Proposal	<p>The Financial Proposal shall be prepared in accordance with the requirements specified in this RFP.</p> <p>Financial Proposal should be submitted online only on https://mptenders.gov.in</p>
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Note: Jabalpur Smart City Ltd. will conduct the bid evaluation based on documents submitted through online e-tendering portal& offline document submitted. In case of any discrepancy between the bids submitted offline and online, the bid submitted online shall prevail.

12. DOCUMENTS CONSTITUTING BID

The documents constituting the Bid shall be as follows:

TECHNICAL BID WITH ONLINE SUBMISSION OF BID SECURITY

In order that Bidder(s) qualify to bid for this RFP, Bidder(s) shall be liable to submit a Technical Bid in the form and manner set forth in the RFP Document along with all documents required to be submitted as per the said Annexures including without limitation to any Memorandum of Understanding and the Bid Security. The said Technical Bids shall be evaluated by Jabalpur Smart City Ltd. in its sole discretion.

13. PREPARATION OF BID

13.1. LANGUAGE OF BID

The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and JABALPUR SMART CITY LTD. shall be written in English language only. However, in case Bidder chooses to enclose certain supporting document(s) in any language other than English, then the Bidder shall also enclose certified / authentic translated copies of the same in English language. Any such document, which is not translated into English, will not be considered. For the purpose of interpretation and evaluation of the Bids, the English language translation shall prevail.

13.2. BID CURRENCY

All prices quoted in the Bid shall be quoted in Indian Rupee(s) (INR).

13.3. AUTHENTICATION OF BID

The Technical Bid will be received online on the portal <https://mptenders.gov.in>. The Technical Bid will be opened in the office of the undersigned as mention tender time schedule (key date).

The Technical Bid shall preferably be type written and shall be signed by a person or persons duly authorized by the Bidder. The person or persons signing the Bid shall initial all pages of the Bid.

13.4. VALIDATION OF INTERLINEATIONS IN BID

Any interlineations, erasures or overwriting shall be valid only if the person or persons signing the Bid have authenticated the same with their respective signature alongside such interlineations, erasures or overwriting.

13.5. BID PREPARATION COSTS

The Bidder shall be responsible for all costs incurred in connection with participation in the RFP process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/ discussions/ presentations, preparation of proposal, in providing any additional information required by Jabalpur Smart City Ltd. to facilitate the evaluation process, and in negotiating a definitive contract or all such activities related to the bid process.

Jabalpur Smart City Ltd. will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

13.6. WITHDRAWAL, SUBSTITUTION AND MODIFICATION OF BIDS

- (i) The Bidder may withdraw, substitute, or modify its bid after submission, provided that written notice of the withdrawal, substitution, or modification is received by Jabalpur Smart City Ltd. prior to the deadline prescribed for submission (both online and off-line). All notices must be duly signed by an authorized representative and shall include a copy of authorization letter (power of attorney).
- (ii) A notice may also be sent by an electronic means such as fax or email, but in this case it should include a scan of the mailing receipt showing both the sender's and receiver's address for the signed hardcopy of the notice, and a scan of the power of attorney
- (iii) The Bidder's modification or withdrawal notice shall be prepared, sealed, marked and submitted in a manner similar to the original bid.
- (iv) Bids requested to be withdrawn in accordance with clause mentioned above, shall be returned unopened to the Bidders. Bid withdrawal notices received after the bid submission deadline will be ignored, and the submitted bid will be deemed to be a validly submitted bid.
- (v) No bid may be withdrawn, substituted or modified in the interval between the bid submission deadline and the expiration of the bid validity period specified by the Bidder in the bid submission form, or any extension thereof agreed to by the Bidder.

13.7. FINANCIAL BID

- I. Online tender filled in either percentage plus or minus in the given uploaded Excel Sheet format for SOR items.
- II. For NON SOR item sheet individual rates must be quoted for each item in the given uploaded excel sheet
- III. The bidder shall have to quote rates inclusive of all duties, taxes, royalties and other levies except goods & services tax (GST). The amount of applicable GST will be paid separately to the contractor with each bill at the time of payment; and the employer shall not be liable for any duties, taxes (except GST) royalties and levies etc.
- IV. Currencies of Bid and Payment - The unit rates given in the BOQ is in Indian Rupees. All payments shall be made in Indian Rupees.
- V. Financial Bidding can be done through the excel sheet uploaded on www.mptenders.gov.in. Rates can be quoted in the highlighted cell of the financial bid
- VI. In case of Item Rate Tender, price shall be entered against each item in the Bill of Quantities / Schedule of Quantities. The cost of item against which the contractor has failed to enter a rate or price shall be deemed to be covered by rates and prices of other items in Bill of Quantities / Schedule of Quantities and no payment shall be made for the quantities executed for items against which rate has not been quoted by the contractor.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the Bidder, rate of such item shall be

treated as "0" (ZERO).

- a. Financial Bid format is uploaded in Excel Format in www.mptenders.gov.in. At the time of financial bidding, bidder is requested to download the file, and update the same.
- b. For Non SOR items bidder can quote for individual item rates in respective financial bid sheet.
- c. Bidders are requested to check final figure in all the totals of all sheets. JSCL is not responsible for errors in the financial bid document.
- d. Bidders are required to upload the updated financial bid in the prescribed excel format in the www.mptenders.gov.in at the time of final financial bid submission.

14. BIDDING PROCESS / SUBMISSION OF TENDER

- (a) Duly filled and signed Tenders should be submitted online and one physical copy of Technical Bid addressed to the Office of the Jabalpur Nehru Park, Jabalpur (MP), hard bound/spiral, in the sealed cover duly super scribed with Tender for **"Infrastructure upgradation and improvement for commuter safety"** This main outer envelope should contain a separate and sealed envelopes inside—
(A) Technical Bid, after online submission on or before due date as mentioned in RFP.
- (b) Tender should be submitted online on or before due date as mentioned in RFP. Only the Technically Qualified bidders may participate in the "financial bid". The price offer quoted in online bidding by Successful Bidder should be kept valid for 180 days from the date of opening of the Technical Bids. If the Bidder withdraws his offer before the said date, the earnest money (EMD) will be forfeited in full.
- (c) The decision of the Jabalpur Smart City Ltd. to this effect shall be final and binding on the tenderer(s). The Technical bid will be opened in front of the Committee, at the Office of the Jabalpur Smart City Ltd.

15. VALIDITY OF OFFER

- (a) The Proposal shall remain valid for a period not less than One Eighty (180) days from the date of Due Date (Offer Validity Period). Jabalpur Smart City Ltd. reserves the right to reject any Proposal that does not meet this requirement. Validity of proposal shall be extended for a specified additional period at the request of Jabalpur Smart City Ltd.
- (b) A bidder agreeing to the request will not be allowed to modify the proposal but would be required to extend the validity of its EMD for the period of extension.

16. SITE VISIT AND VERIFICATION OF INFORMATION

- (a) While preparing the Bid, the Bidder shall consider the information provided in this RFP in totality and is expected to examine carefully the contents of all the documents provided. Failure to comply with the requirements of the RFP will be at the Bidder's own risk and may lead to disqualification of the bid as being nonresponsive.
- (b) The technical details given in Sections of this RFP are based on the site status and assumptions of Jabalpur Smart City Ltd. However, the Bidders shall be wholly responsible for all the details of their Bids, the physical and site conditions, etc. In essence, after the Bid is submitted, the Bidder shall be the 'owner' of all the data, which forms the basis of the Bid and shall have no claims whatsoever on Jabalpur Smart City Ltd. or its agencies or its Advisors regarding the accuracy of the data or designs, information, etc. furnished in the RFP.
- (c) It would be deemed that prior to the submission of the Proposal, the Bidder has:

- (i) Made a complete and careful examination of requirements and other information set forth in this RFP document.
- (ii) Examined all the relevant information as it has received from Jabalpur Smart City Ltd. in respect of the project.
- (d) Made a complete and careful examination to determine the difficulties and matters incidental to the performance of its obligations under the Contract Agreement, including but not limited to
 - (i) The Project Site(s)
 - (ii) Availability of suitable materials and technology for construction and operation.
 - (iii) All other matters that might affect its performance under the Contract Agreement
- (e) Bidders shall carry out any surveys, investigations etc. at their own cost and risk.
- (f) Bidders are encouraged to submit their respective Proposals after visiting the earmarked locations and ascertaining for themselves with the site conditions, traffic, location, surroundings, climate, access to the sites, availability of information with the Jabalpur Smart City Ltd., Applicable Laws and regulations or any other matter considered relevant by them.

17. PROJECT SITE

- (a) Jabalpur Smart City Ltd. hereby facilitates the installation of Active & Static Information System on the earmarked locations and on surveyed locations identified by the Contractor, for the purpose of implementing the Project but subject to the rights of Jabalpur Smart City Ltd.
- (b) The Project shall commence within Seven (7) days from the signing of the date of Agreement and linked to agreed erection/installation schedule submitted by the Contractor in the office of Jabalpur Smart City Ltd.
- (c) Jabalpur Smart City Ltd. confirms that upon the Project Site being handed over pursuant to the preceding para, the Contractor shall have the right to enter upon, occupy and use the Project Site and
- (d) to make at Contractor costs, charges and expenses such installation, development and improvements in the Project Site as may be necessary or appropriate to implement the Project and to provide the Project Facility subject to and in accordance with the provisions of this RFP.
- (e) Under no circumstances, the Contractor shall not use the project site for any purpose other than the purposes of installation of Active & Static Information System.
- (f) If Contractor found any encumbrance on proposed site location or any other encumbrance, which hinders or affects the Contractor in construction/installation of Active & Static Information System, in that case Contractor will make a written request to Jabalpur Smart City Ltd.

18. LOCAL CONDITIONS

- (a) Each Bidder is expected to become fully acquainted with the local conditions and factors, which may affect the performance of the contract and /or the cost.
- (b) The Bidder is expected to know all conditions and factors, which may have any effect on the execution

of the contract after issue of letter of Award as described in the bidding document. The Jabalpur Smart City Ltd. shall not entertain any request for clarification from the Bidder regarding such local conditions.

- (c) It is the Bidder's responsibility that such factors have been properly investigated and considered before submitting the proposal. No claim, what-so-ever, including that for financial adjustment to the contract awarded under the bidding document will be entertained by the Jabalpur Smart City Ltd.. Neither any change in the time schedule of the contract nor any financial adjustments arising there-of shall be permitted by the Jabalpur Smart City Ltd. on account of failure of the Bidder to know the local laws /conditions.

19. ELIGIBLE BIDDERS

Bidder's Eligibility Criteria

The bidder shall meet the following minimum eligibility criteria's:

A. General requirement:

The bidder shall be either:

- I. an individual;
- II. Proprietorship;
- III. Partnership Firm; or
- IV. Company - Public or Private Ltd.

B. A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:

- (1) directly or indirectly controls, is controlled by or is under common control with another Bidder; or
- (2) receives or has received any direct or indirect subsidy from another Bidder; or
- (3) has the same legal representative as another Bidder; or
- (4) has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Employer regarding this bidding processor
- (5) participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which such Bidder is involved; or
- (6) or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the bid
- (7) or any of its affiliates has been hired (or is proposed to be hired) by the Employer or Borrower as Engineer for the Contract implementation;
- (8) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm;
- (9) has a close business or family relationship with a professional staff of the Employer (or of the

project implementing agency) who: (i) are directly or indirectly involved in the preparation of the bidding documents or specifications of the contract, and/or the bid evaluation process of such contract; or (ii) would be involved in the implementation or supervision of such contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Employer throughout the procurement process and execution of the contract.

20. CONTENTS OF BIDS

THE CONTENTS OF TECHNICAL BID (ENVELOPE 2)

This envelope shall contain: -

- (a) Tender Form for the work “Infrastructure upgradation and improvement for commuter safety on under the Smart City Mission”
- (b) Copies of registration certificate of the firm/company, Memorandum and Articles of Association in case of firms registered under the Companies Act.
- (c) Tender form can be purchased online only from e-portal <https://mptenders.gov.in> by making online payment of tender document fees (non-refundable).
- (a) Earnest Money Deposit (EMD) have to be paid to avail the participation rights in Bidding. Bids without EMD shall be summarily rejected.
- (b) Contractor must submit all relevant document w.r.t Technical Bid in Envelop 2 (Hard Bound).
- (c) Any other documents required or mentioned under this bid document.

21. BIDDING GENERALTERMS:

- (a) To participate in bidding bidder, have to register on <https://mptenders.gov.in>
- (b) While registering for the bidding providing Mobile Number and Email ID are mandatory as all the communication shall be made to Registered Mobile Number and Registered Email ID (as username) in the form of SMS' and Emails. In case Tenderer will be responsible to change or update the communication Email or Mobile Number details to Jabalpur Smart City Ltd. well in advance and also same will be update on <https://mptenders.gov.in> by the tenderer.
- (c) All the required documents for the Technical Bid and Financial Bid must be uploaded to the <https://mptenders.gov.in> in stipulated time period set for the Tender cum bidding.
- (d) Tenderer will be disqualified if he/she fails to pay the Tender Fee and EMD or upload the required documents on time. Such tenders will be cancelled and will not be considered to provide rights in online Bidding.
- (e) Technical Bid will be opened online; the Financial Bid of disqualified Tenderer will not be opened.

22. EARNEST MONEY DEPOSIT(EMD)

- (a) The tenderers are required to submit the Earnest Money Deposit (EMD) have to be paid online on <https://mptenders.gov.in>. through debit/ credit card or internet banking.
- (b) The Earnest Money of successful bidder shall be returned once the Successful Bidder submits the Performance Security.

- (c) The Jabalpur Smart City Ltd. reserves its right to make recovery of claims, if any, from the EMD deposited against this tender.
- (d) Earnest money shall be liable to be forfeited by the Jabalpur Smart City Ltd., Madhya Pradesh or any other official authorized by the Jabalpur Smart City Ltd., Madhya Pradesh on ground if the bid is withdrawn by the tenderer(s) before opening the tender or within 120 days of the opening of the tender.
- (e) The EMD of the other bidders shall be returned in accordance with other conditions of this RFP.
- (f) The EMD shall however be forfeited in the following cases:
 - I. If the bidder withdraws its proposal (price offer) during the interval between the Proposal Due Date and expiration of the Proposal Validity Period;
 - II. If the successful bidder fails to unconditionally accept the Letter of Award in writing, within the time specified in this document, or any extension thereof granted by Jabalpur Smart City Ltd.;
 - III. If the successful bidder fails to sign the Contract Agreement and/or make the Performance Security within the time specified in this document, or any extension thereof granted by Jabalpur Smart City Ltd.

23. PROPRIETARY DATA

- (a) All documents, reports and other information provided by Jabalpur Smart City Ltd. or submitted by the Bidder to Jabalpur Smart City Ltd. shall remain or become the property of the Jabalpur Smart City Ltd. The Bidder, as the case may be, are to treat all information as strictly confidential Jabalpur Smart City Ltd. will not return any Proposal or any information related thereto. All information collected, analyzed, processed or in whatever manner provided by the Bidder to Jabalpur Smart City Ltd. in relation to the project shall be the property of Jabalpur Smart City Ltd.
- (b) However, the Bidder shall protect the intellectual property that they own or control (e.g., general professional experience, tools or third-party software) and that is reflected in deliverables. The Bidder shall specifically preserve the right to use the methodology or the material underlying it for other engagements, as long as Bidder do not use or disclose Jabalpur Smart City Ltd. confidential or pre-existing proprietary information.

24. TESTS OF RESPONSIVENESS

Prior to evaluation of Bids, the Jabalpur Smart City Ltd. shall determine whether each Bid is responsive to the requirements of this RFP document. A Bid shall be considered responsive if:

- (a) It is received as per the format defined in RFP document.
- (b) it is received by the Bid Due Date including any extension thereof pursuant to Clauses of this RFP;
- (c) it is signed, sealed, bound together in hard cover and marked as stipulated in Clauses of this RFP;
- (d) it is accompanied by the Earnest Money Deposit (EMD);
- (e) it is accompanied by the Power(s) of Attorney, if applicable;
- (f) it contains all the information (complete in all respects) as requested in this RFP document (in formats

same as those specified);

- (g) it quotes complete scope of Work as indicated in the RFP documents, addendum (if any) and any subsequent information given to the bidder;
- (h) it does comply with all the Technical specifications and General Terms and conditions;
- (i) it does not contain any condition or qualification;
- (j) the bidder has submitted all additional information or clarification as sought by Jabalpur Smart City Ltd. within the prescribed period;

25. PRE-QUALIFICATION CRITERIA FOR TECHNICAL ELIGIBILITY

In order to be qualified, the Bidder must meet the Eligibility Criteria as detailed below.

25.1. BIDDER CREDENTIALS:

- (a) The bidder should be a Firm/Partnership Firm/Company incorporated in India and duly registered under the respective law.
- (b) The joint venture or consortiums are not allowed to participate in this tendering process.
- (c) Copies of registration certificate of the firm/company, Memorandum and Articles of Association in case of firms registered under the Companies Act.
- (d) The bidder should have a registered number of: GST where his business is located; Income Tax PAN.
- (e) The Bidder Firm/company should have EPF Account Number. A copy of recent paid challan must be submitted.
- (f) The bidder must submit tender specific Authorization, PQ warranty for 10 years & Third-party lab test report for proposed retro reflective sheeting jointly signed by OEM & contractor.
- (g) The bidder shall have to furnish an affidavit on Non-Judicial Stamp paper of Rs. 100/- duly attested by a Notary Public indicating that he/she has not been debarred blacklisted by any other department.

Note:

- (a) The bidder who is a defaulter or blacklisted by JABALPUR SMART CITY LTD. before the date of submission of techno commercial Bid his bid will not be considered.*
- (b) The bidder has to submit an undertaking that he/she is/was not associated with any such agency (As described in above point 'a') directly or through any of his relative or sister concern.*
- (c) Joint Venture Firms or consortium firms cannot participate in Tender.*

25.2. TECHNICAL CRITERIA:

The Bidder/s shall possess the following mandatory technical criteria & shall furnish all documents required as under along with technical bid of this tender.

1. The Bidder of tender should be authorized by Type XI Sheeting Manufacturer to bid this tender (manufacturer who is meeting test certificate requirements of ASTM 4956-09 as per IRC requirements).

2. The bidder must submit tender specific Authorization, PQ warranty for 10 years & Third-party lab test report for proposed retro reflective sheeting jointly signed by OEM & Sign manufacturer.
3. Bidder shall have all the requisite machinery in-house for manufacturing proposed items as under:
 - A) 4 feet+ wide plotter and roller.
 - B) Proposed sheeting manufacturer Latex printer which uses ink with low VOC emissions confirming to UL 2801 standards or equivalent. Should submit necessary documentary proof in form of purchase bills/ invoice copies thereof.
 - C) Original design software license for printing on reflective sheeting. Bidder Should submit necessary documentary proof in form of purchase bills/ invoice copies thereof.
4. Technical Presentation: Bidder need to submit the proposed resources, approach, theme-based signage design and methodology of executing the Project.
5. a. The bidder shall submit declaration from the manufacturer of retro reflective sheeting that they recommend Latex printing technology and take full responsibility for its performance. The traffic signages printed on Latex printer with low VOC inks shall not be harmful to the environment during printing stage and post installation at site.
6. b. The bidder shall also submit a declaration from the manufacturer of retro reflective sheeting that the inks used for printing shall be certified for low volatile organic compound (VOC) emission conforming to UL 2801 standards (Standard for Sustainability of printing inks). This letter shall be submitted along with Ecologo certificate or an equivalent certificate conforming to UL 2801 standards.
7. The Contractor shall be original Manufacturer of the Retro Reflective sheeting and Road furniture or specifically certified Authorized Convertor /Applicator of the Original Manufacturer and shall submit such Authorization certificate during the bid submission. The Tenderer must obtain & must produce such current dated authorization certificate on the name of the work from the Manufacturer. The certificate should be in original and issued by the retro reflective sheeting manufacturer or its subsidiary in India. Certificate issued by distributor dealer/power of attorney holder shall be disqualified. The contractor shall submit all the related Technical details including specifications of the Retro Reflective Sheeting used in making the Traffic Signs and Road furniture brochures with all information for evaluation of their acceptance to meet the required specifications given in this Bid Document.
8. The contractor shall obtain from the sheeting manufacturer of Retro Reflective Sheeting a Pre-Qualification Warranty certificate in original for ten years satisfactory field performance including stipulated retro reflectance of the retro reflective sheeting to be used and submit the same during Bid Submission.
9. Product Conformance Certificate in original from the manufacturer of retro reflective sheeting stating that the material offered for this tender, conforms to the standards / specifications of retro reflective sheeting as given in this tender and manufacturer takes all responsibility for performance of sheeting against the project requirement. Failure of product shall lead to blacklisting of contractor.
10. A certificate of having tested the sheeting for following properties and its having passed these tests shall be obtained from a reputed test laboratory, by the manufacturer of the Sheeting.
 - a. Coefficient of Retro Reflection
 - b. Day time color & luminance
 - c. Accelerated outdoor weathering
 - d. Colorfastness
 - e. Shrinkage
 - f. Flexibility
 - g. Liner Removal
 - h. Adhesion
 - i. Impact resistance
 - j. Specular gloss

- k. Nighttime color
- l. Fungus Resistance

11. The sheeting manufacturer shall also provide test data showing that has met the requirements for 36 months of accelerated outdoor weathering. The test data shall be gathered in accordance with ASTM D 4956 and shall be performed by an independent agency. The above test certificate shall be uploaded during the bid submission.
12. The Retro reflective surface after cleaning with soap and water and in dry condition shall have the minimum co-efficient of retro reflection as given in Table I determined in accordance to ASTM D 4956 Type XI Sheeting.

Table I: Acceptable minimum coefficient of retro reflection for wide angle prismatic sheeting.

Minimum Coefficient of Retro reflection (cd/lux/sqm)										
Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown	Fluorescent Yellow-Green	Fluorescent Yellow	Fluorescent Orange
0.1	-4	830	620	83	125	37	25	660	500	250
0.1	30	325	245	33	50	15	10	260	200	100
0.2	-4	580	435	58	87	26	17	460	350	175
0.2	30	220	165	22	33	10	7	180	130	66
0.5	-4	420	315	42	63	19	13	340	250	125
0.5	30	150	110	15	23	7	5	120	90	45
1	-4	120	90	12	18	5	4	96	72	36
1	30	45	34	5	7	2	1	36	27	14

13. Testing charges, if any unless otherwise provided shall be borne by the contractor. In case, any damage done to the samples during transportation etc. or in case the samples are not returned by the testing laboratory new sign boards shall be provided and fixed at their specified locations by the contractor at no extra cost.
14. A certificate from the micro prismatic retro reflective sheeting manufacturer stating that the tenderer is an authorized convertor and possesses the requisite infrastructure and equipment, which is necessary for fabrication of retro reflective signboards. They shall also confirm that they have validated the facility used for sign board making and confirm that the facility is as per national/ international standards required for signboard manufacturing.
15. Bidder shall submit a copy of 3-year outdoor exposure report from reputed & independent laboratory for the product offered. The report shall be attested by the retro reflective sheeting manufacturer, the performance reading after 3 years, must be at least 80% of the minimum values mentioned in ASTM D 4956 Type XI sheeting performance table. The outdoor weathering needs to be conducted at 2 locations with different climatic conditions, as detailed out in ASTM D 4956. 3 Years outdoor weathering test shall have been conducted in two climatic conditions namely Tropical Rain & Desert as per Table 14 of ASTM D 4956-09 & conforming to clause 6.7 of IRC 67-2012.
16. Bidder shall submit the sample of the white Type XI retro – reflective sheeting of size 12"x 12" pasted on 4 mm ACP/ACM. Sample boards shall be signed by the Authorized Representative of the sheeting manufacturer on the back side having the details of tender name, Due date etc. The same shall be tested for reflective values of white retro reflective sheeting on all observation and entrance angles as per table no. 6.9 of IRC 67:2012 and MORTH specified methodology as a pre-qualification criteria.
17. The bidder shall arrange for third party/ manufacturer on site reflectivity testing on erected retro reflective signboards. The same shall be tested on all observation and entrance angles as per IRC 67:2012 standards. Work shall be started/ continued on site only if reflective sheeting super exceeds the required reflective values as stated in IRC 67:2012 for Type XI sheeting.
18. After completion of work the contractor shall submit Warranty certificate in original for ten years for completion of signboards.
19. The contractor shall also furnish a certificate that the signs and materials supplied against the assigned work meets all the stipulated requirements and carry the stipulated warranty. The

- warranty shall also cover the replacements obligations by the sheeting manufacturer as well as contractor for replacement/repairing/restoration of the retro reflective efficiency.
20. All sign boards to be dated during fabrication with indelible marking to indicate the date of manufacture of the road sign and actual date of installation at site in an unprotected outdoor exposure. Warranties should be given in original and should have legal jurisdiction in India. Warranties given by power of attorney holders will not be acceptable.
 21. The bidder shall bid in tender using only one manufacturer credentials so that uniformity can be maintained for pan city work execution. Bidder is not allowed to swipe between the manufacturers (pre or post tender) for work so that accountability can be fixed for one bidder and its supporting manufacturer.
 22. The Tenderer should mandatorily submit an independent test laboratory certificate of having tested the raised pavement marker lens for visual observation and coefficient of luminous Intensity. Shall be enclosed along with the tender bid at the time of bid opening
 23. A certificate of having tested the lens of raised pavement marker as per ASTM D 4280 for the following tests and its having passed these tests shall be obtained from the Government laboratory of repute by the manufacturer and enclosed along with the bid at the time of bid opening.
 - I. Construction
 - II. Coefficient of Luminous Intensity
 - III. Initial Abrasive Resistance
 - IV. Color
 - V. Temperature Cycling
 24. A third-party test report for testing of samples (not less than 3 months old) conforming that the raised pavement marker passes following test conforming to MORTH circular and ASTM D 4280
 - I. Compressive Strength
 - II. Flexural Strength
 - III. Lens Impact Strength
 25. The bidder should furnish the test report from govt lab for critical application of AFP for following tests as per ASTM D 4956-09 on flexible retro reflective sheet: -
 - a. Co-efficient of retro reflection
 - b. Flexibility
 - c. Impact Resistance Test
 26. The Tenderer should mandatorily submit an independent test laboratory certificate of having tested the solar raised pavement marker for compressive strength OF 13,675 Kg. & flexural Strength in accordance to ASTM D 4280 as prescribed in MORTH Section 800.
 27. The Tenderer should mandatorily submit test report for critical application from government test laboratory of having tested the solar raised pavement marker for requirement of IP 65 in accordance with IS: 12063:1987 & IP 68 test.
 28. The Solar Stud should have reflective lens along with LED with solar panel to provide both active and passive reflection/ visibility.
 29. The tenderer shall submit the test report from govt laboratory of impact test/ rebound ability and tensile test as per ASTM testing standards for the critical application of flexible median marker.
 30. The contractor shall obtain Pre-Qualification Warranty certificate in original for two years satisfactory field performance from the Manufacturer for Raised Pavement Marker/ Road Stud, Solar Stud, Aluminum Flexible Prismatic, Delineator and one year satisfactory field performance for Flexible Median Marker and Upload the same & submit along with Bid document/ submission.
 31. After completion of work contractor shall submit 2-year manufacturer warranty for raised pavement marker/road stud, Solar Stud, Aluminum Flexible Prismatic Sheeting, Delineator and 1-year manufacturer warranty for flexible median marker.
 32. After completion of work contractor shall submit 2-year warranty for raised pavement marker/road stud, Solar Stud as per requirement of MORTH.
 33. A sample of the Twin Moulded shanks stud, AFP, solar stud, Delineator, Flexible Median Marker

confirming to the specifications mentioned above shall be submitted by the contractor as a pre-qualification requirement.

34. Bidder should submit & upload a Letter of authorization issued by original manufacturer of reflective sheeting and road furniture confirming that the supplier of the tendered road furniture is an authorized convertor of Sheeting & road furniture Manufacturer. And manufacturer authorize its authorized convertor to be against particular work. The bidder shall also clearly specify that for any failure bidder shall be responsible for the same. The bidder shall submit and upload this certificate along with the bid.
35. A conformance certificate from the Sheeting and Road furniture Manufacturer stating that the all product offering against tender requirement shall conform to the tendered specifications and take all responsibility in case of failure of material. The same shall be submitted/ uploaded by the bidder along with the bid.
36. The tenderer should upload all the documents mentioned above during the bid Submission, failing which their Bid would be disqualified.

26. BID EVALUATION PROCESS

- (a) Jabalpur Smart City Ltd. will constitute a Bid Evaluation Committee (BEC) to evaluate the responses of the Bidders.
- (b) The BEC constituted by Jabalpur Smart City Ltd. shall evaluate the responses to the RFP and all supporting documents. Inability to submit requisite supporting documents, may lead to rejection.
- (c) The decision of the BEC in the evaluation of responses to the RFP shall be final. No correspondence shall be entertained in this regard.
- (d) The BEC may seek clarifications from any Bidder with respect to its proposal and may visit the Bidder's client site to validate the credential/citations as claimed by such a Bidder.
- (e) Each of the responses shall be evaluated as per the criteria and requirements specified in this RFP.
- (f) The technical bids shall be opened and a comparative statement indicating the bidder's qualification against each of the set criteria shall be tabulated based on the documentary evidence submitted. The qualifying values will be based on the detailed proposal and justifications provided in the technical documentation submitted by the Bidder.

27.1. BIDOPENING

- (a) JABALPUR SMART CITY LTD. reserves the right at all times to postpone or cancel a scheduled Bid opening.
- (b) Bid opening shall be conducted in 2 (Two) Stages;
 - (i) Stage 1 - RFP Document fee and EMD and Technical Bid Evaluation
 - (ii) Stage 2 - Financial Proposal Opening (online on <https://mptenders.gov.in>)
- (c) The BEC, will evaluate bids based on pre-qualification/ Technical criteria and will finalize list of responsive bidders. The date and time for opening the Financial Proposals would be communicated to the responsive bidders only.
- (d) During Bid opening, preliminary scrutiny of the Bid documents shall be made to determine whether

required EMD has been furnished, whether the Documents have been properly signed, and whether the bids are generally in order.

27.2. TECHNICAL EVALUATION

Bidders who meet the pre-qualifications eligibility criteria as specified in point no. 25 (PRE-QUALIFICATION CRITERIA FOR TECHNICAL ELIGIBILITY) would be considered as qualified to move to the next stage of Technical evaluations. Bid Evaluation Committee (BEC) will evaluate the Technical Proposals of the Pre-Qualified bidders only. The Bidder must qualify and **secure minimum 70 marks to qualify** their bids to be eligible for financial bid opening.

S. No	Eligibility Requirement	Supporting Documents/ Action Required	Marks
1	The Bidder should present proof of concept by giving live demo by OEM/ Solution Provider of VMS.	To run VMS as per live instruction of technical evaluation committee.	30
2	The bidder must submit tender specific PQ warranty for 10 years & Third-party lab test report as per IRC 67:2012 & ASTM D 4956 for proposed reflective media jointly signed by OEM & Sign manufacturer	PQ warranty & Test reports as per requirement & parameters of IRC 67-2012.	5
3	Test report of critical application of AFP Sheeting & Solar RPM for critical road safety application.	Test report from only Government test lab (no accredited lab) for AFP sheeting and Solar RPM for test parameters as defined in technical requirement.	10
4	Certified copy of test reports	A certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including 3 years' outdoor weather exposure report for the sheeting offered attested by the sheeting manufacturer shall be submitted by the bidder during the bid submission. 3 Years outdoor weathering test shall have been conducted in two climatic conditions namely Tropical Rain & Desert real environment as per Table 14 of ASTM D 4956-09. Accelerated Lab test will not be acceptable in any condition. The test report must be tender specific, authenticated by OEM sheeting manufacturer by stamping and signing on each page of report.	4

5	A. 4 feet+ wide plotter and roller. B. Proposed sheeting manufacturer printer which uses ink with low VOC emissions confirming to UL 2801 standards or equivalent (certificate to be attached). Should submit necessary documentary proof in form of purchase bills, invoice copies thereof. C. Original design software license given by sheeting manufacturer for printing on reflective sheeting. Bidder Should submit necessary documentary proof in form of purchase bills/ invoice copies thereof.	Purchase proof.	6
6	Bidder shall submit the sample of the white Type XI retro – reflective sheeting of size 12"x 12" pasted on 4 mm ACP/ACM. Sample boards shall be signed by the Authorized Representative of the sheeting manufacturer on the back side having the details of tender name, Due date etc. The same shall be tested for reflective values of white retro reflective sheeting on all observation and entrance angles as per table no. 6.9 of IRC 67:2012 and MORTH specified methodology as a pre-qualification criteria.	Reflectometer Testing	15
7	Technical Presentation	Proposed Resources, Approach and Methodology, Proposed designs, printing samples, Signage Theme.	30
TOTAL MARKS			100

27.3. TECHNICAL PRESENTATION /DEMONSTRATION

Bidder who meets the minimum pre-qualification eligibility criteria as specified in point no. 25 (PRE-QUALIFICATION CRITERIA FOR TECHNICAL ELIGIBILITY) shall be called for technical presentation (maximum duration of 30 minutes) with respect to above technical evaluation criteria during Technical Bid Evaluation. Date, Time and Venue for the Technical Presentation will be informed later to qualified bidders. The proposed resources, approach methodology submitted in the BID should be in sync or more with the Presentation, otherwise the Bidder is liable to lose marks in the Technical evaluation phase. Authority reserves right to enquire bidder's customer where such a similar project execution has taken place. The date & time for the Technical Presentation / Demonstration will be intimated to bidders later by Jabalpur Smart City Ltd.

27. EVALUATION FOR PREFERRED CONTRACTOR(CONTRACTOR)

- (a) The bidder shall have to quote rates in format uploaded in online portal.
- (b) For SOR items percentage plus or minus Bid to be quoted in the given uploaded Excel Sheet format

- (c) For NON SOR item sheet individual rates must be quoted for each item in the given uploaded excel sheet
- (d) All responsive bids shall be compared to determine the lowest evaluated bid "L1".
- (e) The bidder shall not alter the percentage and rates quoted during the terms of contract. The deduction or addition, as the case may be of the percentage will be calculated on the gross amount of each bill for the work done.
- (f) The Financial Proposal of only the technically qualified Bidders will be opened.
- (g) The Lowest quoted rates (Cumulative of SOR and Non-SOR items) in the online bid is the Bid winning Parameter.

28. APPOINTMENT OF CONTRACTOR

28.1. AWARD CRITERIA

- (a) After selection of Preferred Contractor in terms of Clauses of this RFP, a Letter of Award (the "LOA") shall be issued, in duplicate, by the Jabalpur Smart City Ltd. to the Preferred Contractor (Contractor) and the Preferred Contractor (Contractor) shall, within 15 (seven) days of the receipt of the LOA, sign and return the duplicate copy of the LOA in acknowledgement thereof. In the event the duplicate copy of the LOA duly signed by the Preferred Contractor (Contractor) is not received by the stipulated date, the Jabalpur Smart City Ltd. may, unless it consents to extension of time for submission, thereof, appropriate the Earnest Money Deposit of such Contractor as Damages on account of failure of the Preferred Contractor (Contractor) to acknowledge the LOA.
- (b) Issue of Letter of Award (LOA) shall not be construed as any right given in favor of the Preferred Contractor, and Jabalpur Smart City Ltd. reserves the right to annul the process of award, including signing of concession agreement, of this project without any liability or any obligation for such annulment, and without assigning any reasons thereof.
- (c) Upon issue of LOA to the Preferred Contractor, Jabalpur Smart City Ltd. will release the EMD of all Contractors, except the Preferred Contractor (Contractor).
- (d) After acknowledgement of the LOA as aforesaid by the Preferred Contractor (Contractor), it shall cause the Preferred Contractor (Contractor) to execute the Contract Agreement within the period prescribed. The Preferred Contractor (Contractor) shall not be entitled to seek any deviation, modification or amendment in the Contract Agreement.

28.2. RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS(S)

Jabalpur Smart City Ltd. reserves the right to accept or reject any bid, and to annul the tendering process/ public procurement process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders.

28.3. NOTIFICATION OF AWARD

Prior to the expiration of the validity period Jabalpur Smart City Ltd. will notify the successful Bidder in writing or by fax or email, that its proposal has been accepted. In case the tendering process / public

procurement process has not been completed within the stipulated period Jabalpur Smart City Ltd. may like to request the Bidders to extend the validity period of the bid.

28.4. CONTRACT FINALISATION AND AWARD

Jabalpur Smart City Ltd. shall reserve the right to negotiate with the Bidder whose bid has been ranked best value bid of the proposed Project basis the evaluation criteria. On this basis the draft contract agreement would be finalized for award and execution.

29. PERFORMANCE SECURITY

- (a) Jabalpur Smart City Ltd. will require the selected Bidder to provide a Performance Bank Guarantee in accordance with the Annexure for a value equivalent to 5% of the total cost of tender value. The Performance Guarantee shall be kept valid till completion of the Project. The selected Bidder shall be responsible for extending the validity date and claim period of the Performance Guarantee as and when it is due on account of non- completion of the Project and Warranty period. In case the selected Bidder fails to submit Performance Guarantee within the time stipulated, The JABALPUR SMART CITY LTD. at its discretion may cancel the order placed on the selected Bidder without giving any notice. The, JABALPUR SMART CITY LTD. shall invoke the Performance Guarantee in case the selected Contractor fails to discharge their contractual obligations during the Period or JABALPUR SMART CITY LTD. incurs any loss due to Contractor's negligence in carrying out the Project implementation as per the agreed terms and conditions.
- (b) In case, the Preferred Contractor fails to submit Performance Security within the time stipulated, the JABALPUR SMART CITY LTD. at its discretion may cancel the Letter of Award issued to the Preferred Contractor without giving any notice and may invoke the EMD of such Preferred Contractor.
- (c) No interest will be payable to the tenderer on the Performance Security deposited with the Jabalpur Smart City Ltd.

30. RELEASE OF PERFORMANCE SECURITY

The Performance Bank Guarantee will be released only after meeting all of the following conditions:

- (a) After successful implementation of this Project;
- (b) Successful implementation of all the services under this Agreement;
- (c) Payment of all the penalties; if any;
- (d) At the end of the Completion of work, Performance Bank Guarantee of Contractor will be released after successful handing over all the Active & Static Information System in proper/good conditions. If any deficiency noticed at the time of handing over the Contractor has to get rectified/replaced the same at his own cost otherwise. Jabalpur Smart City Ltd. will get it rectified at the risk and cost of the Contractor.
- (e) On production of clearance for all applicable dues, if any.

31. SIGNING OF CONTRACT AGREEMENT

- (a) Subsequent to Jabalpur Smart City Ltd. issuing Letter of Award (LOA) to the Preferred Contractor, the Preferred Contractor shall execute the Contract Agreement with the Jabalpur Smart City Ltd. within a period of 15 days from the date of issue of the Letter of Award.
- (b) After, Jabalpur Smart City Ltd. notifies the successful Bidder that its proposal has been accepted, Jabalpur Smart City Ltd. shall enter into a contract within the timelines provided in the LOA, incorporating all clauses, pre-bid clarifications and the proposal of the Bidder between Jabalpur Smart City Ltd. and the successful Bidder.
- (c) Failure of the Preferred Contractor to furnish the Performance Security or execute the Agreement within the prescribed time shall cause the EMD of the Preferred Contractor to be liquidated. The Preferred Contractor will be liable to indemnify Jabalpur Smart City Ltd. for any additional cost or expense, incurred on account of failure of the Preferred Contractor to execute the Contract Agreement.
- (d) Notwithstanding anything to the contrary mentioned above, Jabalpur Smart City Ltd. at its sole discretion shall have the right to extend the time lines for execution of Contract Agreement on the request of the Preferred Contractor, provided the same is bona-fide.

32. FAILURE TO AGREE WITH THE TERMS AND CONDITIONS OF THE RFP

- (a) Failure of the successful Bidder to agree with the Contract Agreement and Terms & Conditions of the RFP within the timelines provided in the LOA shall constitute sufficient grounds for the annulment of the award, in which event JABALPUR SMART CITY LTD. may award the contract to the next best value Bidder or call for new bids from the interested Bidders.
- (b) In such a case, the JABALPUR SMART CITY LTD. shall forfeit the Earnest Money Deposit of the successful Bidder.

33. DISPUTES

- (a) If any dispute or difference or claims of any kind arises between the Parties in connection with construction, interpretation or application of any terms and conditions or any matter or thing in any way connected with or in connection with or arising out of the Contract Agreement or the rights, duties or liabilities of any Party under the Contract Agreement, whether before or after the termination of the Contract Agreement, then the Parties shall meet together promptly, at the request of any Party, in an effort to resolve such dispute, difference or claim by discussion between them. There shall be a Dispute Settlement Committee, which shall try to settle all disputes at the first stage.
- (b) The C.E.O, Jabalpur Smart City Ltd., Madhya Pradesh shall chair the Dispute Settlement Committee. The authorized representative of the Contractor will be allowed to participate in the Dispute Settlement procedure. If the Committee fails to resolve the issue within 30 (thirty) days of reference for amicable settlement, the parties will be free to redress it in the front of the Directorate, Urban Development & Administration, Government of Madhya Pradesh, whose decision in this regard shall be final and binding on both the Parties.

34. DISQUALIFICATION

Even though the Bidder meets the pre-qualifying criteria, they could be disqualified if they have:

- (a) Submit the tender document after the date mentioned in advertisement.
- (b) Made misleading or false representations in the forms, statements and experiences submitted in proof of the qualification requirements.
- (c) Submit the tender document, which is not accompanied by the required documents or is non-responsive.
- (d) Failed to provide any clarifications related thereto.
- (e) Where the bidder has already submitted the tender document and is a member of entity, which has already submitted the tender document, or vice versa.
- (f) If any member of an entity is replaced or withdraws, except without prior written permission of Jabalpur Smart City Ltd. at any stage.
- (g) The successful bidder is not allowed to sub-lease the assigned spaces.
- (h) Violates any other condition mentioned herein before/hereinafter.
- (i) If any such information which would have entitled, Jabalpur Smart City Ltd. to reject or disqualify the Bidder, becomes known after the bidder has been pre-qualified, Jabalpur Smart City Ltd. reserves the right to cancel the pre-qualification of the bidder at any later stage, without assigning any reason thereof.
- (j) Bidders who canvass or attempt to influence the pre/post – qualification or selection process shall necessarily be disqualified from the process at any stage.
- (k) Where the bidder has been declared as defaulter or blacklisted by Jabalpur Smart City Ltd. before the date of opening of techno commercial Bid.

35. MAINTENANCE OF ACTIVE & STATIC INFORMATION SYSTEM

Minimum Maintenance to be ensured by the Contractor:

The Contractor shall be fully responsible for the Maintenance and upkeep of all the Active & Static Information System as per the Maintenance Period defined in the RFP.

- I. The Contractor has to adhere to the maintenance policies and procedures, as defined in the SOPs during first stage of the Project and approved by Jabalpur Smart City Ltd., for maintenance of the Project.
- II. The Active & Static Information System shall be structurally sound and maintained in good and properly secured condition. The navigation panels shall, at all time, be erected, fixed and retained in all respect to the satisfaction and in accordance with the requirement prescribed by the Jabalpur Smart City Ltd. or his authorized officer.
- III. Contractor will be responsible to deploy on-field resources for appropriate up keeping, maintenance, and operation of all the Active & Static Information System and ensure smooth

functioning of the project throughout the Maintenance Period.

- IV. The Contractor shall depute adequate manpower as onsite team. The team shall be deputed to identify, acknowledge, troubleshoot, manage, replace and repair the structure. The team shall undertake day-to-day troubleshooting and maintenance requirements for this project.
- V. All statutory compliances like Labor License, Professional Tax registration, Coverage of all applicable employees under ESI and PF act to be taken care by the Contractor.
- VI. Any damage to the street, foot-path, tiles, curb-stones, central verge or any other ancillary structures, during up-gradation/repair/maintenance/operation of the Active & Static Information System, including supporting structures, shall be the sole responsibility of the Contractor, which shall be made good by the Contractor, as per existing specifications, at its own cost.
- VII. The Contractor shall take all precautions to avoid any accidents during up-gradation/repair/maintenance/operation of the Active & Static Information System, electrical fittings and fixtures. If any accident occurs during up-gradation/repair/maintenance/operation of the Active & Static Information System fittings and fixtures, the Contractor shall be directly responsible for the damages or any other consequences, whatsoever and Jabalpur Smart City Ltd. shall be kept free of all such liabilities. Proper arrangement shall be made by the Contractor to avoid any hindrance to the traffic during up-gradation, repair, maintenance and operation of the Active & Static Information System. Diversion of traffic, if required, shall be arranged by the Contractor as per traffic police requirements at his own cost.
- VIII. All equipment and structural members of Active & Static Information System are to be inspected and maintained in good condition as per the Maintenance Manual.

36. TAXES

- (a) The Contractor shall be responsible for all the income tax, statutory taxes, statutory dues, local levies, excluding GST, etc., to be paid to Government / Statutory bodies / Authorities, etc., for the services rendered by it. There will be no tax liability upon the Jabalpur Smart City Ltd. whatsoever on any account.
- (b) The Contractor indemnifies Jabalpur Smart City Ltd. from any claims that may arise from the statutory authorities in connection with this License.
- (c) The Contractor should ensure enforcement of Applicable Laws including Labour Laws, Minimum Wages Laws, etc., and at no point of time should the Jabalpur Smart City Ltd. be drawn into litigation on these counts.

37. ROLES & RESPONSIBILITIES

37.1. JABALPUR SMART CITY LTD.

Jabalpur Smart City Ltd. agrees to observe, comply and perform the following:

- (a) The Contractor shall erect/install Active & Static Information System only on the earmarked sites provided by Jabalpur Smart City Ltd. Any violation shall result in immediate cancellation of the contract without any prior notice.
- (b) The Contractor has to incur all expenses: The Contractor shall incur all expenses related to installation,

erection, Civil Construction, Electrical Installation of the Active & Static Information System and Structural design of Active & Static Information System, the certified structural design & drawing submitted by Contractor shall be further verified by Jabalpur Smart City Ltd.. Under No circumstances Jabalpur Smart City Ltd. shall bear any charges related to the installation and erection of the

Active & Static Information System. The Contractor shall have to get the structural plans approved by the Structural Engineer of good repute duly approved by Jabalpur Smart City Ltd., at his own cost.

- (c) Jabalpur Smart City Ltd. shall appoint one or more officers of suitable seniority in rank and tenure to act as the point of contact for the Contractor within Jabalpur Smart City Ltd. and who would assist in the implementation of the Project and for enabling the resolution of any issues that may arise in the implementation of the Project;
- (d) At the end of the Construction Period, all rights given to the Contractor shall be terminated automatically.
- (e) Jabalpur Smart City Ltd. shall provide single window clearance, where JABALPUR SMART CITY LTD. has full control and jurisdiction, to the Contractor for the purpose of this RFP document.
- (f) The Jabalpur Smart City Ltd. shall take metered electricity for Active & Static Information System. The entire electricity charges of Active & Static Information System shall be borne by Jabalpur Smart City Ltd.

37.2. CONTRACTOR

The Contractor role, responsibilities and obligations relating to the Project are provided herein below:

- (a) The Contractor shall undertake the work **“Infrastructure upgradation and improvement for commuter safety”**, as per indicative list attached in Annexure-1 and adhere to requirements for the implementation of the Project as provided in Contract Agreement.
- (b) The Contractor shall inspect the site which will be given on ‘as is where is’ basis and may obtain necessary clarification, if any, regarding the same to his full satisfaction before offering the bid for the same. The Contractor shall acquaint him of all the local conditions and sites condition.
- (c) The Contractor will be responsible for all installation work related to installation of Active & Static Information System and infrastructure requirements related to any work under this RFP document.
- (d) Erect suitable structures at its own cost for installation of Active & Static Information System. These structures/Active & Static Information System shall be aesthetically designed and structurally stable and as per Jabalpur Smart City Ltd. specifications. The Contractor shall also indemnify Jabalpur Smart City Ltd. for any damage due to such structures.
- (e) The Contractor shall appoint one or more officers of suitable seniority in rank and tenure for the project to act as a Nodal officer & point of contact for Jabalpur Smart City Ltd. within the Contractor organization and who would assist in the implementation of the Project and for enabling the resolution of any issues that may arise in the implementation of the Project. It is clarified that information of such officer(s) shall communicated in writing by the Contractor to Jabalpur Smart City Ltd. within 15 (fifteen) working days from the Appointed Date.

- (f) The Contractor shall provide full assistance and cooperation at its own cost to Jabalpur Smart City Ltd. to get all the necessary Applicable Clearances during the Term of this Agreement or any even after the Termination or expiration of the Term of this Contract Agreement. Additionally:
- (g) the Contractor hereby warrants, covenants and undertakes that at no time, during the term of the Agreement, or post the expiry / termination of this Contract Agreement, for whatever reason, the Contractor shall make or be entitled to make any claim to the trade name or the Brand and alike or any part of the name or names under which Jabalpur Smart City Ltd. is carrying on the business nor shall the Contractor use a part of the style of its business any name(s), the Brand or logo(s), designs, manuals, technical know-how, or sign(s), which is or which are deceptively or confusingly similar to the Brand; nothing in this project will ever be construed as giving the Contractor any right, title or interest in whatsoever in or to the Brand or giving the Contractor or others permission to use the same or any colorable imitation thereof in any manner, except in accordance with and during the subsistence of this Agreement or with the prior written approval of the of Jabalpur Smart City Ltd.. The Contractor will not use the Brand, as part of its corporate or other formal business name, except as may result as a consequence of the Contractor as per this Agreement. The Contractor will not register or attempt to register the Brand in any state, nation or political subdivision thereof. The use by the Contractor of the Brand outside the scope of this Agreement, without Jabalpur Smart City Ltd.'s prior written consent, will be an infringement and/or passing off of JABALPUR SMART CITY LTD.'s right, title and interest in and to the Brand, and the Contractor expressly covenants that during the term of this Agreement, and after the expiration or termination thereof, the Contractor will not, directly or indirectly, commit an act of infringement or passing off or contest or aid in contesting the validity or ownership of the Brand, or take any other action in derogation thereof; and
- i. The Contractor shall be solely and exclusively responsible for all such employees, workmen, personnel and staff employed for the purposes of implementing the Project.
 - ii. The Contractor shall be responsible for damage caused to the public/property at the time of construction/installation: Jabalpur Smart City Ltd. shall not be responsible or liable or made a party to any damages or accidents which may happen at the site. The Contractor shall be liable and responsible for any loss of life and / or physical harm/any other loss to the public or any other Contractor including Government on account of negligence on the part of Contractor in maintaining the property.
- (h) All physical assets created under this RFP, will become the property of Jabalpur Smart City Ltd. at the end of Construction Period or at termination of the Construction, whichever is earlier, and the Contractor will not have any legal right on these assets.
- (i) At the end of the Construction Period, the Contractor has to hand over all physical assets belonging to Jabalpur Smart City Ltd. in proper condition. In case of any deficiency noticed at the time of such handing over, the Contractor has to get it rectified at his own cost within 15 days of such handing-over, otherwise Jabalpur Smart City Ltd. will get it rectified at the risk and cost of the Contractor. Performance Security of Contractor will be released only after successful handing over of the all physical assets in working condition to Jabalpur Smart City Ltd.
- (j) Any damage to other services arising due to installation or execution or repair or maintenance work by the Contractor, shall have to be made good by the Contractor within 72 hours of such damage,

failing which Jabalpur Smart City Ltd. will issue a notice to Contractor asking for justification. Contractor will be required to respond to such notice within 3 working days. In case it is found out that the current issue at hand is out of control of Contractor then problem will be solved jointly by Jabalpur Smart City Ltd. and Contractor based on their agreement. Else, Contractor will be required to do the needful within 72 hours of the decision made by Jabalpur Smart City Ltd.

- (k) Contractor to deposit BG/FDR/DD as a refundable security deposit with the Jabalpur Smart City Ltd. as per the provisions of this RFP, which will be released within nine months from the date of end of Contract Period, only upon successful completion of the work and settlement of all dues (unless the said amount is forfeited for any breach of contract) and that the said Security Deposit shall not carry any interest.

38. PAYMENT TERMS

S. No.	Milestone	Percentage of payment
1	Mobilization Advance: Mobilization advance shall be given as secured advance only after submission of BG of equivalent amount having validity equivalent of contract period. The value of mobilization advance shall not exceed 30% of contract value. The recovery of mobilization advance shall be made from running bills which shall be @ 30% of running bill amount.	
2	Running Bill: The successful bidder will have to raise Running Bills of executed work by 1st week & 3 rd week of each calendar month. 50% Payment of the same shall be released against proof of material delivery at site/ store of JABALPUR SMART CITY LTD. Balance 50% payment shall be released against successful completion of installation work at site. All payments shall be adjusted for deductions for Security Deposit, other recoveries in terms of Contract and taxes at source as applicable under the law.	95%
3	Security Deposit: Security deposit shall be deducted from each running bill at the rate of 5%. The total amount of Security Deposit so deducted shall not exceed the 5% of total Contract Price specified in the RFP. The Security Deposit shall be refunded on completion of Maintenance Period or giving BG of equivalent amount.	5%

39. COMPLIANCE TO RULES, REGULATIONS, INSTRUCTIONS AND STATUTORY PROVISIONS

It will be the responsibility of the Contractor to ensure the compliance of all the instructions/provisions issued time to time by JABALPUR SMART CITY LTD., Jabalpur. Jabalpur Smart City Ltd., Madhya Pradesh

Government, Electricity Company, PWD or any other department of the Union Govt. or M.P. Govt., or any other authority are strictly adhered to. Any violation of any lawful provision will be treated, as a violation of the terms and conditions of contract and action will be taken against the Contractor as per provision of the contract.

40. CONTRACTOR RESPONSIBILITY FOR PUBLIC LIABILITY AND AGAINST ALL CLAIMS, ACT LOSSESETC

The Contractor shall indemnify the JABALPUR SMART CITY LTD. against all claims, actions, demands, losses, charges, and cost of expenses, which the ., JABALPUR SMART CITY LTD. has to incur, or which may occur on account of infringement of any of these conditions by the Contractor or on any other account whatsoever. The Contractor shall obtain a public liability policy of insurance in respect of JABALPUR SMART CITY LTD allotted to him.

41. THE JABALPUR SMART CITY LTD., AUTHORITY TO RECOVER THE COST IN CASE OF ANYDEFAULT

If the Contractor shall neglect or fail to do anything which he is required to do under the Provisions of the Contract, the ., JABALPUR SMART CITY LTD., MADHYA PRADESH or any other authorized Person may serve a notice on the Contractor asking him to do the things agreed upon as Aforesaid and on their neglect or failure to do as directed, cause the same to be done and recover the cost thereof from the Contractor without prejudice to any other rights, the ., JABALPUR SMART CITY LTD. may have on account of such default.

42. INDEMNITY

1. Contractor shall be required to indemnify the ., JABALPUR SMART CITY LTD. for the designated Signage and road safety and activities against all actions, proceedings, claims, demands, costs, losses, damages and expenses, etc., which may be brought against, or made upon the ., JABALPUR SMART CITY LTD. which arise as a result of the installation of said System.
1. The Contractor shall always be responsible for any injury or damage caused or suffered by any person or property arising out of or related to the installation of said System and the consequential claim shall be borne by the Contractor who will also indemnify and safeguard the ., JABALPUR SMART CITY LTD. in respect of any such claim or claims.

44. TERMINATION OF CONTRACT ONBREACH

44.1. BY., JABALPUR SMART CITY LTD.

- (a) The JABALPUR SMART CITY LTD. may, by not less than 30 (thirty) days' written notice of termination to the Bidder, such notice to be given after the occurrence of any of the events specified in this Clause, terminate this Agreement if:
 - I. the Bidder fails to remedy any breach hereof or any failure in the performance of its obligations hereunder, as specified in a notice of suspension pursuant to Clauses of this RFP here in above, within 90 (ninety) days of receipt of such notice of suspension or within such further period as the JABALPUR SMART CITY LTD. may have subsequently granted in writing;
 - II. the Bidder becomes insolvent or bankrupt or enters into any agreement with its creditors for relief of debt or take advantage of any law for the benefit of debtors or goes into liquidation or

receivership whether compulsory or voluntary;

- III. the Bidder fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clauses of this RFP thereof;
 - IV. the Bidder submits to the ., JABALPUR SMART CITY LTD. a statement which has a material effect on the rights, obligations or interests of the ., JABALPUR SMART CITY LTD. and which the Bidder knows to be false;
 - V. any document, information, data or statement submitted by the Bidder in its Proposals, based on which the Bidder was considered eligible or successful, is found to be false, incorrect or misleading;
 - VI. as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than 60 (sixty) days ;or
 - VII. the., JABALPUR SMART CITY LTD., in its sole discretion and for any reason whatsoever, decides to terminate this Agreement.
- (b) It is further agreed that the Contractor shall not commit any breach of the terms and conditions of the agreement and in the unlikely event of any other breach, the ., JABALPUR SMART CITY LTD. shall give notice calling upon the Contractor to rectify/remedy the breach, to satisfy the ., JABALPUR SMART CITY LTD. about there being no breach and satisfy the ., JABALPUR SMART CITY LTD. within a period of 30 days from the date of notice otherwise the ., JABALPUR SMART CITY LTD. shall be entitled to terminate the agreement without giving any further notice and in that event the ., JABALPUR SMART CITY LTD. shall be entitled to recover all its dues which can be adjusted from the dues of Contractor if any found due to him.
- (c) It is further agreed that the Contractor has to handover the Active & Static Information System in good condition including Electricity Connection. Electric Fittings. In case of any damage/loss/mishandling observed, expenditure occurred there upon to make it in good condition would be deducted from the Security Deposit.

44.2. BYCONTRACTOR

The Bidder may, by not less than 90 (ninety) days' written notice to the ., JABALPUR SMART CITY LTD., such notice to be given after the occurrence of any of the events specified in this Clause, terminate this Agreement if:

- (a) The JABALPUR SMART CITY LTD. is in material breach of its obligations pursuant to this Agreement and has not remedied the same within 45 (forty-five) days (or such longer period as the Bidder may have subsequently granted in writing) following the receipt by the JABALPUR SMART CITY LTD. of the Bidder's notice specifying such breach;
- (b) The JABALPUR SMART CITY LTD. fails to comply with any final decision reached as a result of arbitration pursuant to Clauses of this RFP thereof.

45. ACCEPTANCE / REJECTION OFTENDER.

The JABALPUR SMART CITY LTD. reserves the right to accept or reject any tender without assigning any reason(s).

46. JURISDICTION OF COURT

The courts located in Madhya Pradesh only shall have Jurisdiction to try and decide the matter / dispute between the parties.

47. WRITTEN AGREEMENT

The Contractor will have to enter into an agreement with the JABALPUR SMART CITY LTD. for the proper fulfillment of the contract on lines similar to terms of the tender or as modified or added by JABALPUR SMART CITY LTD.. Contractor shall have to furnish non-judicial stamp paper of appropriate value within ten days from the date of issue of offer letter. The Agreement shall be executed only on furnishing the Performance Security as per clause of Performance Security.

All documents submit by Contractor at the time of Tender will be the part of Contract Agreement.

48. ENTIRE AGREEMENT

The Agreement and the Annexes together constitute a complete and exclusive statement of the terms of the agreement between the Parties on the subject hereof, and no amendment or modification hereto shall be valid and effective unless such modification or amendment is agreed to in writing by the Parties and duly executed by persons especially empowered in this behalf by the respective Parties. All prior written or oral understandings offers or other communications of every kind pertaining to this Agreement are abrogated and withdrawn; provided, however, that the obligations of the Bidder arising out of the provisions of the RFP shall continue to subsist and shall be deemed to form part of this Agreement.

Without prejudice to the generality of the provisions of above Clause, on matters not covered by this Agreement, the provisions of RFP shall apply.

49. FORCE MAJEURE

49.1. DEFINITION

- (a) For the purposes of this Agreement, “**Force Majeure**” means an event which is beyond the reasonable control of a Party, and which makes a Party’s performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by government agencies.
- (b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected to both (A) take into account at the time of the conclusion of this Agreement, and (B) avoid or overcome in the carrying out of its obligations hereunder.
- (c) Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

49.2. NO BREACH OF AGREEMENT

The failure of a Party to fulfill any of its obligations hereunder shall not be considered to be a breach of, or

default under, this Agreement insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Agreement.

49.3. MEASURES TO BETAKEN

- (a) A Party affected by an event of Force Majeure shall take all reasonable measures to remove such Party's inability to fulfill its obligations hereunder with a minimum of delay.
- (b) A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any event not later than 14 (fourteen) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give notice of the restoration of normal conditions as soon as possible.
- (c) The Parties shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

49.4. EXTENSION OF TIME

Any period within which a Party shall, pursuant to this Agreement, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure or as decided mutually between municipal corporation and the contractor.

49.5. PAYMENTS

During the period of its inability to perform the Services as a result of an event of Force Majeure, the Bidder shall not be entitled to be reimbursed for Additional Costs and grant of extension of time shall be the only compensation given to the contractor.

49.6. CONSULTATION

Not later than 30 (thirty) days after the Contractor has, as the result of an event of Force Majeure, become unable to perform a material portion of the Services, the Parties shall consult with each other with a view to agreeing on appropriate measures to be taken in the circumstances.

50. COUNTEROFFER

No counter request/offer will be acceptable to the JABALPUR SMART CITY LTD. once the tender process is initiated.

**SECTION II SCOPE
OF WORK
DEVELOPMENT CONTROLS AND
TECHNICAL SPECIFICATIONS**

SCOPE OF WORK, DEVELOPMENT CONTROLS AND TECHNICAL SPECIFICATIONS

51. SCOPE OF WORK

The scope of work includes but not limited to:

- (a) Survey, Design, Fabrication, Supply, Installation, Maintenance of uniform city signage, road furniture and variable message signage including ancillary/support infrastructure as per technical specifications provided in the document.
- (b) Meet the requirements laid down by the Jabalpur Smart City Ltd.
- (c) Successful Contractor shall be responsible for Installation and construction of Active & Static Information System on specified location identified by Jabalpur Smart City Ltd. The maximum time period for completion of the Erection/Installation of all Active & Static Information System shall be Twelve (12) months.
- (d) The Contractor shall also be fully responsible for Maintenance of all Active & Static Information System. Maintenance of all Active & Static Information System will be done as per the standards stipulated in Minimum Development Obligation's (MDOs).
- (e) The Contractor/Successful Bidder of the Active & Static Information System shall be liable to buy insurance against public liability.

52.1. INSTALLATION TYPE OF ACTIVE & STATIC INFORMATION SYSTEM

1.1 Overhead Gantry& Cantilever Signboards & its specification –

The single sided shoulder mounted retro reflective signboards comprising of customised modular PU Epoxy Coated MS angle iron framework, aluminium composite panel (ACP) as base board, micro prismatic retro-reflective sheet and electro cut coloured overlay film. The horizontal and vertical members including inclined outer members of the MS frame module shall be made of pair MS angle iron 35x35x5 mm. No panel size shall be more than one Sqm and each panel shall be braced diagonally (one way only) with MS angle of 35x35x5 mm. The MS frame module shall have length not more than 3 mtr. The aluminium composite panel (ACP) shall have a thickness of 4mm with 0.5mm thick skin of aluminium on both sides. The ACP shall be fixed on the MS frame with pop riveting or with self taping SS screws 5mm dia spaced not more than 300mm centre to centre. On the front visible face of the ACP, micro prismatic retro-reflective sheet conforming to Type-XI of ASTM: D 4956-09 shall be pressure fixed as background sheet (In white colour) which will be printed over by HP Latex printer for providing required letter/ word/ direction/ legend/ theme etc of a desired road sign. Inks used for printing shall be certified for low volatile organic compound (VOC) emission conforming to UL 2801 standards (Standard for Sustainability of printing inks).The rate shall include all materials, labour, equipments, fabrication, transportation, erection, installation and incidentals all complete as per direction of the Engineer-in-Charge.

1.2 Place Identification Signboards & its specification –

The single sided shoulder mounted signboards comprising of customised modular PU Epoxy Coated MS angle iron framework, aluminium composite panel (ACP) as base board, micro prismatic retro-reflective

sheet and electro cut coloured overlay film. The horizontal and vertical

members including inclined outer members of the MS frame module shall be made of pair MS angle iron 35x35x5 mm. No panel size shall be more than one Sqm and each panel shall be braced diagonally (one way only) with MS angle of 35x35x5 mm. The MS frame module shall have length not more than 3 mtr. The aluminium composite panel (ACP) shall have a thickness of 4mm with 0.5mm thick skin of aluminium on both sides. The ACP shall be fixed on the MS frame with pop riveting or with self-taping SS screws 5mm dia spaced not more than 300mm centre to centre. On the front visible face of the ACP, micro prismatic retro-reflective sheet conforming to Type-XI of ASTM: D 4956-09 shall be pressure fixed as background sheet (In white colour) which will be printed over by HP Latex printer for providing required letter/ word/ direction/ legend/ theme etc of a desired road sign. Inks used for printing shall be certified for low volatile organic compound (VOC) emission conforming to UL 2801 standards (Standard for Sustainability of printing inks). The rate shall include all materials, labour, equipments, fabrication, transportation, erection, installation and incidentals all complete as per direction of the Engineer-in-Charge.

1.3 Shoulder Mounted and Heritage Signboards & its specification –

Providing and fixing retro-reflective single sided shoulder mounted signboards comprising of customised modular PU Epoxy Coated MS angle iron framework, aluminium composite panel (ACP) as base board, micro prismatic retro-reflective sheet and electro cut coloured overlay film. The horizontal and vertical members including inclined outer members of the MS frame module shall be made of pair MS angle iron 35x35x5 mm. No panel size shall be more than one Sqm and each panel shall be braced diagonally (one way only) with MS angle of 35x35x5 mm. The MS frame module shall have length not more than 3 mtr. The aluminium composite panel (ACP) shall have a thickness of 4mm with 0.5mm thick skin of aluminium on both sides. The ACP shall be fixed on the MS frame with pop riveting or with self taping SS screws 5mm dia spaced not more than 300mm centre to centre ensuring that no riveting is seen on either face of the frame. On the front visible face of the ACP, micro prismatic retro-reflective sheet conforming to Type-XI of ASTM: D 4956-09 shall be pressure fixed as background sheet (In white colour) which will be printed over by HP Latex printer for providing required letter/ word/ direction/ legend/ theme etc of a desired road sign. Inks used for printing shall be certified for low volatile organic compound (VOC) emission conforming to UL 2801 standards (Standard for Sustainability of printing inks). The rate shall include all materials, labour, equipments, fabrication, transportation, erection, installation and incidentals all complete as per direction of the Engineer-in-Charge.

1.4 Road Name & Slogan Signboards & its specification –

The single sided shoulder mounted retro reflective signboards comprising of customised modular PU Epoxy Coated MS angle iron framework, aluminium composite panel (ACP) as base board, micro prismatic retro-reflective sheet and electro cut coloured overlay film. The horizontal and vertical members including inclined outer members of the MS frame module shall be made of pair MS angle iron 35x35x5 mm. No panel size shall be more than one Sqm and each panel shall be braced diagonally

(one way only) with MS angle of 35x35x5 mm. The MS frame module shall have length not more than 3 mtr. The aluminium composite panel (ACP) shall have a thickness of 4mm with 0.5mm thick skin of aluminium on both sides. The ACP shall be fixed on the MS frame with pop riveting or with self tapping SS screws 5mm dia spaced not more than 300mm center to center ensuring that no riveting is seen on either face of the frame. On the front visible face of the ACP, micro prismatic retro-reflective sheet conforming to Type-XI of ASTM: D 4956-09 shall be pressure fixed as background sheet (In white colour which will be printed over by HP Latex printer for providing required letter/ word/ direction/ legend/ theme etc of a desired road sign. Inks used for printing shall be certified for low volatile organic compound (VOC) emission conforming to UL 2801 standards (Standard for Sustainability of printing inks).The rate shall include all materials, labour, equipments, fabrication, transportation, erection, installation and incidentals all complete as per direction of the Engineer-in-Charge.

1.5 Cautionary, Mandatory, Hazard Signboards & its specification –

Providing and fixing retro-reflective single sided shoulder mounted signboards comprising of customised modular PU Epoxy Coated MS angle iron framework, aluminium composite panel (ACP) as base board, micro prismatic retro-reflective sheet and electro cut coloured overlay film. The horizontal and vertical members including inclined outer members of the MS frame module shall be made of pair MS angle iron 25x25x3 mm. No panel size shall be more than one Sqm and each panel shall be braced diagonally (one way only) with MS angle of 25x25x3 mm. The MS frame module shall have length not more than 3 mtr. The aluminium composite panel (ACP) shall have a thickness of 4mm with 0.5mm thick skin of aluminium on both sides. The ACP shall be fixed on the MS frame with pop riveting or with self tapping SS screws 5mm dia spaced not more than 300mm centre to centre ensuring that no riveting is seen on either face of the frame. On the front visible face of the ACP, micro prismatic retro-reflective sheet conforming to Type-XI of ASTM: D 4956-09 shall be pressure fixed as background sheet (In white colour) which will be over laid with electro cut transparent film of approved make and colour to create a desired road sign. The slogan/ logo can be HP Latex printed or with any other printer as per recommendation of retro reflective sheeting manufacturer. The rate shall include all materials, labour, equipments, fabrication, transportation, erection, installation and incidentals all complete as per direction of the Engineer-in-Charge.

52. DEVELOPMENT BRIEF

The responsibility of the Bidder shall include all activities that are required to be undertaken, in order to confirm with the Minimum Development Obligations, Use Allocation provided in this section of RFP. The Active & Static Information System would need to be planned, designed and constructed in accordance with the Shared Technical & Architectural Specifications, Standards, and Design Guidelines and 'Maintenance & Performance Standards' provided in this section of RFP and as highlighted in table below.

S. No.	Description of Parameters	Applicable Standards	Remarks
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1	Development Controls and regulations	Indian Road Congress (IRC), National Highway Authority of India (NHAI) regulations and National Building Code (NBC) guidelines,	Any other applicable regulations/stipulations, of any other statutory authorities applicable in Jabalpur Jabalpur Smart City Ltd. jurisdiction.
2	Spatial planning and architectural design guidelines	Urban Development Plans Formulation & Implementation guidelines (UDPI) and Time Saver Standards. <i>Specifications, guidelines stipulated in this section of RFP</i>	Any other applicable regulations/stipulations, of any other statutory authorities.
3	Alternative/ nonconventional materials/ technologies, sustainable buildings, energy conservation, etc.	Environmental Building Guidelines' of Jabalpur Smart City Ltd. and Indian Green Building Council (IGBC)	Any other applicable regulations/stipulations of any other statutory authorities.

S. No.	Description of Parameters	Applicable Standards	Remarks
4	All Pavements and Signage	Indian Road Congress (IRC) & Ministry of Road Transport and Highways (MORTH) specifications.	Any other applicable regulations/stipulations, of any other statutory authorities.
5	Project construction including structures, utilities, infrastructure facilities, etc.	National Building Council (NBC) regulations and as per Bureau of Indian Standards (BIS).	Any other applicable regulations/stipulations, of any other statutory authorities.
6	Performance Standards	ISO 9001: 2008	Any other applicable regulations/stipulations, of any other statutory authorities.

53. PROJECTCOMPONENTS

- Jabalpur Smart City Ltd. envisages creation of state-of-the-art modern Active & Static Information System at various locations of Jabalpur.
- The Contractor is expected to install/construct and operate the project facility that shall have seamless integration of project facilities for seamless movement of passengers/ commuters and pedestrians

among the Active & Static Information System and the adjoining properties – commercial, residential, office space, etc.

- (c) The Contractor shall prefer to adopt eco-friendly practices in the construction and operation of the Active & Static Information System.
- (d) The Contractor may explore mechanism for renewable energy generation (like solar panels), which can be utilized, for operation of project facilities and allied facilities that would make the facility self-sustainable and also result in reduced operational expenditure.

54. OPERATION AND MAINTENANCE OF THE INSTALLED WAYFINDER AND VMSBOARDS

The Contractor shall be fully responsible for the Operation and Maintenance of the installed Active & Static Information System as per the details mentioned in Minimum Development Obligations

during Maintenance Period which shall be of 60 months for static and 60 months for active information system from the date of handing over of the particular site in phased manner.

55. TIMELINE AND DELIVERABLE

- (a) Signing of Contract Agreement within 15 days from the date of issue of Letter of Allotment (LOA).
- (b) Period of Supply & Installation of Active & Static Information System & will be Twelve (12) months from the date of signing of agreement for Phase 1. However, based on mutual consent and leftover scope of work or additional quantity, it can be further extended for period mutually decided between the parties.
- (c) Mobilization advance to the tune of maximum 30% can be given provided the same shall be covered with equivalent amount of security/ BG.

56. PROJECT IMPLEMENTATION PLAN

- (a) The Contractor shall carry out the survey for identification of various potential locations to install the signage's in the city. The survey should be completed within 14 days and prepare a phase wise detail project implementation plan.
- (a) Jabalpur Smart City Ltd. shall review and finalize the detailed implementation plan/schedule submitted by the Contractor and only after obtaining the approval from Jabalpur Smart City Ltd.; Contractor shall execute the project for the successful and timely implementation of the Project.
- (b) The Contractor should also propose method of project execution. The detailed implementation approach for the proposed model along with appropriate justification should be presented by the Contractor.
- (c) The Contractor shall be responsible for accuracy of the data collected by it directly or procured from other agencies/authorities, the designs, drawings, and all other details prepared by it as part of implementing the project.
- (d) At the time of completion of implementation period, the Contractor shall inform the JABALPUR SMART CITY LTD. in writing for the same along with a list of all the assets (details of equipment, software,

services, etc.) installed/deployed during the implementation period under this RFP document.

- (e) During the implementation period JABALPUR SMART CITY LTD. may revise or change the approved implementation plan.

57. ACTIVE & STATIC INFORMATION SYSTEM INSTALLATION CONTROLS

- (a) The subject locations with the Right of Way (RoW) as mentioned above are located in various areas of Jabalpur Smart City Ltd.
- (b) All the Applicable Development Controls and Regulations for development of Active & Static Information System in the proposed locations shall be as per the shared specifications.
- (i) The selected Contractor shall ensure that the Project design and development is compliant with 'Ministry of Road Transport and Highways (MORTH)', 'National Highway Authority of India (NHAI) & Indian Road Congress (IRC) regulations.
- (j) The Project components of Active & Static Information System including access to project facilities like foundation; signage, etc. shall be as per MORTH (Ministry of Roads, Transport and Highways) specifications.
- (k) The Active & Static Information System with structure like information and display panels, etc., shall adhere to the standards/regulations of Indian Road Congress (IRC), National Building Construction Code (NBCC) and BIS. Overall, the performance of the project facilities shall comply/satisfy as per ISO 9001:2008 standards.
- (l) The selected Contractor shall also confirm to any other applicable stipulations and guidelines issued by any other statutory authorities. The Contractor may consider employing solar energy to meet part of the power requirements of the project facilities like lighting in the equipment's and messaging boards, etc.

58. ACTIVE & STATIC INFORMATION SYSTEM STRUCTURAL SPECIFICATIONS

Active & Static Information System: Each Active & Static Information System shall be of below mentioned Material Specification and designs. The Active & Static Information System panel can be single side or double sided based on the Active & Static Information System format.

However, size of panel in the Active & Static Information System can be changed subject to a valid reason and with a written permission from Jabalpur Smart City Ltd., Madhya Pradesh.

The specifications of the display on pole shall include:

- (a) A Structural Engineer practicing in the field of structural engineering shall certify each Active & Static Information System structures.

- (b) This certification confers compliance of the design with relevant Indian Structural Design Standards, Codes of practice and conditions of Madhya Pradesh Jabalpur Smart City Ltd. Act, 1956. The foundations shall be designed and checked for extreme wind conditions, earthquake, weight bearing capacity etc.
- (c) While installing the Active & Static Information System, the Contractor shall not cause any damage to any street furniture/pavement of the street, in any manner whatsoever.
- (d) The Active & Static Information System shall be structurally sound and maintained in good and properly secured condition.
- (e) A Certified Structural Engineer practicing in the field of structural engineering shall certify the structures prior to issuance of permission for commercial operation in terms of:-
 - (a) Wind load bearing of structure and its foundations for 150 Km/h.
 - (b) Confirmation of specification of fabricated structure & its foundations as mentioned in RFP.
- (f) The structure should be dimensioned to withstand local wind gusts according to regulations.
- (g) Contractor will be responsible for any structural inadequacy or any damage or casualty happens through the Active & Static Information System. The Contractor has to every year submit the structure soundness certificate of all the Active & Static Information System in the office of Jabalpur Smart City Ltd.
- (h) All materials should be non-flammable.
- (i) All sharp corners should be eliminated.
- (j) The Active & Static Information System components and structures shall be well maintained such a manner that are consistent with, and enhance, the surrounding area.
- (k) If any utility shifting is required for the erection, installation work of Active & Static Information System is required then the same shall be the responsibility of the Authority.
- (l) Whenever any of the Active & Static Information System is damaged due to any reason whatsoever, the same shall be repaired within 5 working days.
- (m) The design of the Active & Static Information System should be high strength, sturdy and durable and should resist wind speed at 150 km/h. These should be of anti-rust, anticorrosion surface. The surface should prevent wind abrasion and sustain high temperature.
- (n) The Structural Engineer shall be accountable in case of any structural disability of the Active & Static Information System. Contractor by engaging certified structural engineer should do the annual audit of the Active & Static Information System and report should be submitted to Jabalpur Smart City Ltd.

- (o) A qualified third-party engineer shall check and verify above mentioned specifications and conditions at site. The Contractor shall be given permission for commercial operation based upon such report.
- (p) All Active & Static Information System shall be installed at various strategic locations of the city. They must not block, obstruct any traffic, footpath, cycle track, bus stop or any other public utility spots. In case, any location given in this document is found to violate above condition, same shall be replaced with other suitable/available location.
- (q) During installation, the successful bidder must ensure that:-
 - (c) There is safe distance from overhead electrical cable; same should be approved by state electrical safety department in writing.

59. ACTIVE & STATIC INFORMATION SYSTEM INSTALLATION CRITERIA

- (a) No Active & Static Information System shall be attached in any way to trees or shrubs.
- (b) No trade and business sign, messages, posters or printed material of any nature shall be attached /pasted directly onto Active & Static Information System.
- (c) Active & Static Information System in any form shall not obstruct any pedestrian movement (vertically and laterally), fire escape door or window openings.
- (d) No Active & Static Information System shall be in any form or manner interferes with openings required for light and ventilation as prescribed in prevalent Building Bye Laws.
- (e) The cabling and conduit should be concealed from view of the Active & Static Information System.
- (f) No Active & Static Information System under any circumstances shall be supported from, hung or placed on other signs. Each Active & Static Information System should be self-supporting or fixed securely with the architectural structure.
- (g) The JABALPUR SMART CITY LTD. does not have the accurate location of all underground services. The Contractor is responsible to co-ordinate, inform and communicate to relevant authorities before any excavation or fabrication on site work is to be undertaken. Any liability, delay or accident that happens, is complete responsibility of the Contractor.
- (h) Contractor is solely responsible for ensuring that during erection, maintenance, alteration and operation of Active & Static Information System, the Active & Static Information System do not conflict with services or other things within the road reserve.
- (i) The JABALPUR SMART CITY LTD. may ask the Contractor to either replace or altogether remove any Active & Static Information System to facilitate the work undertaken by utility services such as power, telecommunications, gas, storm water, water supply and sewerage, or for road widening.

60. ACTIVE & STATIC INFORMATION SYSTEM TECHNICAL SPECIFICATIONS AND STANDARDS

60.1. TECHNICAL SPECIFICATIONS FOR SHEETING ANDWAYFINDER

- (i) Technical Specifications for Type XI Retro Reflective Sheeting as Per IRC67-2012
- (ii) The Retro Reflective sheeting used shall conform to Type XI standards as per IRC 67- 2012 & ASTM D 4956-09 and shall meet Minimum Acceptable Coefficient of Retro Reflection values as mentioned given in IRC67-2012.

Type IX Micro Prismatic Grade Sheeting: Retro reflective sheeting typically manufactured as a cube corner. The reflective sheeting shall be retro reflective sheeting made of micro prismatic retro reflective material. The retro reflective surface, after cleaning with soap and water and in dry condition shall have the minimum co-efficient of retro reflection (determined in accordance with ASTM D 4956-09) as indicated in table below:

Minimum Coefficient of Retro reflection (cd/lux/sqm)										
Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown	Fluorescent Yellow-Green	Fluorescent Yellow	Fluorescent Orange
0.1	-4	830	620	83	125	37	25	660	500	250
0.1	30	325	245	33	50	15	10	260	200	100
0.2	-4	580	435	58	87	26	17	460	350	175
0.2	30	220	165	22	33	10	7	180	130	66
0.5	-4	420	315	42	63	19	13	340	250	125
0.5	30	150	110	15	23	7	5	120	90	45
1	-4	120	90	12	18	5	4	96	72	36
1	30	45	34	5	7	2	1	36	27	14

- ⁴Minimum Coefficient of Retro reflection (R_A)(cd.lx⁻¹.m⁻²).
- When totally wet, the sheeting shall show not less than 90 percent of the values, of retro reflection indicated in above Table. At the end of 10 years, the sheeting shall retain at least 80 percent of its original retro-reflectance.

60.2. ADHESIVES

The sheeting shall have a pressure-sensitive adhesive of the aggressive-tack type requiring no heat, solvent or other preparation for adhesion to a smooth clean surface, in a manner recommended by the sheeting manufacturer. The adhesive shall be protected by an easily removable liner (removable by peeling without soaking in water or other solvent) and shall be suitable for the type of material of the base plate used for the sign. The adhesive shall form a durable bond to smooth, corrosion and weather resistant surface of the base plate such that it shall not be possible to remove the sheeting from the sign base in one piece by use of sharp instrument. The sheeting shall be applied in accordance with the manufacturer's specifications.

60.3. MESSAGES/BORDERS

The messages (legends, letters, numerals etc.) and borders of Retro Reflective Boards shall be of cut letters made in transparent overlay film pasted over the base sheeting with pressure sensitive adhesive or as instructed by the manufacturers or as directed by the ., JABALPUR SMART CITY LTD..

Cut- out messages and borders, wherever used, shall be made in transparent film applied on base sheeting with pressure sensitive adhesive with the coefficient of retro reflection shall not be less than the values of

corresponding colour in Tables – 1. For the background colour of the sign the coefficient of retro reflection shall not be less than the specified in Table – 1 for the respective colours.

60.4. COLOUR

The colour of the material shall be located within the area defined by the chromaticity coordinates in Table 8.1 and comply with the luminance factor given in Table 8.2 of IRC:67:2012 when measured as per ASTM D:4956-09.

SPECIFICATION LIMITS (DAYTIME)								
Colour	1		2		3		4	
	X	Y	X	Y	X	Y	X	Y
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472

SPECIFICATION LIMITS (DAYTIME)								
Colour	1		2		3		4	
GreenB	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771
Red	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346
BlueB	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216

The four pairs of chromaticity coordinates determine the acceptable colour in terms of the CIE 1931 standard colorimetric system measured with standard illumination Source D65 - these colours are equivalent to those listed in ASTM D 4956 using Source C. The colour shall be durable and uniform in acceptable hue when viewed in daylight or under normal headlights at night.

60.5. TEST CRITERIA

As per clause 6.7 of IRC 67-2012, the retro reflective sheeting shall be tested for coefficient for retro reflection, daytime colour and luminance, shrinkage, flexibility, liner removal, adhesion, impact resistance secular gloss and fungus resistance, 3 years outdoor weathering and its having passed these tests shall be obtained from International/Government Laboratory/Institute by the manufacturer of the sheeting. A certified copy of the test report having the test done for the above- mentioned parameters shall be submitted along with the bid. The report shall be attested by the retro reflective sheeting manufacturer, the performance reading after three years, must be at least 80% of the minimum values mentioned in ASTM D 4956-09 Type-XI sheeting performance table. Also, a test report from an independent test laboratory from India for the sheeting having tested for Retro Reflection & Colour geometry shall be submitted by the tenderer.

60.6. WARRANTY AND DURABILITY

Both the digitally printed area, cut-out sheeting and protective durable transparent overlay film shall be covered under the 10-year warranty issued by the sheeting manufacturer. As per clause 6.7.4.3, at the end of 10 years the sheeting shall retain at least 80 percent of its original retro reflection. Hence the bidder shall also submit Pre-Qualification Warranty for Ten Years field performance attested by the sheeting manufacturer for technical qualification in the tender.

60.7. PERIODICAL TESTING

Authority shall be testing the coefficient of retro reflection of the installed signboards on a periodical basis as per IRC 67 - 2012 guidelines. Signboard shall perform above/meet minimum coefficient of retro reflection at all angles as per IRC 67-2012 (Whichever is applicable).

60.8. MAINTENANCE OF SIGNBOARDS

- (i) The successful bidder/ Contractor shall also provide Maintenance for the Sign Boards as per the details mentioned in this RFP document during Maintenance Period defined in the RFP.
- (ii) Prior to installing any road sign, the responsibility for the maintenance of the sign and the post is required to be decided, and the timing plan(s) should be clearly established. Over time, signs become faded and their retro-reflective properties diminish. This reduces both conspicuity and legibility, by day and by night. Excessively discoloured or faded signs (e.g. white backgrounds which have become grey or brown, or red borders faded to pink) and signs, where the legend or graphic is peeling off cannot be fully effective and need to be replaced. The signs along with the posts shall be maintained in proper position and kept clean and legible at all times. Signs should be cleaned at intervals appropriate to the site conditions. Signs at locations where they are subject to heavy soiling from passing traffic, or algae growth (a common problem with signs beneath tree canopies) will need more frequent cleaning.
- (iii) A reference number along with the month and year of installation should be placed on the back of a sign in a contrasting colour or by stamping in characters not exceeding 50 mm in height. It is distracting and unsightly to place reference numbers on the sign face or on the front of a backing board.
- (iv) There shall be coloured logo of the department printed along with border of each sign-face.
- (v) All signs shall be inspected at least twice a year both in day and night times and at least once a year in the rain. Damaged signs shall be replaced immediately. Payment of damaged signage shall be made as per quoted price without any escalation.
- (vi) The successful bidder/ Contractor should maintain a schedule of painting of the posts and signs periodically. It is recommended that painting of the sign structure (where applicable) may be undertaken after every two years. In case of overhead signs, adequate provision is to be made to have access to the signs for the purpose of maintenance activities. This must be ensured at the time of installation. Special care shall be taken to see that weeds, shrubbery, mud, etc. are
- (vii) not allowed to obscure any sign.

60.9. SIGNPLACEMENT

All the road signs shall be placed on the road as mentioned in the IRC 67-2012.

61. TECHNICAL SPECIFICATIONS FOR ACM/ACP SHEETING AS PER IRC67-2012

ACM (aluminum composite material)/ ACP (aluminum composite panel) used as a substrate for sign board shall be 4 mm thick with aluminum skin thickness of 0.4 to 0.5 mm on both sides. All properties of ACP/ACM shall be complying with clause 6.5.2 of IRC 67-2012. Test parameters shall be as per table 6.1 of IRC 67-2012 and test shall be conducted at government approved laboratory.

62. TECHNICAL SPECIFICATIONS FOR VARIABLE MESSAGE SIGNBOARDS

62.1. WARRANTY

- a) The Bidder shall provide onsite comprehensive warranty for 5 years from the date of installation.
- b) The successful bidder shall be responsible for on-site repair or replacement of complete LED Module if individual LED failures are more than 5% within the module/ Cabinet within the warranty/AMC period.
- c) The successful bidder shall perform regular cleaning and maintenance of displays quarterly.
- d) The successful bidder shall store 2% spares at their warehouse during Warranty / AMC period.
- e) The successful bidder shall provide customer support contact for complaint registration.
- f) The operation and maintenance of VMS system will be the responsibility of contractor for 5 years from the date of Commissioning.

62.2. TRAINING

The Bidder shall undertake to train the staff nominated by Jabalpur Smart City Ltd. in operating, managing and configuring hardware and software application aspects before handing over the project.

62.3. SITE PREPARATION

- (a) The site for installation of the solution shall be provided by the Jabalpur Smart City Ltd. as per the required conditions.
- (b) The complete installation of the solution at the site(s) shall be the responsibility of the Contractor.
- (c) Earthing arrangement for all the equipment and power supply shall be the responsibility of the Contractor.
- (d) Jabalpur Smart City Ltd. shall ensure sufficient, stable (without voltage fluctuations) and continuous power supply at the site. Contractor shall provide UPS to avoid voltage fluctuations and ensure uninterrupted operations.
- (e) Jabalpur Smart City Ltd. shall provide a space for a desktop server at their location/ control room
- (f) The Contractor shall be responsible for drawing the power to the SMART VMS board to the extent of (10-15) m from the power source.

62.4. OEMCRITERIA

Proposed VMS OEM Compliance:

- 1) OEM for smart VMS shall have presence and operations in India for at least 10 years. Certificate of incorporation shall be provided.
- 2) OEM shall be ISO 9001:2008 & ISO 14001 certified (Or equivalent quality standard). – Certificates to be provided.
- 3) OEM shall not have been blacklisted by any State / Central Government Department or Central /State PSUs as on bid submission date. OEM Declaration to be provided.
- 4) OEM should have secured single order of at least 10 no's VMS (the qty requested for proposal) with a Minimum size of 2.88 x 1.92 m or above. More than 60% of Installed Screens should be in LIVE & Working condition. – PO copy to be submitted
- 5) Tenderer must provide evidence that they have experience in more than one city for deploying and commissioning the VMS solutions and with an install base of at least 100 screens pan India – PO copy with Quantity to be provided.
- 6) OEM shall have a global presence and shall have experience of installation of at least 10 nos. VMS in single city against single order and shall have proven track record. Declaration to be given with clear mentioning of project executed.
- 7) OEM shall be the single provider of Traffic and Transport safety solutions such as Retro Reflective signage, Road furniture and Smart VMS solution so that single liability for project execution can be fixed with least nodal contact point for project execution. Proof to be submitted with the bid.

Existing installation site visit

- 8) The Bidder may wish to visit and examine the site or sites and obtain for itself, at its own responsibility and risk, all information that may be necessary for preparing the bid and entering into the Contract. The costs of visiting the site or sites shall be at the Bidder's own expense.
- 9) The Purchaser shall arrange for the Bidder and any of its personnel or agents to gain access to the relevant site or sites, provided that the Bidder gives the Purchaser adequate notice of a proposed visit of at least fourteen (14) days.

Product Certification

1. Display should have certifications for FCC, CE, RoHS, IP65 from front side and IP54 for whole cabinet as a regulatory compliance.
2. Display should be CB certified.
3. The system compliant to optical parameters of EN12966 with Beam width of B6, Luminance of L3, Luminance ratio of R3 and Color Class as C2.

System Configuration: The VMS system will consist of the following equipment's

- a) Full matrix LED panel and control unit in VMS with supporting structure (T-type or as per procuring entities' requirement)
- b) VMS server (Server Hardware will be provided by procuring entity, installation & configuration of software for required solution will be in bidder's scope) and Workstation with application software installed in Integrated command and Control Centre (ICCC).
- c) Required Software (Server/Cloud based or Both) for operations of VMS will be the responsibility of contractor with 5-year license.

Remote Management Signage system to control all the below function of displays as:

- a) Should be able to remotely configure, manage and feed content to at least 100 LED from a central location.

- b) Should be an easy-to-use playlist format for scheduling of content, images, videos and live feeds etc.
- c) Should have an interface for content design with readymade/custom made templates
- d) Software should be scalable for future purpose up to 500 display
- e) Should be possible to show HTML content on the displays

Power Supply:

- a) The electrical power supply system for the VMS roadside equipment and center equipment will consist of AC commercial power with option to switch over on Uninterruptible Power Supply (UPS) backup system.
- b) The VMS roadside equipment and center equipment will operate with AC 230V $\pm 10\%$ 50Hz single phase or 420V $\pm 10\%$ 50Hz 3phase.

Supporting Structure

The VMS board will be fixed on supporting structure. A mechanism to adjust the tilting angle of VMS will be provided to the VMS housing or fixture used to attach the VMS to the support. It shall be possible to adjust the tilting between 0 degree (vertical) and 10 degree (tilted forward)

Installation

- VMS sign on the roadside shall be mounted on a T-shaped support structure.
- VMS on surface road shall be mounted on a T-shaped support installed at roadside.
- Clearance of 10 feet above the ground level shall be secured. Gallery shall be provided to the support at the back of signboard for maintenance purpose.
- Communication cable and power cable shall be extended from the nearest hand-hole at to the VMS through the conduit to be installed by the contractor. No aerial cable shall be allowed.

Function and performance test

In principle, function and performance requirement stated above shall be tested. More specifically, the following tests shall be conducted as minimum:

- Message composition
- Real Time Data exchange
- Central control
- Local control
- Colour and brightness
- Response time
- Display off function
- Error detection
- Message display from mobile application
- Temperature and Humidity

General test

The following tests shall be conducted as minimum:

- Appearance
- Power supply fluctuation
- Instantaneous power interruption
- Insulation resistance

- Temperature variation
- Water proof test (field equipment)

4.3 Technical Compliance for VMS Technical Specifications

Technical Specifications for Full colour LED display & site processor		
S.No	Particular	Parameter
1.	LED Type	DIP
2.	Pixel Pitch	10mm or less
3.	Pixel Configuration	1R/1G/1B
4.	Board size	Customized
5.	Cabinet Pixels	10000/m ²
6.	Pixel Density	10,000 dots/m ²
7.	Environmental grade	UV Resistant
8.	Colour type	Real Full Colour
9.	Brightness	7000-7500 cd/m ² (Ensure excellent Images)
10.	Brightness Adjustment	Manual and Automatic
11.	Best Viewing Distance	50m – 150m
12.	Power Consumption	Maximum 400W/m ² Average 200W/m ²
13.	Control Method	Synchronized with System
14.	Frame Frequency	≥60 Hz.
15.	Grey Level	≥ 16K Grade
16.	Colour Temperature	6000K-95000 K
17.	Colour	≥16 Million Colours
18.	Working Temperature	-10°C ~ 60°C
19.	Humidity	10% to 90%
20.	Refresh rate	≤1920 hertz
21.	Defect Ratio	≤0.1%
22.	Working Voltage	AC230V±15%; 50Hz
23.	Video Interface	Supports RJ45 and DVI
24.	Communication	Wired through RJ45/Wifi/SIM based router
25.	Life Span	1,00,000 HRS
26.	Ingress Protection Rating	IP 54 - for whole cabinet IP 65- Front side.
27.	Operating Windows for site processor	Windows 7 Embedded OS or above
28.	Viewing Angle	Horizontal ≥120° / Vertical ≥60°
29.	Functional features	The VMS boards shall have the facility to generate Real Time information of Traffic Data i.e. Traffic Live Congestion, Journey Time, Traffic

		rerouting, Live Weather, automatically using a site processor embedded system. The VMS solution should provide Android based application for Disaster Management and Emergency Messages. VMS solution can display pictograms and text message in English, Hindi and other regional languages. VMS solution has Unicode support (regional fonts) for the font family used with same stroke weight and style.
30.	Pixel level diagnostics	The System should be capable of detecting the failure of Single or multiple LEDs (Red, Blue, Green separately) and has to send the alert to the central control center on the exact location of the failed LEDs.
31.	Door Alarm	The System should be capable of detecting the unauthorized access of the display door and has to send the alert to the central control center on the exact location of the failed LEDs.
32.	Flat Cable, SMPS Voltage:	The System should be capable of showing the health status of FRC cable & SMPS Voltage etc.
33.	Power Consumption	The display should not consume more than 400W/m2 at the minimum brightness of 7000cd/m2.
34.	Auto brightness Sensor	The Sensor should be capable of handling all kinds of weather conditions and the light sensor should have the control circuit to increase the stability and photo sensitivity.
35.	VMS site processor specification	1) The Software should run on Microsoft Windows Platform: Windows 7 Embedded or above
		2) The Software powers up the Media Player at predetermined times on all functioning days of the Station.
		3) The Software powers off the unit during the closing hours of the Station.
		4) No Personnel should be required to either switch on, switch off, power off, log in or log out procedures. All the above functions should function automatically as scheduled.
		5) Multiple Screen Layouts & independently schedulable Zones.
		6) Play Standard Multimedia Files: Flash, Videos, Images, etc.
		7) Time-Sensitive Content – Expired old content to be purged.
		8) Unattended, Continuous Playback
		9) Remote Shutdown, Reboot Mode.
		10) Connect on “as-and-when-needed” basis
		11) Can use fiber, wifi, or Sim based router for connectivity. Support closed networks (VPN)
		12) No need of dedicated bandwidth. Should be operational even if server connectivity is down.
		13) Play Scheduled Playlist in day parts
		14) Proof of Play and Log Retrieval
		15) Support Major Indian Language Fonts
		16) Minimum 4 GB RAM and 64 GB Flash, 1.66 GHZ
		17) It should be able to work unattended for 24x7 operations.
		18) It should support offline content playback in case of internet/network outage.
		19) In case of internet outage, processor should be able to discard live content slides & play only static slides. Once the internet is established,

	it should automatically play both live and static content without any manual intervention.
	20) VMS processor should support auto reboot feature in case of system error pop ups automatically.
	21) VMS processor should be able to showcase dynamic animations based on the weather conditions in real time for weather content slides.
	22) Server/Data Backups& Updates - Ensure there is a plan and solution for backing up all information data. Establish a process to keep content current through regular updates ; these updates should occur on a daily basis.
	23) Reporting- Provide running Content report for Date-wise, Monthly, Quarterly and Annually to JSCL.(Number of times message or picture shown on Particular VMS Board)
	24) Installation and monthly expenses of required connectivity at all locations for successful operation of VMS through ICCC will be borne by the Contractor.

Specs for Rack Frame with Power Distribution Unit to be mounted behind the structure

MAF Required – Yes

Parameter	Specifications
An IP 54 rack shall be provided to house the various components required to drive the Outdoor LED wall. The rack shall be at least 13 U high with a provision to mount 19" wide equipment's. The equipment's required to be installed inside the rack shall be as follows: -i) Power Distribution Unit for the LED wall with surge protection ii) Media Player iii) LED controller iv) Network switch v) Communication interface Device. The rack shall also have an air conditioner bolted on the door of the rack to keep the equipment inside the rack cool at all times.	
Front Door	2 Hinges with Rack & Aircon bolted
Wall Mount Clamp	Welded on Rack frame rear side
19" pillar front & 19" pillar rear	Bolted on rack side wall
Locking Arrangement	To be provided with a locking system
Limit Switch	The rack door to be provided with a limit switch
Earthing	Earthing studs should be provided in the rack for earthing purposes
Cable points	Cable entry and exit points should be provided in the rack
Mounting	Should be possible to mount the rack either on a pole or on a wall with options of different mounting types
Rack Internal size	13U 19" rack
Material	GI 120 gsm thickness 1.5 mm or better
IP rating	IP54
Surge protection	Class C
Over temperature protection	Selectable from 30 deg to 60 deg C
Remote Control	Power Distribution Unit can be controlled from remote location over IP

Media Player Specification

MAF required –Yes

Parameter	Specifications
Media Player with built in Playout software	Of reputed manufacturers
Processor	Intel
RAM	4GB Minimum
Internal drive	60 GB Solid State Drive
Output	HDMI/Display Port for Graphics & 3.5 mm mini jacket socket for Audio
Media	
Video	MPEG-4, WMV, Quick time
Audio	MP3, WAV
Image	JPEG, PNG, BMP, GIF
Text	Multiple fonts, Speeds, colours
Internet	HTML, XML Files, RSS newsfeeds,
Others	SWF
Other features	
Video Zones	2 or more
Other Ports	1 USB ports
Network	Ethernet 1000/100/10 Base T(RJ45),
Content Manager Specification	
MAF required – Yes	
Parameter	Specifications
Signage & Content Manager (Software)	Of reputed manufacturers
License support	The license of the software should support management of 50 video walls
Content Designer	Multiple screen formats, unlimited number of screen layouts , Variable transparency for content and layout zones, Independent background audio capability, drag and drop screen layout and playlist design
Playlist Automation	Flexible scheduling. Should be able to manage/play the selective contents at different LED Screens as per requirement
Content Distribution	Scalable, simultaneous publishing
Content Management	Design simplified and branded Ad Hoc user interfaces, Instant messaging to a single player or a group of players, uploading of dynamic tables
Content interaction	XML API for integration with external systems, GPIO for bi directional control
Monitoring & Reporting	Provide alarm conditions like overheating, loss of time sync., provision of standard tabular report for a group of players, show current status of individual players, map view of player status

3.2 Deliverables and Time Schedules:

No.	Deliverables	Time Schedules
1	Project Timelines & Dependencies	20 days
2	Civil Structure & Electrical Works	40 days
3	Installation of VMS Board's & Installation of Centralized Solution system in integrated Command & Control Centre (ICCC)	100 days
4	Quality Assurance and Testing	10 days

5	Creation of Content and Data Repository (Parallel activity with S.No.3)	-
6	Final testing& Commissioning	10 days
7	Operation & Maintenance of the entire solution for 5 years	-
	TOTAL TIME (Excluding Maintenance Support)	180 days

3.3 Total Duration of Services:

The total installation duration of the entire VMS project is 6 months (180 days) from date of Issue of clear purchase order and clear site (excluding 5 years' period of maintenance). The contractor must have sufficient manpower inputs to comply with the Scope of Services.

63. ACTIVE & STATIC INFORMATION SYSTEM STRUCTURAL SPECIFICATIONS AND STANDARDS

63.1. PREAMBLE

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

- a) In addition to the Development & Operational Controls covered in the previous Part, the Specifications and Standards as defined in the Contract Agreement cover the Technical Specifications and Guidelines for various components of Active & Static Information System.
- b) The following specifications and standards cover only some of the minimum requirements for the development of project facilities.
- c) The Service Provider shall construct, operate, maintain and manage the proposed project facilities strictly conforming to the relevant Indian standards, Bureau of Indian Standards (BIS), the best industry practices, and internationally acceptable norms for street furniture. Whether the requirements are explicitly stated or not in the RFP documents, the Contractor must note that, JABALPUR SMART CITY LTD. envisages a world-class facility in all respects and expects international quality and standards from the selected service provider, as the binding contractual obligation.
- d) This part of the volume covers the Technical Specifications and Maintenance and Performance Standards, comprising:
 - (i) Site Development Related Specifications;
 - (ii) Civil and Structural Specifications;
 - (iii) Lighting;
 - (iv) Other relevant Standards;
 - (v) Structure.

63.2. SITE DEVELOPMENT RELATED SPECIFICATIONS

- (a) All the project components/ facilities shall be as per the design approved by., JABALPUR SMART CITY LTD. and shall be in terms of the Section 66 of this RFP document.

63.3. CIVIL AND STRUCTURAL SPECIFICATIONS

- (a) The basic structure shall be made of Structural Steel and designed for all Dead and Live loads (500 kg/sq.m), Wind Pressures (in accordance with IS: 875, Part -3 of 1987) and seismic forces (seismic zone II standards in accordance with IS: 1893- 2002), etc. and shall be in accordance with the latest Indian

Standard Codes.

- (b) Steel structures shall be designed in accordance with the provisions of IS 800:1984. Structural steel shall confirm to IS 2062:2006. Tubular sections shall confirm to IS- 4923. Structural joints shall conform to IS4000:1992.
- (c) All materials to be used for the construction shall confirm to the specifications and standards laid down in Part V of National Building Code on building material and Part VII of National Building Code on construction practices and safety, latest edition as prevalent at the time of execution of work.
- (d) RCC components shall be designed as per IS 456: 2000 and other relevant codes.
- (e) Developers are advised to carry out their own investigations related to soil condition, strata, bearing capacity and other characteristics of the project locations.

63.4. OTHERSTANDARDS

- (a) The developer shall take such measures and exercise to protect the site during the course of the works as directed by and to the entire satisfaction of the Jabalpur Smart City Ltd.
- (b) The Developer shall submit a programme supported with Bar Chart for construction of project/s in a phased manner so as to cause least inconvenience to the public. The construction and erection work shall be carried out during night hours/restricted hours keeping in view the safety of pedestrians/traffic. The Developer should give their complete program for different stages of execution including planning, designing, fabrication and erection etc.
- (c) During the construction period, the developer shall make suitable arrangements to co-ordinate with the Jabalpur Smart City Ltd., Officer in Charge and provide all necessary information so as to allow the Jabalpur Smart City Ltd., Officer in Charge to monitor the progress and quality of construction in line with the role of the Jabalpur Smart City Ltd., Officer in Charge as provided in the Contract Agreement.
- (d) The developer shall provide all equipment and materials necessary to provide the Services.
- (e) The installed facility and equipment shall be inspected, checked and tested to verify that it is correct, complies with specification and has been installed in accordance with design drawings.
- (f) The following checks shall be carried out before acceptance of various units and equipment:
 - (i) Dimensions of all the civil structures as per the approved drawings
 - (ii) Pipes and related accessories installed as per the approved drawings
 - (iii) Alignment of equipment as per the approved drawings
 - (iv) All the electrical works to be tested for routine and type tests
 - (v) Installation of cables, earthing works as per relevant IS or international codes
- (g)) provided to the developer shall be used strictly for the purpose for which they are allotted.
- (h) Wherever any references to any Indian Standard Specifications and/ or IRC codes occur in the

documents relating to this contract, the same shall be inclusive of all amendments issued there to or revision thereof if any, up to the date of receipt of tender.

- (i) The work shall be executed with highest degree of efficiency and all safety aspects shall be adopted as per International practices as directed by., JABALPUR SMART CITY LTD., Officer in Charge.

64. SITE DEVELOPMENT RELATED SPECIFICATIONS ACTIVE & STATIC INFORMATION SYSTEM

- (a) All the project components/facilities shall be as per the design approved by Jabalpur Smart City Ltd. and shall not obstruct the pedestrian access using footpaths, skywalks (FOBs), Active & Static Information System, etc.
- (b) Recommended practices for road signs as per IRC 67:2001 and for pedestrian facilities as per IRC 103:1988 shall be followed.

66.1. STRUCTURAL SPECIFICATIONS ACTIVE & STATIC INFORMATION SYSTEM

STATIC INFORMATION SYSTEM

- (a) The basic structure shall be made of Structural Steel and designed for all Dead and Live loads (500 kg/sq.m), Wind Pressures (in accordance with IS: 875, Part-3 of 1987) and seismic forces (seismic zone II standards in accordance with IS: 1893-2002), etc., and shall be in accordance with the latest Indian Standard Codes.
- (b) Steel structures shall be designed in accordance with the provisions of IS 800:1984. Structural steel shall conform to IS 2062:2006. Tubular sections shall conform to IS-4923. Structural joints shall conform to IS 4000:1992.
- (c) Contractor are advised to carry out their own investigations related to soil condition, strata, bearing capacity and other characteristics of the project locations.

66.2. LIGHTING (ACTIVE & STATIC INFORMATION SYSTEM)

Lighting shall be designed to provide adequate vision, comfort and safety. It shall be designed to provide uniform lighting of minimum throughout the facility with no dark patches or pockets and shall conform to IS 7537(Part 0/Sec 0): 1974 of BIS, other specifications as mention above in this document.

65. OTHER STANDARDS

- (a) The Service Provider shall take such measures and exercise to protect the site during the course of the works as directed by and to the entire satisfaction of the., JABALPUR SMART CITY LTD.
- (b) The Service Provider shall submit a programme supported with Bar Chart for construction of project/s in a phased manner so as to cause least inconvenience to the public. The construction and erection work shall be carried out during night hours/restricted hours keeping in view the safety of pedestrians/traffic. The Service Provider should give their complete program for different stages of execution including planning, designing, fabrication and erection, etc.

- (c) During the construction period, the Service Provider shall make suitable arrangements to co- ordinate with the ., JABALPUR SMART CITY LTD., Officer in Charge and provide all necessary information so as to allow the ., JABALPUR SMART CITY LTD., Officer in Charge to monitor the progress and quality of construction in line with the role of the ., JABALPUR SMART CITY LTD., Officer in Charge as provided in the Contract Agreement.
- (d) The Service Provider shall provide all equipment and materials necessary to provide the Services.
- (e) The installed facility and equipment shall be inspected, checked and tested to verify that it is correct, complies with specification and has been installed in accordance with design drawings and as per defined technical specifications.
- (f) The following checks shall be carried out before acceptance of various units and equipment:
 - (i) Dimensions of all the civil structures as per the approved drawings
 - (ii) Pipes and related accessories installed as per the approved drawings
 - (iii) Alignment of equipment as per the approved drawings
 - (iv) All the electrical works to be tested for routine and type tests
 - (v) Installation of cables, earthing works as per relevant IS or international codes
- (g) The commercial space (as approved by JABALPUR SMART CITY LTD.) provided to the Service Provider shall be used strictly for the purpose for which they are allotted.
- (h) Wherever any references to any Indian Standard Specifications and/or IRC codes occur in the documents relating to this contract, the same shall be inclusive of all amendments issued there to or revision thereof if any, up to the date of receipt of tender.
- (i) The work shall be executed with highest degree of efficiency and all safety aspects shall be adopted as per International practices as directed by Jabalpur Smart City Ltd., Officer-In-Charge.

DECLARATION

I/WE declare that I/WE have read the above terms and conditions for “**Infrastructure upgradation and improvement for commuter safety**” and the details/information by me/us to which I/WE have subscribed my/our signatures. I/WE undertake to abide by the said terms and conditions. I/We am/are major on the date of making this declaration.

Signature of the Tenderer

Name:

Address:

Dated:

ANNEXE - 1 – ACTIVE & STATIC INFORMATION SYSTEM PROJECT LOCATIONS

.No.	Name of Junction/Nearby Landmark	Type of Junction	Coordinates	Type of Signages	No. of Signages
1.	Telegraph No. 2 Square	3 Arm Roundabout	23.16831, 79.92381	Speed Limit Map Type Direction Pedestrian Crossing Roundabout Sign Flag Type Direction/Street Name Give Way Double Chevron Hazard Marker Compulsory Left	6 3 3 3 3 2 6 3 3
2.	Kachhpura Over Bridge	4 Arm Junction	23.16647, 79.91047	Speed Limit Gantry Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 4 4 4 4 4
3.	Gulaua Chowk	4 Arm Roundabout	23.16435, 79.90758	Speed Limit Map Type Direction Pedestrian Crossing Roundabout Sign Flag Type Direction/Street Name Give Way Double Chevron	6 3 3 3 3 2 6
4.	Aadi shankracharya Chowk	4 Arm Junction	23.154401, 79.927998	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
5	Madan Mahal	4 Arm Junction		Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
6.	Tripuri Chowk	4 Arm Junction	23.1570, 79.8910	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
7.	Medical	4 Arm Junction	23.1500, 79.8807	Speed Limit Stagtype Direction Sign	8 4

				Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	2 4 4 2 2
8.	Sharda Chowk	4 Arm Roundabout	23.15427, 79.9064	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
9.	Prem Nagar Chowk	4 Arm Junction	23.15474, 79.91406	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
10.	4 th Bridge to Russal Chowk	4 Arm Roundabout	23.1633, 79.93688	Speed Limit Map Type Direction Pedestrian Crossing Roundabout Sign Flag Type Direction/Street Name Give Way Double Chevron	8 4 4 4 4 4 8
11.	Rajiv Gandhi Chowk Naudra Bridge	3 Arm Roundabout	23.16588, 79.93581	Speed Limit Gantry Pedestrian Crossing Roundabout Sign Flag Type Direction/Street Name Give Way Double Chevron Hazard Marker Compulsory Left	6 3 3 3 3 2 6 3 3
12.	Collectorate Junction	4 Arm Roundabout	23.168770, 79.903184	Speed Limit Map Type Direction Pedestrian Crossing Roundabout Sign Flag Type Direction/Street Name Give Way Double Chevron Hazard Marker Compulsory Left	8 4 4 4 4 4 8 4 4
13.	Malgodam Chowk	3 Arm Roundabout	23.168143, 79.950391	Speed Limit Gantry Pedestrian Crossing Roundabout Sign Flag Type Direction/Street Name	6 3 3 3 3

				Give Way Double Chevron Hazard Marker Compulsory Left	2 6 3 3
14.	Ambedkar Chowk	4 Arm Junction	23.17054, 79.94725	Speed Limit Stagtype Direction Sign Gantry Pedestrian Crossing Crossroad/Traffic Signal Ahead Flag type Direction/street name Hazard Marker Compulsory Left	8 2 2 2 4 4 2 2
15.	Airport Route	4 Arm Junction		Speed Limit Stagtype Direction Sign Gantry Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 2 2 2 4 4 2 2
16.	Adhartal Square	3 Arm Junction	23.2017, 79.95125	Speed Limit Stagtype Direction Traffic Signal/T Junction/Side Road Left/Side Road Right Median Opening Flag Type Direction/Street Name Give Way	6 3 3 2 3 1
17.	Amkhera Road- Jabalpur Bye Pass	4 Arm Junction	23.23502, 79.92815	Speed Limit Stagtype Direction Sign Gantry Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 2 2 2 4 4 2 2
18.	Ukhri Tiraha	3 Arm Junction	23.1782, 79.9107	Speed Limit Gantry Traffic Signal/T Junction/Side Road Left/Side Road Right Median Opening Flag Type Direction/Street Name Give Way	6 3 3 2 3 1
19.	Ekta Chowk	3 Arm Junction	23.1782, 79.9107	Speed Limit Gantry Traffic Signal/T Junction/Side Road Left/Side Road Right Median Opening Flag Type Direction/Street Name Give Way Stag type direction sign	6 3 3 2 3 1 2

20.	Ahinsa Chowk	4 Arm Junction	23.18492, 79.91007	Speed Limit Stagtype Direction Sign Gantry Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 2 4 4 2 2
21.	Ukhri Tiraha to Mehta P.P.	4 Arm Junction		Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
22.	SBI Chowk	4 Arm Junction	23.188802, 79.912578	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
23.	Deen Dayal Chowk	4 Arm Roundabout/Junction	23.194584 79.914552	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
24.	maharajpur Entry	4 Arm Roundabout/Junction		Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
25.	Katangi	4 Arm Junction		Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
26.	Ranjhi Ghana	4 Arm Junction		Speed Limit Stagtype Direction Sign Pedestrian Crossing	8 4 2

				Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	4 4 2 2
27.	Allahabad Bank Zonal Office (PWD PIU office) to GCF Boundary Via Narmada Jackson hotel Road	4 Arm Roundabout	23.164676, 79.955769	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
28.	Allahabad Bank (Civil Lines)	4 Arm Roundabout/Junction	23.1622. 79.956360	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
29.	Sai Mandir Junction (Civil Lines)	4 Arm Roundabout	23.162401, 79.961872	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
30.	Science College Road	4 Arm Roundabout	23.162036, 79.968515	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
31.	Rani Durgavati Vishv Vidyalaya	4 Arm Roundabout/Junction	23.163042, 79.976134	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
32.	Dumna Nature Park	4 Arm Roundabout/Junction	23.170583, 80.011845	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2

33.	Nehra Company	4 Arm Roundabout	23.169922, 79.994264	Speed Limit Stagtype Direction Sign Pedestrian Crossing Crossroad/Traffic Signal Ahead Flagtype Direction/street name Hazard Marker Compulsory Left	8 4 2 4 4 2 2
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- (a) The list is indicative along with locations and proposed indicative format only and is subject to correction for any factual or other errors. Further, locations and format may be added or shifted or altered to achieve maximum visual response time, after getting approval from JABALPUR SMART CITY LTD.
- (b) The Contractor needs do the detail survey of the city based on RFP stipulations and prepare the phase wise implementation plan and only after obtaining a written approval from JABALPUR SMART CITY LTD. on implementation plan, Contractor shall start installation work.
- (c) The Bidders must verify sites and other details themselves as needed for bid submission. It will not be compulsion on ., JABALPUR SMART CITY LTD. to hand over clear site for all the proposed Active & Static Information System as mentioned above, the Contractor shall complete the erection/installation work of Active & Static Information System on the sites handed over by JABALPUR SMART CITY LTD..
- (d) Smart Active & Static Information System on the city entry points shall be full length only i.e. triple/double column supported.

SECTION III

FORMATS FOR BIDSUBMISSION

ANNEXE - 1 - COVERING LETTER

{To be printed on the authorized Letterhead of the Contractor, including full postal address, telephone, faxes and e-mail address}

Dated:

To,

The C.E.O,

Jabalpur Smart City Ltd.

Jabalpur, Madhya Pradesh

Subject: Submission of Bid for “Infrastructure upgradation and improvement for commuter”.

Respected Sir:

1. We are submitting this Bid (Proposal) on our own.
2. Having visited the site and examined the RFP Documents, for the execution of the Contract Agreement for the captioned Project, we the undersigned offer to finance, construct, operate & maintain the whole of the said 'Project' for the Construction Period in conformity with the RFP.
3. This Bid and your written acceptance of it shall form part of the Project Agreements to be signed between the Contractor and the Jabalpur Smart City Ltd. If a Bidder is nominated as Preferred/Successful Bidder, we understand that it is on the basis of the technical, financial & organizational capabilities and experience of the Bidder taken together. We understand that the bases for our qualification will be the complete Bid documents submitted along with this letter, and that any circumstance affecting our continued eligibility as per RFP, or any circumstance which would lead or have lead to our disqualification, shall result in our disqualification under this Bidding process.
4. We agree that
 - a) if we fail to meet the Minimum Development Obligations and/or Technical specifications and/or the Performance Standards according to the conditions/stipulations of the RFP/Contract Agreement,OR
 - b) If we fail to offer provide required facilities to Jabalpur Smart City Ltd. or its Authorized Representative for carrying out the inspection of works, operations and performance, then ., JABALPUR SMART CITY LTD. or its representative shall be at liberty to take action in accordance with the RFP/Contract Agreement.
5. We undertake, if our Bid is accepted, we will complete the Project, commence operations and maintain the project facilities as per the RFP/Contract Agreement.
6. We agree to abide by this Bid for a period of 180 (One Eighty) days from this bid submission Due Date fixed and it shall remain binding upon us and may be accepted at any time before the expiry of that period.
7. In the event of our Bid being accepted, we agree to enter into a formal Contract Agreement with Jabalpur Smart City Ltd. as per the RFP.

8. If our Bid is accepted, we agree for the following:

- a) To furnish an unconditional and irrevocable Bank Guarantee (as mentioned in RFP) towards performance security after completion of final work.

9. We agree that if we fail to fulfill any of the conditions mentioned at above, Jabalpur Smart City Ltd. should have the right to forfeit the Bid Security being furnished by us along with this Bid.

10. Notwithstanding any qualifications of conditions, whether implied or otherwise, contained in our Proposal, we hereby represent and confirm that our Proposal is unqualified and unconditional in all respects' and we agree to the terms asunder.

- a) Minimum Development Obligations as indicated in the RFP;
- b) Development Controls of Jabalpur Smart City Ltd. or any other statutory authorities etc.
- c) The Technical specifications, the performance standards etc. as stipulated in the RFP;
- d) Any other regulation as applicable.

11. We understand that Jabalpur Smart City Ltd. is not bound to accept any or all Bids it may receive.

12. We declare that we have disclosed all material information, facts and circumstances, which would be relevant to and have a bearing on the evaluation of our Bid and selection as Contractor.

13. We do, also, certify that all the statements made and/or any information provided in our proposal is true and correct and complete in all aspects.

14. We declare that in the event that JABALPUR SMART CITY LTD. discovers anything contrary to our above declarations, it is empowered to disqualify us and our Bid from further participation in the Bid evaluation process and forfeit our Bid Security.

Dated this _____ day of _____ 2020

_____(Signature)

_____(Name of the person)

_____(In the capacity of)

(Name of firm) _____ Company Seal _____

ANNEXE - 2 — PROJECT UNDERTAKING

(On the Letter Head of the Bidder)

Date ----

**To,
The C.E.O,
Jabalpur Smart City Ltd.
Jabalpur, Madhya Pradesh**

Subject: Submission of Bid for “Infrastructure upgradation and improvement for commuter safety”.

We have read and understood the Request for Proposal (RFP) document in respect of the captioned project provided to us by Jabalpur Smart City Ltd.

We hereby agree and undertake asunder:

Notwithstanding any qualifications of conditions, whether implied or otherwise, contained in our Proposal, we hereby represent and confirm that our Proposal is unconditional in all respects and we hereby agree to the terms of the proposed Agreement, a draft of which shall be shared with us at the time signing the Agreement (if our bid is accepted) and the same shall also forms a part of the RFP document provided to us.

Dated thisDay of..... 2020

Name of the Bidder

Signature of the Authorized Person

Name of the Authorized Person

TECHNICAL PROPOSAL FORMATS

ANNEXE - 3 - FORMAT FOR LETTER OF UNDERTAKING FOR TECHNICAL BID
[On the Letter Head of the Bidder]

Date:

**The C.E.O,
Jabalpur Smart City Ltd.
Jabalpur, Madhya Pradesh**

Subject: Submission of Bid for “Infrastructure upgradation and improvement for commuter safety”.

Respected Sir,

As a part of the Bid for “Infrastructure upgradation and improvement for commuter safety” we hereby agree to develop and operate the Project as per the requirements stipulated in the RFP. We hereby undertake that if the Project is awarded to us, we will meet requirements as specified hereunder and hereby give our compliance for the same.

- (a) Proof for Eligibility Criteria
- (b) Statement of Legal Capacity (as per the format provided in RFP)
- (c) Relevant past Experience as requested in the RFP Technical Evaluation Criteria

We hereby assure Jabalpur Smart City Ltd. and guarantee that in future, from time to time whenever we are required to undertake or follow any specific guideline/law, we shall do the needful as required as required to ensure that the project and the Contractor comply with the legal requirements.

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

Yours faithfully,

(Signature of Authorized Signatory)

(Name, Title, Address, Date)

ANNEXE - 4 - FORMAT FOR LETTER OF APPLICATION
(On the Letterhead of the Contractor)

Date:

The C.E.O,
Jabalpur Smart City Ltd.
Jabalpur, Madhya Pradesh

Respected Sir,

1. Being duly authorized to represent and act on behalf of (Herein after "the Contractor") and having reviewed and fully understood all the qualification information provided, the undersigned hereby apply to be qualified as a bidder for the Project of **"Infrastructure upgradation and improvement for commuter safety"**.

2. Jabalpur Smart City Ltd. and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This letter of Application will also serve as Construction to any individual or authorized representative of any institution, to provide such information deemed necessary to verify statements and information provided in this application, or with regard to the resources, experience, and our competence.

3. This Application is made in the full understanding that:

a) Bids by Qualified Contractors (Bidders) will be subject to verification of all information submitted for qualification at the time of bidding;

b) Jabalpur Smart City Ltd. reserves the right to reject or accept any Application, cancel the qualification process, and reject all Applications; and

c) Jabalpur Smart City Ltd. and its authorized representatives, consultants, advisors, etc., shall not be liable for any such actions and shall be under no obligation to inform the Contractor of the grounds for them.

The undersigned declare that the statements made and the information provided in the duly completed Application are complete, true, and correct in every detail.

Authorized Signatory

Name:

Designation:

ANNEXE - 5 - NO – BLACKLISTING DECLARATION

[On the letter head of the organization]

No – Blacklisting Declaration

This is to certify that we, ----- (Name of the organization), having registered office at ---
----- (Address of the registered office), as on date of submission of the proposal, have not been
blacklisted by any Government entity (Central or State Government or PSU) in India or is under a
declaration of ineligibility for fraudulent or corrupt practices by any Government entity (Central or State
Government or PSU) in India.

Signature:

Name of the Authorized Signatory:

Designation:

**** No conviction certificate should be duly signed by Authorized Signatory**

Note: In case, information required by ., JABALPUR SMART CITY LTD. is not provided by the bidder in the forms/formats provided above, ., JABALPUR SMART CITY LTD. shall proceed with the evaluation based on information provided and may not request the bidder for further information. Hence, responsibility for providing information as required in the above forms lies solely with the bidders.

ANNEXE - 6 - FORMAT OF BANK GUARANTEE FOR EMD

(To be executed on requisite Stamp Paper)

WHEREAS, (Name of the Bidder) wishes to submit his Bid for the selection of Contractor for, Request for Proposal for **"Infrastructure upgradation and improvement for commuter safety"** hereinafter called "Bid".

KNOW ALL MEN by these presents that we (Name of bank) of (city and country) having our registered office at _____ (hereinafter called "the Bank") are irrevocably and unconditionally bound to the ., JABALPUR SMART CITY LTD. or its successor, (hereinafter referred to as "., JABALPUR SMART CITY LTD." in the sum of Rupees XXXXXX (in Words) Rs. XXXXXXX/-which payment can truly be made to ., JABALPUR SMART CITY LTD.. The Bank binds themselves, their successors and assigns by these presents.

Sealed with the Common Seal of the Bank this _____ day of, 2020

THE CONDITIONS of this obligation are:

- (a) If the Contractor withdraws his Bid at any time during the stipulated period of Bid Validity specified in the RFP document and; or
- (b) If the Bidder, for the period of the Bid Validity as per RFP document in Jabalpur Smart City Ltd.'s opinion, commits a material breach of any of the terms and/or conditions contained in the RFP Documents and/or subsequent communication from Jabalpur Smart City Ltd. in this regard; or
- (c) If the Contractor, refuses to accept the correction of errors in the Bid; or
- (d) If the Contractor, having been notified of the acceptance of its Bid by the Jabalpur Smart City Ltd. fails or refuses to comply with the following requirements:
 - Pay the Performance Security as specified in the RFP document to Jabalpur Smart City Ltd.
 - Sign the Contract Agreement as provided in the RFP Document.

We agree and undertake, absolutely, irrevocably and unconditionally to pay to the ., JABALPUR SMART CITY LTD., as the case may be, the above amount without protest, delay or demur upon receipt of ., JABALPUR SMART CITY LTD.'s first

written demand, without the ., JABALPUR SMART CITY LTD. having to substantiate its demand, provided that in its demand the ., JABALPUR SMART CITY LTD. will note that the amount claimed by it is due to it owing to the occurrence of one or more of the conditions set out above, specifying the occurred condition or conditions.

The Guarantee will remain in force up to and including the date of expiry of the period of Bid Validity as stated in the RFP Document or as extended by ., JABALPUR SMART CITY LTD. at any time as per RFP, notice of which extension to the Bank being hereby waived.

Provided however, that in the event that this Bidder is selected for award of the project through the issue of the Letter of Award, the EMD shall remain in force until the date of signing of agreement by such Bidder
OR

In the event this Bidder is not selected for award of the Project, the Earnest Money Deposit shall remain in force up to and including a period of 60 days after the expiration of the bid validity period or signing of the agreement, which is later. Any demand in respect of this Guarantee should reach the Bank not later than

the date of expiry (as defined above) of this Guarantee.

The jurisdiction in relation to this Guarantee shall be the courts of Jabalpur and the Indian law shall be applicable.

SIGNATURE OF AUTHORIZED

REPRESENTATIVE OF THE BANK _____

NAME AND DESIGNATION _____

SEAL OF THE BANK _____

NAME OF THE WITNESS _____

ADDRESS OF THE WITNESS _____

ANNEXE - 7 - GENERAL INFORMATION

All firms applying for RFP are requested to complete the information in this form.

Sr. No	Description	Details
1	Name of firm	
2	Head office address	
3	Contact No:	
4	Mobile No:	
5	Fax No:	
6	Email id:	
7	Place of incorporation	
8	Year of incorporation	
9	Registration Number	

STRUCTURE AND ORGANIZATION

1. The Contractor is: _____

- a) an individual
- b) a proprietor firm
- c) a firm partnership
- d) Limited Company or Corporation.

**ANNEXE - 8 - FORMAT FOR POWER OF ATTORNEY FOR SIGNING
APPLICATION/PROPOSAL
(On a Non-Judicial Stamp Paper of Rs. 100 duly attested by notary public) POWER
OF ATTORNEY**

Know all men by these presents, we _____ (name and address of the registered office) do hereby constitute, appoint and authorize Mr./Ms. _____ (name and address of residence) who is presently employed with us and holding the position of _____ as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our Application/Proposal for the **Infrastructure upgradation and improvement for commuter safety**, including signing and submission of all documents and providing information/responses to Jabalpur Smart City Ltd., representing us in all matters before Government of Madhya Pradesh, and generally dealing with ., JABALPUR SMART CITY LTD. in all matters in connection with our proposal for the said Project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

Executant Signature

I Accept
Address)

(Name, Title and

Attorney Signature

(Name, Title and Address of the Attorney)

Attested Executant

Notes:

1. To be executed by the sole Contractor.
2. The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant (s) and when it is so required the same should be submitted under common seal affixed in accordance with the required procedure.
3. Also, the executant(s) should submit for verification, the extract of the charter documents and documents such as a resolution / power of attorney in favour of the Person executing this Power of Attorney for the delegation of power hereunder on behalf of the Contractor.

**ANNEXE - 9 - FORMAT FOR PROJECT UNDERTAKING
(On the Letterhead of the Bidder)**

Date:

**The C.E.O,
Jabalpur Smart City Ltd.
Jabalpur, Madhya Pradesh**

Re: "Infrastructure upgradation and improvement for commuter safety"

We have read and understood the RFP Document in respect of the captioned Project provided to us by JABALPUR SMART CITY LTD.

We hereby agree and undertake as under:

(a) Notwithstanding any qualifications or conditions, whether implied or otherwise, contained in our Application we hereby represent and confirm that our Application is unconditional in all respects.

(b) We are not barred by JABALPUR SMART CITY LTD., Government of India, Government of Madhya Pradesh, or any state government or any of their agencies from participating in similar projects.

Dated this _____ Day of _____, 2020

Name of the Contractor

Signature of the Authorized Person

Name of the Authorized Person

ANNEXE - 10 – FORMAT FOR AFFIDAVIT

(Affidavit should be executed on a Non Judicial stamp paper of Rs. 100/- or such equivalent document duly attested by Notary Public)

A. I, the undersigned, do hereby certify that all the statements made in the Application are true and correct.

B. The undersigned also hereby certifies that neither our firm M/s.....nor any of its directors / constituent partners have abandoned any work in Jabalpur or in Madhya Pradesh nor any contract awarded to us for such works have been terminated for reasons attributed to us, during last five years prior to the date of this Application nor have been blacklisted or barred by ., JABALPUR SMART CITY LTD. from participating in any projects of BOT or otherwise or have never defaulted any tax and duties of., JABALPUR SMART CITY LTD..

C. The undersigned also hereby certifies that neither our firm M/s.....nor any of its directors / constituent partners have abandoned any work in India and / abroad nor any contract awarded to us for such works have been terminated for reasons attributed to us, during last five years prior to the date of this Application nor have been barred by any agency of GOI or Govt. of Madhya Pradesh from participating in any projects of BOT or otherwise.

D. The undersigned hereby authorize(s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary as requested by ., JABALPUR SMART CITY LTD. to verify this statement or regarding my (our) competence and general reputation.

E. The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the., JABALPUR SMART CITY LTD.

Signed by an authorized officer of the firm

Designation of officer

Name of Firm

Date

ANNEXE - 11 – FORMAT FOR LETTER FOR SAMPLE SUBMISSION
(On the Letterhead of the Bidder)

Date:

**The C.E.O,
Jabalpur Smart City Ltd.
Jabalpur, Madhya Pradesh**

Subject: Submission of Samples against “Infrastructure upgradation and improvement for commuter safety under the Smart City Mission”

Respected Sir,

As a part of the Bid for “Infrastructure upgradation and improvement for commuter safety under the Smart City Mission” we hereby submitting the samples of Proposed Retro reflective media, delineator, flexible median marker, solar cat eye, AFP, molded twin shank cat eye. We hereby undertake that if the Project is awarded to us, we will develop the Project by maintaining the product quality as per the samples submitted by us and hereby give our compliance to maintain the quality for the same.

The below mentioned are the description of samples submitted by us:

1.
2.

Yours faithfully,

(Signature of Authorized Signatory)

(Name, Title, Address, Date)

ANNEXURE - 12 – BILL OF MATERIAL

(as given in financial bid section)

ANNEXE - 13 – FORMAT FOR COMMERCIAL BID LETTER FORMAT
(Should Be Submitted Online Only On <https://mptenders.gov.in>)

The C.E.O,
Jabalpur Smart City Ltd.
Jabalpur, Madhya Pradesh

Subject: Submission of Commercial Bid for Infrastructure upgradation and improvement for commuter safety.

Being duly authorized to represent and act on behalf _____ and having reviewed and fully understood all requirements of bid submission provided in the RFP document and subsequent clarifications provided in relation to project, we hereby provide our Commercial Proposal to., JABALPUR SMART CITY LTD.

I/We hereby bid for the execution of the above work within the time specified at the amount (in figures) _____ (in words) _____ on the Bill of Quantities and rates given therein in all respects and in accordance with the specifications, and instructions in writing in all respects in accordance with such conditions so far as applicable.

I/We have visited the site of work and am/ are fully aware of all the difficulties and conditions likely to affect carrying out the work. I/We have fully acquainted myself/ourselves about the conditions in regard to accessibility of site and quarries/kilns, nature and the extent of ground, working conditions including stacking of materials, installation of tools and plant conditions effecting accommodation and movement of labour etc. required for the satisfactory execution of contract.

Should this bid be accepted, I/We hereby agree to abide by and fulfill all the terms and provisions of the said conditions of contract annexed hereto so far as applicable, or in default thereof to forfeit.

Note:

- I. For SOR items percentage plus or minus Bid to be quoted in the given uploaded Excel Sheet format
- II. For NON SOR item sheet individual rates must be quoted for each item in the given uploaded excel sheet
- III. All responsive bids shall be compared to determine the lowest evaluated bid "L1".
- IV. The bidder shall not alter the percentage and rates quoted during the terms of contract. The deduction or addition, as the case may be of the percentage will be calculated on the gross amount of each bill for the work done.
- V. The Financial Proposal of only the technically qualified Bidders will be opened.
- VI. The Lowest quoted rates (Cumulative of SOR and Non-SOR items) in the online bid is the Bid winning Parameter.
- VII. Rates/ amount shall be quoted in figures as well as in words. If any difference in figures and words is found lower of the two shall be taken as valid and correct rate. If the bidder is not ready to accept such valid and correct rate and declines to furnish performance security and sign the agreement his earnest money deposit shall be forfeited.
- VIII. In case the percentage "above" or "below" is not given by a bidder, his bid shall be treated as non-responsive.

IX. All duties, taxes, and other levies excluding GST shall be payable by the bidder shall be inclusive in the quoted rates by the bidder.

Signature of Bidder, Name of Bidder

(End of Document)