



## **REQUEST FOR PROPOSAL**

**(Revised)**

**FOR**

**Infrastructure Upgradation and Improvement for commuter safety  
on Percentage Rate Contract Basis under the Smart City Mission**

**NIT No: 80/ISCDL/18-19; Dated 15.02.2019**

**Chief Executive Officer  
Indore Smart City Development Limited, Indore**

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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### **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 Indore Smart City Development Ltd. (ISCDL), 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 Indore Smart City Development 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 Indore Smart City Development Ltd. in relation to the Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission.

The Indore Smart City Development 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.

Indore Smart City Development 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 Indore Smart City Development 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 Indore Smart City Development 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 Indore Smart City Development 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 Indore Smart City Development 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.

# Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

NIT No: 80 /ISCDL/18-19

Date 15.02.2019

## Notice Inviting Tender

Online percentage rate 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.	“Infrastructure Upgradation and Improvement for Commuter Safety under Smart City Mission”	Rs.40.0 Cr.	Rs. 50000.0	Rs.20.0 Lakh	12 Months

### Key Dates

S.No.	Description	Date and Time
1.	Last date for Purchase of Tender (Online)	08.03.2019 till 1730 Hrs.
2.	Last date for submission of tender (Online)	08.03.2019 till 1730 Hrs.
3.	Technical bid opening (Online)	11.03.2019 from 1500 Hrs.
4.	Last date for Submission of Hard Copy of Technical Bid (envelop A and B)	12.03.2019 till 1730 Hrs.

Notes-

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

**Chief Executive Officer**  
**Indore Smart City Development Limited, Indore**

# **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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## **SECTION I**

### **INSTRUCTIONS TO BIDDERS**

#### **1. DEFINITIONS AND INTERPRETATIONS**

##### **1.1. DEFINITIONS**

“Agreement” shall mean the Agreement entered among the Indore Smart City Development Ltd. & Contractor/Service Provider. CEO, Indore Smart City Development Ltd. shall mean Chief Executive Officer, Indore Smart City Development Corporation Limited.

“Contractor”/“Service Provider” shall mean the selected Preferred Contractor selected and nominated by the Indore Smart City Development 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, ISCDL 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 Indore Smart City Development Ltd. (ISCDL).

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

“Maintenance Period” shall be of 1 year/ 12 months from the date of handing over of the particular site in the phase manner.

“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.

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“Project” means Survey, Design, Fabrication, Supply, Installation, Maintenance of Active & Static Information System including ancillary/support infrastructure on Various Roads in Indore (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 Indore Smart City Development 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 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

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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>
- (c) through Debit/ Credit, Internet Banking or system generated challan for participation rights in Bidding. Technical documents should also reach the office of the ISCDL by 12.03.2019 upto 17.30 Hrs. through Speed Post or hand delivery. ISCDL shall not be responsible for any postal or online delays that may have happened due to any technical failures.
- (d) Tender form can be purchased online only from e-portal <https://mptenders.gov.in> by making online payment. The last date of purchase of tender 08.03.2019 till 17:30 Hrs.
- (e) 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.
- (f) 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 Indore Smart City Development Ltd. However, Indore Smart City Development Ltd. may, if necessary, at its sole discretion ask for any clarification regarding the submitted tender and/or other documents.
- (g) 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

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&Annexure submitted as proof of the requirements, shall be disqualified & earnest money shall be forfeited.

- (h) 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 the form of Bank Guarantee
  - (b) Signing of the Contract agreement 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 Indore Smart City Development 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 ISCDL. Under No circumstances ISCDL 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 ISCDL in respect of any such claim or claims. The Contractor of the proposed items shall be liable to buy insurance against public liability.

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### **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 as defined in Annexe-1 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 ISCDL provided therein shall vest with the ISCDL, 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. Indore, Indore smart city development 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 ISCDL 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 the ISCDL. Any notification of preferred Bidder status by ISCDL shall not give rise to any enforceable rights by the Bidder. The ISCDL may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of the ISCDL.
- (i) This RFP supersedes and replaces any previous public documentation & communications, and Bidders should place no reliance on such communications.



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- (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 and the ISCDL shall not be liable for the same. GST shall be paid extra as applicable.
- (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 Indore 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, ISCDL invites eligible agencies for **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission.**
2. Importance of said Information System in Indore City: The Active & Static Information System works in Indore 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

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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 Indore City:** At present, main facility available for guiding citizens and visitors to the city are some Static signage Information System erected by Indore municipal corporation, Indore development corporation, 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. 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 ISCDL. Under no circumstances Contractor shall put the navigational information on devices without the approval of ISCDL.
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. CEO ISCDL 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.

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S. No.	Key Information	Details
1	<b>Project Components</b>	<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 Standard designs. Facilitate the regular visit, of the ISCDL officials and ISCDL 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 Standard 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 specifications.</p> <p>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 development obligation.</p>
2	<b>Project Locations</b>	Indore Municipal Corporation Area.
3	<b>Construction/Installation Controls/ Guidelines</b>	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 ISCDL.
4	<b>Technical Specifications</b>	<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 in tender with which it has bided in this tender till the end of contract period for maintaining the uniformity within the city limits.</p>
5	<b>Time for Completion</b>	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	<b>Implementation Format</b>	<b>Engineering, Procurement and Construction (EPC)</b>

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Bid Conditions & Evaluation		
7	<b>Bid Eligibility Criteria</b>	Bidder shall meet the eligibility criteria defined in this RFP

S. No.	Key Information	Details
8	<b>Bid Security ~ Earnest Money Deposit (EMD)</b>	Earnest Money Deposit (EMD) Rs. 20,00,000/- have to be deposited online on <a href="https://mptenders.gov.in">https://mptenders.gov.in</a> to avail the participation rights in Bidding. The payment options at <a href="https://mptenders.gov.in">https://mptenders.gov.in</a> are Credit Cards or Debit Cards or Net Banking or system generated challan.
9	<b>Performance Security</b>	The Contractor shall have to submit the Performance Security in the form of a Bank Guarantee in favor of Executive Director, ISCDL, 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 for one year.
10	<b>Pre-condition for Signing Contract Agreement (Only Preferred Bidder after receipt of Letter of Award)</b>	Signing of Contract Agreement is within 15 days from the issue of Letter of Award (LoA).
11	<b>Selection of Bidder</b>	The selection of Successful Bidder will be done on "L1" basis through online bidding i.e. Lowest Percentage. The bidder should quote tender percentage rate above or below or at par on the Bill of Quantities. Only those Bidders qualified in technical bid, will be considered for financial bid opening on <a href="https://mptenders.gov.in">https://mptenders.gov.in</a> The Lowest percentage rates quoted is the Bid Winning Parameter through online bidding.

12	<b>The online Proposals must be submitted no later than</b>	Date: 08.03.2019 Time: 17:30 Hrs. local time
13	<b>Bid Validity</b>	180 days from the due date of Bid submission

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<b>14</b>	<b>Bid Evaluation</b>	a) Technical Bid Evaluation: Bidders whose bids are responsive and also meet the Eligibility Criteria shall only be undertaken for Technical evaluation. b) Financial Bid Opening: Only technically qualified firms / bidders shall be considered for Financial bid opening.
<b>15</b>	<b>Maintenance Period</b>	12 Months after completion of the project component in phased manner.

### **6. PROPOSAL PREPARATION COST**

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. ISCDL 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 submit their queries to ISCDL in writing by post / courier, or by email at least 72 (Seventy-Two) hours prior to the tender bid time in order to enable ISCDL 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 ISCDL to respond to any questions or to provide any clarification to a query. ISCDL 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 ISCDL 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 ISCDL has not responded to any question or provided any clarification to a query.

### **9. AMENDMENT OF BIDDING DOCUMENTS**

At any time before the Deadline for Submission of Bids, ISCDL 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, ISCDL, reserves the right to extend the Deadline for the Submission of Bids. However, no request from the prospective Bidder(s), shall be binding on ISCDL for the same.

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## 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) ISCDL may terminate the RFP process at any time and without assigning any reason. ISCDL 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 ISCDL. 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
<b>Cover 1</b>	Proof of submission of RFP Document Fee and EMD.
<b>Cover2: Technical Proposal</b>	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.

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<b>Financial Proposal</b>	The Financial Proposal shall be prepared in accordance with the requirements specified in this RFP and should be submitted online only on <a href="https://mptenders.gov.in">https://mptenders.gov.in</a>
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**Note: ISCDL will conduct the bid evaluation based on documents submitted through online e-tendering portal. 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 ISCDL 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 ISCDL 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> on or before 08.03.2019 upto 17:30 Hrs. 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.

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### **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 ISCDL to facilitate the evaluation process, and in negotiating a definitive contract or all such activities related to the bid process.

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

### **13.6. Deleted**

### **13.7. FINANCIAL BID**

- (i) The bidder shall have to quote percentage rate above or below or at par on the Bill of Quantity given in the RFP.
- (ii) The bidder shall have to quote rates inclusive of all duties, taxes, royalties and other levies; and ISCDL shall not be liable for the same.
- (iii) All responsive bids shall be compared to determine the lowest evaluated bid.

### **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 CEO Indore Smart City Development Limited, Nehru Park, Indore (MP), hard bound/spiral, in the sealed cover duly super scribed with Tender for “**Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**”
- (b) Tender should be submitted online on or before due date as mentioned in RFP. Financial bids of technically qualified bidders will be opened online. 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 ISCDL 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 ISCDL.

### **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). ISCDL 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 ISCDL.
- (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.



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### **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 ISCDL. 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 ISCDL 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 ISCDL 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 as ascertaining for themselves with the site conditions, traffic, location, surroundings, climate, access to the sites, availability of information with the ISCDL, Applicable Laws and regulations or any other matter considered relevant by them.

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### **17. PROJECT SITE**

- (a) ISCDL 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 approval of ISCDL.
- (b) The Project shall commence within Seven (7) days from the signing of the of Agreement and linked to agreed erection/installation schedule submitted by the Contractor in the office of ISCDL.
- (c) ISCDL 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 ISCDL.

### **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 ISCDL 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 ISCDL. Neither any change in the time schedule of the contract nor any financial adjustments arising there-of shall be permitted by the ISCDL 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:

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- 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 or
  - (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) 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) Information of the bidder in prescribed formats given in the RFP document.
- (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) of Rs.50,000/-
- (d) Earnest Money Deposit (EMD) of Rs. 20,00,000/- have to be paid to avail the participation rights in Bidding. Bids without EMD shall be summarily rejected.
- (e) Contractor must submit all relevant document w.r.t Technical Bid in Envelop 2 (Hard Bound).
- (f) Any other documents required or mentioned under this bid document.

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### **21. BIDDING GENERAL TERMS:**

- (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 ISCDL 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) of 20,00,000/- . EMD shall have to be deposited online only through Debit card /Credit card / Net banking or System Generated Challan.
- (b) The Earnest Money of unsuccessful bidders shall be returned once the Successful Bidder submits the Performance Security.
- (c) The ISCDL 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 ISCDL, MADHYA PRADESH or any other official authorized by the ISCDL, MADHYA PRADESH on ground if the bid is withdrawn by the tenderer(s) before opening the tender or within 180 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 ISCDL;
  - 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 ISCDL

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### **23. PROPRIETARY DATA**

- (a) All documents, reports and other information provided by ISCDL or submitted by the Bidder to ISCDL shall remain or become the property of the ISCDL. The Bidder, as the case may be, are to treat all information as strictly confidential. ISCDL will not return any Proposal or any information related thereto. All information collected, analyzed, processed or in whatever manner provided by the Bidder to ISCDL in relation to the project shall be the property of ISCDL.
- (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 ISCDL confidential or pre-existing proprietary information.

### **24. TESTS OF RESPONSIVENESS**

Prior to evaluation of Bids, the ISCDL 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 ISCDL within the prescribed period;

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### **25. ELIGIBILITY CRITERIA**

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

#### **25.1. PRE-QUALIFICATION CRITERIA:**

- (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 & the bidder.
- (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 ISCDL or by any other government department.

#### **Note:**

- (a) *The bidder who is a defaulter or blacklisted before the date of opening of techno commercial Bid cannot participate in the tender.*
- (b) *The bidder has to submit an undertaking that he/she is/ 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 as 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 & the bidder.

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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. 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.
4. Technical Presentation: Bidder need to submit the proposed resources, approach and methodology of executing the Project.
5. a. The bidder shall submit declaration from the manufacturer of retro reflective sheeting that they recommend HP Latex 365 printer for printing and shall be responsible for its performance. The traffic signages printed on HP Latex 365 series printer with inks shall not be harmful to the environment during printing stage and post installation on 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 by 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 subsidy 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 black listing of contractor/ manufacturer.
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. Night time color

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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 as per requirement of IRC 67:2012.
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 their placements 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



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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 for work so that accountability can be fixed for one bidder and its supporting manufacturer.
22. The tenderer should upload all the documents mentioned above during the bid submission, failing which their Bid would be disqualified.
23. 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
24. A certificate of having tested the lens of raised pavement marker as per ASTM D 4280 and its having passed these tests shall be obtained from an independent laboratory of repute by the manufacturer and enclosed along with the bid.
25. A third-party test report (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
26. The bidder should furnish the international / Govt laboratory test report 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. Day Time Colour
27. 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.
28. The Tenderer should mandatorily submit test report from international / Govt laboratory test of having tested the solar raised pavement marker for requirement of IP 65 in accordance with IS: 12063:1987.
29. The Solar Stud should have reflective lens along with LED with solar panel to provide both active and passive reflection/ visibility.
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, Aluminium 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

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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 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) ISCDL will constitute a Bid Evaluation Committee (BEC) to evaluate the responses of the Bidders.
- (b) The BEC constituted by ISCDL 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 w.r.t. 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) Total transparency shall be observed and ensured while opening the Bids. All Bids shall be opened in the presence of the Bidder's representatives who choose to attend the Bid opening sessions on the specified date, time and address.
- (b) ISCDL reserves the right at all times to postpone or cancel a scheduled Bid opening.
- (c) Bid opening shall be conducted in 2 (Two) Stages;
  - (i) Stage 1 - RFP Document fee and EMD and Technical Bid Evaluation

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- (ii) Stage 2 - Financial Proposal Opening (online on <https://mptenders.gov.in>)
- (d) 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.
- (e) The Bidder's representatives who are present during the bid opening shall sign a register evidencing their attendance. In the event of the specified date of Bid opening being declared a holiday for ISCDL, the bids shall be opened at the same time and location on the next working day. In addition to that, if the representative of the Bidder remains absent, ISCDL will continue process and open the bids of the all bidders.
- (f) 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 requirements 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 Required	Marks
1	The Bidder should be an Authorized Converter Type XI Sheeting Manufacturer having Ecologo certificate or an Equivalent certificate conforming to UL 2801 standards for printing uniform city signage.	Ecologo certificate or an Equivalent certificate conforming to UL 2801 standards	30

**Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

S. No.	Eligibility Requirement	Supporting Documents Required	Marks
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	Test reports as per table 6.7 of IRC 67-2012.	05
3	Test report for critical road safety product of AFP Sheeting & Solar RPM.	Test report from international / Govt laboratory (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 international / Govt 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.	10
5	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. 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.	10

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

S. No.	Eligibility Requirement	Supporting Documents Required	Marks
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	05
7	<b>Technical Presentation</b>	Proposed Resources, Approach and Methodology, Proposed designs, printing samples, Signage Theme.	<b>30</b>
<b>Total Marks</b>			<b>100</b>

### 27.3. TECHNICAL PRESENTATION /DEMONSTRATION

Bidder who meets the minimum pre-qualification criteria 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 ISCDL.

### 27. EVALUATION FOR PREFERRED CONTRACTOR(CONTRACTOR)

- (a) The bidder shall have to quote rates in format referred in Bid Data Sheet, in overall percentage, and not item wise. If the bid is in absolute amount, overall percentage would be arrived at in relation to the probable amount of contract given in RFP. The overall percentage rate would apply for all items of work.
- (b) All responsive bids shall be compared to determine the lowest evaluated bid "L1".

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

- (c) Percentage 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. For any other calculation/ summation error etc. the bid may be rejected at the sole discretion of ISCDL.
- (d) The bidder shall not alter the percentage 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.
- (e) The Financial Proposal of only the technically qualified Bidders will be opened.

### **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 ISCDL 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 ISCDL 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 ISCDL 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, ISCDL 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)**

ISCDL 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 of the grounds for ISCDL action.

#### **28.3. NOTIFICATION OF AWARD**

Prior to the expiration of the validity period, ISCDL 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, ISCDL may like to request the Bidders to extend the validity period of the bid.

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### **28.4. CONTRACT FINALISATION AND AWARD**

ISCDL 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) ISCDL will require the selected Bidder to provide a Performance Bank Guarantee in accordance with the Annexure -16, after competition of work, for a value equivalent to 5% of the total cost of tender value/ executed work (whichever is higher). The Performance Guarantee shall be kept valid till 6 (Six) months beyond the date of 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, ISCDL at its discretion may cancel the order placed on the selected Bidder without giving any notice. ISCDL shall invoke the Performance Guarantee in case the selected Contractor fails to discharge their contractual obligations during the Period or ISCDL 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 ISCDL 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 ISCDL.

### **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 Contract Period, 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 ISCDL 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**

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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- (a) Subsequent to ISCDL issuing Letter of Award (LoA) to the Preferred Contractor, the Preferred Contractor shall execute the Contract Agreement with the ISCDL within a period of 15 days from the date of issue of the Letter of Award.
- (b) After ISCDL notifies the successful Bidder that its proposal has been accepted, ISCDL 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 ISCDL 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 ISCDL 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, ISCDL 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 ISCDL 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 ISCDL 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 ISCDL, 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**



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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 ISCDL 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 ISCDL to reject or disqualify the Bidder, becomes known after the bidder has been pre-qualified, ISCDL 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 ISCDL 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 ISCDL, 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 ISCDL 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.

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- 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 ISCDL 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's 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, etc. to be paid to Government / Statutory bodies / Authorities, etc. for the services rendered by it. There will be no tax liability upon the ISCDL whatsoever on any account.
- (b) The Contractor indemnifies ISCDL 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 ISCDL be drawn into litigation on these counts.

### **37. ROLES & RESPONSIBILITIES**

#### **37.1.** ISCDL agrees to observe, comply and perform the following:

The Contractor shall erect/install Active & Static Information System only on the earmarked sites provided by ISCDL. Any violation shall result in immediate cancellation of the contract without any prior notice.

- (a) 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 ISCDL. Under No circumstances ISCDL 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 ISCDL, at his own cost.

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- (b) ISCDL shall appoint one or more officers of suitable seniority in rank and tenure to act as the point of contact for the Contractor within ISCDL 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;
- (c) At the end of the Construction Period, all rights given to the Contractor shall be terminated automatically.
- (d) ISCDL shall provide single window clearance, where ISCDL has full control and jurisdiction, to the Contractor for the purpose of this RFP document.
- (e) The ISCDL shall take metered electricity for Active & Static Information System. The entire electricity charges of Active & Static Information System shall be borne by ISCDL.

### **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 on Percentage Rate Contract Basis under the Smart City Mission**”, 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 specifications. The Contractor shall also indemnify ISCDL 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 ISCDL 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 ISCDL within 15 (fifteen) working days from the Appointed Date.
- (f) The Contractor shall provide full assistance and cooperation at its own cost to ISCDL 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:

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- (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 ISCDL 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 color able imitation thereof in any manner, except in accordance with and during the subsistence of this Agreement or with the prior written approval of the ISCDL. 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 ISCDL's prior written consent, will be an infringement and/or passing off of ISCDL'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: ISCDL 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 ISCDL 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 ISCDL 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, ISCDL 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 ISCDL.
- (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 ISCDL 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 ISCDL and Contractor based on their agreement. Else, Contractor will be required to do the needful within 72 hours of the decision made by ISCDL.

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- (k) Contractor to deposit BG/FDR/DD as a refundable security deposit with the ISCDL 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	<p><b>Mobilization Advance:</b> Mobilization advance shall be given only after submission of BG of equivalent amount having validity equivalent of contract period. The value of mobilization advance shall not exceed 10% of contract value. The recovery of mobilization advance shall be made from running bills which shall be @ 10% of running bill amount. Simple interest @10% Per annum will be charged for the mobilization advance.</p>	
2	<p><b>Running Bill:</b> The successful bidder will have to raise Running Bills of executed work by 1st week of each calendar month. 50% Payment of the same shall be released against proof of material delivery at site/ store. 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.</p>	<b>95%</b>
3	<p><b>Security Deposit:</b> 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.</p>	<b>5%</b>

### **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 ISCDL, 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.

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

The Contractor shall indemnify the ISCDL against all claims, actions, demands, losses, charges, and cost of expenses, which the ISCDL 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 ISCDL allotted to him.

### **41. 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 ISCDL, 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 ISCDL may have on account of such default.

### **42. INDEMNITY**

1. Contractor shall be required to indemnify the ISCDL 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 ISCDL 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 ISCDL in respect of any such claim or claims.

### **44. TERMINATION OF CONTRACT ONBREACH**

#### **44.1. BY ISCDL**

- (a) The ISCDL 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 ISCDL may have subsequently granted inwriting;  
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;

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- II. the Bidder fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clauses of this RFP thereof;
  - III. the Bidder submits to the ISCDL a statement which has a material effect on the rights, obligations or interests of the ISCDL and which the Bidder knows to be false;
  - IV. 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;
  - V. 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
  - VI. the ISCDL, 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 ISCDL shall give notice calling upon the Contractor to rectify/remedy the breach, to satisfy the ISCDL about there being no breach and satisfy the ISCDL within a period of 30 days from the date of notice otherwise the ISCDL shall be entitled to terminate the agreement without giving any further notice and in that event the ISCDL 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 ISCDL, such notice to be given after the occurrence of any of the events specified in this Clause, terminate this Agreement if:

- (a) The ISCDL 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 ISCDL of the Bidder's notice specifying such breach;
- (b) The ISCDL fails to comply with any final decision reached as a result of arbitration pursuant to Clauses of this RFP thereof.

### **45. ACCEPTANCE / REJECTION OF TENDER.**

The ISCDL reserves the right to accept or reject any tender without assigning any reason(s).

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### **46. JURISDICTION OF COURT**

The courts located in Indore (M.P) 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 ISCDL for the proper fulfilment of the contract on lines similar to terms of the tender or as modified or added by ISCDL. 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.



## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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### **49.2. NO BREACH OF AGREEMENT**

The failure of a Party to fulfil 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 BE TAKEN**

- (a) A Party affected by an event of Force Majeure shall take all reasonable measures to remove such Party's inability to fulfil 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.

### **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. COUNTER OFFER**

No counter request/offer will be acceptable to the ISCDL once the tender process is initiated.

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

# Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

## 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 and variable message signage including ancillary/support infrastructure as per technical specifications provided in the document.
- (b) Meet the requirements laid down by the ISCDL.
- (c) Successful Contractor shall be responsible for Installation and construction of Active & Static Information System on specified location identified by ISCDL. The maximum time period for completion of the Erection/Installation of all Active & Static Information Systems shall be Six (6) 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 customized modular Epoxy Coated MS angle iron / hollow section frame work, aluminum 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 aluminum composite panel (ACP) shall have a thickness of 4mm with 0.5mm thick skin of aluminum 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, equipment's, 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 customized modular Epoxy Coated MS angle iron/ hollow section frame work, aluminum 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

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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 aluminum 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 Epoxy Coated MS angle iron/ hollow section frame work, 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/ hollow section 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 aluminum 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 customized modular Epoxy Coated MS iron frame work, aluminum composite panel (ACP) as base board, micro prismatic retro-reflective sheet and electro cut colored overlay film. The horizontal and vertical members including inclined outer members of the MS frame module shall be made of pair MS angle iron/ hollow section 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 aluminum composite panel (ACP) shall have a thickness of 4mm with 0.5mm thick skin of aluminum 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 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.

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### **1.5 Cautionary, Mandatory, Hazard Signboards & its specification –**

Providing and fixing retro-reflective single sided shoulder mounted signboards comprising of customised modular Epoxy Coated MS iron frame work, 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 aluminum composite panel (ACP) shall have a thickness of 4mm with 0.5 mm 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 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 conform 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.

<b>S. No.</b>	<b>Description of Parameters</b>	<b>Applicable Standards</b>	<b>Remarks</b>
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 Indore Indore smart city development ltd. jurisdictions.

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2	Spatial planning and architectural design guidelines	Urban Development Plans Formulation & Implementation guidelines (UDPFI) and Time Saver Standards. <b>Specifications, guidelines stipulated in this section of RFP</b>	Any other applicable regulations/stipulations, of any other statutory authorities.
3	Alternative/ nonconventional materials/ technologies, sustainable buildings, energy conservation, etc.	Environmental Building Guidelines' of ISCDL 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. PROJECT COMPONENTS

- (a) ISCDL envisages creation of state-of-the-art modern Active & Static Information System at various locations of Indore.
- (b) 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.

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- (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 12 months 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 Six (6) 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) ISCDL shall review and finalize the detailed implementation plan/schedule submitted by the Contractor and only after obtaining the approval from ISCDL; 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 ISCDL 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 ISCDL may revise or change the approved implementation plan.

### **57. ACTIVE & STATIC INFORMATION SYSTEM INSTALLATION CONTROLS**

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- (a) The subject locations with the Right of Way (RoW) as mentioned above are located in various areas of ISCDL.
- (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 ISCDL, 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 Indore smart city development ltd. Act, 1956. The foundations shall be designed and checked for extreme wind conditions, earthquake, weight bearing capacity etc.



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- (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 ISCDL.
- (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 ISCDL.
- (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.

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- (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 ISCDL 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 ISCDL 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.

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### 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

- <sup>4</sup>Minimum 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 ISCDL.

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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.

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

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

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 & Colourometry shall be submitted by the tenderer.

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### **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 discolored 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

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(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 3 years from the date of installation.
- (t) 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.
- (u) The successful bidder shall perform regular cleaning and maintenance of displays once every 6 months.
- (v) The successful bidder shall store 2% spares at their warehouse during Warranty / AMC period.
- (w) The successful bidder shall provide customer support contact for complaint registration.

#### **62.2. TRAINING**

The Bidder shall undertake to train the staff nominated by ISCDL 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 ISCDL 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) ISCDL shall ensure sufficient, stable (without voltage fluctuations) and continuous power

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supply at the site. Contractor shall provide UPS to avoid voltage fluctuations and ensure uninterrupted operations.

- (e) ISCDL 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. OEM CRITERIA**

#### **Smart /IOT Based VMS Functional Specifications:**

1. VMS solution displays real-time as well as static data.
2. VMS solution is a fully customizable solution for each display/ location to show live traffic-related information i.e. journey time, re-routing options, live congestion related information specific to that location/ corridor.
3. VMS Solution has the capability to be integrated with disaster management & emergency response data sources to provide instant alerts to road users & public.
4. SMART VMS solution allows distribution of emergency messages to specific individual / group or all VMS boards via secured Mobile/ Tablet application.
5. SMART VMS solution is capable of reading live data & displaying on the LED screen from sensors installed on the road. Example: - Parking, Air Quality etc.
6. If there is no data connectivity due to network issues with VMS processor and server application, VMS displays the last uploaded content / programmed content, thus ensuring uninterrupted performance.
7. The system is easy to manage and operate from a single control room and the central control software should be capable of managing at least 500 boards.
8. In the event of central server failure, each of the SMART VMS boards is individually capable of continuous & uninterrupted display of real time traffic & other information as per last configuration thereby ensuring continuous operation.
9. There is an option to view latest content screen shot of every display on the centrally hosted VMS ManagerApplication
10. Android App is provided for entering Emergency messages and distributing to the VMS Displays from the App with clear time lines (Start time & Date, End time and Date). Authentication key shall be provided to the authorized users only.
11. Automated email alerts at set intervals shall be provided in case the VMS processors are not connecting to the central manager application.
12. The system maintains the history of messages archived for future reference and analysis.
13. All boards can be connected and controlled centrally via one software application and server. The software patches/upgradation should be free for 5 years.
14. It can be integrated with other Intelligent Transport Solutions as and when required on availability of protocols. It should have the ability to integrate common content wherever possible.
15. The intended information to be displayed has the feature to schedule and display data at any date and time.
16. VMS can maintain logs on the server for a period of 12 months.
17. VMS solution can display pictograms and text message in English, Hindi and other regional languages.
18. VMS Solution has the capability to define groups for displays, so that specific messages can be displayed to targeted boards.
19. VMS solution works in an automated fashion. No manual intervention shall be required for displaying the contextual, real-time information.
20. The solution has a photo sensor that can detect the external light and adjust the display brightness accordingly.
21. VMS server application has a facility to store GPS coordinates for individual VMS locations which could be plotted in the GIS map.

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22. Smart VMS software has the capability to detect the non-working status of SMPS Voltage, FRC Cables remotely and alert the user.
23. VMS solution has a feature of low power mode that ensures 50% or above power reduction which contributes in increase of battery backup time of UPS by 75% & above. This feature needs to be proven during the POC.
24. VMS solution shall have content designed by following the Indian & global standards developed by IRC: 67 & 85, United States Sign Council Sign legibility rules of thumb, APCO - Distance legibility, SEG D - AIGA/DOT Transportation Symbols & FTA-VA-26-7026-02.1
25. VMS solution has Unicode support (regional fonts) for the font family used with same stroke weight and style.
26. VMS solution has a night mode that has ambient design display which ensures power reduction by 50%.
27. VMS solution is provided with a design kit that contains SEG D Transportation & Recreational pictogram family, Font family, Design templates for four frequently used VMD size for Adobe Illustrator, Adobe Photoshop, Corel Draw & Microsoft PowerPoint, User Manual on content creation that covers font & pictogram legibility, use of backgrounds, layout, file size & format.
28. VMS solution is provided with Troubleshooting & FAQ's, Installation Guide, Content Development Guide, Content Sharing Guide, VMS Portal Guide & Interactive Troubleshooting guide (mobile version).
29. Display should have certifications for FCC, CE, RoHS, IP65 from front side and IP54 for whole cabinet as a regulatory compliance.
30. Display should be CB certified.
31. 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

### Technical Specifications

#### VMD Screen & site processor

Technical Specifications for Full color 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 <sup>2</sup>
6.	Pixel Density	10,000 dots/m <sup>2</sup>
7.	Environmental grade	UV Resistant
8.	Color type	Real Full Color
9.	Brightness	7000-7500 cd/m <sup>2</sup> (Ensure excellent Images)
10.	Brightness Adjustment	Manual and Automatic
11.	Best Viewing Distance	10m – 100m
12.	Power Consumption	Maximum 400W/m <sup>2</sup> Average 200W/m <sup>2</sup>
13.	Control Method	Synchronized with System



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14.	Frame Frequency	≥60 Hz.
15.	Grey Level	≥ 16K Grade
16.	Color Temperature	6000K-95000 K
17.	Color	≥16 Million Colors
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
30.	Flat Cable, SMPS Voltage:	The System should be capable of showing the health status of FRC cable & SMPS Voltage etc.
31.	Power Consumption	The display should not consume more than 400W/m <sup>2</sup> at the minimum brightness of 7000cd/m <sup>2</sup> .
32.	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.
33.		<ol style="list-style-type: none"> <li>1) The Software should run on Microsoft Windows Platform: Windows 7 Embedded or above</li> <li>2) The Software powers up the Media Player at pre-determined times on all functioning days of the Station.</li> <li>3) The Software powers off the unit during the closing hours of the Station.</li> <li>4) No Personnel should be required to either switch on, switch off, power off, log in or log out procedures. All</li> </ol>

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VMS site processor specification	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.

### Cloud Software Specifications:

VMS Server Software	
Sl. No.	Details
1.	VMS server application should be web based Solution (Hosted Manager Application) with user level access.
2.	VMS server application should have a screen Layout Designer Module with Drag and Drop interface and supporting more than 2 Media Zones, 3 Scrolling Zones, Date and time zone along with Weather Module. Supports any screen resolution in both the screen Formats (Portrait and Landscape).
3.	VMS server application should have a Alert Manager Option to assign player or Group of players to an email id to receive the Player logs between set intervals.
4.	VMS server application should be capable of assigning VMS displays in multiple Groups and schedules can be sent to a Group or a selection of Players in a Group or to the Whole Network.

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5.	VMS server application should be capable of adding at least 500+VMS Displays in the Network.
6.	VMS server application should have capability to divide screen into multiple zones (at least 7 zones). 3 Media zones supporting all Media formats (Videos, Images, Flash, Web URLs), 3 Ticker, Date Zone & Clock Zone.
7.	VMS server application should be able to play Videos, Flash, Images & URLs.
8.	VMS server application should have capability to organize the VMS groups, VMS locations & media files, in Tree View Folders structure.
9.	VMS server application should capability to schedule the zones in the Screen Layout independently.
10.	VMS server application should have a feature to set the different shutdown time and reboot time for all days of a week for the Remote Players
11.	VMS server application should have Dashboard view of the Network Connectivity Status between the VMS site processor (VMS Displays) and the Central Server, current IP Address & Free Space available on Players (VMS Displays).
12.	VMS server application should have Drag and Drop feature to create a playlist, modify the position of the files in the playlist.
13.	VMS server application should have capability to assign each media file in the Media Playlist to have Start and End time and option for looping.
14.	VMS server application should have an option to set the files in the playlist to play in a set day of the Week or entire week
15.	VMS server application should have an option to force download selected Media files (content) in the playlist.
16.	VMS server application should have an option to set Screen shot with time stamp during Media Playback on VMS site processor (VMS Displays) and upload back the screenshot to be viewed from the server application.
17.	VMS server application should have reports of Media Exposure between Date ranges. Should be able to export this data to Microsoft Excel & PDF.
18.	VMS server application should have user access & management for Multi-Level user access, Administrator will have all the rights and he can create users and assign rights, User access can be provided for a VMS site processor (VMS Display), Group of Players or each module like Playlist creation, Layout Management, Reports etc.
19.	VMS server application should have the option of Schedules, Playlists, Logs and other information from the VMS site processor (VMS Displays) to be uploaded to a Content Server in an encrypted format.
20.	VMS server application should have capability of encryption of Data to increase secure downloads on the VMS site processor – Minimum 128-bit playlist encryption is to be supported.
21.	VMS site processor should have capability of Intelligent Download Module helping in content and schedules to be downloaded meant for the particular processor (VMS Display).
22.	VMS site processor (VMS Display) could be programmed to play unattended 24 x 7
23.	Log Viewer Module in the VMS server application to give instant reports for Active Playlists on each VMS site processor (VMS Display), Content upload and download time, player start up and shutdown times.
24.	VMS site processor should support from preventing play back of content that is not authenticated from the VMS server application.
25.	VMS server application should have feature to support multiple File types in a Loop (Multiple file formats in a Playlist).

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26.	VMS server application should have feature to play selected Media files in Day Time Parting by providing the Start time and End Time
27.	VMS server application should have the capability to display diagnostics dashboard which captures the health of VMS site displays for multiple parameters i.e. FRC cable, sending card, receiving card, SMPS, Power source (UPS / power source), LAN connectivity.
28.	VMS server application should have feature to define and display 10+ preset messages supported in the VMS server & android application. It should support Unicode characters. It should have an option to pre-schedule based on data and time. It should have option to play exclusive content playback. It should have option to publish the message to selected VMS or group locations. It should have feature for capturing proof of content displayed on the VMS screen location.
29.	VMS server application should have an option to display VMS display locations plotted on the map based on GPS coordinates. It should have an option to select the location on the map and display the last played content as a screen shot with last connected time to server application, VMS display IP address & MAC address. It should have an option to select groups or individual VMS displays and display this information.
30.	VMS server application should have feature to display uptime log report based on LAN connectivity with server application. It should have option to display data based on group wise or location wise. It should have option to export data to excel file.
31.	VMS server application should have feature to define and display Emergency messages from the VMS server & android application. It should support Unicode characters. It should have an option to pre-schedule based on data and time. It should have option to play exclusive content playback. It should have option to publish the message to selected VMS or group locations. It should have feature for capturing proof of content displayed on the VMS screen location. It should have option to preview the message on the portal and android application for different screen sizes (3x2, 4x2, 2x1). It should support at least 20 characters per line with 3 lines & one headers. It should support spell check feature & auto correction feature. IT should support 128-bit encryption. VMS site processor should have capability for auto adjusting the message to any screen resolution. Android application should able to support Android version 4.4 and above. Android application should be authenticated based on a activation key provided by OEM authorized personal.
32.	VMS server applications should have an option to publish updates to remote VMS locations for software upgrades. The update file should be automatically sent to VMS locations which are selected through VMS server application. Update should be downloaded and executed automatically. Update file should contain latest features and software patches.

### 63. ACTIVE & STATIC INFORMATION SYSTEM STRUCTURAL SPECIFICATIONS AND STANDARDS

#### 63.1. PREAMBLE

- (a) The Technical Specifications contained herein shall be read in conjunction with the other provisions of the Bidding Documents as specified.
- (d) 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.
- (e) The following specifications and standards cover only some of the minimum requirements for the development of project facilities.
- (f) The Service Provider shall construct, operate, maintain and manage the proposed project

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facilities strictly confirming 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 ISCDL envisages a world-class facility in all respects and expects international quality and standards from the selected service provider, as the binding contractual obligation.

- (g) 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 ISCDL 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. OTHER STANDARDS**

- (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 ISCDL.
- (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

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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 ISCDL, Officer in Charge and provide all necessary information so as to allow the ISCDL, Officer in Charge to monitor the progress and quality of construction in line with the role of the ISCDL, 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) The commercial space (as approved by ISCDL) 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 ISCDL, Officer InCharge.

### **64. SITE DEVELOPMENT RELATED SPECIFICATIONS**

#### **ACTIVE & STATIC INFORMATION SYSTEM**

- (a) All the project components/facilities shall be as per the design approved by ISCDL 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**

- (a) The basic structure shall be made of Structural Steel and designed for all Dead and Live loads

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(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 IS4000:1992.
- (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 ISCDL.
- (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 coordinate with the ISCDL, Officer in Charge and provide all necessary information so as to allow the ISCDL, Officer in Charge to monitor the progress and quality of construction in line with the role of the ISCDL, 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

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(v) Installation of cables, earthing works as per relevant IS or international codes

The commercial space (as approved by ISCDL) provided to the Service Provider shall be used strictly for the purpose for which they are allotted.

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.

The work shall be executed with highest degree of efficiency and all safety aspects shall be adopted as per International practices as directed by ISCDL, Officer In Charge.



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### **DECLARATION**

I/WE declare that I/WE have read the above terms and conditions for “**Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**” 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:**

\_\_\_\_\_

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**ANNEXE - 1 – ACTIVE & STATIC INFORMATION SYSTEM PROJECT TENTATIVE LOCATIONS**

<b>Name of Junction/Nearby Landmark</b>	<b>Type of Junction</b>	<b>Co-ordinates</b>	<b>Type of Signages</b>	<b>No of Signages</b>
Indore Dhar Road	3 Arm Junction	22.71315, 75.84062	Speed limit	6
			Gantry	3
			Pedestrian crossing	3
			T Junction/ Side Road Left/ Side Road Right/Signal Ahead	3
			Flag type direction/Street Name	3
			Give Way	3
			Hazard Marker	3
			Compulsory left/Right	3
Bhagat Singh Square	4 Arm Junction	22.71528, 75.84066	Speed limit	8
			Gantry	4
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	3
			Compulsory Left	3
Kailash Marg - Netaji Subhash Road	4 Arm Junction	22.71777, 75.84087	Speed limit	8
			Stack Type Direction Sign	4
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	3
			Compulsory Left	3
Bada Ganpati Square	4 Arm Junction	22.72052, 75.84164	Speed limit	8
			Gantry	4
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

			Give Way	4
			Hazard Marker	4
			Compulsory Left	4
			Speed limit	8
Jinsi Chauraha	4 Arm Junction	22.72293, 75.8461	Stack Type Direction Sign	4
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	4
			Compulsory Left	4
			Speed limit	8
			Stack Type Direction	4
Shankarganj Chauraha	Staggered Junction	22.72368, 75.84612	Staggered Junction	2
			T Road	2
			Flag type direction/Street Name	4
			Give Way	2
			Speed limit	10
Sardar Patel Circle	5- Arm Roundabout	22.71489, 75.87138	Map Type Direction	5
			Pedestrian crossing	5
			Roundabout Sign	5
			Flag Type Direction/Road Name	5
			Give Way	5
			Double Chevron	10
			Compulsory Left	5
			One-way Hazard Marker	5
Railway Station Road	3 Arm Junction	22.71687, 75.86898	Speed limit	6
			Stack Type Direction	1
			Gantry	1
			Pedestrian crossing	3
			Traffic Signal/T Junction/Side Road Left/Side Road Right	3
			Flag type direction/Street Name	3
			Give way	3
			Hazard Marker	2

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

			Compulsory left	2
Regal Circle	3 Arm Roundabout	22.7199, 75.87103	Speed limit	6
			Map Type Direction	3
			Pedestrian crossing	3
			Roundabout Sign	3
			Flag type direction/Street Name	3
			Give Way	2
			Double Chevron	6
			Hazard Marker	6
			Compulsory left	6
			Place Identification	1
Khatipura Chauraha		22.71817, 75.86116	Speed limit	6
			Stack Type Direction	5
			Pedestrian crossing	3
			T Road	4
			Side Road Left	1
			Flag type direction/Street Name	3
			Give Way	4
			Double Chevron	6
			Hazard Marker	6
			Compulsory left	6
Indore Police Station	4 Arm Junction	22.71982, 75.85861	Speed limit	8
			Gantry	2
			Stack Type Direction Sign	4
			Pedestrian crossing	5
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	4
Compulsory left	4			
Super Corridor - Airport Road	3 Arm Junction	22.7355, 75.7956	Speed limit	6
			Stack Type Direction	1
			Gantry	2
			Pedestrian crossing	3
			Traffic Signal/T Junction/Side Road Left/Side Road Right	3

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

			Flag type direction/Street Name	3
			Give way	2
			Hazard Marker	2
			Compulsory left	2
			Speed limit	8
			Gantry	4
			Re- Assurance Sign	4
			Pedestrian crossing	8
			Roundabout Sign	4
Phooto Kothi Circle	4- Arm Roundabout	22.69402, 75.82816	Flag type direction/Street Name	-
			Give Way	4
			Double Chevron	8
			Hazard Marker	8
			Compulsory left	4
			Speed limit	6
			Gantry	3
Gopur Square	3 Arm Junction	22.68381, 75.82943	Pedestrian crossing	3
			T Road/Traffic Signal/Side Road Right/Side Road Left	3
			Flag type direction/Street Name	7
			Give Way	5
			Double Chevron	6
			Hazard Marker	6
			Compulsory left	6
Niranjapur Circle	4 Arm Junction	22.77165, 75.90169	Speed limit	8
			Gantry	4
			Pedestrian crossing	5
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	4
Shri Satyasai School Square	4 Arm Junction	22.75523, 75.89675	Compulsory left	4
			Speed limit	8
			Gantry	4
			Stack Type Direction	2

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

			Pedestrian crossing	5
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	4
			Compulsory left	4
			Speed limit	8
			Gantry	4
			Stack Type Direction	4
			Pedestrian crossing	8
			Roundabout Sign	4
			Flag type direction/Street Name	4
			Give Way	4
			Double Chevron	8
			Hazard Marker	8
			Compulsory left	4
			Speed limit	6
			Map Type Direction	3
			Stack Type Direction	1
			Pedestrian crossing	3
			Roundabout Sign	3
			Flag type direction/Street Name	3
			Give Way	2
			Double Chevron	6
			Hazard Marker	6
			Compulsory left	6
			Speed limit	10
			Stack Type Direction	5
			Pedestrian crossing	5
			Roundabout Sign	5
			Flag type direction/Street Name	5
			Give Way	5
			Double Chevron	10
			Compulsory Left	5
			One way Hazard Marker	5
			Speed limit	8
			Stack Type Direction	4
			Pedestrian crossing	3

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	4
Hira Nagar Square	4 Arm Junction	22.75866, 75.8761	Speed limit	8
			Gantry	2
			Stack Type Direction	2
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	4
			Compulsory left	4
			Speed limit	8
Chandra Gupta Maurya Chauraha	4- Arm Roundabout	22.76405, 75.87094	Gantry	2
			Stack Type Direction	2
			Pedestrian crossing	4
			Roundabout Sign	4
			Flag type direction/Street Name	4
			Give Way	4
			Double Chevron	8
			Hazard Marker	8
			Compulsory left	4
			Speed limit	8
Rosama Circle	4 Arm Junction	22.74893, 75.89477	Stack Type Direction	4
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	5
			Give Way	4
			Hazard Marker	4
			Compulsory left	4
Reti Mandi Chaurhaha	4 Arm Junction	22.74931, 75.90351	Speed limit	8
			Gantry	4
			Stack Type Direction Sign	4
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

			Flag type direction/Street Name	5
			Give Way	4
			Hazard Marker	4
			Compulsory left	4
			Speed limit	8
			Gantry	4
			Stack Type Direction Sign	4
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	5
			Give Way	4
			Hazard Marker	4
			Compulsory left	4
			Speed limit	8
			Stack Type Direction Sign	4
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	5
			Give Way	4
			Hazard Marker	4
			Compulsory left	4
			Speed limit	6
			Stack Type Direction	3
			Pedestrian crossing	3
			T Road/Traffic Signal/Side Road Right/Side Road Left	3
			Flag type direction/Street Name	3
			Give Way	2
			Speed limit	6
			Stack type	3
			Pedestrian crossing	3
			T Road/Traffic Signal/Side Road Right/Side Road Left	3



## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

			Flag type direction/Street Name	3
			Give Way	2
			Speed limit	8
DRP Line Square	4 Arm Junction	22.7277, 75.86284	Stack Type Direction Sign	4
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	8
			Compulsory left/Right	4
			Speed limit	6
			Map Type Direction	3
			Pedestrian crossing	3
Chandni Chowk	3 Arm Roundabout	22.75214, 75.89062	Roundabout Sign	3
			Flag type direction/Street Name	3
			Give Way	2
			Double Chevron	6
			Speed limit	10
			Map Type Direction	5
Janjeerwala Square	5- Arm Roundabout	22.72658, 75.881	Pedestrian crossing	5
			Roundabout Sign	5
			Flag Type Direction/Road Name	5
			Give Way	5
			Double Chevron	10
			Compulsory Left	5
			One-way Hazard Marker	5
			Speed limit	8
			Gantry	2
Gita Bhawan Square	4 Arm Junction	22.71841, 75.88429	Stack Type Direction Sign	2
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

			Flag type direction/Street Name	6
			Give Way	4
			Hazard Marker	4
			Compulsory left/Right	4
			Speed limit	10
			Stack Type Direction Sign	5
			Traffic Signal	5
			Roundabout Sign	5
			Flag type direction/Street Name	5
			Give Way	5
			Compulsory Left	5
			One way Hazard Marker	5
			Speed limit	8
			Stack Type Direction Sign	4
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	4
			Compulsory left/Right	4
			Speed limit	6
			Stack Type Direction	3
			T Road/Traffic Signal/Side Road Right/Side Road Left	3
			Flag type direction/Street Name	3
			Give Way	2
			Place Identification	2
			Speed limit	10
			Map Type Direction	5
			Pedestrian crossing	5

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

			Traffic Signal	5
			Flag type direction/Street Name	5
			Compulsory Left	5
			One way Hazard Marker	5
			Speed limit	8
			Gantry	2
			Stack Type Direction Sign	2
			Pedestrian crossing	4
			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	4
			Give Way	4
			Hazard Marker	4
			Compulsory left/Right	4
			Place Identification	1
			Speed limit	6
			Map Type Direction	3
			Stack Type Direction	2
			Roundabout Sign	3
			Flag type direction/Street Name	3
			Give Way	2
			Double Chevron	6
			Hazard Marker	6
			Compulsory left	6
			Speed limit	10
			Map Type Direction	5
			Pedestrian crossing	5
			Roundabout Sign	5
			Flag Type Direction/Road Name	5
			Give Way	5
			Double Chevron	10
			Compulsory Left	5
			One-way Hazard Marker	5
			Speed limit	8
			Gantry	4
			Pedestrian crossing	4

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

			Cross Road/Traffic Signal Ahead	4
			Flag type direction/Street Name	
			Give Way	4
			Hazard Marker	4
			Compulsory left/Right	4
			Place Identification	1

- (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 ISCDL.
- (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 ISCDL 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 ISCDL 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 ISCDL.
- (d) Smart Active & Static Information System on the city entry points shall be full length only i.e. triple/double column supported.

### **Technical Requirements**

Following are the Pre-qualification mandatory document requirement for road signage and road furniture in line with Ministry and IRC guidelines:

#### **Retro Reflective Road Signs**

1. The Contractor shall be original Manufacturer of the Retro Reflective sheeting and Road furniture or specifically certified Authorized Convertor /Applicator by 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 subsidy 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.

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

2. 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.

3. 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 black listing of contractor/ manufacturer.

4. 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. Night time color

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. 5. 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

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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At the end of 10 years the sheeting shall retain at least 80% of its original retro reflectance Values.

6. 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.

7. 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.

8. 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.

9. Bidder shall submit the sample of the retro - reflective board of size 12"x 12" written "INDORE" with black overlay on Type XI white retro reflective sheeting 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.

10. 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.

11. After completion of work the contractor shall submit Warranty certificate in original for ten years for completion of signboards as per requirement of IRC 67:2012.

12. 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 their placements obligations by the sheeting manufacturer as well as contractor for replacement/repairing/restoration of the retro reflective efficiency.

13. 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.

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

14. 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 for work so that accountability can be fixed for one bidder and its supporting manufacturer.

15. The tenderer should upload all the documents mentioned above during the bid submission, failing which their Bid would be disqualified.

16. Before payments, contractor needs to get the Reflectometer testing done at site for randomly selected boards at -4- & +30-degree entrance angle and 1-degree observation angle in line with MORTH and IRC 67 - 2012.

### **Road Safety Furniture:**

1. The Tenderer should mandatorily submit laboratory test certificates 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.

2. 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 an independent 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

3. A third-party test report (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

5. The bidder should furnish the international / Govt laboratory test report 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. Day Time Colour

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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6. The Tenderer should mandatorily submit an independent test laboratory certificate of having tested the solar raised pavement marker for compressive strength & flexural Strength in accordance to ASTM D 4280 as prescribed in MORTH Section 800.
7. The Tenderer should mandatorily submit an independent government test laboratory certificate of having tested the solar raised pavement marker for requirement of IP 65 in accordance with IS: 12063:1987.
8. The Solar Stud should have reflective lens along with LED with solar panel to provide both active and passive reflection/ visibility.
9. 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, Aluminium Flexible Prismatic, Delineator and one-year satisfactory field performance for Flexible Median Marker and Upload the same & submit along with Bid document/ submission.
10. After completion of work contractor shall submit 2-year manufacturer warranty for raised pavement marker/road stud, Solar Stud, Aluminium Flexible Prismatic Sheeting, Delineator and 1-year manufacturer warranty for flexible median marker as per requirement of MORTH.
11. After completion of work contractor shall submit 2-year warranty for raised pavement marker/road stud, Solar Stud as per requirement of MORTH.
13. A sample of the Twin Moulded shanks stud, AFP, solar stud, Delineator confirming to the specifications mentioned above shall be submitted by the contractor as a pre-qualification requirement.
14. 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 applicator/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.
15. A conformance certificate from the Sheeting and Road furniture Manufacturer stating that the all product supplied 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.
16. The tenderer should upload all the documents mentioned above during the bid Submission, failing which their Bid would be disqualified.



**SECTION III**  
**FORMATS FOR BIDSUBMISSION**

# **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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## **ANNEXE - 1 - COVERING LETTER**

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

Dated: .....

**To,  
CEO, ISCDL  
Indore, Madhya Pradesh**

**Subject: Submission of Bid for “Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission”.**

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 ISCDL. 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 ISCDL or its Authorized Representative for carrying out the inspection of works, operations and performance, then ISCDL 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 ISCDL as per the RFP.

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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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 fulfil any of the conditions mentioned at above, ISCDL 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 ISCDL 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 ISCDL 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 ISCDL 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 \_\_\_\_\_ 2018

\_\_\_\_\_ (Signature)

\_\_\_\_\_ (Name of the person)

\_\_\_\_\_ (In the capacity of)

(Name of firm) \_\_\_\_\_ Company Seal \_\_\_\_\_

**Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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**ANNEXE - 2 — PROJECT UNDERTAKING  
(On the Letter Head of the Bidder)**

Date ----

**To,  
CEO, ISCDL  
INDORE, Madhya Pradesh**

**Subject: Submission of Bid for “Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission”.**

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

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 this .....Day of ..... 2018

Name of the Bidder

Signature of the Authorized Person

Name of the Authorized Person

**TECHNICAL PROPOSAL FORMATS**

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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

**Date:**

**To,**

**CEO, ISCDL  
Indore, Madhya Pradesh**

**Subject: Submission of Bid for “Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission”.**

Respected Sir,

As a part of the Bid for “Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission” 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 ISCDL 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)**

# **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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

**Date:**

**To,  
CEO, ISCDL  
Indore, 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 on Percentage Rate Contract Basis under the Smart City Mission”**.

2. ISCDL 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) ISCDL reserves the right to reject or accept any Application, cancel the qualification process, and reject all Applications; and
- c) ISCDL 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:**

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

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### 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 ISCDL is not provided by the bidder in the forms/formats provided above, ISCDL 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.***



**Infrastructure upgradation and improvement for commuter safety on  
Percentage Rate Contract Basis under the Smart City Mission**

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**ANNEXE – 6  
FORMAT FOR BANK GUARANTEE FOR EMD**

**Deleted**

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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### **ANNEXE - 7 - GENERAL INFORMATION**

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

<b>Sr. No</b>	<b>Description</b>	<b>Details</b>
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.

# **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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## **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 **Appointment of Agency for Survey, Design, Fabrication, Supply, Installation, Maintenance of Active & Static Information System including ancillary/support infrastructure on Percentage Rate Contract Basis on Various Roads in Indore (Madhya Pradesh) Under the Smart City Mission**, including signing and submission of all documents and providing information/responses to ISCDL, representing us in all matters before Government of Madhya Pradesh, and generally dealing with ISCDL 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

(Name, Title and Address)

I Accept

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.

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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

**Date:**

**To,  
CEO, ISCDL  
Indore, Madhya Pradesh**

**Re: "Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission"**

We have read and understood the RFP Document in respect of the captioned Project provided to us by ISCDL.

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 ISCDL, 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 \_\_\_\_\_, 2019.

Name of the Contractor

\_\_\_\_\_

Signature of the Authorized Person

\_\_\_\_\_

Name of the Authorized Person

## **Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

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### **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 Indore 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 ISCDL from participating in any projects of BOT or otherwise or have never defaulted any tax and duties of ISCDL.

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 ISCDL 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 ISCDL.

Signed by an authorized officer of the firm

Designation of officer Name

of Firm

Date

**Infrastructure upgradation and improvement for commuter safety on  
Percentage Rate Contract Basis under the Smart City Mission**

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

**Date:**

**To,  
CEO, ISCDL  
Indore, Madhya Pradesh**

**Subject: Submission of Samples against “Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission”**

Respected Sir,

As a part of the Bid for “Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission” we hereby submitting the samples of Proposed Retro reflective media. 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)

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

### ANNEXURE - 12 – BILL OF MATERIAL

### SCHEDULE OF QUANTITIES

**Name of Work :- Infrastructure upgradation and improvement for commuter safety on  
Percentage Rate Contract Basis under the Smart City Mission**

S.No.	UADD SOR/ NON SOR Item No.	Description	Unit	Quantity	Rate, Rs .	Amount, Rs.
1	2.8.1 Vol-II	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.-All kinds of soil	CuM	2000	116.1	232200.0
2	5.31 Vol-II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.	CuM	500	4720.5	2360250.0
3	20.1.1 Vol-II	Centering and shuttering including strutting, propping etc. and removal of form for: Foundations, footings, bases of columns, etc. For mass concrete.	SqM	5000	124.2	621000.0
4	10.2 Vol-II	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	Kg	100000	55.8	5580000.0
5	10.16.1 Vol-II	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete. - Hot finished welded type tubes.	Kg	300000	74.7	22410000.0

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

6	5.20.6 Vol-II	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.-Thermo-Mechanically Treated bars.	Kg	35000	54.0	1890000.0
7	13.52.1 Vol-II	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.-On steel work.	SqM	32000	86.4	2764800.0
8	Non SOR	Design, manufacturing and assembly of retro reflectice sign face (measured in Sq. or rectangular shape) made from micro prismatic Type XI sheeting as per ASTM D-4956-09 pasted on 4mm thick ACP/ ACM. Inks used for printing letters/ legends/ directions/ theme shall be certified for low volatile organic compound (VOC) emission conforming to UL 2801 standards (Standard for Sustaiability of printing inks). The same is to be issued before tendering/ product installation along with Ecologo certificate or equivalent certificate conforming to UL 2801 standards by retro reflective sheeting manufacturer who have recommanded the printing platform on behalf of ink manufacturer.	SqM	12500	8450.0	105625000.0
9	Non SOR	Design, manufacturing and assembly of retro reflectice sign face (measured in Sq. or rectangular shape) made from micro prismatic Type XI sheeting as per ASTM D-4956-09 pasted on 4mm thick ACP/ ACM. The letters/ legends/ directions etc. shall be cut out from electro cut film which is pasted over base white Type XI sheeting.	SqM	3000	8450.0	25350000.0
10	Non SOR	Providing and fixing 4 mm thick aluminum composite panel material consisting of 3 mm thick FR grade mineral core sandwiched between two aluminum sheets (each 0.5mm thick)	SqM	12500	3800.0	47500000.0



## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

11	8.12 Vol III	<p><b>Road Delineators-</b> Supplying and installation road delineators (road way indicators), as per MORT&amp;H Clause 506. The structure shall be made in roll forming process having height of 80-100 cm above the ground level, width not less than 100 mm and shall extend not more than 300mm below the ground while being installed, buried or pressed in to the ground in confirmation with IRC:79: 1981, or as directed by the Engineer, painted black with powder coat of minimum 40 microns thickness for protection against corrosion, on top of which Type XI retro reflective sheeting shall be pasted on both sides complying to IRC:79:1981. The delineator should consist of minimum retro reflective unit exposed area of 330 cm<sup>2</sup> white color, full cube corner micro prismatic non-metallic retro reflective sheeting on each side conforming with IRC 67:2012 and meeting the coefficient of retro reflection values as per ASTM D 4956 Type XI table specification. The delineator shall have grooves across the length to make the reflective sheets Vandal- proof.</p>	Each	14500	1123.2	16286400.0
12	Non SOR	<p><b>Flexible Median Marker-</b> Providing and Fixing of Flexible Median Markers which shall be made of moulded thermoplastic body along with florescent yellow color retro-reflective type XI sheeting with minimum exposed reflective area 285 square mm and with rebound property. The reflective sheeting should confirm to Type XI Florescent Yellow sheeting as per IRC 67 2012 and ASTM D4956-09. The flexible median marker shall have overall height of minimum 180 mm, body thickness of minimum 2mm and shank depth of minimum 30mm. The retro-reflective sheeting shall be on both sides of the Flexible Median Marker and shall be edge protected with no exposed edges which will prevent edge lifting, vandalism, sheeting damage, etc. The edge of sheeting should not come out easily by putting nails, sharp objects etc. The logo of the manufacturer shall be embossed on either side of the body. The plastics used for the molding the flexible median marker shall have a minimum notched Izod Impact strength value of 4.11J/cm (@thickness 3.17mm) at room temperature, tested in accordance with ASTM D256. The product design has to with stand all natural impacts and should not get damaged if any pedestrian stamp on top of it intentionally or unintentionally. The product should bend up to 90 degree on both sides without breakage or damage. The product shall be provided with 3 year outdoor weathering report as per ASTM &amp; IRC Standards &amp; shall be warranted by original retro reflective manufacturer with 1 year replacement warranty.</p>	Each	24000	350.0	8400000.0

**Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission**

13	Non SOR	<p><b>Solar Raised Pavement Marker</b>-The solar cat eye shall be produced from an engineered polymer plastic selected for superior impact resistance and weather-ability. The top of the marker should be transparent for solar charging and light output in active mode. The base of the body shall be yellow or neutral white as approved by Engineer In-charge. The marker shall incorporate a solar panel, and a light tube designed for providing 360 degree uniform smooth illumination. The marker shall also have high reflective plastic lenses for conspicuity in passive mode and dual shanks for improved road presence. These markers are intended for application directly onto pavement surfaces and shall be applied with epoxy resin adhesives designed for use with raised pavement markers and as supplied by the marker manufacturer separately. The solar cat eye shall be of height: 65 ± 2 mm &amp; Maximum Diameter: 136 ± 4 mm. The body of the solar cat eye shall be resistant to dust and water ingress as per IP 68 standard. The marker shall support compressive strength of 13635 Kg tested in accordance with ASTM D4280. The solar shall be warranted with 1 year replacement warranty. The solar stud shall be supplied along with compressive strength test report of 13,635 Kg and water ingress test of IP 68 .</p>	Each	3500	2300.0	8050000.0
14	8.20 Vol-III	<p><b>Road Markers/Road Stud with Lense Reflector -</b> Providing and fixing single mould twin shanked molded road markers/road stud made of poly carbonate or ABS body and shall support a load of 13635 kg tested in accordance to ASTM D 4280 and complying to specifications of sections 5 of IRC: 35:2015 and clause 804 of MORTH. As per clause 804.2.2 of MORTH and section 5 of IRC:35-2015 The reflecting panels shall consist of number of lenses containing single or dual prismatic cubes capable of providing total internal reflection of the light entering the lense face the slope or retro-reflecting surface should be 35 +/-5 degree to base. The reflective marker shall be fixed to the road surface using the epoxy/ adhesives and the procedure recommended by the manufacturer. No nails shall be used to affix the markers so that they do not pose safety hazard on the road. The contractor shall submit a two-year replacement warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel.</p>	Each	120000	527.4	63288000.0

## Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

15	Non SOR	<p><b>Aluminium Flexible Prismatic sheeting</b> - Providing and fixing Aluminum-backed flexible prismatic sheeting consisting of yellow colored flexible prismatic sheeting with non-metallic prismatic lens as retro reflective elements and conforming to ASTM D 4956-09 Type VI specification values for reboundable sheeting. AFP sheeting shall be of 1ft width and laminated at the back with a 50 micron thick Aluminum (Al) foil with pressure sensitive adhesive and liner. AFP sheeting shall have screen printed arrow/slant line pattern in black color on top &amp; shall not crack when tested for flexibility as per section S2.2.2 of ASTM D 4956-09. The AFP sheeting shall be applied with a neoprene contact adhesive with Polychloroprene as base &amp; the edges of the product shall be sealed all around with a two-part epoxy based structural adhesive and shall be extremely resistant to peel-off &amp; shall confirm to IRC Accreditation. The AFP shall be provided with govt test report from ARAI/ CRR I and report confirming to coefficient of retro reflection, Flexibility and impact resistance test as per ASTM which shall be submitted to engineer-in-charge before installation/ award of work.</p>	SqM	930	9500.0	8835000.0
16	Non SOR	<p>Providing and fixing of single sided 2.84 m x 1.92 m Full color (RGB) Smart Variable Message Board as per technical specifications with 10mm Pitch Including Installation, Testing and Commissioning , Hardware software integration .</p>	Each	30	2700000	81000000.0
<b>TOTAL, Rs.</b>						<b>400192650.0</b>
<b>Say</b>						<b>Rs. 40.0 Cr.</b>

- Note:
1. Quantity of any item can be increased or decreased as per requirement at site.
  2. If any item is not included in BOQ and required at site, then payment will made as per MPUADD SOR.(10.5.2012) including quoted percentage.
  3. GST shall be paid extra as applicable.

# Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission

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

CEO , ISCDL

Indore, Madhya Pradesh-

**Subject: Submission of Commercial Bid for Infrastructure upgradation and improvement for commuter safety on Percentage Rate Contract Basis under the Smart City Mission.**

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 ., ISCDL.

I/We hereby bid for the execution of the above work within the time specified at the rate percentage(in figures)\_\_\_\_\_ (in words)\_\_\_\_\_ percent (%) below/ above or at par based on the Bill of Quantities and percentage 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 fulfil 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. Only one rate of percentage above or below or at par based on the Bill of Quantities and not item wise rates given therein shall be quoted.
- II. Percentage 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.
- III. In case the percentage "above" or "below" is not given by a bidder, his bid shall be treated as non-responsive.
- IV. All duties, taxes, and other levies payable by the bidder shall be inclusive in the percentage quoted by the bidder. GST shall be paid extra as applicable

Signature of Bidder, Name of Bidder

