**Expression of interest for**

“**Selection of an agency for “Design and Development of 3D City Model using GIS and Modern aerial Data acquisition Techniques” for Jabalpur**

**Jabalpur Smart City Limited (JSCL)**

**Manas Bhawan, Wright Town Jabalpur**

**Key Dates:-**

|  |  |  |
| --- | --- | --- |
| Last date (deadline) for EoI response | a. Feedback & suggestions in response to the EOI, should be submitted online on [www.mpenders.gov.in](http://www.mpenders.gov.in) Latest by 02/10/2019 up to 15:00 hrs.b. Hard copy of the responses (duly signed) through Speed Post or Courier or in person. Latest by 04/10/2019 up to 15:00 hrs. at the following address: CEO Jabalpur smart city limited, mans bhawan , Wright town Jabalpur-482001. |  |
| Presentation cum POC | 04-10-2019 at 12.00 |  |
| Website to download EoI | [www.mptenders.gov.in](http://www.mptenders.gov.in)[www.jscljabalpur.org](http://www.jscljabalpur.org) |  |
| Document cost | 2000.00 |  |

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# 1. Introduction

## 1.1 Background

Jabalpur is among the first 20 cities selected in first round of smart cities challenge under Government of India’s (GoI) Smart Cities Mission (SCM) to implement the smart city proposal (SCP). In this context, Jabalpur has incorporated a special purpose vehicle (SPV) – Jabalpur Smart City Limited (JSCL) to plan, design, implement, coordinate and monitor the smart city projects in Jabalpur. JSCL is a company incorporated under Indian Companies Act 2013 with equal shareholding from Madhya Pradesh Urban Development Company Limited (MPUDCL) on behalf of Government of Madhya Pradesh (GoMP) and Jabalpur Municipal Corporation (JMC).

Jabalpur's Area Based Development (ABD) relies on a financially robust and sustainable, Retrofit cum Redevelopment 'Hub and Spoke' model in Wright and Napier Town (743 Acres). It smartly interlinks existing strategic urban spaces to regenerate its Central Business District (CBD) and create plug-and-play infrastructure. It focuses on creating dense, compact, mixed use parcels with vibrant streets and safe public spaces for enhanced social interactions. The transformation attempts to unlock a new growth axis and series of cultural (Gol Bazar, Bhanvartal), economic (Civic Center) and environmental hubs (Ranital lake) to serve as community destinations for the entire city. The area's existing British town planning will be invigorated with a layer of improved infrastructure (roads, signages, lighting, smart metering for water services and RFIDs for waste collection points). It will also incorporate context-sensitive regulations like zoning restrictions, building heights, reconfiguration of marginal spaces and guidance for parking, facades and transit methods.

As a part of its endeavor to meet the vision of Jabalpur Smart City Project, JSCL has decided to engage a competent bidder/ agency to improve, support and strengthen the image of Jabalpur Smart City project as a premier smart city by assisting the JSCL’s public relations activities including print and broadcast advertising, publication production, and special events promotions; assist in establishing and maintaining a consistent image for Jabalpur Smart City Project; assist in achieving marketing objectives; and perform related work as required to realise the vision of Jabalpur Smart City (“Project”).

# 2. Scope of Work :-

Requirements mentioned in this EOI are indicative only and written purely for the purpose of making the Bidders able to estimate its efforts and costs required to achieve project objectives successfully.

**Successful Bidder/System Integrator is supposed to:**

1. Establishing Virtual 3D City for Jabalpur with LOD up to 3 models and 3d/2d base maps with mapping all the key point of interests ( Hospitals, Police Station, Malls, Parks, Bus Station, Railway Station, Road Network, Secretariat Buildings etc.,).
2. Acquisition of Stereo images from multiple angle , Nadir, oblique horizontal using Drone Technology (2cm – 3cm Ground Sampling Distance (GSD) or better resolution)
3. Performing Image processing and ortho-rectification, seam line editing, colour balancing for images acquired from Drone Technology.
4. Creation of 3D City maps and models of Jabalpur city contains all physical features exist on field and captured in UAV images by using stereo photogrammetric techniques. The resolution would be better than 10 cm.
5. Create a detailed 3D GIS base map through digitization of stereo images acquired from Drone Technology using stereo photogrammetric software and workstations.
6. Undertaking LiDAR (Light Detection and Ranging) survey where ever required to achieve the desired accuracy(5-10 cm horizontal and 15 to 20 cm vertical ) of data sets.
7. Integrate and update all the Property surveyed data available with the Authority. For updation of property data bidders would conduct field survey where ever it required.
8. Conduct geo-enabled field survey using mobile / handheld device (to be arranged by the successful bidder at no additional cost) for faster, transparent and better updation/new survey of Buildings Footprints / Property details, trees, poles, signage boards, signals, and other features that captured from orthoimages.
9. Suvey and 3d Mapping of underground and over ground utilities like water , swage, electricity, telecom etc.
10. Supply and commissioned the complete 3D City GIS platforms that contains the all 3d and 2d surveyed data as well as data exist in JMC and JSCL.
11. Perform various analysis like 3d analysis, network analysis, spatial analaysis, geotagging, geocoding, simulation based analysis, heat map, etc
12. Develop use cases for various deptt like urban planning, pwd, light, water , health, transport, Designing Workflow based Approval System.
13. Integrate other available web based 2d GIS system with 3d City GIS platform to incorporate the integrated data with visualization tool to display attribute and spatial data.
14. Seamless Integration with full analytic facility with ICCC (integrated command and control centre ) is bidders responsibility.
15. Capacity Building and Training Programs for Authority Officials
16. Provide handholding support to the identified users
17. Provide required technical support to integrate with ICCC and other Smart City Solutions.

**3. Coverage area:-**

Jabalpur municipal corporation covers about 264 sq km area. And around 1500 line km of roads . the entire area of JMC should be cover in this scope.

This works includes but not limited to mapping and data integration comes from Aerial survey, lidar survey, under ground utility survey household survey, asset survey etc .

**4. General Information:-**

The minimum eligibility criteria to participate in this EOI are mentioned below:-

The participantsshould be a company registered under Indian Companies Act, 1956 /2013

The bidders should have not blacklisted (should submit the certificate)

The participants have experience of similar type of the projects . the details are mentioned in **Experience:**

|  |  |  |
| --- | --- | --- |
| S.no | perticular |  |
| 1 | The participants **(lead bidder and consortium )** should be a company registered under Indian Companies Act, 1956 /2013 | Document should be attaced |
| 2 | The participants(**lead bidder)** should have at least average turnover of INR 50 (Fifty Crores) in the last three years. | Document should be attaced |
| 3 | The participants (**(lead bidder or consortium )** have experience of similar type of the projects executions includes 1.3d city mapping using drone/satellite images2. Supply installation and commissioning/development and customisation of 3D City Plateform for any State/Central Govt/PSU/ULB or any govt body. | Document should be attaced |
|  |  |  |

The right to accept/reject any or all the responses received is reserved with JSCL without assigning any reason thereof. Jabalpur Smart City Limited.

Instructions to Applicants:-

JSCL invites reputed firms to submit their proposals for the Project for JSCL in accordance with conditions and manner prescribed in this Expression of Interest (EoI) document. No Applicant shall submit more than one EoI.

**5. Concept Note:-**

The participants of the EoI are required to submit a short Concept Note (up to 30 pages) regarding their understanding of the Project Scope and their proposal, which is in best interest of JSCL.

 The Applicants should cover the following aspects in the Concept Note:

1. Solution details – components, platform, database, integration platform details
2. Approach & Methodology to implement the solution
3. Functional compliance of the proposed solution
4. Integration requirements
5. Compliances & certifications as per Industry standards
6. Case Studies of other client implementations biodiversity mapping solution
7. Learning’s from other client implementations
8. Facilitation required from JSCL / PMC in terms of RoW, relevant permissions etc. for the deployment of proposed solution

**6. Completeness of the EoI Response:-**

Applicants are advised to study all instructions, forms, terms, requirements and other information in the EoI documents carefully. Submission of bid shall be deemed to have been done after careful study and examination of the EoI document with full understanding of its implications. The response to this EoI should be full and complete in all respects. Failure to furnish all information required by the EoI document or submission of a proposal not substantially responsive to the EoI documents in every respect will be at the Applicant's risk and may result in rejection of their proposal. The EoI Document can be downloaded from the website [www.mptenders.gov.in](http://www.mptenders.gov.in) or [www.jscljabalpur.org](http://www.jscljabalpur.org) up to the date and time mentioned in the EoI Notice

**7. EoI Preparation Cost:-**

The Applicant is responsible for all costs incurred in connection with participation in this 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 JSCL to facilitate the evaluation process. JSCL will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process. All materials submitted by the Applicant shall become the property of the JSCL and may be returned at its sole discretion.

**8.Sealing, marking and submission of EoI :-**

The Application should be submitted through Email and Postal (Speed Post or Courier) or in person, so as to reach on or before **4/10/201**9 up to 15:00 hrs at JSCL office (manas bhawan, wright town jabalpur -482001). JSCL won’t be responsible for any postal delays.

The Application including supporting documents and its duplicate shall be typed or written in inedible ink and the Applicant shall initial each page. All the alterations, omissions, additions, or any other amendments made to the Applicant shall be initialled by the Authorised Signatory of the Applicant.

Applicant should fill in information in prescribed formats for qualification as mentioned in the EoI Document.

The Applicants shall submit all supporting documents in the format as prescribed in the EoI Document along with suggested documentary evidence with the Application.

 The Application shall include the following requisite documents and necessary supporting documents as specified in Appendix A to G, each envelope should contain –

a. Cover Letter as per format A\_1

b. Details of Applicant as per format A\_

c. Details of Relevant Experience as per format A\_3

d. . Declaration – No Blacklisting as per format A\_4

Applicants should submit the EoI including the information requested in the prescribed formats along with any supporting documents in a envelope marked “**Selection of an agency for “Design and Development of 3D City Model using GIS and Modern aerial Data acquisition Techniques” for Jabalpur**”.

The submission should be signed by an authorized person holding the power of attorney in case of limited company or corporation. A certified copy of the power of attorney shall accompany the EoI. Proposals must be direct, concise, and complete. JSCL will evaluate Applicant’s proposal based on its clarity and completeness of its response to the requirements of the project as outlined in this EoI. The CEO, JSCL reserves the right to accept or reject any or all the proposals without assigning any reason.

1. **Late Submission of Proposal for EoI:-**

EoI response not reaching on or before the specified time limit will not be accepted. However, JSCL in its absolute discretion and prerogative may allow late Applications submitted by the Applicants by according proper reasons therefore.

1. **Language of Bids:-**

The responses prepared by the Applicant and all correspondence and documents relating to the bids exchanged by the Applicant and JSCL, shall be written in English language. Any printed literature furnished by the Applicant in another language shall be accompanied by an English translation, in which case, for purposes of interpretation of the bid, the English translation shall govern. If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the Applicant.

1. **Evaluation of EoI:-**

All the information provided will be will be considered for the purpose of inclusion in the RFP to be floated in the later stage. JSCL may optionally invite Applicants to make a presentation as part of the evaluation. The feedback received will be evaluated may be considered for designing the actual RFP.

JSCL may require verbal/written clarifications from the Applicants to clarify ambiguities and uncertainties arising out of the information submitted.

1. **Key Suggestions:-**

Workable comments and suggestions on the Scope of Work of this EoI that could overall improve the quality/effectiveness of this project shall be considered by JSCL at its own discretion.

1. **No obligation to issue of RFP:-**

JSCL shall be under no obligation to issue a Request for Proposal (RFP) for the Project described in this EoI Document

1. **Right to cancel the EoI Process:-**

JSCL may cancel this EoI process at any stage without assigning any reasons whatsoever and will not be liable to compensate any Applicant on any grounds whatsoever. The Applicants shall not be entitled to refund of cost of documents or other costs in case the EoI is cancelled for whatsoever reason or without assigning any reason.

1. **Specific formats for the Applicants to fill in the details**

**Format A\_1: Cover Letter**

[To be printed on the Applicant company’s letterhead and signed by its Authorized signatory]

To,

The CEO JSCL,

Manas Bhawan

Wright Town

jabalpur

 Sub.: Submission towards Expression of Interest (“EoI”) for “**Selection of an agency for “Design and Development of 3D City Model using GIS and Modern aerial Data acquisition Techniques” for Jabalpur**”.

Dear Sir/ Madam,

Having examined the EoI, the receipt of which is hereby duly acknowledged, I/We offer to submit the EoI for the Project. We agree and understand that this EoI is non-binding and non-committal. JSCL or its directors, employees, associates, affiliates or its agents shall not be liable to me/us for any liability arising directly or indirectly from our participation in the EOI Process.

We further agree, understand and fully comprehend that JSCL have absolute and exclusive discretion at any time change, alter, replace, remove and/or cancel any or all part of the EoI Document or the Project. JSCL may also abandon, call-off, alter, replace, revise the Project. Furthermore, JSCL is under no obligation or compulsion in any manner whatsoever to release or publish the RFP, it may also change or replace or cancel any or all part of the bidding process. We submit hereto my/our EoI as per the requirements and details specified in the EoI Document. I/We confirm that the information contained in these submissions or any part thereof, including the appendices, and other documents and instruments delivered or to be delivered to JSCL, are true, accurate, verifiable and complete. These submissions include all information necessary to ensure that the statements therein do not in whole or in part mislead JSCL in its EoI Process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the EoI Process, I/we are liable to be disqualify from the EoI Process, if selected to do so.

We agree for unconditional acceptance of all the terms and conditions set out in the EoI Document and also agree to abide by this EoI for a period of 90 days from the date of submission. We agree that you are not bound to accept any EoI you may receive. I/We also agree that you reserve the right in absolute sense to reject all or any of the EoI received as per the EoI Document and Advertisement.

It is hereby confirmed that I/We am/are entitled to act on behalf of my/our firm and empowered to submit this document as well as such other documents, which may be required in this connection.

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Signature of Authorized Signatory (with official stamp)

Name of Authorised Signatory:

 Designation of Authorised Signatory:

**Format A\_2: Details of Applicant**

[To be printed on the Applicant company’s letterhead and signed by its Authorized signatory]

To,

The CEO,JSCL

Manas Bhawan

Wright Town

Jabalpur

Dear Sir/ Madam,

Enclosed are the details of Applicant for participation in the EoI for “**Selection of an agency for “Design and Development of 3D City Model using GIS and Modern aerial Data acquisition Techniques” for Jabalpur**”.

|  |  |  |
| --- | --- | --- |
| **S.No** | **Particulars** | **Details** |
| 1 | Name of the Applicant / Lead Member along with all other members of the Consortium |  |
| 2 | Type of Firm (Private Limited/ Public Limited company/ LLP/ Partnership/ HUF/ Foreign Incorporated Entity) |  |
| 3 | Country of registered Office of the Applicant |  |
| 4 | Address of registered office of the Applicant |  |
| 5 | Company registration details/number |  |
| 6 | Name and permanent address of all directors of the Firm |  |
| 7 | Date of incorporation of the Firm |  |
| 8 | GST registration number (mandatory for Indian Firms) |  |
| 9 | Details of Certificate of CMMI Level 3 / ISO 9000-3 Company or any other equivalent certificate (if any) |  |
| 10 | PAN (mandatory for Indian Firms) |  |
| 11 | TAN (mandatory for Indian Firms) |  |
| 12 | No. of years of operations in India (mandatory for Indian Firms) |  |
| 13 | Authorized signatory name |  |
| 14 | Authorized signatory designation |  |
| 15 | Authorized signatory contact details |  |

The below mentioned annexure (as applicable) have been attached for the Applicant to further demonstrate that that the Applicant has been operational at least for five (5) years preceding the EoI Due Date:

a)Certificate of Incorporation/Registration

b) Memorandum and Articles of Association

c) Certificate as per Shops & Establishments Act

d) GST Registration Certificate (mandatory for Indian Firms)

e) PAN Card (mandatory for Indian Firms)

Yours sincerely,

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of Authorized Signatory (with official stamp)

Name of Authorised Signatory:

 Designation of Authorised Signatory:

**Format A\_3: Details of relevant experience**

[To be printed on the Applicant company’s letterhead and signed by its Authorized signatory]

To,

The CEO,JSCL

Manas Bhawan

Wright Town

Jabalpur

Dear Sir/ Madam,

 We have carefully gone through the requirements and conditions of eligibility specified in the EoI Document for EoI for “**Selection of an agency for “Design and Development of 3D City Model using GIS and Modern aerial Data acquisition Techniques” for Jabalpur**”.

|  |  |
| --- | --- |
|  |  |
| Project Title |  |
| Client for which the project was executed |  |
| Name of the client contact person(s) |  |
| Designation of client contact person(s) |  |
| Contact details of the client contact person(s) |  |
| Duration of the project (number of months, start date, completion date, current status) |  |
| Project Cost |  |
| Supporting Documents: (Work Order/ Definitive Agreement/ Letter of Award or Letter of Intent) |  |

I/We hereby declare that below are the details regarding the Projects that have been taken up and successfully demonstrated by my/our Firm.

I /We further certify that I/We am/are authorized officer in my/our Firm to make this declaration.

Yours sincerely,

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of Authorized Signatory (with official stamp)

Name of Authorised Signatory:

 Designation of Authorised Signatory:

**Format A\_4: Declaration – No Blacklisting**

[To be printed on the Applicant company’s letterhead and signed by its Authorized Signatory]

To,

The CEO,JSCL

Manas Bhawan

Wright Town

Jabalpur

Dear Sir/ Madam,

 In response to the EoI Reference No. JSCL/…….. dated [……… ] for EoI for ““**Selection of an agency for “Design and Development of 3D City Model using GIS and Modern aerial Data acquisition Techniques” for Jabalpur**”.”, as an owner/ partner/ Director of , I/ We hereby declare that presently our firm [……………………………] is having unblemished record and is not declared ineligible for corrupt and fraudulent practices either indefinitely or for a particular period of time by the any Municipal Corporation and/or the Government of India and/or any State Government in the last 3 (three) preceding financial years from 2018-19.

 I/We further declare that presently our Firm (name of the Firm) is not blacklisted and not declared ineligible for reasons other than corrupt and fraudulent practices by any State/ Central Government/ PSU on the date of Application Submission.

If this declaration is found to be incorrect then without prejudice to any other action my/our application may be rejected and PSCDCL may take any other action that may deem fit to it.

Yours sincerely,

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of Authorized Signatory (with official stamp)

Name of Authorised Signatory:

 Designation of Authorised Signatory: