Invitation for presentation on “The use of Blockchain Technology for management of Land Records”.

Commissioner Land Records & Settlement
Moti Mahal, Gwalior, MP - 474007

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“Invitation for presentation on “The use of Blockchain Technology for management of Land Records”

CLR invites for presentation on Blockchain from qualified and experienced firms.

Interested vendors who qualify as per the criteria mentioned in the document may submit their response to procurement.clr@mp.gov.in latest by 04 March 2019 5 pm.

The detailed invitation document can be downloaded from our website http://landrecords.mp.gov.in

(Commissioner, Land Records)
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## Acronyms

<table>
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<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>CLR</td>
<td>Office of Commissioner Land Records and Settlement</td>
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<tr>
<td>GoMP</td>
<td>Government of Madhya Pradesh</td>
</tr>
<tr>
<td>HO</td>
<td>Head Office</td>
</tr>
<tr>
<td>IT</td>
<td>Information Technology</td>
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</tbody>
</table>
CHAPTER - 1

1.1 Information Provided
Office of Commissioner of Land Records and Settlement, Revenue Department, Madhya Pradesh is considering use of Blockchain technology for the management of land records. In this regard, the office of Commissioner of Land Records and Settlement invites organizations to give a presentation and demonstrate their capabilities in Blockchain and their understanding of its use in Land records management.

1.2 Disclaimer
Subject to any law of the country, and to the maximum extent permitted by law, CLR and its officers, employees, contractors, agents, and advisers disclaim all liability from any loss or damage (whether foreseeable or not) suffered by any person acting on or refraining from acting because of any information, including forecasts, statements, estimates, or projections contained in presentation document or conduct ancillary to it whether or not the loss or damage arises in connection with any negligence, omission, default, lack of care or misrepresentation on the part of CLR or any of its officers, employees, contractors, agents, or advisers.

1.3 No Legal Relationship
No binding legal relationship will exist between any of the Recipients / Respondents / Participant and CLR.
CHAPTER – 2

Office of Commissioner of Land Records and Settlement invites organizations to give a presentation and demonstrate their capabilities in Blockchain technology.

2.1 Overview
In India, the value of ownership recorded in land records has “presumptive value” for title. As a consequence all transactions related to land carry the risk of being struck down by a court of law. This has necessitated a cumbersome process of verification of the quality of ownership of the seller and the attributes of the land intended to be purchased by the buyer. Transition to a system of conclusive titles requires credible dispute free description of land related attributes – ownership, area, shape and location of the land parcel and a secure system to manage the information.

Blockchain technology provides a secure system for managing data due to its use of cryptography, append only nature of the database and distributed architecture of the database. Furthermore it provides greater control over data by a community, as against their reliance on trusted third parties. For the above reasons, blockchain technology is increasingly been adopted in areas where trusted third parties have been considered as essential, significantly improving the control of individuals over their data in those systems (such as currency, supply chains etc.). Land records is one such area where adoption of blockchain technology would improve the security of data and provide the owners (of land) greater control over the data related to the land over which they have rights.

2.2 Objectives
An attempt is being made by Government of Madhya Pradesh to transition from a presumptive to a conclusive title based system.

Blockchain technology can help to create a ledger which acts as a ‘single source of truth’ for land records. Blockchain technology may help create a system for managing land records in a more secure immutable and tamperproof manner. Government of MP is mulling development of a Blockchain technology based system for land record management.

Government of Madhya Pradesh is planning to engage an SI to design, develop, test, deploy and maintain Blockchain based land records management system. In this regards, office of Commissioner of Land Records and Settlement invites organizations for a presentation and to demonstrate their capabilities in Blockchain technology. Format for the presentations has been given in chapter 3 below.
Following is an indicative high level scope of work of the SI:

- Implementation of Blockchain Based application for Land Records Management
- Data migration of current digitized records to a Blockchain ledger
- Integration with existing systems
- Pilot roll-out of the application
- Large Scale roll-out
- Operations and Maintenance for 5 years

Chapter -3: Presentation Requirement

3.1 Format of the Presentation

Presentation should cover the following aspects:

- About the organization (1 minute to present this section)
  - Year Founded
  - Years of experience in Blockchain
  - Size of the organization (Average Turnover from IT services in last 3 financial years viz. FY 2015-16, FY 2016-17, FY 2017-18)
  - Number of Blockchain resources
  - Experience of Blockchain Implementations, if any (including project value in INR)
  - Experience in Land Records Management, if any (including project value in INR)
  - Implementation certifications (CMMI level, ISO etc.)

- Technical Capabilities (7 minute to present this section)
  - Blockchain projects undertaken by the organization
    - Roles and Responsibilities in the project
    - Problem Statement of the engagement
    - Blockchain solution. Platform used for development, consensus mechanism.
    - Aspects such as Node design, Methodology for identity management of network members, cloud vs on-premise implementation
    - Outcome of the engagement
    - Status of the engagement

- Present use case on ‘Land Records Management over Blockchain’ and answer the questions (7 minute to present this section)
  - Blockchain Advantage/suitability for Land Records Management. Discuss why Blockchain and not alternate technology for land record management
  - High level Functional and technical solution
  - Proposed Technology options such as Blockchain protocol and consensus mechanism. Provide reason for selection.
  - Security Considerations
o Identity Management (Bearing in mind the end users are land owners across the state)

**Note:** Participation of Blockchain subject matter expert/Blockchain Architect is mandatory for the presentation.

### 3.2 Presentation Duration

Each organization would be given 15 minutes to present followed by 10 minutes of question and answers.

### Chapter 4: Eligibility Criteria

- The Vendor should be a company registered under the Indian Companies Act, 1956 / 2003 OR a Government organization OR any international organization involved into work of similar nature. Appropriate certificate should be furnished as documentary proof.

- Experience of implementing at least 1 Blockchain solution for a client in past 3 years.

### 4. General

1. 

2. This is an ‘invitation to present’ organization capabilities. This ‘invitation to present’ should not be considered as an ‘expression of interest’ or a request for proposal. No discussion on financial proposal will be allowed at the event.

3. CLR reserves the right to examine / verify the supportive documents / reports furnished by the presenters.

4. CLR would constitute an evaluation committee to evaluate the responses in detail in order to determine whether they are substantially responsive to the requirements set forth. The decision taken by the committee in this regard is final and binding on all.

5. CLR shall shortlist the vendors based on the requirements and the responses submitted. CLR reserves the right to call only short listed vendors for a presentation on the date and time decided by CLR. The decision taken by the CLR in this regard would be final and binding on all.

6. CLR may reject any or all the responses received / cancel the entire process at any stage without assigning any reason whatsoever.
7. Notwithstanding anything contained herein above, in case of any dispute, claim and legal action arising out of this presentations, the parties shall be subject to the jurisdiction of courts at Bhopal, Madhya Pradesh State, India only.

8. CLR shall not bear any cost to the participants towards this activity.

9. This invitation to presentation does not guarantee a subsequent procurement activity by GoMP or CLR for a blockchain based land records management system nor does it confer any right to the participants to require the CLR to engage in such activity.

10. This invitation to presentation does not guarantee any right to the participants in form of concessions, priority, scoping, technical specifications or procurement strategy in the subsequent procurement activity which the CLR intends to take up.

: Submission of Presentation

Companies qualifying as per the criteria mentioned above and who are interested in giving presentation as requested above may submit their response to procurement.clr@mp.gov.in as per formats given in annexure 1 along with other relevant documentary evidence latest by Monday, 04 March 2019 till 5 PM. Any response not containing information for all the parts of Annexure 1 may be rejected.
Annexure-1 Vendor Profile

It is mandatory for companies to fill and submit the below table in the email for acceptance of ‘invitation to present’.

<table>
<thead>
<tr>
<th>S/N</th>
<th>Particulars</th>
<th>Response</th>
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<tbody>
<tr>
<td>1</td>
<td>Company Name</td>
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<tr>
<td>2</td>
<td>Date of incorporation</td>
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<tr>
<td>3</td>
<td>Company Head Office Address</td>
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<tr>
<td>4</td>
<td>Registered office address</td>
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<tr>
<td>5</td>
<td>Contact person Name</td>
<td></td>
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<td>6</td>
<td>Address</td>
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<tr>
<td>7</td>
<td>Telephone no.</td>
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<td>e-mail ID</td>
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<td>11</td>
<td>Average Turnover from IT services in last 3 financial years (FY 2015-16, FY 2016-17, FY 2017-18)</td>
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<td>12</td>
<td>Number of Blockchain resources</td>
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<tr>
<td>13</td>
<td>Experience of Blockchain Implementations engagements (include a list of projects)</td>
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<tr>
<td>15</td>
<td>Implementation certifications (CMMI level, ISO etc.), If any</td>
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