MUNICIPAL ADMINISTRATION

COMMISSIONER AND DIRECTOR OF MUNICIPAL ADMINISTRATION

GOVT. OF AP

INVITES

REQUEST FOR PROPOSAL

FOR

"SELECTION OF SYSTEM INTEGRATOR FOR DEVELOPMENT, IMPLEMENTATION AND MAINTENANCE OF ENTERPRISE GIS SOLUTION FOR RESURVEY PROJECT (URBAN)"

Date: 05-01-2023

Commissioner& Director of Municipal Administration,
Prime Hill Crest, 4th Floor, Near DGP Office,
Vaddeswaram Village, Mangalagiri, Andhra Pradesh
Pincode: 522502

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Disclaimer

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This RFP is not an agreement and is neither an offer nor invitation by the Authority to the prospective Consultants or any other person. The purpose of this RFP is to provide interested Consultants with information that may be useful to them in the formulation of their Proposals pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by the Authority in relation to the Consultancy. Such assumptions, assessments and statements do not purport to contain all the information that each Consultant may require. This RFP may not be appropriate for all persons, and it is not possible for the Authority, its employees or advisors to consider the objectives, technical expertise and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in this RFP, may not be complete, accurate, adequate or correct. Each Consultant should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments and information contained in this RFP and obtain independent advice from appropriate sources.

Information provided in this RFP to the Consultants is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Authority accepts no responsibility for the accuracy or otherwise for any interpretation or opinion
on the law expressed herein.

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The Authority also accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance of any consultant upon the statements contained in this RFP.

The Authority 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 Authority is bound to select a consultant or to appoint the Selected Consultant, as the case may be, for the Consultancy and the Authority reserves the right to reject all or any of the Proposals without assigning any reasons whatsoever.

The Consultant 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 with any demonstrations or presentations which may be required by the Authority, or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses will remain with the Consultant and the Authority shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a consultant in preparation or submission of the Bid Proposal, regardless of the conduct or outcome of the Selection Process.

Abbreviations

API	Application Programming Interface
COTS	Commercial Off-The-Shelf
CDMA	Commissioner and Director of Municipal Administration
DIPP	Department of Industrial Policy and Promotion
DSC	Digital Signature Certificate
EMD	Earnest Money Deposit
FRS	Functional Requirement Specifications
FLR	Fair Land Records
GIS	Geographical Information System
GCC	General Contract Conditions
IT	Information Technology
ITIL	Information Technology Infrastructure Library
NDA	Non-Disclosure Agreement
OEM	Original Equipment Manufacturer
PDF	Portable Document Format
PoLR	Purification of Land Records
RFP	Request for Proposal
SI	System Integrator
SLD	Styled Layer Descriptor
SOP	Standard Operating Procedure
SRS	System Requirement Specifications
TCPO	Town & Country Planning Organisation
TEC	Tender Evaluation Committee
TIA	Tender Issuing Authority (Hereafter called "Authority")
UAT	User Acceptance Test
ULB	Urban Local Body
ULPIN	Unique Land Property Identification Number
WS	Ward Secretariat
UTM	Universal Transverse Mercator
WS	Ward Secretariat
WGS	World Geodetic System

1 Invitation for Bids

CDMA hereby invites Proposals from reputed, competent, and professional Information Technology (IT) companies, who meet the minimum eligibility criteria as specified in this bidding document viz., "**Selection of System Integrator for Development, Implementation and Maintenance of Enterprise GIS Solution for Resurvey Project (Urban)**" as detailed in Section 2.24 of this RFP document.

Sl.no	Item	Particulars
1.	Authority	**Commissioner and Director of Municipal Administration**
2.	Description of the work	**Selection of System Integrator for Development, Implementation and maintenance of enterprise GIS Solution for resurvey project**
3.	Mode of Tendering	e-procurement
4.	Method of Selection	**Combined Quality cum Cost Based Selection with Reverse tendering**
5.	Tender Reference Number	MAU02-11022/12/2022-K SEC-CDMA
6.	E-Tendering Website	**https://www.tender.apeprocurement.gov.in/**
7.	Tender Document Fee	Rs. 10,000/- (Rupees Ten Thousand only) (Non-Refundable) Demand draft in favour of **'Commissioner and Director of Municipal Administration'** Vaddeswaram, Mangalgiri.
8.	Earnest Money Deposit (E.M.D.)	Rs 5,00,000/- Rupees Five lakhs only can be paid by BG/DD in favour of **'Commissioner & Director of Municipal Administration'.**
9.	Date from Online Tender Document availability	**05-01-2023 @3.00 PM**
10.	Last date of submission of pre-bid queries	Date : **18-01-2023** up to 05.00 PM The queries should be submitted as per the format prescribed in Annexure 1.5 with a subject line as: "Pre-Bid queries - <Agency's Name>" at Email : procurement.cdma@cdma.gov.in
11.	Date, time and venue of pre bid Meeting	19-01-2023 at 11.00 AM Venue: O/o CDMA, Mangalagiri, Andhra Pradesh

12.	Reply to pre bid queries	On 20-01-2023 by 5.00 PM through Email and uploading on the e procurement
13.	Last Date and Time for Online submission of the bids	27-01-2023 up to 5.00 PM
14.	Last Date and Time for Hard copy submission of the bids	30-01-2023 up to 5.00 PM to CDMA office
15.	Date and Time for Opening of Technical bids	Date: 31-01-2023 at 11.00 am Venue: O/o CDMA,Mangalagiri, Andhra Pradesh
16.	Place, Date and Time for Presentation/Demonstration in response to the RFP	will be intimated to eligible bidders later
17.	Date and Time for Opening of Commercial bids	will be intimated to eligible bidders later
18.	Date and Time for Reverse Auction	will be intimated to eligible bidders later
19.	Contact details	Email id: **procurement.cdma@cdma.gov.in** O/o : Commissioner & Director of Municipal Administration, Prime Hill Crest, 4th Floor, Near DGP Office, Vaddeswaram Village, Mangalagiri, Andhra Pradesh Pin code: 522502

Note:

a) The RFP document shall be downloaded from website **https://www.tender.apeprocurement.gov.in/**

b) The Bidder is expected to carefully examine all instructions, forms, annexures, specifications, requirements and other terms and conditions in the RFP document with full understanding of its implications. Failure to furnish all information required in the RFP Document or submission of a bid not substantially responsive to the RFP Document in every respect will be at the Bidders risk and may result in the rejection of the bid.

c) The e-procurement portal does not allow uploading of Bids beyond bid submission time. CDMA will not be responsible for non-submission of Bids through e-procurement portal after the deadline for submission of bids.

d) Last minute submission shall be avoided. CDMA will not be responsible for any failures in submission of Offers/Bids. Bids submitted by Telex, Fax, e-Mail etc. will not be entertained and no correspondence will be entertained on this matter.

e) The Bidder must adhere to the time schedule of activities pertaining to this Request for Proposal and no request to change the last date or extend period

/ time for submission shall be entertained by CDMA. However, CDMA reserves the right to extend the date/time for submission of the bids without assigning any reason by notifying in e-tender website.

f)   Incomplete or Conditional bids will be summarily rejected in very first instance and no correspondence will be entertained on this subject.

g)   The bids should be type written only. Correction/overwriting/cutting/ interpolation/use of whitener etc., if any, shall be made by neatly crossing out, initiating, dating, and rewriting, failing which Bids are liable for rejection

h)   The name and signature of Bidders authorized person should be recorded at the bottom on each page of the bid document without which bids will not be considered. All pages of the bid document shall be numbered & sealed and shall be signed by a person duly authorized to bind the organization to the Contract. A duly stamped Power-of-Attorney accompanying the Bid document shall support the letter of authorization.

i)   The bids and all correspondence/documents relating to the bids shall be written in English language only. 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 Bidders. For purposes of interpretation of the proposal, the English translation shall govern.

j)   Bidders must keep their offer open for a minimum period of 180 days from the date of opening of the tender, within which the Bidders cannot withdraw their offer. However, subject to the period being extended further, if required, by mutual agreement from time to time.

k)   CDMA reserves the right to cancel the tender, or relax any part of the tender offer, without assigning reason thereof. In case of differences, if any, the decision of the Director, CDMA shall be final

l)   At any time before the closing schedule for submission of bids, CDMA may amend the tender by issuing an addendum or corrigendum in writing or by standard electronic means and the same will be notified in the e-tender website. The addendum or corrigendum will be binding on all Bidders. If the amendment is substantial, Bidders shall be given reasonable time to make amendment or to submit revised bid, and deadline for submission of bids will be extended by the CDMA accordingly.

m) Canvassing in any form in connection with this tender is strictly prohibited and the bids submitted by the Bidders who resort to canvassing are liable for rejections. Such Bidders will be directly blacklisted by CDMA.

n) **Procedure for bid submission**
   1.   Proposals shall be submitted online on **https://tender.apeprocurement.gov**.in platform
   2.   The participating bidders in the tender should register themselves in apeprocurement platform in the website **https://tender.apeprocurement.gov.in**
   3.   Bidders can login to e-Procurement platform in secure mode only by signing with the Digital Certificates.

i. Possession of Digital Signature Certificates is mandatory in participating in e-tendering system. Applicants are requested to procure the Digital Signature Certificate well in advance from any of the approved Certifying Authorities (CA).

4. The bidders who are desirous of participating in the tender process shall submit their technical proposal, price bids as per the standard formats available at the Procurement website.

5. The bidders should sign, scan and upload the respective documents in Technical bid documentation as detailed at Appendix-II of the RFQ. The bidders shall sign & affix stamp on all the statements, documents certificates uploaded by them, owning responsibility for their correctness / authenticity. The rates should be quoted online only

6. In case of discrepancy between the uploaded softcopy Technical Proposal and the hardcopy submitted, the upload softcopy shall be given precedence and will form the basis of evaluation and final selection.

7. No hardcopy of financial bid/proposal shall be submitted. The Financial Proposal shall be submitted online and in the prescribed template only.

8. Failure to furnish the documents, certificates, will be entitled for rejection of the bid.

9. CDMA shall not hold any risk because of postal delay.

10. Similarly, if any of the certificates/documents, etc., furnished by the Bidder are found to be false /fabricated / bogus, the bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the Bid Security will be forfeited.

11. The Department will not hold any risk and responsibility regulating no visibility of the scanned & uploaded documents. The documents that are uploaded online on e-procurement portal will only be considered for Bid Evaluation.

2 Instructions to Bidders

2.1 Project Background

The original land survey in the state of Andhra Pradesh was done more than 100 Years back. The survey which was done in the late 19th and early 20th century was done manually and with the survey techniques available at that time. Normally re-survey is to be done every 30 years, but for various reasons no re-survey in the state has been carried out. According to the results that the survey records are not only very old, fragile, and inaccurate but also around 20-25% of the records have been lost. Available records also, to some extents have no commensuration with ground realities.

Accurate and updated land records are one of the prerequisite social and economic infrastructures required for rapid economic development. The importance of land information cannot be over emphasized. Land records provide the basis for

- Recognition of owner's title, boundaries, and usage
- Collection of all land and property-based levies, like property tax, vacant Land Tax,
- Planning for Govt. development and welfare activities
- Providing a database for various government and non-government users.

2.1.1 Vision:

To undertake the detailed resurvey in the state and create updated land records including textual and spatial information, enabling establishment of a system which will help in the continued maintenance of updated land records and provide ready and smooth access to required information to all stakeholders – including citizens and government.

2.1.2 Objectives:

- Creation of an updated cadastral and Ownership title database through a re-survey, measurement, and Records verification process.
- Creating an integrated view of textual and graphical information of land records.
- Replace manual records with digital records, update the records and ensure consistency of information across the departments.

2.2 Purpose

CDMA seeks the services of a reputed IT/ITES company, as a "**Selection of System Integrator for Development, Implementation and maintenance of enterprise GIS Solution for resurvey project (Urban)**". This document provides information to enable the bidders to understand the broad requirements to submit their bids. The detailed scope of work is provided in **Section 3** of this RFP document.

2.3 Consortium

The Bidders are allowed to form a Consortium subject to the following conditions:

1. The number of Consortium members cannot exceed **three**, including the Lead Member.

2. In case of Consortium, the Lead Member should be the bidder who would be providing the Enterprise Web GIS Application development/customization, deployment and maintenance of Application component of the scope of work

3. The Lead Member should have the majority stake in the 'Consortium'; stake being calculated from the detailed roles and responsibilities defined for the Consortium and as declared in the Proposal.

4. Only the Lead Member will submit the Proposal and sign the Contract with CDMA

5. All the members of consortium shall be jointly and severally responsible for the execution of the contract

6. Consortium member other than OEM, cannot be a part of more than one Consortium participating in this Bid. Only one Bid will be allowed from a Consortium. The Consortium Member is not allowed to bid individually.

7. In case of a Consortium Bid, the Lead Member would need to submit the Consortium Declaration in the format provided in Annexure 6 of the RFP. **The Lead Member would also need to submit the Agreement between the Consortium members for the Contract clearly indicating their scope of work and relationship**. Such Agreement should be prepared on a stamp paper of requisite value and is required to be submitted along with the Pre-qualification Proposal. In the event that the Lead Member does not submit the Agreement it will be considered as an individual bid.

8. All the signatories of the Consortium Agreement shall be authorised by a Power of Attorney signed by the respective Managing Director duly authorized by Board resolution of the Companies.

9. Each Consortium member shall execute and submit along with the Pre-qualification Proposal, a registered power of attorney in the format provided in **Annexure 5**, of the RFP in favour of the Lead Member which shall inter-alia, authorize the Lead Member to act for and on behalf of such member of the Consortium and do all acts as may be necessary for the performance under the contract.

10. The Consortium Agreement shall provide at least the following information in respect of the Consortium members that the Bidder will engage to provide any of the services required under this RFP.

    a) Brief description of nature of products/services to be provided by each consortium member;

    b) Head and Branch offices (if responsible for work under the contract) (provide mailing addresses, phone, fax and email);

    c) Date, form and state of incorporation of Consortium member;

    d) Company Principals (Name, title and business address); and,

11. The Consortium Agreement concluded by the Lead Member and Consortium member(s) should also be addressed to the CDMA clearly stating that the Agreement is applicable to the contract executed out of this RFP and shall be binding on them for the Contract Period. Notwithstanding the Agreement, the responsibility of coordination and smooth execution of job under the contract will be with the Lead Member.

12. CDMA reserves its right to subject the Consortium members and all their personnel who are to be deployed on this Project to security clearances as it deems necessary.

13. Change in members of the Consortium of the Successful Bidder/SI anytime during the Contract will be as per **Section 4.3** of the RFP.

The Lead Member shall be solely liable to and responsible for all obligations towards the CDMA for performance of works/services including that of its partners/associates under the contract.

2.4   Sub-Contracting Conditions

Sub-Contracting is not allowed for this RFP

2.5   Completeness of Response & Due diligence by Bidders

1. Bidders may prior to submitting their proposals online, examine the requirements at their own expense and obtain/ascertain themselves, at their own cost and the responsibility and other information necessary for preparing their Proposals. Prior to submitting the proposal may carry out reconnaissance of the area and get acquainted with the existing situation.

2. Bidders shall be deemed to have full knowledge of the requirements of the work. CDMA will not accept any responsibility or liability for any errors, omissions, inaccuracies or errors of judgment with respect to information or materials provided by CDMA, in this RFP Document or otherwise, with respect to this project. Although such information and materials are to the best of CDMA's belief, however their verification is the sole responsibility of Bidder.

3. Neither CMDA , nor their employees or consultants make any representation or warranty as to the accuracy, reliability or completeness of the information provided nor will have any liability to any bidder which may arise from or be incurred or suffered in connection with anything contained in this RFP and the award of the work or otherwise arising in any way from the selection process.

2.6   Proposal Preparation Costs

1. The bidder shall submit the bid at their own cost and CDMA shall not be held responsible for any cost incurred by the bidder. Submission of a bid does not

entitle the bidder to claim any cost and rights over CDMA and CDMA shall be at liberty to cancel any or all bids without giving any notice/information.

2. All materials submitted by the bidder shall be the absolute property of CDMA and no copyright /patent etc. shall be entertained by CDMA

2.7   Bidder Inquiries

Bidder shall E-Mail their queries at above mentioned E-Mail address as prescribed in the **Annexure 1.5**. The response to the queries will be published on **https://www.tender.apeprocurement.gov.in.**
No telephonic / queries will be entertained thereafter. This response of CDMA shall become integral part of RFP document. CDMA shall not make any warranty as to the accuracy and completeness of responses.

Interested bidders can purchase the tender documents online from website

2.8   Amendment of RFP Document

1. All the amendments made in the document would be published on the e-Tendering Portal and shall be part of RFP.
2. The Bidders are advised to visit the websites / portal on regular basis to check for necessary updates. The CDMA also reserves the right to amend the dates mentioned in this RFP.

2.9   Supplementary Information to the RFP

If CDMA deems it appropriate to revise any part of this RFP or to issue additional data to clarify an interpretation of provisions of this RFP, it may issue supplements to this RFP. Any such corrigendum shall be deemed to be incorporated by this reference into this RFP.

2.10   CDMA's right to terminate the process

CDMA may terminate the RFP process at any time and without assigning any reason. CDMA reserves the right to amend/edit/add/delete any clause of this Bid Document. This will be informed to all and will become part of the bid /RFP and information for the same would be published on the e-Tendering portal.

2.11   Earnest Money Deposit (EMD)

1. Bidders shall submit, EMD of Rs. 5,00,000/- (Rupee Five Lakhs only) can be paid by BG/DD in favour of Commissioner & Director of Municipal Administration.
2. Unsuccessful Bidder(s) EMD will be returned within 90 days from the date of opening of the financial bid.
3. The Bid Security, for the amount mentioned above, of the Successful Bidder/SI would be returned upon submission of Performance Bank

Guarantee for an amount equal to 2.5% of Total Contract Value in the format provided in **Annexure 8** of the RFP.

4. No interest will be paid by CDMA on the EMD amount and EMD will be refunded to all Bidders (including the successful bidder) without any accrued interest on it

5. The Bid submitted without EMD, mentioned above, will be summarily rejected

6. The EMD may be forfeited:

    a) If a Bidder withdraws, his bid or increases his quoted prices during the period of bid validity or its extended period, if any.
    b) In case of a Successful Bidder/SI, if the Bidder fails to sign the contract in accordance with the terms and conditions.
    c) If during the bid process, a bidder indulges in any such deliberate act as would jeopardise or unnecessarily delay the process of bid evaluation and finalisation.
    d) During the bid process, if any information is found false/fraudulent/ mala fide, and then CDMA shall reject the bid and, if necessary, initiate action.
    e) The decision of the CDMA regarding forfeiture of the EMD shall be final and binding upon bidders.

2.12 Authentication of Bid

1. Authorized person of the bidder who signs the bid shall obtain the authority letter from the bidder, which shall be submitted with the Bid. All pages of the bid and its annexures, etc. shall be signed and stamped by the person or persons signing the bid. In case of consortium, only the person from Lead Member is authorised to sign the bid documents and no other person is permitted.

2. Power of Attorney executed by the Bidder in favour of the duly authorised representative, certifying him as an authorised signatory for the purpose of this bid.

2.13 Language of Bids

This bid should be submitted in English language only. If any supporting documents submitted are in any language other than English, then the translation of the same in English language is to be duly attested by the bidder and summited with the bid, and English translation shall be validated at CDMA's discretion.

2.14 Patent Claim

In the event of any claim asserted by a third party of infringement of copyright, patent, trademark or industrial design rights arising from the use of the Goods or any part thereof, the bidder shall expeditiously extinguish such claim. If the bidder fails to comply and CDMA is required to pay compensation to a third party resulting

from such Infringement, the Bidder shall be responsible for such compensation, including all expenses, court costs, lawyer fees etc. CDMA shall give notice to the Successful Bidder/SI of any such claim and recover it from the bidder.

2.15 Data/ Documents/Software Prepared by the Successful Bidder/SI to be the Property of the CDMA

All plans, specifications, reports, customized software, other documents, patent and GIS data shall be absolute property of CDMA. The Successful Bidder/SI shall not use, share this information, any other data derived from the application, customized software etc. anywhere, without taking permission, in writing, from the CDMA and the CDMA reserves right to grant or deny any such request. Intellectual Property Rights (IPR) of the source code will vest solely with the CDMA, GoAP.

2.16 Bid Submission Format

The entire proposal shall be submitted strictly as per the format specified in this Request for Proposal. Bids with deviation from this format are liable for rejection.

2.17 Bid Submission Instructions

1. Complete bidding process will be online (e-Tendering) in three envelope system.

Submission of bids shall be in accordance to the instructions given in the Table below:

Particulars	Instructions
Envelope A: Pre-qualification Proposal	The Pre-qualification Proposal shall be prepared in accordance with the requirements specified in this RFP and the formats are prescribed in **Annexure 1** of this RFP. Each page of the Pre-qualification Proposal should be signed and stamped by the Authorized Signatory of the Bidder. Prequalification Proposal should be submitted through online and one set of Hard Copy to CDMA office.
Envelope B: Technical Proposal	The Technical Proposal shall be prepared in accordance with the requirements specified in this RFP and the formats are prescribed in **Annexure 2** of this RFP Each page of the Technical Proposal should be signed and stamped by the Authorized Signatory of the Bidder. Technical Proposal should be submitted through online and one set of Hard Copy to CDMA office.
Envelope C: Financial Proposal	The Financial Proposal shall be prepared in accordance with the requirements specified in this RFP and in the formats prescribed in **Annexure 3** of the RFP. Each page of the Financial Proposal should be signed and stamped by the Authorized Signatory of the Bidder.

	Financial Proposal should be submitted through online bid submission process only.

*Note: Bidder is requested to submit the **One Hard Copy** of the Pre-qualification and Technical proposal on the date of schedule given in the **Section 1** of the RFP.*

2. The following points shall be kept in mind for submission of bids

a) CDMA shall not accept delivery of proposal in any manner other than that specified in this RFP. Proposal delivered in any other manner shall be treated as defective, invalid and rejected.

b) The Bidder is expected to price all the items and services sought in the RFP and proposed in the technical proposal. The Bid should be comprehensive and inclusive of all the services to be provided by the Bidder as per the scope of his work and must cover the entire Contract Period.

c) CDMA may seek clarifications from the Bidder on the technical proposal. Any of the clarifications by the Bidder on the technical proposal should not have any commercial implications. The Financial Proposal submitted by the Bidder should be inclusive of all the items in the technical proposal and should incorporate all the clarifications provided by the Bidder on the technical proposal during the evaluation of the technical offer.

d) Financial Proposal shall not contain any technical information.

e) If any Bidder does not qualify the prequalification criteria stated in **Section 2.24** of this RFP, the technical and financial proposals of the Bidder shall not be opened in the e-Tendering system. Similarly, if the Bidder does not meet the technical evaluation criteria, the financial proposal of the Bidder shall be unopened in the e-Tendering system.

f) It is required that the all the proposals submitted in response to this RFP should be unconditional in all respects, failing which CDMA reserves the right to reject the proposal.

g) Proposals sent by post/courier should be reach CDMA office before due date and time.

2.18 Late Proposal and Proposal Validity Period

Proposals received after the due date and the specified time (including the extended period if any) for any reason whatsoever, shall not be entertained and shall not be opened in the e- Tendering system. CDMA will not take any responsibility of late delivery by post/courier.

2.19 Modification and Withdrawal of Proposals

No Proposal shall be withdrawn in the interval between the deadline for submission of proposals and the expiration of the validity period specified by the Bidder on the Proposal form. Entire EMD shall be forfeited if any of the Bidders withdraw their proposal during the validity period.

2.20 Non-conforming Proposals

A Proposal may be construed as a non-conforming proposal and ineligible for consideration:
- a. If it does not comply with the requirements of this RFP
- b. If the Proposal does not follow the format requested in this RFP or does not appear to address the requirements of the CDMA.

2.21 Acknowledgement of Understanding of Terms

By submitting a Proposal, each Bidder shall be deemed to acknowledge that he has carefully read all sections of this RFP, including all forms, schedules, annexure, corrigendum and addendums (if any) hereto, and has fully informed itself as to all existing conditions and limitations.

2.22 Confidentiality

CDMA shall treat all Bids and other documents, information and solutions submitted by Bidders as confidential, and shall take all reasonable precautions that all those who have access to such material, treat this in confidence. CDMA will not divulge any such information unless it is ordered to do so by any authority which has the power to release.

Each Bidder shall, whether or not it submits a Bid, treat the RFP Document information provided by CDMA in connection with the Project, any other document, bidding proceedings etc as confidential for a period of five (5) years from the issuance of the request for proposal (RFP) document. During this period, the Bidder shall not disclose or utilise any such documents, information without the written approval of CDMA or as required by law or any governmental authority.

CDMA and Each bidder shall ensure that their consultants or any third party to whom for the bid document was required to be divulged for the preparation of bid or for evaluation, as the case may be, such consultants or third party maintains the confidentiality of the bid document and the evaluation.

Any information relating to examination, clarification, evaluation and comparison of bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other person not officially concerned with the Bid Process until the award to the Successful Bidder has been communicated.

2.23 Bid Opening
- a) Total transparency shall be observed and ensured while opening the Proposals/Bids. All Bids shall be opened in the presence of Bidder's representatives who choose to attend the Bid opening sessions on the specified date, time and address.
- b) CDMA reserves the rights at all times to postpone or cancel a scheduled Bid opening

c) Bid opening shall be conducted in two stages.

d) In the first stage, prequalification proposals shall be opened and evaluated as per the criteria mentioned in **Section 2.25** of the RFP. Technical Proposals of bidders who pass the prequalification criteria shall be opened.

e) In the second stage, Financial Proposal of those Bidders, whose Technical Proposals qualify, shall be opened. All Bids shall be opened in the presence of Bidder's representatives who choose to attend the Bid opening sessions on the specified date, time and address.

f) The Bidder's representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of Bid opening being declared a holiday for CDMA, the bids shall be opened at the same time and location on the next working day. In addition to that, if there representative of the Bidder remains absent, CDMA will continue process and open the bids of the all bidders.

g) During Bid opening, preliminary scrutiny of the Bid documents shall be made to determine whether they are complete, whether required Bid Security has been furnished, whether the Documents have been properly signed, and whether the bids are generally in order. Bids not conforming to such preliminary requirements shall be prima facie rejected. CDMA has the right to reject the bid after due diligence is done.

2.24 Evaluation Process

a) CDMA shall form a Tender Evaluation Committee (hereinafter referred to as "TEC") to evaluate the bids.

b) TEC shall review the prequalification proposal of the Bidders to determine whether the requirements as mentioned in Section 2.24 of the RFP are met. Incomplete or partial Proposals are liable for disqualification. All those Bidders, whose prequalification proposal meets the requirements shall be selected for opening of the technical proposal.

c) TEC shall review the Technical Proposal of the prequalified Bidders to determine whether the technical proposals are substantially responsive. Bids that are not substantially responsive shall be disqualified and TEC reserves the right to seek clarification if required.

d) TEC shall assign a Technical score to the Bidders based on the Technical evaluation criteria detailed in the RFP. The Bidders with a technical score above the threshold as specified in **Section 2.29** of the RFP shall technically qualify for the commercial evaluation stage.

e) The Financial proposals of the technically qualified Bidders shall be opened and reviewed to determine whether the financial proposals are complete and as per requirements.

f) Evaluation and award of Contract shall be done as per provisions of Andhra Pradesh State Government Rules.

g) Please note that TEC may seek inputs from their professional, external experts in the Bid evaluation process.

h) At any time during the Bid evaluation process, the Committee may seek oral / written clarifications from the Bidders. The Committee may seek inputs from their professional and technical experts in the evaluation process

i) The Committee reserves the right to do a reference check of the experience stated by the Bidder. Any feedback received during the reference check shall be taken into account during the Technical evaluation process.

2.25 Prequalification Criteria

S No	Eligibility Criteria	Document to be submitted
PQ1	The Sole Bidder (or in case of Consortium, all members of consortium or at least one consortium member) should be registered IT service/GIS Enterprise solution provider company and proprietorship firm / partnership firm / registered company under Companies Act, 1956 or LLP (Limited Liability Partnership) with registered offices in India and should be in existence in India for at least the last 5 (Five) years as on date of submission of the bid.	Certificate of Incorporation. In case of Consortium, Certificate of Incorporation of each consortium member along with Notarized MoU of company/Firm. For a proprietorship firm it will be Certificate of Registration /PAN/ GST certificate.
PQ2	The Sole Bidder (Lead Member in case of Consortium) should have **Rs. 2.00 Crore** as average turnover in the last any 5 consecutive audited fiscal years (FY 2017-18, 2018-19, 2019-20, 2020-21 and 2021-22) from IT/GIS Services*. In case of Consortium, other members should have Rs. 2.00 Crore as average turnover in the last any 5 consecutive audited fiscal years (**FY** 2017-18, 2018-19, 2019-20, 2020-21 and 2021-22) from IT /GIS Services. Start-up is exempted from meeting the qualification criteria of turnover of Rs.2.00 Crore provided that they have expertise and orient towards similar GIS based application development. If organization is start-up then it should be have DIPP recognition.	Copy of the audited Profit & Loss Statement of the company duly certified by statutory auditor OR CA Certificate
PQ3	The Sole Bidder (All members in case of Consortium) should have positive net worth (measured as paid-up capital plus free reserves) for any three of the five consecutive audited financial years (FY 2017-18, 2018-19, 2019-20, 2020-21 and 2021-	Certificate duly signed by Statutory Auditor of the Bidder confirming the net worth for each of the specified period

	22)	
PQ4	The Sole Bidder (Lead Bidder in case of consortium) should have at least 5 GIS Development experts on its roll (as Permanent Employees) and 20 technical personnel to provide necessary support for the project as on date of submission of the bid.	HR Certificate along with necessary proofs such as PF A/C details
PQ5	The Sole Bidder (Lead Bidder in case of consortium) should have valid CMMI Level 3/higher certification OR ISO 9001:2015 and ISO 27001 Certificates as on date of submission of bid.	Valid Copy of Certificates
PQ6	The Sole Bidder or Lead bidder in case of consortium should have successfully completed/ or presently have an ongoing engagement at least 1 (one) State-wide or Global Implementation of Web GIS Project in past 5 years with cost not less than Rs. **3 Crore** and **3 (three) Web GIS Project** for any Central Govt. / State Govt. / PSUs in past 5 (Five) years in India/Global with each project cost not less than Rs. 1 Crore as on date of submission of the bid. The Web GIS Project shall include at least 3 of the below following components: i. GIS Data Conversion/Migration, data modelling ii. Development, customization, and Commissioning of proposed Enterprise Web GIS Solution iii. Operations and Maintenance of IT infrastructure for Enterprise Web GIS iv. Capacity building and handholding for Enterprise Web GIS v. Creation of Multiple Geo-Spatial Layers based on Mapping / Ground Verification and Physical Survey	Copy of Work Order & Project Completion Certificate or Copy of Ongoing engagement certificate should be attached
PQ7	The Sole Bidder or Consortium should have appropriate OEM Authorization for the proposed Enterprise Web GIS solution specifically for this project.	Copy of OEM agreements

	The OEM products proposed in the solution should have at least 2 Enterprise Agreements for Large scale GIS implementations for State Governments or for Large Private sector companies in India covering the similar scope .	
PQ8	The Sole Bidder or Any member in case of consortium should have successfully completed **at least 1 (One)** of the following system integration & Development project in past 5 years in India or Global with the project cost not less than **Rs. 3 Crore** as on date of submission of the bid: • GIS – ERP (Enterprise Resource Planning) • GIS - Project management System • GIS – SCADA (Supervisory Control and Data Acquisition) • GIS – Layout & Building Plan Approval System • GIS based Property & Tax Management System • Smart Cities IT System integrator	Copy of Work Order & Project Completion Certificate or Copy of ongoing engagement Certificate along with UAT should be attached
PQ9	The Sole Bidder or Lead Member or any member of its consortium should have successfully completed at least 1 (One) project of Development and implementation of Mobile GIS Application for any Central Govt. / State Govt. / PSUs in past 5 (Five) years in India/Global as on date of submission of the bid.	Copy of Work Order & Project Completion Certificate or Copy of ongoing engagement Certificate along with UAT should be attached
PQ10	The Sole Bidder (All members in case of Consortium) should not be banned from participating in any of the Tenders by Government of AP/ Any State Government/Government of India/PSU as on date of submission of the Bid. Also, the bidder shall not be under a Declaration of ineligibility for corrupt or fraudulent practices with any of the Government or Public sector units.	A self-certified letter signed by the Authorized Signatory of the Bidder

Note

*a) *IT related services should mean Projects involving data migration, conversion and data modelling, development of software applications and solution, Enterprise GIS Implementation, system integration, Provisioning Hosting & Maintenance services, providing operational and maintenance services for GIS application and IT infrastructure and Capacity Building for IT applications*

b) Substantially, Completed Projects should mean if the project is at UAT stage (UAT Certificate from the client or List of activities completed in the project certified from the client should be provided as supporting document)

2.26 Evaluation of Pre-qualification Proposals

a. Bidders, whose EMD and Tender Document Fees are found in order, shall be considered for Pre-Qualification criteria evaluation.

b. Bidder shall be evaluated as per prequalification criteria mentioned at **Section 2.25**. The bidders who fulfil all the prequalification criteria shall qualify for further technical evaluation.

c. All Start-ups (whether Micro and Small Enterprises (MSEs) or otherwise), falling within the definition as per Gazette notification- G.S.R. 501(E) dt. 23.05.2017 or as amended from time to time are exempted from meeting the qualification criteria in respect of Prior Experience-Prior Turnover in public procurement subject to meeting the quality and technical specification for which necessary documents shall be submitted by such bidders along with the bid. Start-ups are encouraged to apply if they have similar experience. Bidder must provide the declaration in prescribed proforma attached as Annexure 12 or Annexure 13 whichever is applicable.

2.27 Evaluation of Technical Proposals

The evaluation of the Technical Proposals will be carried out in the following manner:

a. The Bidders are required to submit all required documentation in support of the evaluation criteria specified (e.g. Detailed Project citations and completion certificates, client contact information for verification, and all others) as required for technical evaluation.

b. At any time during the Bid evaluation process, TEC may seek oral / written clarifications from the Bidders. The Committee may seek inputs from their professional and technical experts in the evaluation process.

c. CDMA reserves the right to do a reference check of the past experience stated by the Bidder. Any feedback received during the reference check shall be taken into account during the technical evaluation process.

2.28 Technical Evaluation Methodology (Combined QCBS with Reverse Tendering)

1. Each Technical Proposal shall be assigned a technical score out of a maximum of 100 points. (Refer Section 2.29).

2. To qualify for the opening of financial proposal, the Bidder must get a **minimum overall technical score of 70 (Seventy)**

3. The Financial Proposals of Bidders who do not qualify technically shall be kept unopened in the e-Tendering system.

4. CDMA reserve the right to accept or reject any or all bids without giving any reasons thereof.

5. CDMA shall inform to the technically shortlisted Bidders about the date and venue of the opening of the financial proposals.

2.29 Technical Evaluation Criteria

Sl.no	Evaluation Criteria	Points
TQ.1.0	**Company Profile**	**10**
	The Sole Bidder (Lead Member in case of Consortium) should have average annual turnover of minimum Rs. 2 Cr for the last 5 financial years.	
	Above Rs. 10 Crore	10
	>=Rs. 7 Crore – Rs. 10 Crore	8
	>=Rs. 5 Crore – Rs. 7 Crore	7
	>=Rs. 2 Crore – Rs. 5 Crore	6
TQ2.0	**Relevant Experience**	**30**
TQ2.1	The bidder should have successfully completed/Substantially Completed at least **3 (Three)** Web GIS Projects for any Central Govt. / State Govt. / PSU organizations in past 5 (Five) years in India/Global with each project cost not less than Rs. 3 Crore as on date of submission of the bid. For definition of Web GIS projects to be considered, Prequalification criteria 6 should be referred. **(3 Projects = 8 marks, : with every additional project = 1 marks, maximum 2 marks)**	10
TQ 2.2	The bidder should have successfully completed at least 1 (One) project of System Integration and Development, Implementation and Maintenance of e-Governance Portal/Application for any Govt. organizations in past 5 (Five) years in India/ global with the project cost not less than Rs. 3 Crore as on date of submission of the bid. **(1 Project = 4 marks, : with every additional project = 0.5 marks, maximum 1 marks)**	5
TQ 2.3	The bidder should have successfully completed at least 2 (Two) projects of Creation of Multiple Geo-Spatial Layers based on Mapping / Ground Verification and Physical Survey for any Central Govt. / State Govt. / PSUs in past 5 (Five) years in India/ Global with the project cost not less than Rs. 50 lacs as on date of submission of the bid. **(2 Projects = 4 marks, : with every additional project = 0.5**	5

		marks, maximum 1 marks)	
TQ 2.3		The Sole Bidder or Lead Member or any member of its consortium should have experience of data conversion/migration of at least 20,000 features (polygon) or prepared at least 30 map layers in a single project in past 5 (Five) years in India/ Global as on date of submission of the bid.	5

Number of features/ maps/ layers	Marks
20000 count features/ 30 layers	3
35000 count features/ 50 layers	4
50000 count features/ 70 layers	5

TQ 2.4		The Sole Bidder or Lead Member or any member of its consortium should have successfully completed at least 1 (One) project of Development and implementation of Mobile GIS Application for any Central Govt. / State Govt. / PSUs in past 5 (Five) years in India/Global as on date of submission of the bid. **(2 Projects = 4 marks, : with every additional project = 1 marks, maximum 2 marks)**	5
TQ 3.0		**Technical Presentation**	**30**
TQ 3.1		Understanding of Scope of Work	4
TQ 3.2		Approach & Methodology	5
TQ 3.3		Team Structure and staffing plan	3
TQ 3.4		Timeline work plan in Gantt chart	3
TQ 3.5		Proposed cost-effective Solution and Plan	15
TQ 4.0		**Key Personnel (Requirement is provided in Section 2.29 in the RFP)**	**30**
TQ 4.1		Project Coordinator	5
TQ 4.2		Team Lead	8
TQ 4.3		Business Analyst	3
TQ 4.4		GIS Database Administrator	3
TQ 4.5		GIS Developer	3
TQ 4.6		Solution Architect	5
TQ 4.7		GIS Expert	3

Note: Bidder who meets the minimum pre-qualification criteria shall be called for technical presentation (maximum duration of one hour) 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. CDMA reserves right to visit bidder's customer where such a similar project execution has taken place.

2.30 Key Personnel Evaluation Matrix

Sr. No.	Proposed Profile	Evaluation Criteria	Marks
1	Project Coordinator	**Qualification –** • Post Graduate Qualifications in GIS/IT/Civil (M.Tech./ M.E./ MBA) with PMP certification from recognized institution OR	2
		Qualification – • Graduate Qualifications in GIS/IT/Civil (BSc / B.Tech / BCA / B.E./M.Sc./ MCA)	1
		Relevant GIS Experience- • 15+ years of experience on large MIS-GIS development projects in urban sector in government departments. • Knowledge of major GIS software products, GPS, total station, coordinate reference systems and satellite remote sensing technology. • Should be familiar with latest government procedures, standards and guidelines for developing GIS, digitization, thematic maps, etc. OR	3
		Relevant GIS Experience – • 7 -15 years of experience in similar GIS projects in government departments	1.5
2	Team Lead	**Qualification –** • Post Graduate Qualifications in GIS/RS/IT/ • Civil/Geoinformatics (M.Tech./ M.E./ MBA) OR	3
		Qualification – • Graduate in GIS/IT/Civil/Planning (BSc / B.Tech / BCA / B.E/ M.Sc./ MCA)	1.5
		Relevant GIS Experience • 10+ years of experience in Web-GIS development and integration on projects in urban sector in government departments. • Knowledge of various data types and drawing types such as CAD and ability to convert and work with them in GIS environment. • Fluency in SOAP, WCS, WFS, WMS, REST-API, C, C++, C#/ Java script and database query	5

Sr. No.	Proposed Profile	Evaluation Criteria	Marks
		• Ability to undertake application and Database integration OR	
		Relevant GIS Experience – • **7+ years of experience** in Web-GIS development and integration • Knowledge of various data types and drawing types such as CAD and ability to convert and work with them in GIS environment. • Fluent in C, C++, C#/ Java script and database query • Ability to undertake application and Database integration	3
3	Business Analyst	**Qualification –** • Post Graduate Qualification in Urban Planning with knowledge of GIS and Remote Sensing Technology (M.Tech./ M.E./ MBA) OR	1
		Qualification – • Graduate Qualification with knowledge of GIS and Remote Sensing Technology (B.Tech./ BA./ B.Sc./B.E/ MSc.)	0.5
		Relevant Experience – • 7+ years of experience in requirement gathering, experience in independently designing system architecture for Enterprise class Applications, excellent analytical and Documentation Skills, undertake user level testing of applications, shall be able to articulate information and communicate to users through interviews and presentations	2
		Relevant Experience – • **5+ years of experience** in requirement gathering, providing inputs for designing system architecture, good documentation skills, undertake testing of systems and communicate with users and present features of the applications	1
4	GIS Database Administrator	**Qualification –** • Post Graduate Qualifications in GIS/IT/Civil/CS (M.Tech./ M.E./) with certification in any RDBMS	1

Sr. No.	Proposed Profile	Evaluation Criteria	Marks
		OR	
		Qualification – • Graduate in GIS/IT/Civil/CS (BSc / B.Tech / BCA / B.E/ M.Sc./MCA)	0.5
		Relevant Experience • 7+ years of experience in database activities like instance tuning, schema management, space management, backup and recovery, disaster recovery, data replication, database refresh etc. Should have successfully completed 2 projects as GIS DBA OR	2
		Relevant Experience • 5+ years of experience in database activities like instance tuning, schema management, space management, backup and recovery, disaster recovery, data replication, database refresh etc. • Should have successfully completed 2 projects as GIS DBA	1
5	GIS Developer	**Qualification –** • Post Graduate Qualifications in GIS/IT/Civil/CS (M.Tech./ M.E./) OR	1
		Qualification – • Graduate in GIS/IT/Civil/CS (BSc / B.Tech / BCA / B.E/ M.Sc./MCA)	0.5
		Relevant Experience • 7+ years of experience in customization of Web-GIS applications, system integration, Database Management, Fluency in SOAP, WCS, WFS, WFST, WMS, REST-API, C, C++, C#/ Java script, SQL Scripting and database query Hands-on experience in designing web and mobile interface, banners and user flows	2
		Relevant Experience • 5+ years of experience in customization of Web-GIS applications, system integration, Database Management, F luency in SOAP, WCS, WFS, WFST, WMS, REST-API, C, C++, C#/ Java script, SQL Scripting and database query • Hands-on experience in designing web and mobile interface, banners and user flows	1

Sr. No.	Proposed Profile	Evaluation Criteria	Marks
6	Solution Architect	**Qualification –** • Post Graduate Qualifications in GIS/IT/Civil/CS (M.Tech./ M.E./) OR	1
		Qualification – • Graduate in GIS/IT/Civil/CS (BSc / B.Tech / BCA / B.E / M.Sc./MCA)	1
		Relevant Experience • 10+ years, within this 5 proved years to include Architecture and Technical Design including proven experience with New Architectures – GIS, Mobile Hands-on experience of solution architecture at large IT projects, must be able to demonstrate experience designing and implementing large-scale high transactional, resilient architectures	4
		Relevant Experience • 7+ years, within this 5 proved years to include Architecture and Technical Design including proven experience with New Architectures – GIS, Mobile Hands-on experience of solution architecture at large IT projects, must be able to demonstrate experience designing and implementing large-scale high transactional, resilient architectures	2
7	GIS Expert	**Qualification –** • Post Graduate Qualifications in GIS/IT/Geography/ M.Tech./ M.E./) or any relevant OR	1
		Qualification – • Graduate Qualifications in GIS/IT/Geography BSc / B.Tech / BCA / B.E/ M.Sc./MCA)	0.5
		Relevant GIS Experience – • 10+ years of experience on large MIS-GIS development projects in urban sector in government departments. Experience in using major GIS software products, GPS, total station, coordinate reference systems and satellite remote sensing technology. Should be familiar with latest government procedures, standards	2

Sr. No.	Proposed Profile	Evaluation Criteria	Marks
		and guidelines for developing GIS, digitization, thematic maps, etc.	
		Relevant GIS Experience – • **7+ years of experience** on large MIS-GIS development projects in urban sector in government departments. Experience in using major GIS software products, GPS, total station, coordinate reference systems and satellite remote sensing technology. Should be familiar with latest government procedures, standards and guidelines for developing GIS, digitization, thematic maps, etc.	1

Note:

- *CVs needs to be provided in the format provided as **Annexure 2.5** in the RFP*
- ***Team Lead**, **GIS Developer, Business Analyst, GIS Expert** should deploy in CDMA office throughout the implementation phase. Refer: **Section 3.7***
- *Other Technical experts such **Project Manager, GIS Database Administrator, Solution Architect** should attend all the monthly meetings with CDMA and should also represent all the important meetings.*
- *Bidder has to assess if any support staff/additional expertise required to complete the assignment to meet the objectives and indicate the same in proposal costing in Annexure 3.2 and should include all details of manpower.*

2.31 Financial Bid Evaluation

a) Financial proposals of only those firms who are technically qualified shall be opened through e-procurement portal

b) Bidders shall be ranked as per the total fees quoted and the Financial Score will be calculated as below after reverse tendering

Financial Score = 100 x X/Y

Where,

X = Lowest Rate quoted by the responsive bidder

Y = Rate quoted by the other responsive bidders

c) All the technically qualified bidders will be notified to participate in Financial Proposal opening process.

d) Financial Proposals for the technically qualified bidders will then be opened on the notified date and time and reviewed to determine whether the financial proposals are substantially responsive. Bids that are not substantially responsive are liable to be disqualified at CDMA's discretion.

e) Financial Proposals that are not meeting the condition mentioned in **Annexure 3.2** shall be liable for rejection.

f) If there is a discrepancy between words and figures, the amount in words shall prevail. For any other calculation/ summation error etc. the bid may be rejected and EMD forfeited.

g) The cost indicated in the Financial Proposal shall be deemed as final and reflecting the total cost of services and should be stated in INR only. Omissions, if any, in costing of any item shall not entitle the Bidder to be compensated and the liability to fulfil its obligations as per the Terms of Reference within the total quoted price shall be that of the Bidder. The Bidder shall bear all taxes, duties, fees, levies, and ot her charges imposed under the Applicable Law as applicable.

2.32 Selection of Successful Bidder and issuance of LOA

The technical quality of the proposal will be given weightage of 80%, the method of evaluation of technical qualification will follow the procedure given in para. 15 above. The price bids of only those consultants who qualify technically **(Minimum Qualifying Marks: 80%)** will be opened. The proposal with the lowest cost after reverse tendering may be given a financial score of 100 and the other proposal given financial score that are inversely proportionate to their prices. **The financial proposal shall be allocated a weightage of 20%.** For working out the combined score, the employer will use the following formula:

Total points = T (w) x T (s) + F (w) x LEC / EC, where
T (w) stands for weight of the technical score.
T (s) stands for technical score
F (w) stands for weight of the financial proposal
EC stands for Evaluated Cost of the financial proposal
LEC stands for Lowest Evaluated Cost of the financial proposal after reverse tendering.

The proposals will be ranked in terms of total points scored. The proposal with the highest total points (H-1) will be considered for award of contract and will be called for negotiations, if required.

2.32.1 Reverse tendering cum Auction:

a. The financial proposals of the qualified bidders will be opened on the e-Procurement portal of GoAP. The least financial bid price (L1) amongst the financial proposals of the bidders will only be displayed on e-Procurement portal. The other details like bidder names, financial proposals of the other bidders will be masked on e-Procurement portal. Financial bid has been defined below in this sub-section.

b. The L1 price opened on e-Procurement portal will be carried forward to the Reverse Auction portal. The reverse auction is proposed to be conducted for 3 hours. During the reverse auction, the bidders may choose to perform decrements or the multiples thereof, on L1 price based on preconfigured percentage value (0.5%) or an amount in multiples of Rs.1.00 Lakh on the reverse auction platform to displace a standing lowest bid and become "L1".

The standing L1 price or Effective Price will be visible to all the bidders on reverse auction portal.

c. This will continue as an iterative process during the reverse auction. In case, if any bidder decides to lower the price in the last 5 minutes of the reverse auction duration, then the duration of the reverse auction will be automatically extended for additional 30 minutes to enable other bidders to participate further.

d. Post conclusion of the online Reverse Auction, the Closing Price of each bidder on Reverse Auction portal shall be finalized. The financial proposal quoted on the e-Procurement portal will be considered as the final Closing Price for the bidders who choose not to decrement the L1 price on reverse auction portal.

e. After reverse tendering of financial proposals, appropriate selection method shall be applied to determine the consultant who will be declared winner and be eligible for award of the contract. The methods of selections are described in the instructions to bidder [The employer shall mention here which method out of all listed method shall be applied for selection of consultant for this assignment / job]. This selected consultant will then be invited for negotiations, if considered necessary.

Reference:

G.O.MS. No. 67 dated 16/08/2019, Water Resource Department, Govt. of A.P.

2. G.O.MS.No. 79 Finance (HR.V- TFR) Department Dated: 25-08-2020.

Illustration of the Reverse Tendering process

1. Assume that the bidders have quoted the following financial values on the eProcurement portal

Bidder Name	Bidder 1	Bidder 2	Bidder 3
Financial	Rs.130	Rs.120	Rs.100

2. When the financials are opened eProcurement portal, the system displays the L1 Price only as indicated below. The remaining details such as bidder name and other financial values are masked on eProcurement portal.

Bidder Name	xxxx1	xxxxx	xxxxx
Financial	xxxxx	xxxxx	Rs.100 (L1 Price)

3. The L1 price alone is carried forward to the Reverse Auction portal. Each bidder will have their own view on Reverse auction portal as indicated below

Bidder 1 Price	Rs. 100	Effective Price	Rs.100
Bidder 2 Price	Rs.100	Effective Price	Rs.100
Bidder 3 Price	Rs. 100	Effective Price	Rs.100

4. Each bidder can perform decrement on the L1 price based on preconfigured percentage value (0.5%) and amount in multiples of Rs.1.00 lakh and thereof on the reverse auction portal

Bidder 1 Price	Rs. 100	Effective Price	Rs.99
Bidder 2 Price	Rs.100	Effective Price	Rs.99

| Bidder 3 Price | Rs. 99 (performed the decrement of on standing price two times to become L1) | Effective Price | Rs. 99 |

5. Each bidder can choose to decrement the values beyond the Effective Price to displace a standing lowest bid and become "L1"

Bidder 1 Price	Rs. 98 (performed the decrement of on standing L1 price four times)	Effective Price	Rs.98
Bidder 2 Price	Rs.100	Effective Price	Rs.98
Bidder 3 Price	Rs. 99	Effective Price	Rs. 98

6. After conclusion of the Reverse Auction, the final Closing Price of the bidders will be considered as follows.

| Bidder Name | Bidder 1 | Bidder 2 | Bidder 3 |
| Financial | Rss.98 | Rs.120 | Rs.99 |

The Bidder scoring highest Total Score (technical plus financial) shall be designated as the "Successful Bidder".

Note: The Price quoted by the Bidder 1 on e-Procurement portal is considered as Least Evaluated Cost as the bidder chose not to reduce values on reverse tender portal.
Note:
The shortlisted bidder shall be the agency securing the highest composite score.
However, in the event of two or more Bidders securing exactly the same composite score, then CDMA reserves the right to

- *Declare the bidder whose technical score is highest, among the bidders who have secured the same composite score as successful bidder, or*
- *Adopt any other method and that will be binding on all bidders.*

Prior to the expiration of the period of bid validity, CDMA will notify the Successful Bidder in writing or by fax or email, to be confirmed in writing by letter, that its bid has been accepted. LoA will constitute the formation of the contract. Upon the Successful Bidder's furnishing of Performance Band Guarantee, CDMA will promptly notify each unsuccessful bidder.

2.33 Negotiations

Negotiations will be held, if necessary, at the date and address that will be informed to the Successful Bidder in due course of time. The Successful Bidder will, as a pre-requisite for attendance at the negotiations, confirm availability of all Professional staff. Failure in satisfying such requirements may result in the CDMA proceeding to negotiate with the next-ranked Bidder. Representatives conducting negotiations on behalf of the Successful Bidder must have written authority to negotiate and conclude a Contract.

Negotiations will include a discussion of the Technical Proposal, the proposed

technical approach and methodology, work plan, and organization and staffing, and any suggestions made by the Successful Bidder to improve the Terms of Reference. The CDMA and the Successful Bidder will finalize the Terms of Reference, staffing schedule, work schedule, logistics, and reporting. These documents will then be suitably incorporated in the Contract. Special attention will be paid to clearly defining the inputs and facilities required from the CDMA to ensure satisfactory implementation of the assignment.

2.34 Award of Contract

After completing negotiations, the CDMA shall intimate the decision to the Successful Bidder and send a copy of draft Contract to him. The Successful Bidder shall enter into contract agreement with CDMA within the time frame mentioned in the Letter of Acceptance issued to the Successful Bidder by CDMA

2.35 Performance Bank Guarantee

a) Within fifteen (15) working days from the date of issuance of LOA, the Successful Bidder shall at his own expense submit unconditional and irrevocable Performance Bank Guarantee (PBG) an amount equivalent to 2.5% of contract value to CDMA.

b) The PBG shall be from a Nationalized Bank or a Scheduled Commercial Bank in the format prescribed in **Annexure 841T**, payable on demand, for the due performance and fulfilment of the contract by the bidder.

c) All charges whatsoever such as premium; commission etc. with respect to the PBG shall be borne by the Successful Bidder/SI.

d) The PBG shall be valid till satisfactory completion of Post Implementation Support. The PBG may be discharged/returned by CDMA upon being satisfied that there has been due performance of the obligations of the bidder under the contract. However, no interest shall be payable on the PBG. The PBG shall hold good till 180 days after completion of the Contract Period.

e) In case the project is delayed beyond the project schedule as mentioned in the RFP, the PBG shall be accordingly extended by the Successful Bidder/SI till completion of scope of work as mentioned in RFP.

f) In the event of the Bidder being unable to service the contract for whatever reason CDMA would invoke the PBG. Notwithstanding and without prejudice to any rights whatsoever of CDMA under the contract in the matter, the proceeds of the PBG shall be payable to CDMA as compensation for any loss resulting from the bidder's failure to complete its obligations under the Contract. CDMA shall notify the Bidder in writing of the exercise of its right to receive such compensation within 14 days, indicating the contractual obligation(s) for which the Bidder is in default.

g) CDMA shall also be entitled to make recoveries from the bidder's bills, PBG, or from any other amount due to him, the equivalent value of any payment made to him due to inadvertence, error, collusion, misconstruction, or misstatement.

h) On satisfactory performance and completion of the order in all respects and duly certified to this effect by CDMA Contract Completion Certificate shall be issued and the PBG would be returned to the Successful Bidder/SI.

2.36 Non-Disclosure Agreement (NDA)

The Successful Bidder/SI has to sign the Non- Disclosure Agreement (Annexure 4) with CDMA

3 Scope of the Work

3.1 Introduction

Commissioner and Director of Municipal Administration (C&DMA), Govt. of AP intends to appoint firm/agency for "**Selection of System Integrator for Development, Implementation, and maintenance of enterprise GIS Solution for Resurvey project (Urban)**" for the project "**YSR Jagananna Shaswata Bhu Hakku mariyu Bhu Raksha Pathakam**" a programme of conducting a comprehensive Resurvey of Urban Lands (ULB Limits) as a conclusive record of titles as per AP Survey and Boundaries Act, 1923 (S&B Act 1923) using modern Technologies viz., Drones, CORS & Rovers and Geospatial Technologies.

The Project covers entire Andhra Pradesh state covering 123 ULBs with approximate area of 5548.90 Sq.Kms. It is estimated that approximately 50 Lakhs of property ownerships.

The project mainly using the advance technologies in Geospatial, and Drone based images to capture the property boundaries with high accuracy and integration of Revenue/Survey Records and Property data along with Ground truthing to generate the '**Certificate of Ownership / Hakku Patram''** to property owner.

3.2 Stages of project

Following are the major activities are to be covered under this RFP scope

- Integrating the Property tax data base and Existing Land/Survey data to create Municipal Assessment Data Base and take up for purification known as PoLR (Purification of Land Records).
- Drone fly would be conducted to create ULB Maps through Ortho-mosaic of Images to prepare the Ortho Rectified Drone images.
- Development of an integrated web and mobile application to host and access Ortho rectified images (ORIs) and development of a GIS-based property information system.
- Integration of different sources/formats of spatial and non-spatial data into GIS platform.
- Mobile application to validate the data on ground and update the information.
- Generation of reports/forms as per SOP whenever required and requested.
- Preparation of dashboard to monitor project progress.
- Data quality check certifications at various levels till generation of final title certificate.
- Auto generation of 'Unique Land Property Identification Number' for each property as per approved format.

The total project flow has explained below to understand the aim of the project, its flow, and deliverables which will implemented by CDMA i.e,

Ward Secretariat and ULB teams by using the web and mobile-based GIS tools provided by SI. The Project divided into 5 Stages.

A. **Project Initiation:**

Initiation stage involves publicity on project, gathering all the secondary information such as RSR, FLR, TSR, SFA Revenue Maps, Town Maps purification of Land records, organisation the data into property wise and collecting the missing information

B. **Drone image Acquisition**

This stage involves Identification of GCP locations, Rover's synchronisation with CORS network, acquisition of Drone image for ULB, post processing and ortho rectification of image (ORI).

C. **Data creation**

This is the crucial stage of the project, where it involves the web application to vectorise the parcels in GIS platform on ORIs and integrating the data which is prepared at initial stage and field verification of each property and updation of missing information.

This stage also involves the measurements of property boundaries.

D. **Data finalisation**

This stage involves multiple stakeholders including property owners to finalise the data, random quality checking by supervisory teams, disputes clearance by magistrate teams and finalisation of data with respect to owners' acceptance.

E. **Output**

Generation of property wise Title certificates and issuance to public (ULPIN)
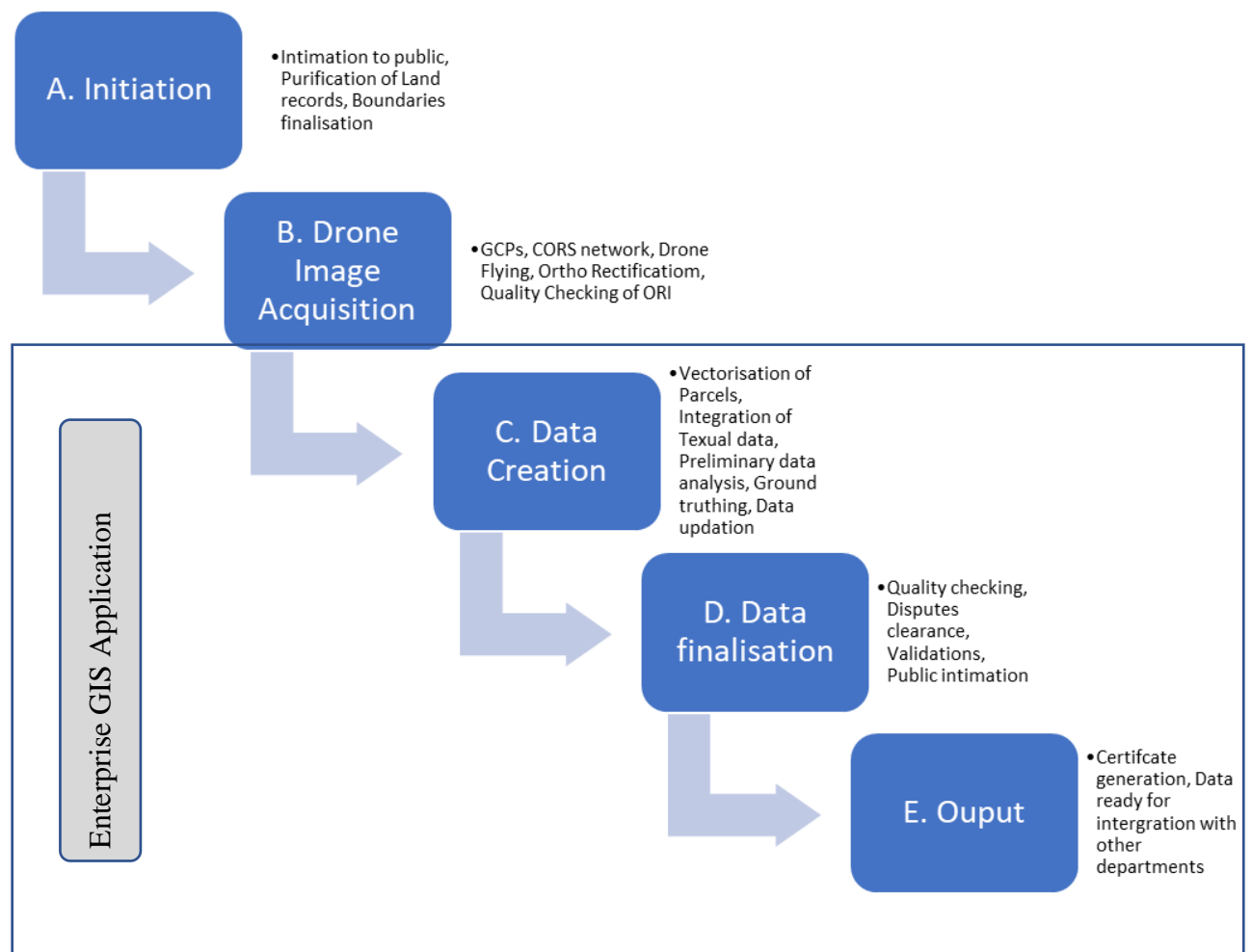
A. Initiation
- Intimation to public, Purification of Land records, Boundaries finalisation

B. Drone Image Acquisition
- GCPs, CORS network, Drone Flying, Ortho Rectificatiom, Quality Checking of ORI

Enterprise GIS Application

C. Data Creation
- Vectorisation of Parcels, Integration of Texual data, Preliminary data analysis, Ground truthing, Data updation

D. Data finalisation
- Quality checking, Disputes clearance, Validations, Public intimation

E. Ouput
- Certifcate generation, Data ready for intergration with other departments

Figure 1: Stage of Project

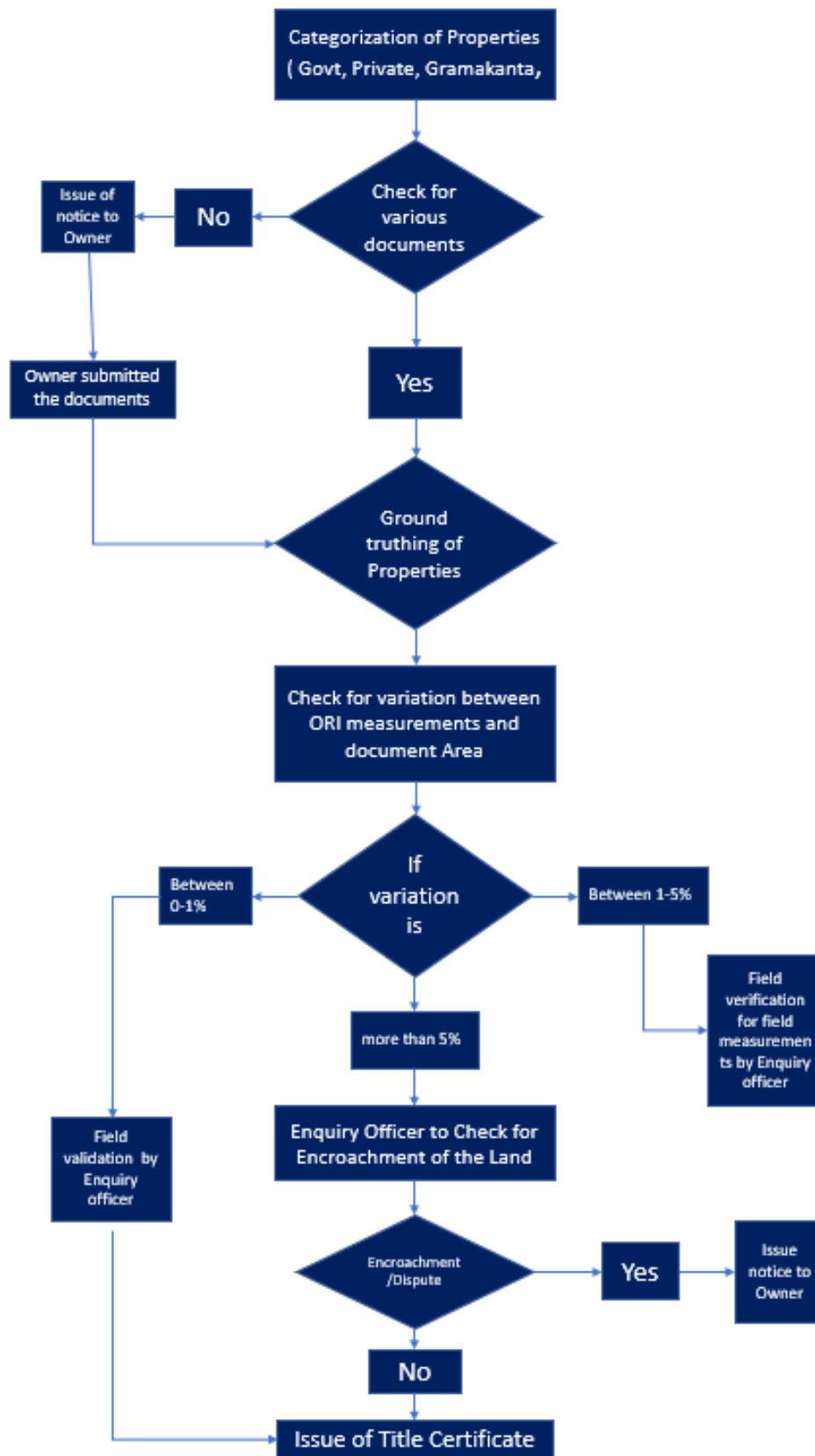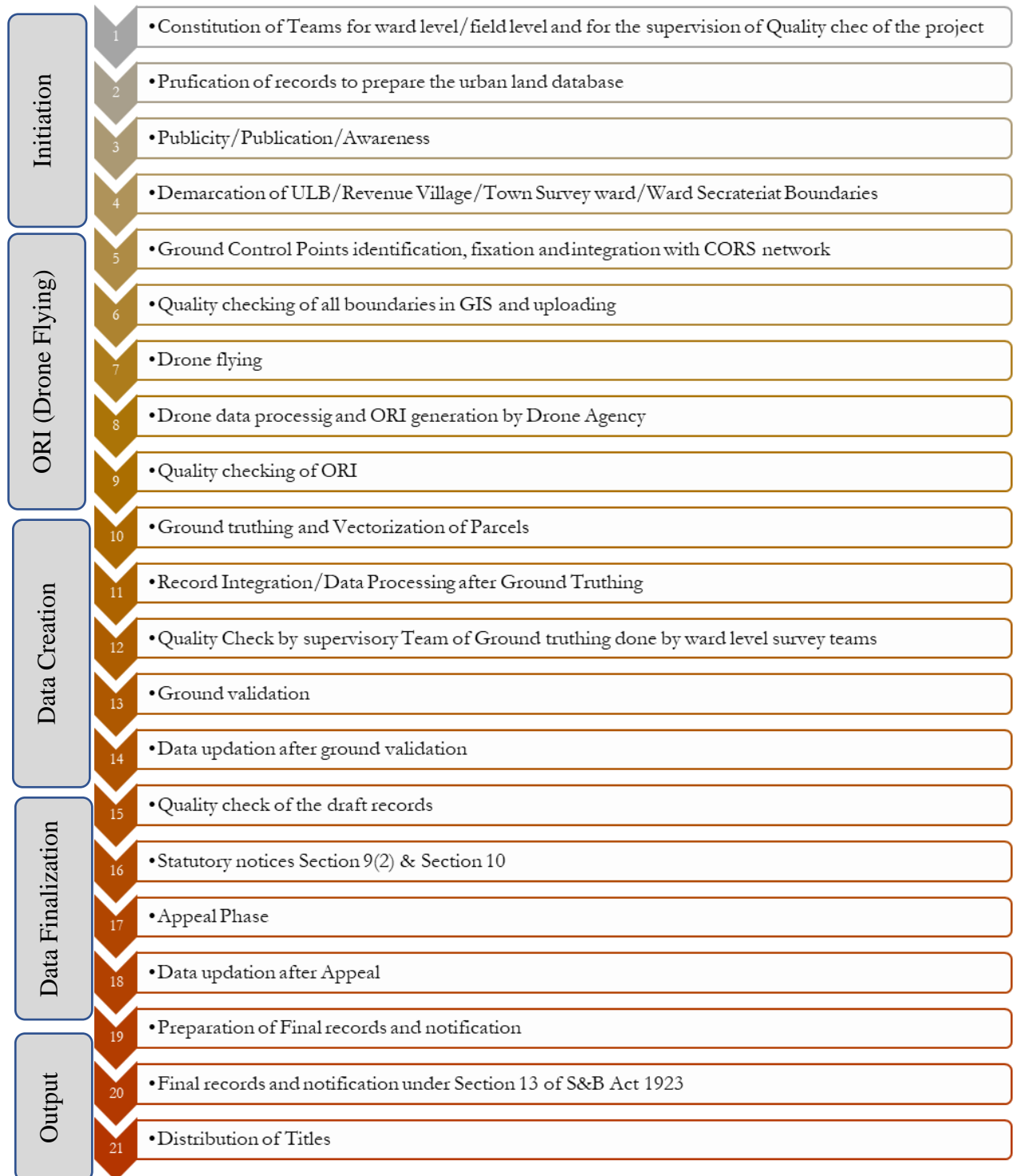Process of Title Ownership Certification

Figure 2: Process of Title Ownership Certification

Activities under SOP

The Government has prepared the Standard Operating Procedure (SOP) to implement the Resurvey project specifying the formation teams, team structure, roles, and responsibilities of each team, step by step process till the final output. Below are the major activities under SOP.

Initiation	1	• Constitution of Teams for ward level/field level and for the supervision of Quality chec of the project
	2	• Prufication of records to prepare the urban land database
	3	• Publicity/Publication/Awareness
	4	• Demarcation of ULB/Revenue Village/Town Survey ward/Ward Secratariat Boundaries
ORI (Drone Flying)	5	• Ground Control Points identification, fixation and integration with CORS network
	6	• Quality checking of all boundaries in GIS and uploading
	7	• Drone flying
	8	• Drone data processig and ORI generation by Drone Agency
	9	• Quality checking of ORI
Data Creation	10	• Ground truthing and Vectorization of Parcels
	11	• Record Integration/Data Processing after Ground Truthing
	12	• Quality Check by supervisory Team of Ground truthing done by ward level survey teams
	13	• Ground validation
	14	• Data updation after ground validation
Data Finalization	15	• Quality check of the draft records
	16	• Statutory notices Section 9(2) & Section 10
	17	• Appeal Phase
	18	• Data updation after Appeal
	19	• Preparation of Final records and notification
Output	20	• Final records and notification under Section 13 of S&B Act 1923
	21	• Distribution of Titles

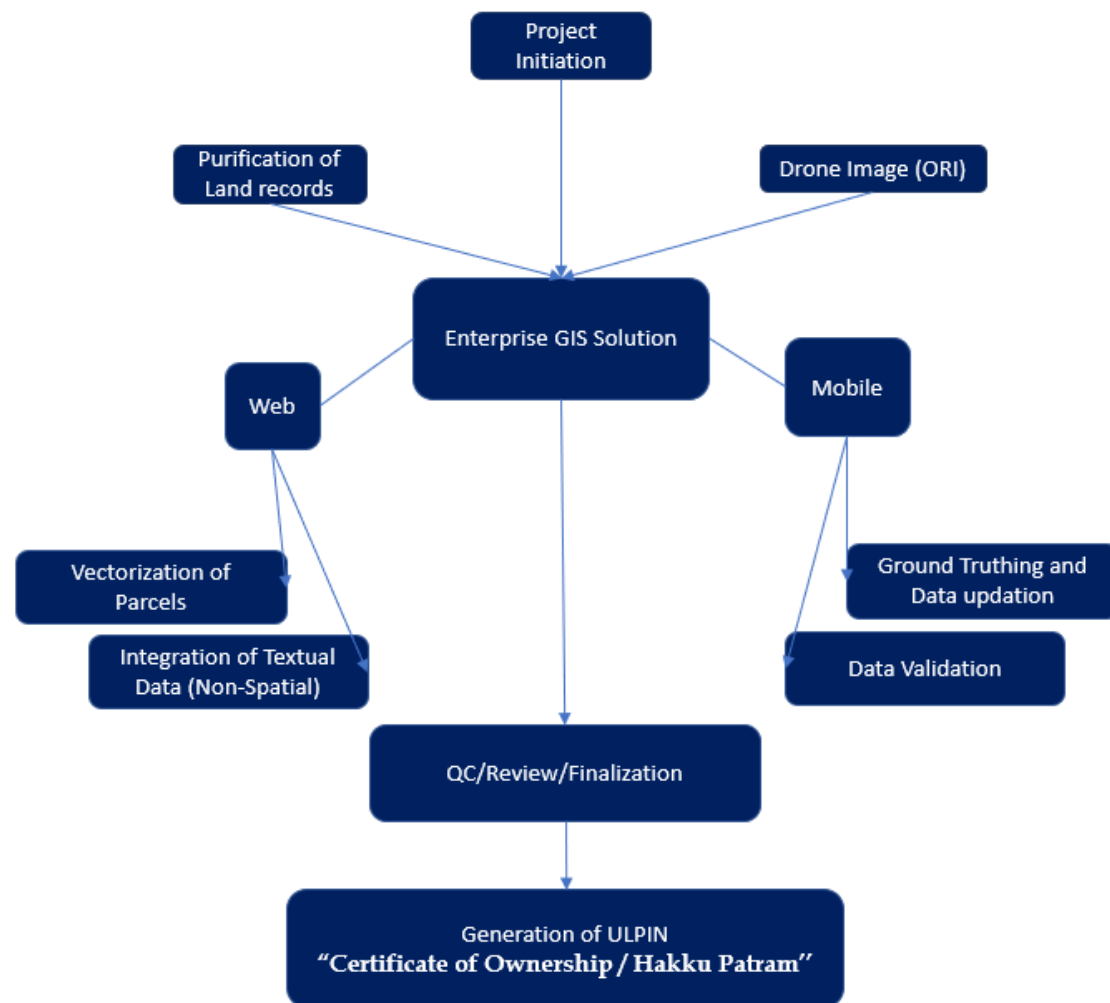**Enterprise GIS Solution role in the project**

Figure 3 :Enterprise GIS Solution role in the project

3.3 Detailed scope:

The Scope of the work involves activities from stages C which is mentioned above and the following are the various components of the work envisaged under the current RFP process. It is proposed to select a Single Agency (which can be in the form of a Consortium of Companies) to develop a GIS based integrated web and mobile application to carry out end-to-end responsibilities in respect of resurvey activities in all the ULBs in the State

3.3.1 Successful Bidder/SI's Role
a. Pre-Implementation Phase

   a) The Successful Bidder/SI shall assess and collect all the available data/maps from the department (soft copy and or hard copy) namely, administrative boundaries such as ULB Boundary and Ward Secretariat Boundary, Revenue Maps, and ORIs of ULB

b) The Successful Bidder/SI shall evaluate core available datasets for completeness and detail to ensure that it is sufficient for supporting the CDMA's newly proposed as well as future planned business needs and identify potential data efficiency improvements (e.g.data normalization/data architecture).

c) The Successful Bidder/SI shall have a detailed requirement gathering from CDMA and other concern departments to detail out all the requirements towards creation of FRS, SRS and SOPs to be developed in the State Enterprise GIS Solution.

d) The Successful Bidders/SI shall undertake sizing of the requisite Software as well as Hardware and suggest CDMA in procurement before the implementation phase.

e) The Successful Bidders/SI shall Design, Develop and Implement State Enterprise GIS Solution.

b. Implementation Phase

a) The Successful Bidders/SI shall Successful Bidder/SI shall do technical support the State Enterprise GIS Solution for the period of 6 months.

b) The Successful Bidder/SI shall propose the teams for this along with their roles, job descriptions and profiles to deploy at CDMA's office

c) Technical support includes, but not limited to, production monitoring, troubleshooting, and addressing the functionality, availability, and performance issues, implementing the system change requests etc. The Successful Bidder / SI shall keep the application software in good working order; perform changes and upgrades to applications as requested by the CDMA.

d) All tickets related to any issue/complaint/observation about the system shall be maintained in an ITIL compliant comprehensive ticketing solution.

e) Team of helpdesk shall propose to solve the technical errors when field teams call.

c. Post Implementation Phase

a) The Successful Bidders/SI shall Successful Bidder/SI shall do Operation and Maintenance support the Enterprise GIS portal for the period of 3 years.

b) The Successful Bidder/SI shall propose the teams for this along with their roles, job descriptions and profiles to be deployed at Bidder's location.

c) Operation and Maintenance support includes, but not limited to, production monitoring, troubleshooting, and addressing the functionality, availability and performance issues, implementing the system change requests etc. The Successful Bidder / SI shall keep the application software in good working order; perform changes and upgrades to applications as requested by the CDMA.

f) All tickets related to any issue/complaint/observation about the system shall be maintained in an ITIL compliant comprehensive ticketing solution.
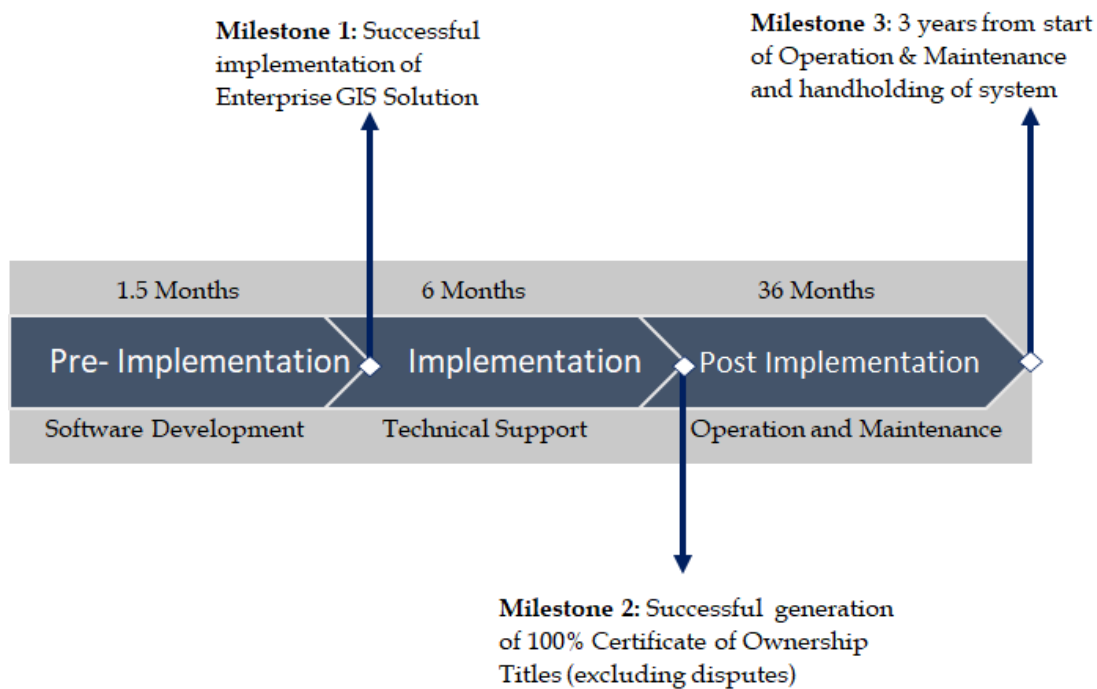
3.3.2 CDMA's inputs and counterpart services and facilities:

a) All the Hardware will be procured by CDMA upon the suggestions from successful bidder/SI

b) CDMA will facilitate to install the servers and storage at State Data centre.

c) CDMA will provide the Office space to successful bidder/SI as per section 4.11.7

d) GIS Input layers (ref: Annexure 9)

e) Different form's structure (Annexure 10) and UPLIN generation procedure/format

f) Final Certificate format and content.

In view of the above, the following functional requirements have been identified for development of **Enterprise GIS Software Solution** including creation and maintenance of a centralized spatial database for providing services to ULB Users, Supervisors, Property Owners, and Integration with other Applications.

Software should meet the following key features:

Provide Single integrated collaborative Platform based Software which should support complete workflow for design, development and dissemination of highly accurate Land Records Information and generation of Certificate of Ownership. Solution should support Desktop, Server, Image processing, Mobile & Cloud Platform

3.4 Modules:

S. No	Module Name	Functional Requirements
1	**User Administration Module**	Role based login
		Login Master Data creation for ULB Users.
		User Login Management
		Geofencing the view as per user specification
2	**Geoportal Visualization Module**	Open-Source Image layers such as Google Earth as base map Layer
		Accessing ORI Data, other images from Image Server
		Selection of map view bases on ULB boundary and ward secretariat and Sy.no and Revenue Village, Survey Ward / Block wise boundaries
		Overlay of layers, Layer management, Labelling and other basic map features such as zoom, pan, exporting Attribute data and Predefined templates for map exports
		Geo fencing of data as per user level and jurisdiction
		Auto Area measurement, length measure
		Identifier Tool for Attribute Data Visualization
		Exporting the map in pdfs with specified sizes
3	**Query Module**	Search by Attributes
		Spatial Queries
		Search by Village Name, Sy No, Assessment, Chaltha number (Unique no of property) or owner name
4	**Integration with other systems**	Creation of webservices / rest APIs to other Software Applications
		Integration with other modules
5	**Enterprise GIS Desktop (Brower based)**	Auto Generation of ULPIN as per format and Chalta number (Unique Parcel Number)
		Accessing ORI Data, other images from Image Server
		Maintain unique property ideas for lots and units while also maintaining their relationship (Flats in a Apartment, Shops in a complex, etc.)
		Auto calculation of shape areas as per units
		Snapping tool and Vertex modification
		Capable to Generate thematic maps with predefined symbology and option of Background Open source Google Satellite images as Base map *Note: To prepare the Symbology, Geodatabase Schema Bidder follow the TCPO's design and standards Guidelines on GIS database layers.*
		should support adding, updating, editing or deleting

		GIS data.
		GIS data modal should support domains, subtype, spatial rules and relationship, joins and spatial references etc.
		Spatial adjustment tools including Rubber sheeting, Transformation, Edge matching, Attribute transfer such as Spatial Join
		Spatial Join Tool to transfer Point to Polygon
		Importing of Spatial data
		Draw Tools such as Parallel, perpendicular, Buffer, Trace
		GIS Solution must have a GIS catalogue to manage and maintain the GIS data model. It must support database administration for user creation and management for GIS database.
		Generation LPM Reports as per formats mentioned
6	**MIS Reports and Auto Generation of forms Module**	MIS Reports Design
		MIS Reports generation
		Check the Appendix- X for different types of auto generation forms bases on activity and roles
7	**Legal / Disputes Management Module**	Entry of Disputes / Legal Cases
		Tracking of Case IDs
		Status Reporting
8	**Dashboards Module**	Design of Dashboard
		Daily Status reports submission
9	**Problem Management / Issue Tracking Module (ULB Wise)** **Issue Tracking Management System (ITMS)**	Problem Reporting
		Problem Resolution
		Problem Status Tracking
		email/ SMS alerts with delivery status tracking
		FAQ for resolving problems
10	**Mobile Application**	LPM Data download in offline mode
		Editing in offline and synchronisation when online
		Edit Vertices, modify the parcels
		Support attribute data updation from the field
		Displaying lengths and angle while in editing mode

3.5   Functional Requirements of modules

The proposed GIS based solution for "Urban Property Mapping under AP- Resurvey Project" should be integrated solution of a single Platform Provider only. The proposed integrated solution should have below mentioned components.

- **GIS and Image Processing components with all extensions in a single COTS Desktop Platform**
- **GIS, Image Analysis and Processing components in Single COTS based Enterprise Platform**
- **GIS based Mobile Survey App for Android Tablet / Mobile.**
- **GIS Portal along with Dashboard for Monitoring Project progress.**
- **MIS for reports and forms generation**

The proposed software should have functions of GIS and raster analysis along with advance modules such as auto identifying the topological errors, Dynamic maps visualisation based on field activities, data correctness and completeness etc. The software should have minimum technical functionalities as under

3.5.1 General features:

1	The Proposed solution should be an integrated solution only having GIS and Image Processing components in single COTS Desktop software, COTS enterprise platform with GIS and Image processing components, GIS based Field survey App and Survey Monitoring Portal. **The overall proposed solution should be of Single GIS Platform with seamlessly integrated with the mobile application**
2	GIS Software must allow department to implement a centrally managed GIS providing the advantage of lower cost of ownership through single, centrally managed, focused GIS applications (such as a Web application) that can be scalable to support multiple users and saves the cost of installing and administering desktop applications on each user's machine. And the same technology shall be used for seamless integration
3	Software should provide for audit trail of changes to the data and support metadata management
4	The software should support multiple Predefined Geographic Coordinate Systems, multiple Projected Coordinate Systems, and multiple Vertical Coordinate Systems and Ability to Create and Use Custom Coordinate Systems
5	It shall have User Management component for defining user roles to control the access of tools and database as per CDMAs requirement.
6	The software should support images with More than 8 bits per band (11,16,24)
7	ODBC compliance enabling interface with RDBMS like Oracle, SQL server, Access etc. should be there

8	The visual elements of the system should be consistent and the architecture should be scalable /expandable.
9	The data finalisation is in three phases ie., Data Creation, Data updation, Data Validation. The backup of each final phase should be available whenever required. The system should note each change with respect to user, time, type of change till final closure of LPM
10	It shall have dashboard with custom charts for CDMA Senior Officials to monitor and analyze the use of data and performance of the applications.
11	The Software should have out of box functionality to generate LPM automatically in fixed templates. The LPM should be generate in pdf format in different scales as per the Plot size and shapes
12	Shall be compatible for accessibility from any device (i.e. Mobile, Tablet and Laptop), Standard Operating Systems and Internet Browsers.
13	The software should be able to produce Coordinate Geometry COGO Map (having coordinates, bearings, boundary lengths, and plot area automatically for each plot).
14	**Raster Database**: Should be available ORIs and also archive acquired satellite images of previous projects, Master Plans, Any other should be loaded.
15	The Software should be OGC compliance (latest version)
16	It shall have provision to generate custom reports. The total of number reports and types shall be finalized during System Requirement study phase.
17	System should be designed and developed in such a way that it will be foundational for future enhancements.
18	System should be flexible to accommodate new/additional pages/integrations and should allow for changing the interface template as and when required by the CDMA

3.5.2 COTS Integrated Single Desktop Platform having GIS and Image data Processing

19	Image enhancement, classification, processing. Software should allow users to export query results to various file formats like ECW, EMF, BMP, TIFF, JPEG, PDF, etc.
20	Software should have provision to create and save macros / templates using the inbuilt Rapid Application Development (RAD) platform
21	Facility to define joins between the two tables of the database to get integrated information in the table and perform GIS analysis
22	The software should allow user to create layers or shortcuts to geographic data that store symbology for displaying features
23	Software should have various query tools for queries based on attributes, location, etc.
24	the enterprise must support all types of geodatabases - personal geodatabase, file geodatabase, and enterprise geodatabase.

25	Software should have basic Navigation toolbar such as Pan, Zoom, and Rotate the Map according to user requirements and should also be able to use Mouse Wheel for zoom-in and zoom-out, The software should have ability to search and to zoom into the user specified x, y coordinates, The software should have facility to create and organize user desired number of Spatial Bookmarks and should be able to share the same.
26	The software should have capabilities to direct read the CAD data, edit the CAD data as well can assign coordinate system to the CAD data.
27	The software should support all types of raster formats and services like ERDAS IMAGINE, Grid Stack, and ECW, Geodatabase Raster, GIF, JFIF, JPEG, JP2,CEOS, PNG, GeoTIFF & Web Coverage Service (WCS, OGC standard), Web Map Service (WMS), any other OGC standard.
28	The software should support vector and raster referencing and also with the help of various transformation methods.
29	The software should have geometric construction options and geometric creation tools.
30	The software should have capabilities to create hotspot, density and interpolation
31	The software should have extensive capabilities for spatial editing like editing, Multiple Layers, integration with field editing, snapping, topology, tolerance, multipart feature editing.
32	The software should support Coordinate Geometry tools.
33	The software should support parcel editing
34	The software must have Multiuser GIS database editing option where users can Isolate Editing Projects in Separate Versions/sessions/workspaces (Create).
35	The software should support the Topology and Topology rules.
36	The software should have tools and options like raster management, conversion tools, proximity, analysis, packaging, spatial statistics, geometric network tools, data indexing etc.
37	The software should have advanced cartography options
38	The software should had address matching and geocoding tools
39	The software should have advanced labelling options which can have labelling options for Mining and geology related data.
40	The software should have the Geometric Correction tool for assigning geographic or projected coordinates and to remove the geometric distortion in the image. It should also provide the functionalities for Atmospheric correction for Haze reduction, and DN to Reflectance conversion.
41	The software should have image transformation modules e.g., Principal Component Analysis (PCA), Inverse PCA, De-correlation Stretch and vegetation indices etc., for information enhancement. It should have the tools for image fusion using various image fusion algorithms like Pan sharpening, Wavelet, Brovery multiplicative, and HIS etc. for spatial resolution

	enhancement of the image.
42	The Enterprise GIS software must be OGC certified and must have the capability to serve and consume OGC complied web services including WMS, WFS, WCS, CSW, INSPIRE, etc.
43	The Enterprise GIS software must be highly interoperable with the ability to import and export to a wide range of industry standard formats including KML, KMZ, CAD (DGN, DXF, DWG), MapInfo, GML (GEOGRAPHY MARKUP LANGUAGE), XML, SHP, ArcInfo Coverage, ESRI Arc Info Export (EOO), Micro Station V7/V8, Geo PDF GeoJSON, GeoRSS, SqlLite etc.
44	The Enterprise GIS software should have geo-processing framework, geo-processing core analysis functionalities, Image Analysis, spatial and statistics analysis functionalities.
45	The Enterprise GIS software should have all the Geo-processing and Image processing function such as buffer creation, clip, erase, image enhancement, image filtering, Vegetation Indices Calculation, Supervised classification etc., to perform the processing at server end by sending the request using the web client and should enable the WMS service to display the processed data on web
46	The software should enable the authorized users to create and manage groups to control publishing the data and its services on Data store/workspaces.
47	The Software should have the capability to create SLD as per the legend applied and software should be able to integrate third party SLD as well.
48	The Software should have the capability to publish the SLD along with the other layers.
49	Shall have ability to print maps to a printer/plotter with the selection of paper size (A2, A1, A0, Letter, Tabloid etc.) at suitable scale and page orientation (landscape or portrait). It Shall have print preview option

3.5.3 GIS based Field Survey Mobile App

50	The Successful Bidder/SI shall design and develop a cross-platform Mobile GIS application should support Android based Tablets/Mobile.
51	Shall be able to work in both with or without internet connectivity and shall be able to sync its data-to-Data Center (DC) storage when the internet is made available to the mobile. The data so captured shall be stored in the standard format in the DC and in secured environment. DC storage shall be able to sync concurrent data from the field as per field requirement.
52	The Application should have functionalities like Content Management, Users Managements, Monitoring, Approval system for field survey activities, Charting, Assigning the field survey area. The mobile app should have facilities to sync with servers.
53	Mobile GIS application is expected to integrate with enterprise GIS system, which shall be the common GIS platform
54	Geo-tagging of work wise evidences, in the form of photographs, video and its latitude & longitude and department specific attributes.

55	Shall have ability to configure security to assure that only authorized persons are allowed to sign in.
56	The application should provide display, navigation, measurement, layer management, draw/edit and GPS management functions.
57	The mobile GIS app should be able to display the vector data with color and symbology. The mobile app should have facilities to consume OGC map services
58	The application should allow user to create or design table structure or data dictionary of particular feature
59	The application should have functions such as draw point/line/polygon features, attribute editing and delete point/line/polygon features. The snapping tools should be available for drawing in Mobile app.
60	The GPS tool of the application should be able to collect point, line and polygon features.
61	The application should have tools such as query builder, identify, clear selection/refresh and find feature by location.
61	The mobile application user interface should be customizable as per user requirement.
63	The application must have tools for linear and area measurement. Automatic area generation facilities should be available for Area, line feature
64	The Successful Bidder shall ensure that few functionalities of this application shall also be available in the mobile app for official to perform field verification of the surveyed data. Detailed requirement shall be finalized during System Requirement study phase.
65	The mobile application should have form building capability.
66	The mobile GIS/GPS application should have support for the smart phones and tablet devices with GPS, External Locational devices like DGPS Rover, CORS Support. Map Display and Query on attribute from GIS Server.
67	It should have support for both Online and Offline mode.
68	Fetch up to date imagery and Vector data from a connected Web GIS Server on device Create reports while in the field.
69	Send geotagged pictures from device to GIS server, Should be able to add the third-party geo services Integration of excel file and should have functions to join excel data w.r.t vector data

3.5.4 MIS and Auto Generation of forms/Certificates

70	Statuary notices under section S&B Act initiation of the respective activity in the Resurvey process
71	Chaltha /Khata Number (Unique Parcel Id) Generation
72	Property Title Certificates generation as per the CDMA/Government
73	Revenue Village Maps, Town Survey Maps, Ward Secretariat Maps, Block

	Maps & ULB Maps generation.
74	MIS - Reports generation
75	Total Forms and Generation of forms as mentioned in Annexure 11

3.5.5 Dashboards:

76	Shall be able to provide management with easy-to-understand, easy-to-use reports that use appropriate info graphics (Charts) to monitor the performance and usability of the Resurvey project.
77	Dashboard gives Location enabled Realtime tabular and graphical representation and comparison of data by such as State wise, Region wise, District wise, ULB wise, Revenue village wise, Survey ward wise, block wise and Ward Secretariat wise
78	Preparation of Dashboard application and Daily status reports for submission to CMs Dashboard / CCLA / CDMA and other higher officials, District Collectors and Revenue Officials, Municipal Commisioners, .
79	Daily monitoring reports generation for QA/QC of ORIs and delivery status of ORIS and Drone flying status by Drone Service Providers.
80	Daily monitoring reports generation for LPM generation.
81	Correlation statements between existing and generated data

3.5.6 Database Storage:

82	ORI Images and other satellite images of all ULBs needs to be stored and which will be accessed in Desktop and Mobile through image server.
83	Data needs to be stored in a central database and support the concurrent multiuser editing necessary for many data management and GIS database replication workflows.
84	The RDBMS should support 64 bit operating system and the licenses should be processor perpetual in nature. All data stored in RDBMS must be able to be published via GIS Application software in OGC certified WMS and WFS service.
85	To ensure maximum data interoperability, all vector and attribute must be stored in industry standard RDBMS. The proposed solution should have the capability to consume and serve data directly from supported RDBMS

3.5.7 Hardware:

86	Successful bidder will prepare Enterprise Architecture / Solution Architecture and suggest the CDMA department about the GIS software, Hardware, and Networking requirements to set up a GIS System by CDMA.
87	CDMA will procure the necessary hardware based on bidder recommendations to meet geo-spatial management requirements for the

	project.
88	Setup should provide High available environment and needs to be deployed at State Data Centre, Vijayawada
89	Server Software should be 16 cores based and should run as a native 64-bit application and should support Windows 64- bit and Linux operating systems 64-bit. Server licensing should not be restricted by Hardware / Users / Instance or Sites for this project. OEM undertaking to this effect to be submitted by bidder.
90	Web Servers - Web Server
91	Application Servers - Host Land Records information, services, contents, live feeds and act as Platform Gateway
92	Database Server - Provide Industry Standard RDBMS (Oracle /SQL Server/ PostGres) for storage of Spatial / Non-Spatial Enterprise data.
93	Workstations – To be deployed by Successful bidder at CDMA office for necessary management and access of information.
94	SAN / NAS Storage - It is assumed that Departments will generate around 10 TB of data in next 2 years. Expandable SAN / NAS Storage needs to be provided to support the same.
95	Bidder should recommend Scalable Hardware, which should meet expectations of GIS Platform for Land Records in next 5 years.

3.5.8 Security and User Management

96	Shall support single sign-on in the system
97	Shall allow Active Directory, LDAP, or other security source
98	Shall not require opening of any special protocols for connecting the user client to the web/application server used by the package. All communication shall be on HTTP or HTTPs.
99	Shall allow group-based security policies
	The Successful Bidder/SI shall suggest firewalls that natively support all protocols required between the various servers (database, application and web) in the package. No special configuration should be required to configure the firewall.
100	Application users shall not have direct access to the database
101	Any changes to data shall be recorded in a separate table and shall be stamped with the identity of the user/program and the date / time of the creation/change
102	Shall provide reports on user activity based on the role and the application that was used.
103	The Successful Bidder/SI shall be responsible to get the application Security Audited by the CDMA Cert-In empanelled Security Auditors.
104	System shall have necessary security features against hacking and

	defacement
105	System shall comply fully with relevant guidelines for website development issued by the Government of India and the Government of AP (if any) from time to time.
106	System should support configurable password policies including Password expiry • Password complexity • Password history and reuse policy • Forced password change on first log on • Capability of self-service reset of passwords in case of forgotten passwords or locked accounts. • Shall support security system with a full-fledged Role Based Access Control (RBAC) model
107	Should have online help files and user manual with use cases for the end user

3.6   System Support & Maintenance

Once the proposed enterprise GIS solution including web and mobile applications have been commissioned, the Successful Bidder/SI shall support the State Enterprise GIS portal for the period of 6 months. The Successful Bidder/SI shall propose the teams for this along with their roles, job descriptions and profiles.

Application support includes, but not limited to, production monitoring, troubleshooting and addressing the functionality, availability and performance issues, implementing the system change requests etc. The Successful Bidder / SI shall keep the application software in good working order; perform changes and upgrades to applications as requested by the CDMA

All tickets related to any issue/complaint/observation about the system shall be maintained in an ITIL compliant comprehensive ticketing solution.

3.7   Manpower Deployment

Successful Bidder/SI shall deploy fulltime onsite team during implementation phase which shall preferably consist of following members.

S.No	Role	No of Members
1	Team Lead	1
2	GIS Developer	1
3	Business Analyst	1
4	GIS Expert	1

5	Help Desk/Project Coordinators (Minimum educational Qualification: Diploma/ any degree in any discipline with more than 3 years of project co-ordination experience)	4

3.7.1 Roles and responsibilities

Team Lead	• Identify and analyze the functional requirements • Prepare/Review the SRS and Design documents • Liaison with the customers for project execution • Responsible for project deliverables to the CDMA • Responsible for project Quality • Project planning, tracking progress and project controlling • Decision and appropriate action for customer reported issues • Monitor &Analyze capacity and availability Management • Configuration Management planning and implementation • Ensure change management and change evaluation • Co-ordinate project supporting team activities • Ensure coding guidelines are implemented • Release Estimation and Planning • Release Rollout/Rollback Plan • Ascertain the closure of release cycle • Integration, communication and Human Resource management within the project. • Employee performance evaluation • Training plan for end users • Any other responsibilities as required from time to time
GIS Developer	• Designing functional technology solutions • Understand client needs to define system specifications • Providing technical leadership and support to software development teams. • Plan and design the structure of a technology solution • Communicate system requirements to software development teams • Evaluate and select appropriate software or hardware and suggest integration methods • Oversee assigned programs (e.g. conduct code review) and provide guidance to team members • Assist with solving technical problems when they arise • Ensure the implementation of agreed architecture and infrastructure • Address technical concerns, ideas and suggestions

	• Monitor systems to ensure they meet both user needs and business goals. • Any other responsibilities defined from time to time as suggested by CDMA.
GIS Expert	• Develop/Use necessary tools for loading/transferring GIS data between different systems • Create and maintain the structures necessary for GIS data storage • Use tools to join together different GIS datasets and create new information or investigate patterns. • Plan GIS teams work • Monitor and track GIS teams work for on time completion. • Preparation of WMS layers / services for the usage of other departments. • Updation to Geo portal. • Planning, Implementation and Monitoring of GIS/GIS-integrated applications. • Any other responsibilities defined from time to time as suggested by CDMA
Business Analyst	• Documenting and translating customer business functions and processes. • Warranting the system design is perfect as per the needs of the customer. • Participating in user acceptance testing of the new system • Helping in domain training and coaching professional and technical staff. • Drives analytics projects requiring collaboration with business stakeholders from beginning to end • Defines, implements and standardizes metrics, reports and dashboards for the business • Generates follow-up questions with stakeholders, refines data findings and interprets again to drive data-based insight • Develops new and better analytics approaches to solve questions in a creative way. • Any other responsibilities defined from time to time as suggested by CDMA.
Helpdesk Team	• Nos of team representing the 4 Regions • Providing the Technical assistance to field survey team in all aspects of technical issues • Take note of field issues and escalating to the technical team • Training the Master Trainers from all ULBs. • Estimated Master trainers will be 300 Nos

	• Documenting the field issues and preparing the SOPs and circulating to field staff.

3.8 Project Timelines

CDMA envisages the completion of the project (the Scope of Work has been given in Section 3) within a timeframe of 188 weeks (includes Go-Live in 6 weeks and Implementation phase of 26 weeks and Operation and Maintenance of 156 weeks Months) from the date of contract signed. An Indicative Project Timeline has been given below:

Sr. No.	Activities	To be completed (in Weeks) by
1.	Signing of Contract	T
2.	Submission of Project Implementation Plan , Submission of Project Inception cum Assessment Report (Project Background, Project Overview, Project Scope, Project Organizations, Project Structure and Roles, Project Deliverables, Department-wise data source, GIS Data-model report with E.R Diagram, Gap Analysis report and Hardware sizing report)	T+1 week
3.	Submission of Functional (FRS) and System Requirement Specification (SRS) Document (Hardware)	T+2 Weeks
4.	Completion of Designing, Development, Testing & Deployment and Integration of State Enterprise GIS Portal and Mobile App	T+3 Weeks
5.	Supply, Installation, Commissioning of Hardware and Software	T+4 Weeks
6.	User Acceptance Testing , Completion of Security Audit by the Cert-In empanelled Security Auditors.	T+5 Weeks
7.	Completion of Training and Go Live	T+6 Weeks
8.	Post Go-Live inhouse Technical Support	T+32 Weeks
9.	Operation and Maintenance (O&M)	T+ 188 Weeks

Note: Total Project duration includes O&M, which is 188 weeks

DRAFT CONTRACT

4   General Conditions of Contract (GCC)

These General Conditions of Contract (GCC), read in conjunction with the Particular Conditions of Contract (PCC) and other documents listed there in, should be a complete document expressing fairly the rights and obligations of both parties.

4.1   Governing Law

The Contract shall be governed by and interpreted in accordance with the laws of the India

4.2   Payment Terms & Milestones

4.2.1 Deliverables
Below deliverable must made after completion
- Solution Architecture for Implementation of WebGIS Application
- Project Management Plan
- Functional Requirements Specifications (FRS) document
- Software requirements Specifications (SRS) document
- Storage requirements of Spatial Database
- Data Structures and data models for creating spatial database for the entire state
- Design of spatial Database (Software Design Document, SDD)
- Software Test Plans and User Acceptance Test cases
- Hardware requirements Document
- Networking requirement Document
- WebGIS Application/Mobile Application
- Maintenance Phase requirements
- Source Code of WebGIS Application
- Geospatial database of Resurvey data for the entire state
- Training
- Online Help
- User Manuals and FAQs

Solution Architecture Document
The proposed GIS Solution should include the following components
   1. **Storage space required for storing the following data**
   a) ORI images
   b) Archived Satellite images
   c) Vector data – LPM layers and other GIS layers mentioned in Annexure
   d) Backup LPM data of 3 stages i.e, Data creation, Data validation and Final approved
   2. **Web GIS and Mobile Application**
   a) Desktop Online (approximately- 5000 user logins)

b) Mobile Online/Offline (approximately- 5000 user logins)
c) Minimum time for the development of application
d) Easy to customize
e) Systems integration

4.2.2 Payment Terms

1. The Bidder's request(s) for payment shall be made to the CDMA in writing, accompanied by an invoice describing, completion of payment milestone. The invoice should be submitted and upon fulfilment of other obligations stipulated in the contract.
2. Payments shall be made promptly by the CDMA after submission of the invoice or claim by the Bidder, only after quality inspection and verification by the CDMA Official of the conformity of the Goods/Products/Services/Solutions supplied as per the agreed specifications.
3. Payment shall be made in Indian Rupees.

4.2.3 Payment Milestones

Phase 1: Design and development and deployment of Integrated Enterprise GIS

S.no	Milestone/Delivery	Payment*	Timeline	Remarks
1	Deployment of Desktop GIS Software and Enterprise Server including Mobile app, Geoportal including Dashboards, and auto generation of forms - Phase1 as per the priority identified by the department	25% of software cost	4 weeks	
2	Customization of Desktop GIS Software and Mobile app which should work both online and offline - as per the priority identified by the department, Training to Master Trainers, , completion of pilot work, Completion of User Acceptance Testing and upon successful Go-live	25% of software cost	8 weeks	Completion of Pilot at least for 10,000 Properties certificate generation
3	After completion of 3 Months successful running of software	15% of software cost	20 weeks	At least 30% generation of ULPINs for properties
4	After completion Implementation phase	15% of Software cost	32 weeks	Inhouse technical support ends when the 100%

				generation of ULPINs for properties where the issues not related to bidders' activity

Note:

1) *Payment will be released only after quality inspection and verification by the CDMA's authorised representative of the conformity of the Goods/ Products/ Services/ Solutions supplied as per the agreed specifications*

2) *Payments do not constitute acceptance of the Services nor relieve the Contractor / Service Provider of any obligations hereunder, unless the acceptance has been communicated by the Department to the Successful Bidder/SI in writing and the Successful Bidder/SI has to made necessary changes as per the comments/ suggestions of the Department.*

Phase 2: In house Technical Support for project implementation stage

S.no	Milestone	Payment	Timeline	Remarks
1	on every month successful completion of technical support for implementation phase	As per remuneration	Monthly	

Note:
- Successful Bidder/SI shall deploy their personnel as per the proposed personnel deployment schedule (6 Months). CDMA will pay consultancy fee on monthly basis on submission of the monthly progress report and attendance of the all the personal deployed during the month.
- Monthly man-days- 26

Phase 3: Operation & Maintenance - Post implementation stage

S.no	Milestone	Payment	Remarks
1	**Operation & Maintenance**	a) cost to be paid in 12 Equated Quarterly instalments (every three months) for 3 years (36	Operation and maintenance period shall start from the date of successful completion

		months) of operation and maintenance period b) Pending 20% of payment from software cost will be paid in 12 equated quarterly	of field activity with 100% generation of ULPINs for properties where the issues not related to bidders activity.

4.3 Change of Consortium Member

1. Consortium member other than the Lead Member may be changed only under extreme circumstances such as non-performance of the Consortium member, insolvency, or bankruptcy of the Consortium member etc. and that too only with the prior written approval of the CDMA.
2. Provided that in the event of any such approved change of Consortium members, the new member (company) replacing outgoing Consortium member shall have same or higher financial, technical, and legal qualifications as the outgoing member, and to the satisfaction of the CDMA. In the event the CDMA does not grant approval for the change of the Consortium member other than the Lead Member or suitably qualified replacement member (companies) are not available/ found, the exit of the Consortium member (other than the Lead Member) shall constitute a breach of the contract.

4.4 Confidential Information

1. CDMA and the Successful Bidder/SI shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract.
2. The Successful Bidder/SI shall not use the documents, data, and other information received from CDMA for any purpose other than the services required for the performance of the Contract.

4.5 Change in Laws and Regulations

Unless otherwise specified in the Contract, if after the date of the Invitation for Bids, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Successful Bidder/SI has thereby been affected in the performance of any of its obligations under the Contract.

4.6 Force Majeure

1. The Successful Bidder/SI shall not be liable for termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

2. For purposes of this Clause, Force Majeure means an event or situation beyond the control of the Successful Bidder/SI that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Successful Bidder/SI. Such events may include, but not be limited to, acts of CDMA in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

3. If a Force Majeure situation arises, the Successful Bidder/SI shall promptly notify CDMA in writing of such condition and the cause thereof. Unless otherwise directed by CDMA in writing, the Successful Bidder/SI shall continue to perform its obligations under the Contract as far as it is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

4.7 Change Orders and Contract Amendments

1. CDMA may at any time order the Successful Bidder/SI to make changes within the general scope of the contract,

2. If any such change causes major deviation in the cost of, or the time required for, the Successful Bidder/SI performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery and Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Successful Bidder/SI for adjustment under this Clause must be asserted within 30 days from the date of the Successful Bidder/SI receipt of CDMA's change order.

3. Prices to be charged by the Successful Bidder/SI for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties, and shall not exceed the prevailing rates charged to other parties by the Successful Bidder/SI for similar services

4.8 Settlement of Disputes

1. Performance of the contract is governed by the terms and conditions of the contract, in case disputes arise between the parties regarding any matter under the contract, Party of the contract may send a written Notice of Dispute to the other party. The Party receiving the Notice of Dispute will consider the Notice and respond to it in writing within 30 days after receipt. If that party fails to respond within 30 days, or the dispute cannot be amicably settled within 60 days following the response of that party, clause GCC 4.8 (2) shall become applicable.

2. **Arbitration:**
   a) In the event of any disputes or difference arising out of or in any way relating to or concerning these presents or effects of these presents, the same shall be referred to the sole arbitration of a person to be appointed by the Special

Chief Secretary to the Government of AP, Department of Municipal Administration. The Successful Bidder/SI shall not raise any objection to such appointments on the ground that such sole arbitrator is Government servant or that in the course of his duties as such Government servant he had expressed views on all or any of the matters in dispute or difference. In the event of such arbitrator being transferred or vacates his office or refuses or is unable to act as such for any reason whatsoever, it shall be open to Special Chief Secretary to the Government of AP, Department of Municipal Administration to appoint another person in his place. The arbitrator so appointed shall be entitled to proceed with the reference form the stage at which it was pending. The arbitrator may, with the consent of both parties to this presents, extend the time for making the award. The award of the arbitrator shall be final and binding on the parties to this presents. Save as aforesaid, the arbitration and conciliation Act, 1996 (Central Act 26 of 1996) and the rules made there under shall apply to the arbitration proceedings under this clause.

b) Arbitration proceedings shall be held in Andhra Pradesh, India and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English

c) The decision of the majority of arbitrators shall be final and binding upon both parties. The expenses of the arbitrators as determined by the arbitrators shall be shared equally by CDMA and the Successful Bidder/SI. However, the expenses incurred by each party in connection to the preparation, presentation shall be borne by the party itself. All arbitration awards shall be in writing and shall state the reasons for the award.

4.9 Extensions of Time

1. If at any time during performance of the Contract, the Successful Bidder/SI should encounter conditions impeding timely delivery of the Services, the Successful Bidder/SI shall promptly notify CDMA in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Successful Bidder/SI notice, CDMA shall evaluate the situation and may at its discretion extend the Successful Bidder/SI time for performance in writing.

2. Delay by the Successful Bidder/SI in the performance of its Delivery and Completion obligations shall render the Bidder liable for disqualification for any further bids in CDMA, unless an extension of time is agreed mutually.

4.10 Termination

4.10.1 Termination by CDMA

1. CDMA may, without prejudice to any other remedy for breach of Contract, terminate this Contract in case of the occurrence of any of the events specified in paragraphs (1) through (11) of this GCC Clause 4.10.1. In such an

occurrence, CDMA shall give a not less than 30 days' written notice of termination to the Successful Bidder/SI.

2. If the Successful Bidder/SI does not remedy a failure in the performance of its obligations under the Contract, within thirty (30) days after being notified or within any further period as CDMA may have subsequently approved in writing.

3. If the Successful Bidder/SI becomes insolvent or goes into liquidation, or receivership whether compulsory or voluntary.

4. If, in the judgment of CDMA has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

5. If, as the result of Force Majeure, the Successful Bidder/SI is unable to perform a material portion of the Services for a period of not less than 60 days.

6. If the Successful Bidder/SI submits to the CDMA a false statement which has a material effect on the rights, obligations or interests of CDMA.

7. If the Successful Bidder/SI places itself in a position of conflict of interest or fails to disclose promptly any conflict of interest to CDMA.

8. If the Successful Bidder/SI fails to provide the quality services as envisaged under this Contract, CDMA may make judgment regarding the poor quality of services, the reasons for which shall be recorded in writing. CDMA may decide to give one chance to the Successful Bidder/SI to improve the quality of the services.

9. If the Successful Bidder/SI fails to comply with any final decision reached as a result of arbitration proceedings.

10. If CDMA, in its sole discretion and for any reason whatsoever, decides to terminate this Contract

11. In the event CDMA terminates the Contract in whole or in part, pursuant to GCC Clause 4.10.1, CDMA may procure, upon such terms and in such manner as it deems appropriate, services similar to those undelivered or not performed, and the Successful Bidder/SI shall be liable to CDMA for any additional costs for such similar services. However, the Successful Bidder/SI shall continue performance of the Contract to the extent not terminated.

4.10.2 Termination by Bidder

The Successful Bidder/SI may terminate this Contract, by not less than 30 days' written notice to CDMA, such notice to be given after the occurrence of any of the events specified in paragraphs (1) through (3) of this GCC Clause 4.10.2:

1. If, as the result of Force Majeure, the Successful Bidder/SI is unable to perform a material portion of the Services for a period of not less than 60 days.

2. If CDMA fails to comply with any final decision reached as a result of arbitration pursuant to GCC Clause 4.8 hereof.

3. If CDMA is in material breach of its obligations pursuant to this Contract and has not remedied the same within 30 days (or such longer period as the Successful Bidder/SI may have subsequently approved in writing) following

the receipt by CDMA of the Successful Bidder/SI notice specifying such breach.

4.10.3 Payment upon Termination

Upon termination of this Contract pursuant to GCC Clauses 4.10.1 or 4.10.2, the CDMA shall make the following payments to the Successful Bidder/SI:

a) If the Contract is terminated pursuant to GCC Clause 4.10.1 (10) or 4.10.2, remuneration for Services satisfactorily performed prior to the effective date of termination.

b) If the agreement is terminated pursuant of GCC Clause 4.10.1 (1) to (3), (4), (5), (6), (7), (8) and (9). The Successful Bidder/SI shall not be entitled to receive any agreed payments upon termination of the contract. However, the CDMA may consider making a payment for the part satisfactorily performed on the basis of Quantum Merit as assessed by it, if such part is of economic utility to the CDMA. Applicable under such circumstances, upon termination, the CDMA may also impose liquidated damages. The Successful Bidder/SI will be required to pay any such liquidated damages to CDMA within 30 days of termination date.

4.10.4 Assignment

If Successful Bidder/SI fails to render services in stipulated timeframe and as per schedule, CDMA, at its discretion and without any prior notice to Successful Bidder/SI, may discontinue or minimize scope of work or procure/board any other similar agency to render similar services to complete project in stipulated timeframe.

4.10.5 Service Level Agreement

4.10.5.1 Pre -Implementation Phase Penalty

a) The service levels to be established for the Services offered by the Successful Bidder/SI to the CDMA. The Successful Bidder/SI shall monitor and maintain the stated service levels to provide quality service to the CDMA.

b) The SLAs may be reviewed on quarterly basis as the CMDA decides after taking the advice of the Successful Bidder/SI and other agencies. All the changes shall be made by the CDMA in consultation with the Successful Bidder/SI.

c) For any delay in installation and commissioning of the project, CDMA shall charge penalty of Rs. 50,000/- per week for the corresponding milestone, up to a maximum of 10% of the total corresponding milestone value.

Training and Capacity Building

1. For any delay in completion of proposed training, CDMA shall charge penalty of @ 0.5% of the corresponding milestone value for first week and for 1.0% for all the subsequent weeks or part thereof, subject to a maximum of 5% of the training cost.

2. Below mentioned SLA will be monitored for the training provided to each batch of department users through feedback survey forms to be provided to each attendee within the program.
3. Desired parameter: At least 85% of the trainees within the training program should give a rating of satisfactory or above if the training quality in the program falls below the minimum service level, it will be treated as one (1) violation. All the violations for the trainings conducted during quarter will be logged and penalties will be calculated on violations/batch.

Desired Parameter	Violations/Batch	Penalty
At least 85% satisfied attendees	0 – 3	No Penalty
	3 – 6	1% of total training cost
	6 – 9	3% of total training cost
	>9	5% of total training cost

Note: Maximum Penalty applicable to the bidder shall not exceed 10% of the Total Work Order value till the completion of Post Implementation support. If the total Penalty exceeds beyond 10%, it would be considered as non-conformance to the Quality of Services and may lead to termination of the Contract and CDMA may on their sole discretion cancel the order.

4.10.5.2   Implementation and Post Implementation (O&M) Phase

The framework for Penalties, because of not meeting the Service Level Agreements Targets is as follows:

a) A quarterly performance evaluation will be conducted using the Quarterly reporting periods of that period

b) The performance will be measured for each of the defined service level metric against the minimum/ target service level requirements and the violations will be calculated accordingly.

c) The number of violations in the reporting period for each level of severity will be totalled and used for the calculation of Penalties.

d) Penalties applicable for each of the **high severity (H) violations' are one (1) % of respective Quarterly payment** to the Bidder.

e) Penalties applicable for each of the **medium severity (M) violations is half percentage (0.5%) of respective Quarterly payment** to the Bidder.

f) Penalties applicable for each of the **low severity (L) violations are Quarter percentage (0.25%) of respective Quarterly payment** to the Bidder.

g) Penalties applicable for not meeting a high (H) severity performance target in two consecutive Quarters on same criteria shall result in additional deduction of 3% of the respective Quarterly payment to the Bidder. Penalty shall be applicable separately for each such high critical activity

h) Penalties applicable for not meeting a medium (M) severity performance target in two consecutive Quarterly periods on same criteria shall result in additional deduction of 2% of the respective Quarterly payment to the Bidder. Penalty shall be applicable separately for each such medium critical activity

i) Penalties applicable for not meeting a low (L) severity performance target in two consecutive Quarterly periods on same criteria shall result in additional deduction of 1% of the respective Quarterly payment to the Bidder. Penalty shall be applicable separately for each such medium critical activity

j) It is to be noted that if the overall penalty applicable for any of the review period during the contract exceeds 25% of the quarterly payment or if the overall penalty applicable for any of the successive Quarterly periods during the contract is above 15%; then CDMA shall have the right to encash the Performance Bank Guarantee or terminate the contract or both.

4.10.5.2.1 Application Performance SLA's

The below tables gives details on the Service Levels the Bidder should maintain.

Sl.No	Service level Description	Severity of violation	Measurement
1	Average Application Response Time	Medium	Average Application Response Time during peak usage hours as measured at any of location shall not exceed 3 seconds. The list of critical business functions and peak usage hours will be identified by CDMA during the Detail Design phase. This service level will be measured on a quarterly basis.

			Average Application Response Time over the Quarter	No. of violations to be counted for calculation of penalty
			> 3 sec & <= 5 sec	2
			> 5 sec & <= 8 sec	4
			> 8 sec	5 for every second increase or part thereof exceeding 8 seconds

In addition to the above, if the average application
response time in any month in the Quarter goes beyond
8s, one (1) additional violation will be added for each
such month to the overall violations for this service
level in the quarter.

| 2 | Maximum Time for Home Page opening | Low | Maximum Time for Home Page opening during peak usage as measured at any of location shall not exceed 2 seconds. This service level will be measured on a quarterly basis. | |

Maximum Time for Home Page opening over the Quarter	No. of violations to be counted for calculation of penalty
> 2 sec & <= 4 sec	2
> 4 sec & <= 6 sec	3
> 6 sec	4 for every second increase or part thereof exceeding 6 seconds

			In addition to the above, if the Maximum Time for Home Page opening in any month in the Quarter goes beyond 6s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.
	Field Navigation – To navigate between the data entry fields in the Screen	Low	Navigation time between data entry fields in the screen as measured at any of location shall not exceed 2 seconds. This service level will be measured on a quarterly basis

Field Navigation – To navigate between the data entry fields in the Screen	No. of violations to be counted for calculation of penalty
> 2 sec & <= 4 sec	2
> 4 sec & <= 6 sec	3
> 6 sec	4 for every second increase or part thereof exceeding 6 seconds

In addition to the above, if the Field Navigation – To navigate between the data entry fields in the Screen in any month in the Quarter goes beyond 6s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

4	Menu Page	Low	Menu Page after User Login opening

	after User Login		during peak usage as measured at any of location shall not exceed 2 seconds. This service level will be measured on a quarterly basis.

Menu Page after User Login opening over the Quarter	No. of violations to be counted for calculation of penalty
> 2 sec & <= 4 sec	2
> 4 sec & <= 6 sec	3
> 6 sec	4 for every second increase or part thereof exceeding 6 seconds

In addition to the above, if the Menu Page after User Login opening in any month in the Quarter goes beyond 6s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

5	Menu Navigation – To display the menu as per the defined user role and profile	Low	Menu Navigation – To display the menu as per the defined user role and profile opening during peak usage as measured at any of location shall not exceed 2 seconds. This service level will be measured on a quarterly basis.

Menu Navigation – To display the menu as per the defined user role and profile over the Quarter	No. of violations to be counted for calculation of penalty

				> 2 sec & <= 4 sec	2
				> 4 sec & <= 6 sec	3
				> 6 sec	4 for every second increase or part thereof exceeding 6 seconds

In addition to the above, if the Menu Navigation – To display the menu as per the defined user role and profile opening in any month in the Quarter goes beyond 6s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

6	Map Navigation- Time taken in map rendering with all visible layers (with scale dependency) on using navigation tools.	High	Map Navigation – Time taken to display the map area chosen during navigation with all visible layers and in the desired scale during peak usage as measured at any of location shall not exceed 2 seconds. This service level will be measured on a quarterly basis.

Map Navigation- Time taken in map rendering with all visible layers (with scale dependency) on using navigation tools.	No. of violations to be counted for calculation of penalty
> 2 sec & <= 4 sec	2
> 4 sec & <= 6 sec	3
> 6 sec	4 for every second increase or part thereof exceeding 6 seconds

In addition to the above, Map Navigation – to display the map area

			chosen during navigation with all visible layers and in the desired scale in any month in the Quarter goes beyond 6s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.
8	Screen Navigation – Time taken to navigate from one screen (tab page) to another which does not involve processing in earlier screen	Low	Screen Navigation - Time taken to navigate from one screen (tab page) to another which does not involve processing in earlier screen during peak usage as measured at any of location shall not exceed 2 seconds. This service level will be measured on a quarterly basis.

Screen Navigation – Time taken to navigate from one screen (tab page) to another which does not involve processing in earlier screen	No. of violations to be counted for calculation of penalty
> 2 sec & <= 4 sec	2
> 4 sec & <= 6 sec	3
> 6 sec	4 for every second increase or part thereof exceeding 6 seconds

In addition to the above, Screen Navigation – time taken to navigate from one screen (tab page) to another in any month in the Quarter goes beyond 6s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

| 9 | Response time to commit a transaction ☐ Simple Complexity ☐ Medium Complexity ☐ High Complexity (Complexity of the transaction to depend on the complexity of the business logic and stored procedures committed at the database level) | High | Response time to commit a transaction during peak usage as measured at any of location shall not exceed 4 seconds for Simple transactions, 7 seconds for medium complexity transactions and 10 seconds for High Complexity transactions. This service level will be measured on a quarterly basis. **Penalty for Simple transaction SLA violation** |

Response time to commit a Simple transaction over the Quarter	No. of violations to be counted for calculation of penalty
> 4 sec & <= 6 sec	2
> 6 sec & <= 8 sec	3
> 8 sec	4 for every second increase or part thereof exceeding 8 seconds

In addition to the above, Response time to commit a **Simple** transaction in any month in the Quarter goes beyond 8s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

Penalty for Medium Complexity transaction SLA violation

Response time to commit a Medium Complexity transaction over the Quarter	No. of violations to be counted for calculation of penalty

> 7 sec & <= 9 sec	2
> 9 sec & <= 11 sec	3
> 11 sec	4 for every second increase or part thereof exceeding 11 seconds

In addition to the above, Response time to commit a
Medium Complexity transaction in any month in the Quarter goes beyond 11s, one (1) additional violation
will be added for each such month to the overall violations for this service level in the quarter.

Penalty for High Complexity transaction SLA violation

Response time to commit a High Complexity transaction over the Quarter	No. of violations to be counted for calculation of penalty
> 10 sec & <= 12 sec	3
> 12 sec & <= 14 sec	4
> 14 sec	5 for every second increase or part thereof exceeding 14 seconds

In addition to the above, Response time to commit a **High Complexity** transaction in any month in the Quarter goes beyond 14s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

10	Response time for Screen with Query Retrieval ☐ Simple Query ☐ Medium Complexity Query ☐ High Complexity Query (Complexity of the query will depend on the business logic, size of tables in databases being searched, indexing of database and the way procedures are written to retrieve information)	High	Response time for Screen with Query Retrieval during peak usage as measured at any of location shall not exceed 4 seconds for Simple Query, 7 seconds for Medium Complexity Query and 10 seconds for High Complexity Query. This service level will be measured on a quarterly basis.

Penalty for Simple Query SLA violation

Response time for Screen with Query Retrieval for a Simple Query over the Quarter	No. of violations to be counted for calculation of penalty
> 4 sec & <= 6 sec	2
> 6 sec & <= 8 sec	3
> 8 sec	4 for every second increase or part thereof exceeding 8 seconds

In addition to the above, Response time for Screen with Query Retrieval for **Simple Query** in any month in the Quarter goes beyond 8s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

Penalty for Medium Complexity Query SLA Violation

Response time for Screen with Query Retrieval for a Medium level transaction over the Quarter	No. of violations to be counted for calculation of penalty
> 7 sec & <= 9 sec	2
> 9 sec & <= 11 sec	3
> 11 sec	4 for every second increase or part thereof exceeding 11 seconds

In addition to the above, Response time for Screen with
Query Retrieval for **Medium Complexity Query** in any
month in the Quarter goes beyond 11s, one (1) additional violation will be added for each such month
to the overall violations for this service level in the
quarter.

Penalty for High Complexity Query SLA violation

			<table><tr><td>**Response time for Screen with Query Retrieval for a Simple Query over the Quarter**</td><td>**No. of violations to be counted for calculation of penalty**</td></tr><tr><td>> 10 sec & <= 12 sec</td><td>3</td></tr><tr><td>> 12 sec & <= 14 sec</td><td>4</td></tr><tr><td>> 14 sec</td><td>5 for every second increase or part thereof exceeding 14 seconds exceeding</td></tr></table> In addition to the above, Response time for Screen with Query Retrieval for **High Complexity Query** in any month in the Quarter goes beyond 14s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.
11	Reports Generation Response Time ☐ Simple Report ☐ Medium Complexity Report ☐ High Complexity Report (Time of the report generation will	Medium	Reports Generation Response Time during peak usage as measured at any of location shall not exceed 4 seconds for Simple Query, 7 seconds for Medium Complexity Query and 10 seconds for High Complexity Query. This service level will be measured on a quarterly basis **Penalty for Simple Query SLA violation**

depend on the complexity of the query, no. of parameters fetched, and level of customization required to generate the report)

Report Generation Response time from a Simple Query over the Quarter	No. of violations to be counted for calculation of penalty
> 4 sec & <= 6 sec	2
> 6 sec & <= 8 sec	3
> 8 sec	4 for every second increase or part thereof exceeding 8 seconds

In addition to the above, Response time to generate a report from a **Simple Query** in any month in the Quarter goes beyond 8s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

Penalty for Medium Complexity Query SLA Violation

Report Generation Response time from a Medium Complexity Query over the Quarter	No. of violations to be counted for calculation of penalty
> 7 sec & <= 9 sec	2
> 9 sec & <= 11 sec	3
> 11 sec	4 for every second increase or part thereof exceeding

			11 seconds

In addition to the above, Response time to generate a report from a **Medium Complexity Query** in any month in the Quarter goes beyond 11s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

Penalty for High Complexity Query SLA violation

Report Generation Response time from a High Complexity Query over the Quarter	No. of violations to be counted for calculation of penalty
> 10 sec & <= 12 sec	3
> 12 sec & <= 14 sec	4
> 14 sec	5 for every second increase or part thereof exceeding 14 seconds

In addition to the above, Response time to generate a report from a **High Complexity Query** in any month in the Quarter goes beyond 14s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

12	Look up response time – To display the required GIS data	High	

including map and attribute information		
		Loop up response time – To display the required GIS data including map and attribute information during peak usage as measured at any of location shall not exceed 2 seconds. This service level will be measured on a quartely basis.

Menu Navigation – To display the menu as per the defined user role and profile over the Quarter	No. of violations to be counted for calculation of penalty
> 2 sec & <= 4 sec	2
> 4 sec & <= 6 sec	3
> 6 sec	4 for every second increase or part thereof exceeding 6 seconds

In addition to the above, if the Look up response time – To display the required GIS data including map and attribute information in any month in the Quarter goes beyond 6s, one (1) additional violation will be added for each such month to the overall violations for this service level in the quarter.

4.10.5.2.2 Penalties shall not be levied on the successful bidder in the following cases

1. The noncompliance to the SLA has been solely due to reasons beyond the control of the successful bidder.
2. There is a Force Majeure event affecting the SLA, which is beyond the control of the successful bidder.

4.10.5.2.3 Handholding Support: Application Support

1. Level 1 Defects: The failure to fix has an immediate impact on the CDMA's ability to service its user units , inability to perform critical functions or a direct impact on the organization.
2. Level 2 Defects: The failure to fix has an impact on the CDMA's ability to service its user units/ that while not immediate, can cause service to degrade if not resolved within reasonable time frames.
3. Level 3 Defects: The failure to fix has no direct impact on the CDMA's ability to serve its user units, or perform critical functions.
4. The severity of the individual defects will be mutually determined by the CDMA and Bidder.
5. This service level will be monitored on a monthly basis.
6. The below tables gives details on the Service Levels the Bidder should maintain.

Service Level Description	Severity of Violation	Measurement
Application Support Performance	High	95% of the Level 1 defects shall be resolved within 4 business hours from the time of reporting full details. This service level will be monitored on a monthly basis.
Application Support Performance	High	95% of the Level 2 defects shall be resolved within 72 hours from the time of reporting full details.
Application Support Performance	High	100% of the Level 3 defects shall be resolved within 120 hours from the time of reporting full details. This service level will be monitored on a monthly basis

4.10.6 Other Conditions

The Successful Bidder/SI should be comply with all applicable laws and rules of GoI/GoAP/CDMA/ULB and the solution should meet all e-Governance, Mobile Governance, GIGW and other relevant standards , compliance and guidelines set by Government from time to time.

b) Manpower deployed by the Successful Bidder/SI shall not have right to demand for any type of permanent employment with CDMA or its allied Offices.

4.10.7 Setting up of Project Office

The Successful Bidder/ SI should setup their Project Office in CDMA Building, Mangalagiri during the project implementation stage of the project. CDMA shall provide raw power and empty room for office space to the successful Bidder/ SI project office. The Project Office shall be set up by the Successful Bidder/ SI within 30 (Thirty) Days after the issuance of work order.

4.10.8 Risk Purchase

In case the Successful Bidder/SI fails to deliver the project due to inadvertence, error, collusion, incompetency, misconstruction or illicit withdrawal, the Secretary, CDMA reserves the right to procure the same or similar services from the alternate sources at risk, cost and responsibility of the Successful Bidder/SI.

4.10.9 Exit Management Plan

An Exit Management plan shall be furnished by Successful Bidder/SI in writing to the CDMA within 90 days from the date of signing the Contract, which shall deal with at least the following aspects of exit management in relation to the contract as a whole and in relation to the Project Implementation, and Service Level monitoring.

1. A detailed program of the transfer process that could be used in conjunction with a Replacement Service Provider including details of the means to be used to ensure continuing provision of the services throughout the transfer process or until the cessation of the services and of the management structure to be used during the transfer;
2. Plans for provision of contingent support to Project and Replacement Service Provider for a reasonable period after transfer.
3. Exit Management plan in case of normal termination of Contract period
4. Exit Management plan in case of any eventuality due to which Project is terminated before the contract period.
5. Exit Management plan in case of termination of Successful Bidder/SI
6. Exit Management plan at the minimum adhere to the following:
   i. Three (3) months of the support to Replacement Service Provider post termination of the Contract
   ii. Complete handover of the Planning documents, bill of materials, functional requirements specification, technical specifications of all equipment's, change requests if any, sources codes, wherever applicable, reports, documents and other relevant items to the Replacement Service Provider/Authority
   iii. Certificate of Acceptance from authorized representative of Replacement Service Provider issued to SI on successful completion of handover and knowledge transfer
7. In the event of termination or expiry of the contract, Project Implementation, or Service Level monitoring, both Bidder and Authority shall comply with the Exit Management Plan.
8. During the exit management period, SI shall use its best efforts to deliver the services.

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9. The SI will hand over the Systems & other items of the project, as a part of deliverables of and the documents related to at any time if department demands for transfer of the whole maintenance and operational support and web site to any other Agency, the Contractor shall help in smooth transition in as is where is condition

10. At the time of exit the successful Contractor shall submit all latest documentation in soft and hard copies as case may be

Annexure 1 - Guidelines for Pre-Qualification Bid

Annexure 1.1. Check-list for the documents to be included in the Pre-Qualification Envelope

Sl.no	List of Documents	Submitted Yes/No	Documentary Proof (Page No.)
1	Bid Covering Letter		
2	Power of Attorney in favor of Authorized signatory		
3	Declaration that the bidder (All members in case of Consortium) has not been debarred / blacklisted by any Government / Semi-Government organization		
4	Copy of Certificate of Incorporation, In case of Consortium, Certificate of Incorporation of each consortium member along with Notarized MoU. For a proprietorship firm, Certificate of Registration under central sales Tax (Registration and Turnover Rules 1957) /PAN / GST certificate		
5	Copy of the audited Profit & Loss Statement of the company duly certified by statutory auditor OR CA Certificate to support that Bidder (Lead Member in case of Consortium) has average turnover of Rs. 2 Crore during the last Five financial years.		
6	Copy of Certificate duly signed by Statutory Auditor of the Bidder confirming the net worth for each of the specified period to support that the Sole Bidder (All members in case of Consortium) has positive net worth (measured as paid-up capital plus free reserves) for any two of the last five audited financial years (FY 17-18, FY 18-19, FY 19-20, FY- 20-21 and FY 21-22)		
7	Copy of work order and completion certificate support that the Sole Bidder/Lead Bidder in case of consortium should have successfully completed/Substantially Completed at least 1 (one) State wide Implementation of Web GIS		

	Project in past 3 years with cost not less than Rs. 3 Crore and 3 (three) Web GIS Project for any Central Govt. / State Govt. / PSUs in past 5 (Five) years in India/Global with each project cost not less than Rs. 1 Crore as on date of submission of the bid.		
8	Copy of Work order and Completion Certificate to support that the Sole Bidder (Lead Bidder in case of consortium) or any member in case of consortium should have successfully completed at least 1 (One) of the following system integration & Development project in past 5 years in India or Global with the project cost not less than Rs. 3 Crore as on date of submission of the bid		
9	Copy of OEM Authorization letter for the proposed Enterprise Web GIS solution specifically for this project.		
10	Valid documentary proof of GST registration number and the details of income tax registration (PAN)		
11	Certificate from the current authorized signatory of the company to support that the Sole Bidder (Lead Bidder in case of consortium) has at least 30 GIS Development experts on its roll (as Permanent Employees) and 50 technical personnel to provide necessary support for the project.		
12	Valid copy of the CMM Level 3/higher certification OR ISO 9001:2008/higher certification and ISO 27001 Certificates		
13	Declaration regarding applicability of Micro, Small & Medium Enterprise under MSMED Act, 2006 along with notarized copy of the certificate.		
14	Declaration regarding applicability of Start-Ups under Start-Up India Initiative along with notarized copy of DIPP certificate.		

Annexure 1.2 Pre-Qualification Cover Letter

(To be submitted on the letterhead of the bidder)

Place
Date
Commissioner and Director of Municipal Administration
4th Floor, Near DGP Office,
Vaddeswaram Village, Mangalagiri, Andhra Pradesh
Pincode: 522502

Subject: Submission of proposal in response to the RFP for The Selection of System Integrator for Development, Implementation, and maintenance of enterprise GIS Solution for Resurvey project (Urban
RFP Reference No: *XX/XX/XX*

Dear Sir,
Having examined the RFP, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the professional services as required and outlined in the RFP for the Appointment of IT Agency for the Project "*System Integrator for Development, Implementation, and maintenance of enterprise GIS Solution for Resurvey project (Urban)*"

We attach hereto our responses to pre-qualification requirements and technical & financial proposals as required by the RFP. We confirm that the information contained in these responses or any part thereof, including the exhibits, and other documents and instruments delivered or to be delivered to CDMA, is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead the CDMA in its short-listing process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the selection process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so. We agree for unconditional acceptance of all the terms and conditions set out in the RFP document and also agree to abide by this tender response for a period of 180 days from the date of submission of Bid. We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee bond in the form prescribed the RFP.

We agree that you are not bound to accept any tender response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the products/ services specified in the tender response.

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

Signature of Authorized Signatory (with official seal)
Name :
Designation :
Address :
Telephone & Fax :
E-mail address :

Annexure 1.3 Format to share Bidder's and Bidding Firms Particulars

1	Name of Bidding firm:		
2	Address and contact details of Bidding firm:		
3	Firm Registration Number and Year of Registration		
4	Web Site Address		
5	Status of Company (Public Ltd., Pvt. Ltd., etc.)		
6	Company's GST Registration No.		
7	Company's Permanent Account Number (PAN)		
8	Whether MSE or Start-Up	MSE	Start-up
8	Company's Revenue for the last 5 years (Year wise)		
9	Name, Designation and Address of the contact person to whom all references shall be made regarding this RFP		
10	Telephone number of contact person:		
11	Mobile number of contact person:		
12	Fax number of contact person:		
13	E-mail address of contact person		

Please submit the relevant proofs for all the details mentioned above along with your Bid
response
Authorized Signatory
Name
Seal

Annexure 1. 4 Format for Declaration by the bidder for not being Blacklisted / Debarred

(To be submitted on the Letterhead of the responding company)

Date: dd/mm/yyyy

To
Commissioner and Director of Municipal Administration
4th Floor, Prime Hill Crest, Near DGP Office,
Vaddeswaram Village, Mangalagiri, Andhra Pradesh
Pincode: 522502

Sub: Declaration for not being debarred / black-listed by Central / any State Government department in India as on the date of submission of the bid
RFP Reference No: XX/XX/XX

Dear Sir,
I, authorized representative of _____, hereby solemnly confirm that the Company _____ is not banned by the Government of AP/ Any other state government/Government of India which includes any Government Department, Public Sector Undertakings of the Government, Statutory Boards formed by the Government, Local Bodies in the State, Cooperative Institutions in the State, Universities and Societies formed by the Government for any reason as on last date of submission of the Bid. In the event of any deviation from the factual information/ declaration, CDMA, Government of AP reserves the right to reject the Bid or terminate the Contract without any compensation to the Company.

Thanking you,
Yours faithfully,

_____
Signature of Authorized Signatory (with official seal)
Date :
Name :
Designation :
Address :
Telephone & Fax :
E-mail address :

Annexure 1.5: Format of sending pre-bid queries

RFP Reference No: XX/XX/XX

Bidder's Request for Clarification	
Name and complete official address of Organization submitting query / request for clarification	Telephone and E-mail of the organization Tel: Email:

Sr. No.	Clause No.	Page No.	Content of RFP Requiring Clarification	Change Requested/ Clarification required
1				
2				

Signature:
Name of the Authorized signatory:
Company seal:
Date and Stamped

Annexure 2– Guidelines for Technical Proposal

Annexure 2.1. Technical Bid Cover Letter

(To be submitted on the Letterhead of the responding firm)

Date: dd/mm/yyyy
To
Commissioner and Director of Municipal Administration
4th Floor, Prime Hill Crest ,Near DGP Office,
Vaddeswaram Village, Mangalagiri, Andhra Pradesh
Pincode: 522502

Sub: Selection of Agency for " Selection of System Integrator for Development, Implementation, and maintenance of enterprise GIS solution for Resurvey project (Urban)"

RFP Reference No: XX/XX/XX
Dear Sir,
Having examined the RFP, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the professional services as required and outlined in the RFP for **"Selection of System Integrator for Development, Implementation, and maintenance of enterprise GIS Solution for Resurvey project (Urban)"** "

We attach hereto the technical response as required by the RFP, which constitutes our proposal. We undertake, if our proposal is accepted, to adhere to the implementation plan (Project schedule) for providing Professional Services in **"Selection of System Integrator for Development, Implementation, and maintenance of Enterprise GIS solution for Resurvey project (Urban)"** ", put forward in RFP or such adjusted plan as may subsequently be mutually agreed between us and CDMA or its appointed representatives.

If our proposal is accepted, we will obtain a Performance Bank Guarantee issued by a nationalized bank in India, for a sum of equivalent to **2.5%** of the contract value for the due performance of the contract.

We agree for unconditional acceptance of all the terms and conditions set out in the RFP document and also agree to abide by this tender response for a period of 180 days from the date of submission of Bid and it shall remain binding upon us with full force and virtue, until within this period a formal contract is prepared and executed, this tender response, together with your written acceptance thereof in your notification of award, shall constitute a binding contract between us and CDMA.

We confirm that the information contained in this proposal or any part thereof, including its exhibits, schedules, and other documents and instruments delivered or to be delivered to CDMA is true, accurate, and complete. This proposal includes all information necessary to ensure that the statements therein do not in whole or in part mislead CDMA as to any material fact.

We agree that you are not bound to accept any tender response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the products/ services specified in the tender response.

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

Date:
(Signature)
(Name)
(In the capacity of)
[Seal / Stamp of bidder]
Witness Signature:
Witness Name:
Witness Address:

CERTIFICATE AS TO AUTHORISED SIGNATORIES

I_____, the Company Secretary of _____, certify that_____ who signed the above Bid is authorized to do so and bind the company by authority of its board/ governing body.
Date:
Signature:
                            (Company Seal) (Name)

Annexure 2.2 Format to Project Citation (Project Data Sheet)

Sl.No	Item	Details	Attachment reference no
1	Name of the Project		
2	Date of Work Order		
3	Client details		
4	Scope of Work		
5	Contract value		
6	Completed/ongoing		
7	If ongoing, furnish the last milestone delivered		
8	No of resources worked		
9	Start Date		
10	End date		

Note: The Bidder is required to use above formats for all the projects referenced by the bidder for the pre-qualification criteria and technical bid evaluation.

Annexure 2.3 Project Implementation Approach and Methodology

The Bidder is required to submit the proposed technical solution in detail. Following should be captured in the explanation:

a) The Overall approach to the Project
b) Implementation Methodology and Strategy
c) Strength of the Bidder to provide services including examples or case-studies of similar work
d) Project Organization and Management Plan
e) Project Monitoring and Communication Plan– Bidder's approach to project monitoring and communications among stakeholders.
f) Implementation plan– Bidder's approach to implement the project
g) Risk Management Plan – Bidder's approach to identify, respond / manage and mitigate risks
h) Quality Control plan - Bidder's approach to ensure quality of work and deliverables
i) Escalation matrix during contract period
j) Staffing Plan should be provided as per Form-1 below
k) Activity wise work plan in Gannt chart needs to submit.

Note:

a. All the pages (documentary proofs and other documents that may be attached) should contain page numbers and would have to be uniquely serially numbered.
b. Inadequate information shall lead to disqualification of the bid.

FORM-1

Staffing Plan

Role/Position	Name	Experience	Pre-Implementation phase	Implementation Phase	Post Implementation Phase
			Application Development	Technical Support	O&M
			6 weeks	26 weeks (2 quarters)	156 weeks (12 quarters)

Annexure 2.4 Format of CV for Key Personnel

Name		Photo
Proposed Position		
Date of Birth		
Years with current organisation		
Nationality		
Education		

Degree (Specialisation)	Institution	Year of Passed
Relevant certifications (If any)		

Languages & degree of proficiency	Language	Read (Excellent/Good/Fair)	Write (Excellent/Good/Fair)	Speak (Excellent/Good/Fair)

Countries of work experience	
Employment record	

Employer	From	To	Position and roles & responsibilities

Detailed tasks handled (Domestic and International)
(Work undertaken that best illustrates capability to handle the work and tasks assigned on this Project-Please give details of only those assignments that are

relevant for the position for which the resource is being proposed)					
Client Name	Brief Description of assignment	Role of resource	Start date	End Date	Tasks performed

Certifications	
I, the undersigned certify that:	
(i) To the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience.	Yes/No
I understand that my willful misstatement described herein may lead to my disqualification or dismissal, if engaged.	
Name & Signature (Personnel)	Name & Signature (Authorized Representative)
Date:	Location:

Annexure 3 – Guidelines for Financial Proposal

Annexure 3. 1 Financial Proposal Cover Letter

(To be submitted on the Letterhead of the bidder)

Date: dd/mm/yyyy
To
Commissioner & Director of Municipal Administration,
Prime Hill Crest,
4th Floor, Near DGP Office,
Vaddeswaram Village, Mangalagiri, Andhra Pradesh
Pincode: 522502

Subject: Submission of proposal in response to the RFP for The **Selection of System Integrator for Development, Implementation, and maintenance of enterprise GIS solution for resurvey project (Urban)**

Ref :

Dear Sir,

We, the undersigned, offer to provide the services for **"Selection of System Integrator for Development, Implementation, and maintenance of enterprise GIS solution for resurvey project (Urban)**" in accordance with your Request for Proposal dated [*Insert Date*] and our Technical Proposal. Our attached Financial Proposal for is for the sum of [*Insert amount(s) in words and figures*]. We are aware that any conditional financial offer will be outright rejected by CDMA.

This amount is inclusive of taxes and duties as listed at **Annexure 3.2** attached. Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal (180 days) from the date of submission of Bid.

We hereby declare that our Tender is made in good faith, without collusion or fraud and the information contained in the Tender is true and correct to the best of our knowledge and belief.

We understand that our Tender is binding on us and that you are not bound to accept a Tender you receive. We confirm that no technical deviations are attached here with this commercial offer. We remain,

Yours sincerely,
Authorized Signature [*In full and initials*]:
Name and Title of Signatory:
Date and Stamp of the signatory:
Name of Firm:

Annexure 3.2 Financial Proposal Format & Instructions

Development, Implementation and Maintenance of GIS Based enterprise Solution for Resurvey Project (Urban)

RFP Reference No: XX/XX/XX

Phase I: Software cost

S.No	Item	Total Price (in INR) (inclusive of all taxes)	Total price in words
1	Cost for Design, Development, and Implementation of State Enterprise Web GIS Portal including Desktop GIS	A	
2	Cost for Design, Development, and Implementation of Mobile GIS Application	B	
3	Cost for Design, Development, and Implementation of Dashboard Application	C	
4	Cost for Design, Development, and Implementation of MIS reports and auto generation of forms	D	
5	Cost of Training and Capacity Building	E	
	Grant Total Cost= (A + B + C+D+E)		

Part B: Cost for Inhouse Technical Support Team to implement the Project

#	Details of Persons	No. of Resources Deployed (a)	No of Man Months (b)	Unit Man Month Charges (INR) (c)	Cost (INR) (d)=(a)x(b)x(c)	Taxes (e)	Total Cost (INR) (f) = (d) + (e)
1	Team Lead	1					
2	GIS Developer/Database Administrator	2					
3	GIS data Analyst	1					
4	Business Analyst	1					
5	Help Desk/Project Coordinators	4					
	Total Cost						

Part C: Operation and maintenance cost

S.No	Item	Total Price (in INR) (inclusive of all taxes)	Total price in words
1	Cost of Operation & Maintenance (3 Years)		

Instructions:
a) CDMA does not guarantee the quantity for the particular line items given above. The actual quantity for the given items may be more or less. The payment shall be made based on unit cost quoted for the particular item on actual work/item is undertaken/supplied.
b) Bidder should provide all prices as per the prescribed format
c) All the prices are to be entered in Indian Rupees only
d) CDMA may ask bidder to provide breakup of estimation sheet of each component.

e) CDMA reserves the right to ask the Bidder to submit proof of payment against any of the taxes, duties, levies indicated.

f) CDMA shall take into account all Taxes, Duties & Levies for the purpose of evaluation

g) The Bidder needs to account for all Out-of-Pocket expenses, no additional payment shall be made by CDMA whatsoever.

h) The Bidder should refer the RFP for details on the technical requirements of the system and the benchmark specifications for the items mentioned in the financial formats.

i) Any component/fixtures/ancillary/adjunct to the specified item shall be deemed to have been included in the unit rates quoted above.

j) Bidders must carefully read the Scope, Technical Requirements and the SLAs mentioned in the RFP and accordingly propose the software, hardware, accessories and services and their respective quantities required to completely meet the requirements of this RFP.

k) The extension of the Operation and Maintenance contract after 3 years shall be based on the performance of the Successful Bidder/SI and there may be an annual increase which shall be mutually agreed on the existing Operation and Maintenance cost for next 3 years. However, CDMA reserves the right to extend the O&M contract based on the mutual agreement between the Successful Bidder/SI and the CDMA

Annexure 4- Non-Disclosure Agreement

[Company Letterhead]

This AGREEMENT (hereinafter called the "Agreement") is made on the [day] day of the month of [month], [year], between, CDMA on the one hand, (hereinafter called the "CDMA") and, on the other hand, [Name of the Bidder] (hereinafter called the "Bidder") having its registered office at [Address]

WHEREAS

1. The "CDMA" has issued a public notice inviting various organizations for provision of The Selection of **System Integrator for Development, Implementation, and maintenance of enterprise GIS Solution for resurvey project** (hereinafter called the "Project") of the CDMA;

2. The Bidder, having represented to the "CDMA" that it is interested to bid for the proposed Project,

3. The CDMA and the Bidder agree as follows

    a) In connection with the "Project", the CDMA agrees to provide to the Bidder a detailed document on the Project vide the Request for Proposal document. The Request for Proposal contains details and information of the CDMA operations that are considered confidential.

    b) The Bidder to whom this information (Request for Proposal) is disclosed shall –

        i.   hold such information in confidence with the same degree of care with which the Bidder protects its own confidential and proprietary information;

        ii. restrict disclosure of the information solely to its employees, other member with a need to know such information and advice those persons of their obligations hereunder with respect to such information;

        iii. use the information only as needed for the purpose of bidding for the Project;

        iv. except for the purpose of bidding for the Project, not copy or otherwise duplicate such information or knowingly allow anyone else to copy or otherwise duplicate such information; and

        v.   undertake to document the number of copies it makes

        vi. on completion of the bidding process and in case unsuccessful, promptly return to the CDMA, all information in a tangible form

4. The Bidder shall have no obligation to preserve the confidential or proprietary nature of any information which:

    a) was previously known to the Bidder free of any obligation to keep it confidential at the time of its disclosure as evidenced by the Bidder's written records prepared prior to such disclosure; or

    b) is or becomes publicly known through no wrongful act of the Bidder; or

      a) is independently developed by an employee, agent or contractor of the Bidder not associated with the Project and who did not have any direct or indirect access to the information.

5. The Agreement shall apply to all information relating to the Project disclosed by the CDMA to the Bidder.

6. CDMA will have the right to obtain an immediate injunction enjoining any breach of this Agreement, as well as the right to pursue any and all other rights and remedies available at law or in equity for such a breach.

7. CDMA reserves the right to share the information received from the bidder under the ambit of RTI Act.

8. Nothing contained in this Agreement shall be construed as granting or conferring rights of license or otherwise, to the Bidder, on any of the information. Notwithstanding the disclosure of any information by the CDMA to the Bidder, the CDMA shall retain title and all intellectual property and proprietary rights in the information. No license under any trademark, patent or copyright, or application for same that are now or thereafter may be obtained by the CDMA is either granted or implied by the conveying of information. The Bidder shall not alter or obliterate any trademark, trademark notice, copyright notice, confidentiality notice or any notice of any other proprietary right of the CDMA on any copy of the information and shall reproduce any such mark or notice on all copies of such information.

9. This Agreement shall be effective from the date of signing of this agreement and shall continue perpetually.

10. Upon written demand of the CDMA, the Bidder shall (i) cease using the information, (ii) return the information and all copies, notes or extracts thereof to the CDMA forthwith after receipt of notice, and (iii) upon request of the CDMA, certify in writing that the Bidder has complied with the obligations set forth in this paragraph.

11. This Agreement constitutes the entire Agreement between the CDMA and the Bidder relating to the matters discussed herein and supersedes any and all prior oral discussions and/or written correspondence or agreements between the two parties. This Agreement may be amended or modified only with written permission of CDMA. Neither this Agreement nor any right granted hereunder shall be assignable or otherwise transferable.

12. Confidential information is provided "As-Is". In no event shall the CDMA be liable for the accuracy or completeness of the confidential information.

13. This agreement shall benefit and be binding upon the CDMA and the Bidder and their respective subsidiaries, affiliate, successors and assigns.

14. This agreement shall be governed by and construed in accordance with the Indian laws and is subject to the exclusive jurisdiction of the Courts of Law situated at Vijayawada.

For and on behalf of the Bidder

(Signature)

(Name of the authorized Signatory)

Designation :
Date :
Time :
Seal :
Business Address

Annexure 5- Power of Attorney

Know by all men by these presents, We_____ (Name of the Bidder and address of their registered office) do hereby constitute, appoint and authorize Mr. / Ms_____ (name and residential address of Power of attorney holder) 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 Proposal for th**e "Request for Proposal for the Selection of System Integrator for Development, Implementation, and maintenance of enterprise GIS solution for resurvey project (Urban)"**, including signing and submission of all documents and providing information / responses to the CDMA, representing us in all matters before CDMA, and generally dealing with the CDMA 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.

For _____
Name:
Designation:
Date:
Time:
Seal:
Business Address:

Accepted,

_____ (Signature)
(Name, Title and Address of the Attorney)

Note:
- 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 under common seal affixed in accordance with the required procedure.
- The Power of Attorney shall be provided on Rs.100/- stamp paper.
- The Power of Attorney should be supported by a duly authorized resolution of the Board of Directors of the Bidder authorizing the person who is issuing this power of attorney on behalf of the Bidder

Lead Member has to submit the Power of Attorney in favour of Authorized signatory in below given format in case of Consortium.
POWER OF ATTORNEY FOR LEAD MEMBER BY CONSORTIUM MEMBER

(The Power of Attorney should be provided on appropriate stamp paper)

CDMA has invited Bids from interested companies for "**Selection of System Integrator for Development, Implementation, and maintenance of enterprise GIS solution for resurvey project (Urban)"** ("Project").

Whereas, ---------------------, and _____. (Collectively the Consortium") being members of the Consortium are interested in offering for the services in accordance with the terms and conditions of the Request for Proposal document (RFP) and other connected documents in respect of the Project, and;

Whereas, it is necessary under the RFP document for the members of the Consortium to designate one of them as the Lead Member with all necessary power and authority to do for and on behalf of the Consortium, all acts, deeds and things as may be necessary in connection with the Consortium's Bid for the Project.

Whereas, we have decided that M/s ……………….shall be Lead Member of this Consortium.

NOW THEREFORE KNO W ALL MEN BY THESE PRESENTS

We, --------------------------- having our registered office at_____., hereinafter referred to as the "Member") do hereby designate, nominate, constitute, appoint and authorize --- having its registered office at _____., being one of the members of the Consortium, as the Lead Member and true and lawful attorney of the Consortium (hereinafter referred to as the "Attorney"). We hereby irrevocably authorise the Attorney (with power to sub-delegate) to conduct all business for and on behalf the Consortium and any one of us during the Bid process and, in the event the Consortium is awarded the Contract, during the execution of the project, and in this regard, to do on our behalf and on behalf of the Consortium, all or any of such acts, deeds or things as are necessary or required or incidental to the selection of the Consortium, including but not limited to signing and submission of all Applications, Proposals and other Documents and writings, participate in pre-proposal and other conferences, respond to queries, submit information/ documents, sign and execute contracts and undertakings consequent to acceptance of Bid of the Consortium and generally to represent the Consortium in all its dealings with the CDMA and/or any other Government Agency or any person, in all matters in connection with or relating to or arising out

of the Consortium's Bid for the above Project and/or upon award thereof till the Contract Agreement is entered into with the CDMA.

AND hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things lawfully done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us/Consortium.

IN WITNESS WHEREOF WE THE MEMBER ABOVE NAMED HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS __ DAY OF-----2023

For _____

(Name & Title)

Witnesses:
1.
2.
(To be executed by the Member of the Consortium)

Note:

- 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 under common seal affixed in accordance with the required procedure

- Also, wherever required, the Bidder 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 Bidder:

Annexure 6: Consortium Declaration

Date: dd/mm/yyyy
To
Commissioner & Director of Municipal Administration,
Prime Hill Crest,
4th Floor, Near DGP Office,
Vaddeswaram Village, Mangalagiri, Andhra Pradesh
Pincode: 522502

Sub: **Declaration on Consortium**

RFP Reference No: XX/XX/XX
Dear Sir,
I / We as Lead Member of the Consortium, hereby declare the Roles and
Responsibilities of the Consortium members:

Sl.No	Member	Role	Responsibilities
1			
2			

I / We understand that as Lead Member, I / We are responsible for executing the
**Selection of System integrator for Development, Implementation, and
maintenance of enterprise GIS solution for resurvey project (Urban)** as per the
scope of work provided in the Section 3.0 of the RFP document.

I / We understand that as Lead Member, I / We possess majority of the stake in this
Project. I / We understand that stake is calculated based on roles and responsibilities
declared for the Consortium in the Bid and the associated pricing declared in the
Financial Proposal. I / We understand that if this information / declaration are
found to be false or incorrect, the CDMA reserves the right to reject the Bid or
terminate the Contract with us immediately without any compensation to us.

Yours faithfully,
Authorized Signatory of the Lead Member
Designation
Date
Time
Seal
Business Address

Annexure 7 - Declaration of Data Security

Date: dd/mm/yyyy

To

Commissioner & Director of Municipal Administration,

Prime Hill Crest,

4th Floor, Near DGP Office,

Vaddeswaram Village, Mangalagiri, Andhra Pradesh

Pincode: 522502

Sub: Declaration of Data Security

RFP Reference No: XX/XX/XX

Dear Sir,

We .... who are established and reputable bidder having office at.............................. do hereby certify that CDMA shall have absolute right on the digital data and output products processed / produced by us. We shall be responsible for security / safe custody of data during processing.

We also certify that the data will not be taken out of the CDMA's premises on any media. The original input data supplied to us by Survey Vendor/ CDMA and output products processed / produced from input data will not be passed on to any other agency or individual other than the authorized person of CDMA. We shall abide by all security and general instructions issued by CDMA from time to time.

We also agree that any data from our computer system will be deleted in the presence of CDMA official after completion of the project task.

Thanking you,

Yours faithfully,

Annexure 8 – Format for Performance Bank Guarantee

For Contract Performance Bank Guarantee
Ref : < --- >
Date: _____
Bank Guarantee No.: _____

To
Commissioner & Director of Municipal Administration,
Prime Hill Crest,
4th Floor, Near DGP Office,
Beside Ultratech Ready, Mix Plant,
Vaddeswaram Village, Mangalagiri, Andhra Pradesh
Pincode: 522502

Dear Sir,
PERFORMANCE BANK GUARANTEE – For <Project Name>

WHEREAS
M/s. (name of Bidder), a company registered under the Companies Act, 1956, having its registered and corporate office at (address of the Bidder), (hereinafter referred to as "our constituent", which expression, unless excluded or repugnant to the context or meaning thereof, includes its successors and assigns), agreed to enter into a Contract dated …….. (Hereinafter, referred to as "Contract") with you for "**Selection of System Integrator for Development, Implementation and maintenance of enterprise GIS solution for resurvey project (urban)**", in the said Contract.

We are aware of the fact that as per the terms of the Contract, M/s. (name of Bidder) is required to furnish an unconditional and irrevocable Bank Guarantee in your favour for an amount of 10% of the Total Contract Value, and guarantee the due performance by our constituent as per the Contract and do hereby agree and undertake to pay any and all amount due and payable under this bank guarantee, as security against breach/ default of the said Contract by our Constituent.

In consideration of the fact that our constituent is our valued customer and the fact that he has entered into the said Contract with you, we, (name and address of the bank), have agreed to issue this Performance Bank Guarantee.

Therefore, we (name and address of the bank) hereby unconditionally and irrevocably guarantee you as under:

In the event of our constituent committing any breach / default of the said Contract, and which has not been rectified by him, we hereby agree to pay you forthwith on

demand such sum/s not exceeding the sum of 10% of the Total Contract Value i.e.,…………..<in words> without any demur.

Notwithstanding anything to the contrary, as contained in the said Contract, we agree that your decision as to whether our constituent has made any such default(s) / breach(es), as aforesaid and the amount or amounts to which you are entitled by reasons thereof, subject to the terms and conditions of the said Contract, will be binding on us and we shall not be entitled to ask you to establish your claim or claims under this Performance Bank Guarantee, but will pay the same forthwith on your demand without any protest or demur.

This Performance Bank Guarantee shall continue and hold good till 180 days after completion of the Contract Period, subject to the terms and conditions in the said Contract.
We bind ourselves to pay the above said amount at any point of time commencing from the date of the said Contract until 6 months after the completion of Contract Period.

We further agree that the termination of the said Agreement, for reasons solely attributable to our constituent, virtually empowers you to demand for the payment of the above said amount under this guarantee and we would honor the same without demur.
We hereby expressly waive all our rights: Requiring pursuing legal remedies against CDMA, Govt of AP; and For notice of acceptance hereof any action taken or omitted in reliance hereon, of any defaults under the Contract and any resentment, demand, protest or any notice of any kind.

We the Guarantor, as primary obligor and not merely Surety or Guarantor of collection, do hereby irrevocably and unconditionally give our guarantee and undertake to pay any amount you may claim (by one or more claims) up to but not exceeding the amount mentioned aforesaid during the period from and including the date of issue of this guarantee through the period.

We specifically confirm that no proof of any amount due to you under the Contract is required to be provided to us in connection with any demand by you for payment under this guarantee other than your written demand.

Any notice by way of demand or otherwise hereunder may be sent by special courier, telex, fax, registered post or other electronic media to our address, as aforesaid and if sent by post, it shall be deemed to have been given to us after the expiry of 48 hours when the same has been posted. If it is necessary to extend this guarantee on account of any reason whatsoever, we undertake to extend the period of this guarantee on the request of our constituent under intimation to you.

This Performance Bank Guarantee shall not be affected by any change in the constitution of our constituent nor shall it be affected by any change in our constitution or by any amalgamation or absorption thereof or therewith or reconstruction or winding up, but will ensure to the benefit of you and be available to and be enforceable by you during the period from and including the date of issue of this guarantee through the period.

Notwithstanding anything contained hereinabove, our liability under this Performance Guarantee is restricted to 10% of the Contract Value, and shall continue to exist, subject to the terms and conditions contained herein, unless a written claim is lodged on us on or before the aforesaid date of expiry of this guarantee.

We hereby confirm that we have the power/s to issue this Guarantee in your favour under the Memorandum and Articles of Association / Constitution of our bank and the undersigned is /are the recipient of authority by express delegation of power/s and has / have full power/s to execute this guarantee under the Power of Attorney issued by the bank in your favour.

We further agree that the exercise of any of your rights against our constituent to enforce or forbear to enforce or any other indulgence or facility, extended to our constituent to carry out the contractual obligations as per the said Contract, would not release our liability under this guarantee and that your right against us shall remain in full force and effect, notwithstanding any arrangement that may be entered into between you and our constituent, during the entire currency of this guarantee.

Notwithstanding anything contained herein:

Our liability under this Performance Bank Guarantee shall not exceed 10% of the Total Contract Value. This Performance Bank Guarantee shall be valid only from the date of signing of Contract to 180 days after the End of Contract Period; and

We are liable to pay the guaranteed amount or part thereof under this Performance Bank Guarantee only and only if we receive a written claim or demand on or before 180 days after the completion of Contract Period.
Any payment made hereunder shall be free and clear of and without deduction for or on account of taxes, levies, imports, charges, duties, fees, deductions or withholding of any nature imposts.

This Performance Bank Guarantee must be returned to the bank upon its expiry. If the bank does not receive the Performance Bank Guarantee within the above-mentioned period, subject to the terms and conditions contained herein, it shall be deemed to be automatically cancelled.

This guarantee shall be governed by and construed in accordance with the Indian Laws and we hereby submit to the exclusive jurisdiction of courts of Justice in India for the purpose of any suit or action or other proceedings arising out of this guarantee or the subject matter hereof brought by you may not be enforced in or by such count.

Dated ……………………. this ……….. day …………. 20XX.
Yours faithfully,

For and on behalf of the …………… Bank,
(Signature)
Designation
(Address of the Bank)
Note:

This guarantee will attract stamp duty as a security bond.

A duly certified copy of the requisite authority conferred on the official/s to execute the guarantee on behalf of the bank should be annexed to this guarantee for verification and retention thereof as documentary evidence in the matter.

Annexure 9 – Tentative List of GIS Layers

Sl.No	Feature Layer	Feature type	Comments
1	Cadastral	Polygon	GIS Data shall be made available to Successful Bidder/SI
2	Village Boundary	Polygon	
3	District Boundary	Polygon	
4	Mandal Boundary	Polygon	
5	State Boundary	Polygon	
6	Ward Secretariat Boundary	Polygon	
7	ULB Boundary	Polygon	
8	Property Boundary	Polygon	
9	Town Survey Boundary	Polygon	
10	ROW	Polygon	
11	Roads	Polyline	

Note:
- List of GIS Layers mentioned above 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.
- All attribute fields for the layers need to be finalized at project implementation stage
- Symbology will be followed from TCPOs design and standards on GIS Layers

Annexure 10 – Tentative List of forms

Form No and Description		Stage	Domain	
FORM-1	Intimation Letter	Initiation	WS/ ULB	Fixed form
FORM-2	Check memo on functioning and connectivity of CORS network station & Functioning of GNSS rovers synchronises to APCORS	Initiation	WS	Fixed form
FORM-3	Notice to the municipal authorities	Initiation	WS	Fixed form
FORM-4	Public Notice for fixation of ULB/Ward Secretariat/Revenue Village Boundary	Fixation of Boundaries	WS/QC/ULB	Fixed form
FORM-5	Notice to the concerned department (Govt Lands Survey)	Fixation of Boundaries	WS/QC/ULB	Fixed form
FORM-6	Public notice for survey of Government Lands	Fixation of Boundaries	WS/QC/ULB	Fixed form
FORM-7	Information of Ground Control Points	UAV/Drone Image Acquisition	WS/QC/ULB	Fixed form Upload
FORM-8A	Geo-Cods data of the ULB Boundary	Fixation of Boundaries	WS/QC/ULB	Fixed form Upload Auto Generation
FORM-8B	Geo-Cods data of the Revenue Village/Town Survey Ward Boundary	Fixation of Boundaries	WS/QC/ULB	Fixed form Upload Auto Generation
FORM-8C	Geo-Cods data of the Ward Secretariat Boundary	Fixation of Boundaries	WS/QC/ULB	Fixed form Upload Auto Generation

FORM-9A	Quality Check of the ULB Boundary/Demarcation by supervisory Team	Fixation of Boundaries	WS/QC/ULB	Auto Generation Upload
FORM-9B	Quality check of the Revenue Village Boundary/Town Survey Ward boundary demarcation by Supervisory Team	Fixation of Boundaries	WS/QC/ULB	Auto Generation Upload
FORM-9C	Quality check of the Ward Secretariat boundary demarcation by Supervisory Team	Fixation of Boundaries	WS/QC/ULB	Auto Generation Upload
FORM-10	Quality Check of ORI (Softcopy) by field level survey team	UAV/Drone Image Acquisition	WS/ORI Team/ULB	Fixed form
FORM-11	Acknowledgement of ORI (C&DMA)	UAV/Drone Image Acquisition	WS/ORI Team/ULB	Fixed form
FORM-12	Acknowledgement of Agency	UAV/Drone Image Acquisition	WS/ORI Team/ULB	Fixed form
FORM-13	Quality Check of ORI (Softcopy) by Supervisory Team	UAV/Drone Image Acquisition	WS/ORI Team/ULB	Fixed form
FORM-14	Notice to the land holders for Ground Truthing of Private Lands	Resurvey-Planning	WS/QC/ULB	Fixed form
FORM-15	Public Notice for Ground Truthing of Private Lands	Resurvey-Planning	WS/QC/ULB	Fixed form
FORM-16A	**Land having Property Structure:** Assessment Register Details from Existing ERP Property Tax System (Update/Modify Assessment Data as per records available with ULB/Ward Secretariat)	Resurvey-Data Creation	WS/QC/ULB	Entry Form/ Auto Generated/ Uploading and linking based in Unique Id

FORM-16AA	**Land having without Property Structure (VLT):** Assessment Register Details from Existing ERP Property Tax System (Update/Modify Assessment Data as per records available with ULB/Ward Secretariat)	Resurvey-Data Creation	WS/QC/ULB	Entry Form/ Auto Generated/ Uploading and linking based in Unique Id
FORM-16B	**Agriculture Land (POLR Proforma-II)**	Resurvey-Data Creation	WS/QC/ULB	Entry Form/ Auto Generated/ Uploading and linking based in Unique Id
FORM-16C	**Ground Truthing worksheet for ULB Properties**	Resurvey-Data Creation	WS/QC/ULB	Entry Form Auto Generated/ Uploading and linking based in Unique Id
FORM-17	**Land Parcel Attributes**	Resurvey-Data Creation	WS/QC/ULB	Entry Form Auto Generated
FORM-18	**Additional/Missing Information collected during Ground Truthing by Ward Level Survey Team**	Resurvey-Data Creation	WS/QC/ULB	Entry Form Auto Generated
FORM-19	**Application for division of Joint Properties**	Resurvey-Data Creation	Public Domain	Fixed form
FORM-20	**Application for Amalgamation of Properties**	Resurvey-Data Creation	Public Domain	Fixed form
FORM-21	**Application to File Objection while demarcating field boundary**	Resurvey-Data Creation	Public Domain	Fixed form
FORM-22	**Notice Against the**	Resurvey-	WS/QC/ULB	Fixed form

	Objection	Data updation		
FORM-22A	**Acknowledgement copy for Notice Against the Objection**	Resurvey-Data updation	WS/QC/ULB	Fixed form
FORM-23	**Decision of Survey Officer U/S 10(1) against the objection filed during demarcation**	Resurvey-Data updation	WS/QC/ULB	Fixed form
FORM-24	**Geo-Cods of Land Parcel on Decision U/S 10(1)**	Resurvey-Data updation	WS/QC/ULB	Auto Generated
FORM-25	**Quality check of Demarcated Copy of ORI**	Resurvey-Data Validation	WS/QC/ULB	Fixed form
FORM-26	**Quality Check of Additional Information by Supervisory Team**	Resurvey-Data Validation	WS/QC/ULB	Fixed form
FORM-27	**Quality Check of Demarcated Copy of ORI**	Resurvey-Data Validation	WS/QC/ULB	Fixed form
FORM-28	**Quality Check of Additional Information by Mobile Magistrate Team**	Resurvey-Data Validation	WS/QC/ULB	Fixed form
FORM-29	**Area Comparison Statement**	Resurvey-Data Validation	WS/QC/ULB	Auto Generated
FORM-30	**Correlation Statement**	Resurvey-Data Validation	WS/QC/ULB	Auto Generated
FORM-31	**Field Register (Land Parcel Wise)**	Resurvey-Data Validation	WS/QC/ULB	Auto Generated
FORM-32	**Field Register (Sy.No Wise)**	Resurvey-Data Validation	WS/QC/ULB	Auto Generated
FORM-33A	**Notice to the Land Holders for Ground Validation of**	Resurvey-	WS/QC/ULB	Auto

	Private Lands	Review Phase		Generated
FORM-33B	**Notice to The Govt Departments/Institutions for Ground validation of Private Lands**	Resurvey-Review Phase	WS/QC/ULB	Auto Generated
FORM-34	**Public Notice for Ground Validation of Private Properties**	Resurvey-Review Phase	WS/QC/ULB	Fixed form
FORM-35	**Additional/Missing information found during Ground Validation of Land Parcel Maps**	Resurvey-Review Phase	WS/QC/ULB	Entry Form Auto Generated
FORM-36	**Additional/Missing information found during Ground Validation in field register**	Resurvey-Review Phase	WS/QC/ULB	Fixed form
FORM-37	**GEO-CODS of Land Parcel on decision u/s 10(1) during ground validation**	Resurvey-Review Phase	WS/QC/ULB	Auto Generated
FORM-38A	**Land Register**	Resurvey-Review Phase	WS/QC/ULB	Auto Generated
FORM-38B	**Draft Land register**	Resurvey-Review Phase	WS/QC/ULB	Auto Generated
FORM-39	**Quality check of Draft Records by supervisor Team**	Resurvey-Review Phase	WS/QC/ULB	Fixed form
FORM-40	**Quality Check of Draft Records by Mobile Magistrate Team**	Resurvey-Review Phase	WS/QC/ULB	Fixed form
FORM-41	**Quality Check of Draft Records by concerned Officers**	Resurvey-Review Phase	WS/QC/ULB	Fixed form
FORM-42	**Notice to Land Holder u/s 9(2)**	Resurvey-Review Phase	WS/QC/ULB	Auto Generated

FORM-43	**Notice to Land holder's u/s 10(2)**	Resurvey-Review Phase	WS/QC/ULB	Auto Generated
FORM-44	**Application for filing appeal u/s 11**	Resurvey-Review Phase	Public Domain	Fixed form
FORM-45	**Decision of Survey Officer on Appeals u/s 11**	Resurvey-Review Phase	Supervisory Domain	Fixed form
FORM-46	**Geo-Cods of Land Parcel on decision U/S 11 during Appeal Phase**	Resurvey-Review Phase	WS/QC/ULB	Auto Generated
FORM-47	**Final Check Memo**	Resurvey-Review Phase	WS/QC/ULB	Auto Generated
FORM-48	**Resurvey Notification u/s 13 of Survey & Boundaries Act, 1923**	Closure	WS/QC/ULB/ MMT	Auto Generation

Annexure 11: Principles of Unique Land Parcel Identification Number (ULPIN)

1. Unique Number, no duplicity sharing of land records data across departments, financial institutions, and all stakeholders
2. cross validation of land records data across departments through APIs becomes seamless
3. Delivery of citizen services of land records through single window, Enforce uniqueness of all transactions, up-to-date land records, auto-update on Registration / mutation. Link of all property transactions gets established
4. Alpha–numeric unique ID for each land parcel based on geo-coordinates of vertices of the parcel
5. International standard complies with Electronic Commerce Code Management Association (ECCMA) standard and Open Geospatial Consortium (OGC) standard.
6. Based on general geometry of boundary principle
7. A new alpha-numeric number is generated at partition of parcels
8. Technical architecture of Unique Land Parcel Identifier Number (ULPIN) is compatible with any open-source software applications of geographical location
9. It is displayed with / or without geo coordinates based on security protocol and sensitivity
10. This is applicable both for horizontal and vertical properties
11. Unique number can be generated for multiple units of a single property
12. Avoid confusion with digits 1 and 0 and Alphabets O, l, I

Annexure 12: Declaration regarding applicability of Micro, Small & Medium Enterprise under MSMED Act, 2006

DECLARATION / UNDERTAKING

I/We confirm that the provisions of Micro, Small & Medium Enterprise are applicable/not applicable to us and our organization falls under the definition of:

      a. [ ]- Micro Enterprise
      b. [ ]- Small Enterprise
      c. [ ]- Medium Enterprise

Please tick in the appropriate option box [ ] and attach documents/certificate, if any.

B) I/We also confirm that we are MSEs owned by SC/ST Entrepreneurs (Strike out if not applicable)
C) I/We also undertake to inform the change in this status as aforesaid during the currency of the contract, if any.

Yours faithfully,
Authorized Signatory of the Lead Member
Designation
Date
Time
Seal
Business Address

Annexure 13: Declaration regarding applicability of Micro, Small & Medium Enterprise under MSMED Act, 2006

DECLARATION / UNDERTAKING

A) I/We confirm that the provisions of Start-Up India Initiatives are:

[   ] Applicable to us and our organization falls under the definition of Start-Ups.

[   ] Not applicable to us and our organization does not fall under the definition of Start-Ups.

Please (tick) the appropriate box [   ] and attach documents / certificates, if any.

B) I/We also undertake to inform the change in this status as aforesaid during the currency of the contract, if any.

Yours faithfully,
Authorized Signatory of the Lead Member
Designation
Date
Time
Seal
Business Address