

**Request for Proposal  
For**

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**Appointment of Agency for Development of IT Enabled Solution for Land Management System**

**RFP Number GMDC/Land/LMS/01/24-25**

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**Corrigendum -2**

**[Last Date for Bid Submission: 12/08/2024]**

**Gujarat Mineral Development Corporation**

**24 July 2024**

## Corrigendum -2

Event Description	Clause as per RFP	Amended Clause
Last date of submission of Price bid through online	29/07/2024 up to 18.00 Hours	12/08/2024 up to 18.00 Hours
Last date of submission of physical documents i.e. EMD, RFP Fee, Technical Bid, etc.	29/07/2024 up to 18.00 Hours at Corporate Office, GMDC Ahmedabad	12/08/2024 up to 18.00 Hours at Corporate Office, GMDC Ahmedabad
Date for online opening of preliminary bid.	29/07/2024 up to 18.30 Hours	12/08/2024 up to 18.30 Hours
Period of contract	<p>I. The period for the development and commission of LMS is 90 Days from the date of LOI.</p> <p>II. The period for scanning and indexing all existing physical documents related to the Land is 60 days from the date of LOI.</p> <p>III. 3 years of operation and support of LMS from the date of successful completion of two months of go live support.</p>	<p>I. The period for the development and commission of LMS is 90 Days from the date of the LOI.</p> <p>II. The period for scanning and indexing all existing physical documents related to the Land is 120 days from the date of the LOI.</p> <p>III. 3 years of operation and support of LMS from the date of successful completion of two months of post-go-live support.</p>
Eligibility and Qualification Criteria of Bidder	<b>11.2.2</b> Bidder must have a Minimum Average Turnover of Rs. 25, 00,000/- (Twenty-Five Lakhs Only) for the financial year of 2021-22, 2022-23 and 2023-24	<b>11.2.2</b> The bidder must have a minimum average turnover of Rs. 25,00,000 (Twenty-Five Lakhs Only) in any 3 consecutive financial years out of the last 4 financial years (2020-2021, 2021-22, 2022-23, 2023-2024).
Evaluation of Bids	<b>12 A1</b> Experience in IT: Numbers of development of project references in applications land Management, GIS Mapping, and Satellite image mapping in the last 7 years ending on the last day of March 2024.	<b>12 A1</b> Experience in IT: Number of development project references in applications related to any one or more of Land Management, GIS Mapping, or Satellite Image Mapping in the last 7 years ending on the last day of March 2024.
Evaluation of Bids	<b>12 A2.</b> Number of orders of at least one year of support of each order for application for Land Management, GIS Mapping, and Satellite image mapping in last 7 years ending on the last day of March 2024.	<b>12 A2.</b> Number of orders for at least one year of support for each application related to any one or more of Land Management, GIS Mapping, or Satellite Image Mapping in the last 7 years ending on the last day of March 2024.

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Evaluation of Bids	<b>12 A3.</b> Experience with the Government or their PSUs during the last 7 years ending on the last day of March 2024 for the deployment of IT-enabled Solutions for Land Management, GIS Mapping, Drone Survey, and Satellite Images.	<b>12 A3.</b> Experience with the Government or their PSUs during the last 7 years ending on the last day of March 2024 for the deployment of IT-enabled solutions related to any one or more of Land Management, GIS Mapping, Drone Survey, or Satellite Images.
Scope of Work	15.1 Deployment of Land Management System	15.1 Revised details of the scope of work for the Deployment of the Land Management System are provided in Annexure A.
Scope of Work	15.3 Web Application: A dedicated Mobile Application (Android/ IOS) is preferred but not mandatory.	15.3 Development of a mobile application (Android/iOS) and application must adhere to details outlined in Annexure B.
Scope of Work	15.4 Key Activities for Implementation of Land Management System	15.4 Revised Key Activities for Implementation of the Land Management System are provided in Annexure C.
Payment Terms	<p>16 c. The bills, submitted at the office of the General Manager (Land) will be processed within 30 days considering the following deductions.</p> <ul style="list-style-type: none"> <li>➤ Income tax as per provision of Income Tax Act, and other Taxes (and surcharges) applicable in force from time to time.</li> <li>➤ Cost of any other services provided / material supplied plus 15% administrative charge, if any, by the GMDC.</li> <li>➤ Liquidated Damages,</li> <li>➤ Other deductions, if any.</li> </ul>	<p>16c. Payment for scanning services will be made after the completion of the scanning work location-wise.</p> <p>16d. The bills, submitted at the office of the General Manager (Land) will be processed within 30 days considering the following deductions.</p> <ul style="list-style-type: none"> <li>➤ Income tax as per provision of Income Tax Act, and other Taxes (and surcharges) applicable in force from time to time.</li> <li>➤ Cost of any other services provided / material supplied plus 15% administrative charge, if any, by the GMDC.</li> <li>➤ Liquidated Damages,</li> <li>➤ Other deductions, if any.</li> </ul>
Liquidated Damages	-	The revised Liquidated Damages clause is provided in Annexure D.
Format of Price bid	-	The revised price bid format is provided in Annexure E.

## 15.1 Deployment of Land Management System.

- 15.1.1 The successful bidder shall be responsible for the Development/ Customization, Configuration, and Implementation of the Land Management System for GMDC.
- 15.1.2 The software may be developed or customized if the successful bidder possesses a product.
- In case the software has been developed by the successful bidder, GMDC shall have exclusive ownership of the source code and business data
  - If the successful bidder already possesses a Commercial Off-The-Shelf (COTS) product, they may utilize this product as a foundation to further develop and customize a solution tailored to the specific needs of the department. The bidder must provide the source code for the customized solution developed for the department and business data, ensuring transparency and enabling future maintenance and potential customization by the department or other vendors. The license for the COTS product used as the base will be perpetual, granting the department indefinite rights to use the COTS product without the need for ongoing payments or renewals.
- 15.1.3 The Land Management System shall be designed in such a way that it helps GMDC in
- Managing, tracking, streamlining controlling, and coordinating various stages in Land Management related to both acquisition and critical Land information which is crucial to Efficient and Productive mining, abating Associated Risks.
  - Supporting the monitoring of land acquisition status, activity planning, and tracking to achieve key milestones involved in the process of different types of land categories.
- 15.1.4 The major function of the Land Information Management System is
- Statutory and Internal activities related to land matters.
  - Pre – Acquisition activities during land and lease agreement
  - During – Acquisition: updating the land acquisition approval status of different types of land.
  - Post–Acquisition: Capturing the status of approvals/activities on the acquired land.
- 15.1.5 The designing and structuring of the database must be in such a way that the information collected shall meet all the requirements of GMDC for future use without any data loss.
- 15.1.6 The major functions of the Land Information Management System are:
- Data Collection and Collation
  - Indexing & Categorization of legacy data/physical records.
  - Authority mapping/Validation/Authentication.
  - Uploading of legacy data/physical records.
  - Geo-Database development (Drone Survey/DGPS survey/Satellite Image)
  - Document Management /Generation of all types of reports.
  - Query Module (Map Based/Plot Based/Activity based/Land Use based)
  - Reports & Dashboard (Village-wise land summary/Land classification wise Land Schedule/Land Statistics over Inside and Outside Project area/Khatian or Tenant Wise Land/Award/Payment/Kisam Wise Land Abstract/R&R Entitlement Summary)
- 15.1.7 The Land Management System is anticipated to enhance visibility across all sections and locations of GMDC.

15.1.8 The indicative list of locations to be considered during the implementation of the Land Management System is given below.

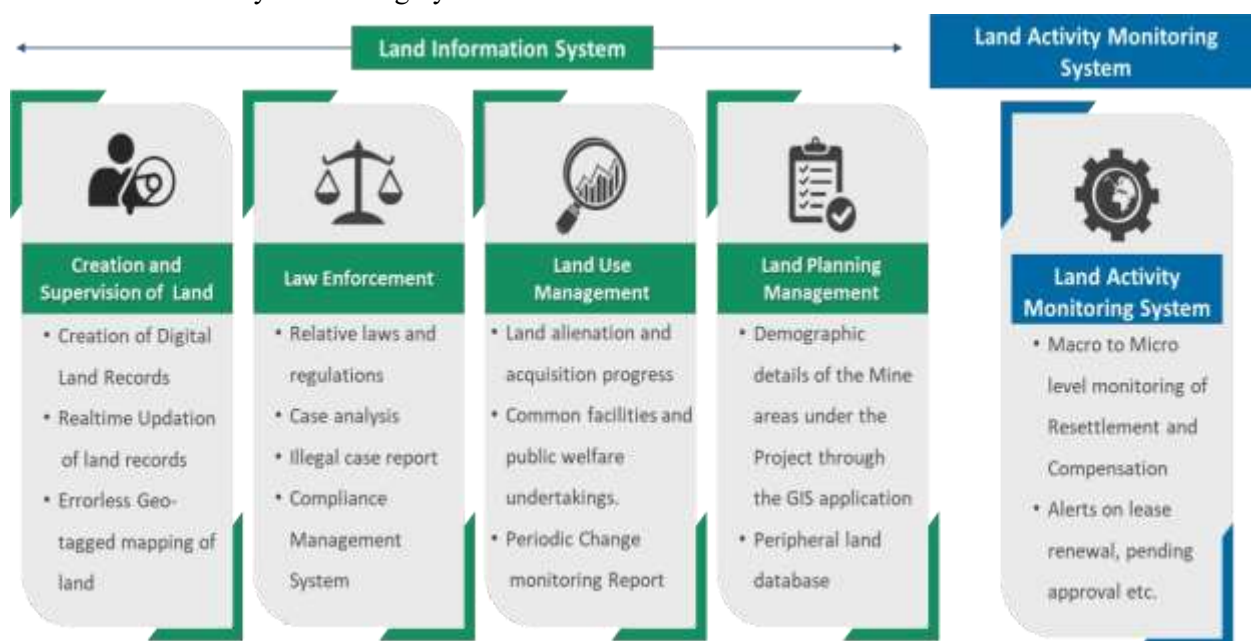
SI No.	Name of the Project	Location	Approx Area (Hectare)
<b>GUJARAT</b>			
1	EFG (Valia) Lignite Project	Taluka-Valia, Dist-Bharuch	3012
2	Lakhpat - Punrajpur Lignite Project	Taluka-Lakhpat, Dist-Kutch	2960
3	Surkha (North) Lignite Project	Taluka-Ghogha Dist-Bhavnagar	3672
4	Mata-No-Madh Lignite Project	Taluka-Lakhpat, Dist-Kutch	1753
5	Umarsar Lignite Project	Taluka-Lakhpat, Dist-Kutch	2187
6	Tadkeshwar Lignite Project	Taluka-Mandvi, Dist-Surat	965
7	Rajparadi Lignite Project	Taluka-Jhagadia, Dist-Bharuch	385
8	Rajparadi (Amod G-19) Lignite Project	Taluka-Jhagadia, Dist-Bharuch	183
9	Panandhro Extension Lignite Project	Taluka-Lakhpat, Dist-Kutch	998
10	Damlai Lignite Project	Taluka-Jhagadia, Dist-Bharuch	1380
11	Ghala Lignite Project	Taluka-Mandvi Dist- Surat	1600
12	Kadipani Fluorspar Project	Taluka-Kwant, Dist-Chhotaudepur	172
13	Akrimota Thermal Power Station	Taluka-Lakhpat, Dist-Kutch	328
14	Panandhro Lignite Project	Taluka-Lakhpat, Dist-Kutch	568+1151
15	Mevasa Bauxite Project	Taluka – Kalyanpur, Dist. – Devbhoomi Dwarka	187
16	Shivrajpur Bauxite Project	Taluka -Halol, Dist. Panchmahal	455
17	Gorsar Wind Project	Taluka and Dist. Porbandar	3
18	Rojmal Wind Project	Taluka Vinchhiya, Dist. Rajkot	25

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19	Jodiya Wind Project	Taluka Jodiya, Dist Jamnagar	22
20	Bhanvad Wind Project	Taluka Bhanvad, Dist. Dwarka	24
21	Bada Wind Project	Taluka Mandvi, Dist. Kutch	14
22	Baradiya Wind Project	Taluka and Dist. Dwarka	13
23	Varshame Wind Project	Taluka Maliya, Dist. Morbi	12
24	Ambaji multi metal Project	Taluka Ambaji, Dist. Banaskantha	185
25	Gadhsisa Bauxite Project (Group of mines) at different locations	Dist-Kutch	73 + 8 + 71 + 205 + 361 + 170 + 63 + 67 + 209 + 643 + 6 + 4 + 99 + 6
26	Corporate Office	Ahmedabad	0.70
<b>Odisha</b>			
27	Baitarni (West) Coal Project	Taluka Chhendipada, Dist. Angul	1196
28	Burapahar Coal Project	Taluka Hemgir, Dist Jharsuguda	606
29	Kudanali Lubri Coal Project	Taluka Talcher Dist. Angul	670

15.1.9 The proposed software shall have the following modules:

- Land Information Management System
- Land Activity Monitoring System



**Land Information Management System**

- 15.1.10 Purchasing Hard Copy Cadastral / Revisional Survey Map Sheets and Purchasing/Downloading of village-wise ROR data, from the State/ District Land Record Department.
- 15.1.11 Purchasing of toposheet from the Survey of India.
- 15.1.12 Scanning / Stitching / Mosaicking of the Cadastral Map / Revisional Survey Map Sheets. Digitization of the Cadastral Maps / Cadastral Map / Revisional Survey Map Sheets
- 15.1.13 All documents purchased/downloaded of village-wise ROR data from the District website or from the DLRS office shall be scanned, indexed, and uploaded in LMS. The scanning quality needs to be maintained at 300 DPI black/white.
- 15.1.14 Preparation of data and upload in LMS of Village-wise all related ROR data.

**15.1.15 Procurement of high-resolution satellite images for the entire specified area, adhering to the following specifications:**

<b>Parameter</b>	<b>Description</b>
Product Type	High-Resolution Orthorectified Pansharpened Mono/ Multispectral Satellite Imagery.
Resolution	70 cm or better (The GSD should be 70 cm or better without any resampling)
Off Nadir Angle (ONA) acceptable	Less than 30 deg
Datum/Projection	UTM/ Geographic, WGS84
Cloud% acceptable	Less than 15%
Bit Depth	16 bits
Bands	4-band PAN Sharpened/ MULTISPECTRAL
Resampling Kernel	Cubic Convolution/ Pansharpened or equivalent
Specific requirements	It should be compatible with generating the base map.

- 15.1.16 The collection of Ground Control Points (GCP), specifically lease boundaries using DGPS which will be provided by GMDC. This process will facilitate the geo-referencing of cadastral maps using GCP data.
- 15.1.17 GMDC will provide drone images with a data resolution of 5cm.
- 15.1.18 GMDC will provide hard copies of statutory plans such as surface plans and key plans for all specified locations. These maps will be scanned at a minimum resolution of 600 DPI (dots per inch), accommodating sizes from A0 to A4. The plans will then undergo geo-referencing relative to DGPS maps and will be overlaid onto digital cadastral maps. Digitization of the plans will adhere to layer specifications outlined in the legend of the hardcopy maps.
- 15.1.19 Other land documents, including deed documents, lease documents, notes of approvals, court case documents, board approvals, etc., must be scanned, indexed, and uploaded to the LMS. Scanning quality should be 300 DPI for normal black/white documents and 600 DPI for damaged or unclear documents, with document sizes ranging from A0 to A4 and Legal paper size.
- 15.1.20 Special care must be taken during scanning due to the age and fragility of the documents. The successful bidder will bear responsibility for any loss or damage incurred during the scanning process. Additionally, precautions should be implemented when handling maps, as they may be old and brittle.

- 15.1.21 The process for land use and land cover mapping using satellite and drone images, which includes:
- Digitization of land use and land cover from aerial images.
  - Extraction of features to display in separate layers.
  - Preparation of a detailed digital map of specified areas with plot-level details.
  - Layers to include:
    - Excavated area/overburden dump area.
    - Road.
    - Railways.
    - Waterbody.
    - Built-up area.
    - Vacant Land.
    - Agriculture Land.
    - Forest Land.
    - Administrative Boundaries.
    - Village Boundary.
    - Township Boundary (provided by GMDC).
    - Identification of encroached areas, if any.
- 15.1.22 The process involves superimposing digitized cadastral maps, existing drawings (such as master plans, lease plans, and land use maps), drone images, toposheets, and satellite images to create a comprehensive base map. This base map integrates all layers of features into a unified representation of the area.
- 15.1.23 The preparation of hard copies for all the maps created, with sizes extending up to A0.
- 15.1.24 The requirement for change detection using multi-temporal satellite images every quarter throughout a three-year contract period following the initial map preparation.
- 15.1.25 Change detection from multi-drone images involves analyzing successive aerial data captures to identify and assess changes in geographical features, infrastructure, or land use over time, and similarly, change detection from various statutory plans or village records post-initial map preparation involves comparing updated legal or administrative documents with previously recorded data to pinpoint modifications in land use zoning on a need basis.
- 15.1.26 All scanning and indexing work shall be done at the respective location.
- 15.1.27 The successful bidder is responsible for managing all necessary hardware and software required for scanning purposes. GMDC will only provide raw power and space
- 15.1.28 The successful bidder is required to bear all costs associated with the collection and processing of documentation, specifically Hard Copy Cadastral / Revisional Survey Map Sheets and the purchasing or downloading of village-wise ROR (Record of Rights) data from the State/District Land Record Department. This responsibility includes covering any applicable government charges related to these activities.**
- 15.1.29 The successful bidder is required to bear all costs associated with obtaining toposheets.**
- 15.1.30 The successful bidder is responsible for covering all costs associated with obtaining satellite images every quarter throughout the three-year contract period.**
- 15.1.31 The successful bidder is tasked with developing a Land Management System that integrates legacy data and geospatial data. This system must facilitate the assimilation of both types of data seamlessly, enabling the generation of comprehensive reports for Information, Reference, Records, and Compliance

purposes. These reports are essential for GMDC to make well-informed decisions regarding land management, ensuring that historical data, precise geographical information, and regulatory compliance are effectively managed and utilized in decision-making processes.

- 15.1.32 Based on the Geo-Spatial data input, the Query Module enables the swift generation of various periodic reports by integrating all plans. Additionally, the module utilizes Drone or satellite images superimposed over DGPS maps to offer geo-fencing and Change detection features. This capability allows the system to identify changes in land use patterns, alterations in surface features, and new encroachments or encampments by outsiders. By leveraging these functionalities, the system enhances monitoring and reporting capabilities, facilitating proactive management of geographical data and timely decision-making processes.
- 15.1.33 The successful bidder is required to provide facilities enabling various sections and wings of the organization to utilize base maps effectively for preparing a comprehensive range of plans. These plans include the Master Plan, Land Use Plan, Surface Plan, Mining Plan, Production Plan, Environment Management Plan, Water Management Plan, Contour Plan, and Compensatory Afforestation Plan.
- 15.1.34 There will be a comprehensive array of statutory activities related to land management, each requiring meticulous oversight and management. Some of these activities include:
- Applying/Obtaining Lease
  - Applying/Obtaining Prospecting License
  - Mutation
  - Conversion
  - Change of Classification
  - Diversion of Forest Land
  - Alienation
  - Lease/Sub Lease
  - Acquiring Surface Right
  - Surrender/Part Surrender of Lease/Prospecting Lease
  - Acquisition of Private Land
  - Resettlement and Rehabilitation (R&R) Packages/Special Packages Administration
  - Eviction of Encroachments
  - R&R Colony Development
  - Environmental Impact Assessment (EIA)/Environmental Management Plan (EMP)
  - Social Impact Assessment (SIA)/Social Impact Management Plan (SIMP)
  - Environmental Clearance (EC)
  - Asset Management System (Immovable/Valuable Movable assets)
  - Valuation of assets
  - Establishment of Railway sidings
  - Use of land for Socio-infrastructural activities like Schools/Hospital etc.
- 15.1.35 All steps cannot be frozen, as the steps vary, based on the changes in the Acts/Rules/Executive instructions. Hence it is proposed to develop the Module in a very flexible and user-friendly manner where various pre-defined rows can be provided which will be designated later as Activities and Sub- - Sub-activities. Various steps and sub-steps can be arranged sequentially or clubbed in a parallel flow, based on actual Workflow Management which can be modified/arranged by the IT section of GMDC without regularly resorting to the developer of the system.

- 15.1.36 All carry out the necessary changes (customization/configuration) while deploying in respective mines under the scope of this Contract.
- 15.1.37 Each of these activities requires adherence to specific legal and regulatory frameworks, as well as efficient coordination among various stakeholders. Effective management of these statutory processes ensures compliance, minimizes risks and supports sustainable development practices in land management.
- 15.1.38 GMDC expects about 70-80 users with 30% of them concurrently logged in and using the system.
- 15.1.39 The Land Management software must be implemented at specified locations without additional charges even if there are changes in the area of land within these locations by the successful bidder.
- 15.1.40 The software must be scalable to accommodate future mines or estates.
- 15.1.41 The successful bidder will bear charges for incorporating new locations into the Land Management Software, except for specific charges outlined below:
- I. Satellite image costs: These will be based on an agreed rate per hectare of the actual area of the new location.
  - II. Scanning charges: These will be based on an agreed rate per location.
  - III. Reimbursement of government charges: The vendor will reimburse GMDC for all government charges incurred during the data collection process for Record of Rights (ROR) and cadastral maps for the new locations, upon submission of receipts.
  - IV. Reimbursement for obtaining Toposheet: If required, the vendor will reimburse GMDC for any costs incurred in obtaining Toposheets from the Survey of India for the new locations, upon submission of receipts.

### **Land Activity Monitoring System**

- 15.1.42 The Activity Management System is designed to create a versatile and user-friendly open-ended platform tailored for efficient workflow management concerning Land, Estate, and Resettlement and Rehabilitation (R&R) matters. It aims to streamline and enhance the management of activities related to land acquisition, land use, estate administration, and the intricate processes of resettlement and rehabilitation projects
- 15.1.43 Implementing a Dashboard Information System provides a pivotal tool for monitoring the real-time progress of projects related to land matters. This system aggregates and comprehensively presents the latest status and updates of all activities on a single dashboard. It enables GMDC to quickly assess the status of various aspects of land-related projects, offering insights into ongoing tasks, milestones achieved, and potential challenges. By consolidating key metrics and indicators, the dashboard provides a clear overview of project performance, allowing decision-makers to gauge overall progress and make informed decisions promptly. This real-time visibility enhances accountability, facilitates proactive management, and ensures that projects stay on track toward meeting their objectives effectively. The Dashboard Monitoring system is designed to present data numerically, and visually and incorporate geospatial information for enhanced clarity and understanding.
- 15.1.44 The system must support the customization of MIS and GIS reports to cater to GMDC users' varying needs for statistical data on key performance indicators and other relevant information. These reports should include robust functionalities such as filtering and sorting to enhance data analysis capabilities. Additionally, MIS reports must be downloadable in .csv, .xls, .xlsx, and .pdf formats, ensuring compatibility and ease of distribution. GIS reports, on the other hand, must adhere to geospatial formats,

facilitating spatial analysis and visualization of geographical data within the system. These features collectively empower users to efficiently generate, customize, and utilize comprehensive reports tailored to their specific requirements.

### **Land Management System Characteristics**

- 15.1.45 The system must include all necessary modules for tracking and managing data collection and collation activities.
- 15.1.46 The system should be easy to use, intuitive, and user-friendly.
- 15.1.47 The system must be compatible with popular web browsers such as Google Chrome, Firefox, Microsoft Edge, Safari, etc., ensuring smooth functionality across platforms.
- 15.1.48 The system should support uploading of various file formats including dwl, .csv, .xls, .xlsx, .kml, and PDF, particularly GIS-supported formats.
- 15.1.49 The system should be scalable to accommodate additional requirements such as users, sections, features, mines, etc., as per the scope of work.
- 15.1.50 The system should have the capability to extend, modify, and integrate with other applications in the future without being tied to a single company, vendor, or team.
- 15.1.51 The system must have a well-defined workflow mechanism to streamline processes and ensure efficiency.
- 15.1.52 The system should provide features for data drill-down, trend analysis, and other analytical tools.
- 15.1.53 Specific users from GMDC must be able to log into the portal using unique two-factor authentication for enhanced security.
- 15.1.54 The system should have the capability to integrate with Microsoft Active Directory for user management and authentication.
- 15.1.55 The system must support role-based access control to ensure that users have appropriate levels of access based on their roles and responsibilities.

## Mobile Application

Creating a comprehensive mobile application for Field Data Collection (for both Android and iOS) and a dashboard for land management systems involves integrating several critical features. Here's a detailed breakdown of the functionalities for each component:

### Basic Functionalities:

1. **User Authentication:** Secure login with username/password or other authentication methods.
2. **Survey Creation:**
  - Ability to create new surveys for family and asset assessments.
  - Define survey templates with customizable fields (e.g., text fields, dropdowns) for flexibility.
3. **GPS Integration:**
  - Capture geolocation data using device GPS for accurate survey location tracking.
  - Display the current location on maps within the app for visual reference.
4. **Form Filling:**
  - Family Survey: Input fields for family member details (name, age, relationship, etc.).
  - Asset Survey: Input fields for asset details (type, value, condition, etc.).
  - Support for multimedia inputs (photos, videos) for detailed documentation.
5. **Photo Capture:**
  - Take photos directly within the app and attach them to respective survey entries.
  - Option to annotate photos with notes or descriptions for clarity.
6. **Data Validation:**
  - Real-time validation checks to ensure completeness and accuracy of entered data.
  - Notify users of validation errors and provide suggestions for correction.
7. **Offline Mode:**
  - Collect survey data without internet connectivity.
  - Store data locally on the device and automatically sync with the server when internet connection is restored.
8. **Survey Management:**
  - Save drafts, edit ongoing surveys, and manage survey statuses (e.g., draft, submitted, completed).
  - Track the progress and completion status of surveys.
9. **GPS Tagging:**
  - Automatically tag photos and survey entries with GPS coordinates for geospatial reference.
  - View GPS-tagged entries on maps for spatial analysis and visualization.
10. **Export and Sync:**
  - Sync collected survey data with a central server in real-time or on-demand.
  - Export survey data in various formats (CSV, Excel, PDF) for further analysis and reporting.
11. **Reporting and Summary:**
  - Generate summary reports of collected data directly within the app.
  - Include charts, graphs, and statistical summaries for data insights.
12. **User-Friendly Interface:**
  - Intuitive design with easy navigation and streamlined workflows.
  - Support for multilingual interfaces and accessibility features.

**13. Notifications:**

- Receive push notifications and alerts for survey milestones, deadlines, and updates.
- Customizable notification settings based on user preferences.

**14. Integration Capabilities:**

- Integrate seamlessly with the mobile app for data synchronization and real-time updates.
- Connect with GIS platforms for comprehensive data integration.

**15. Data Visualization:**

- Visualize survey data (family demographics, asset distribution) on interactive maps.
- Create charts and graphs to analyze trends and patterns in survey results.

**16. Data Management:**

- Centralize and manage survey data collected from the mobile app.
- Filter, sort, and search functionalities for efficient data retrieval and analysis.

**17. Security:**

- Ensure data security measures are implemented to protect user information and survey data.

**18. Customization:**

- Provide flexibility in survey creation and data fields to accommodate different survey requirements.

**19. Mobile Dashboard Information System:**

- provides a pivotal tool for monitoring the real-time progress of projects related to land matters.
- This system aggregates and comprehensively presents the latest status and updates of all activities on a single dashboard

## 15.4 Key Activities for Implementation of Land Management System

- 15.4.1 Prepare a Project Plan and Time Schedule. This includes outlining tasks, milestones, dependencies, and timelines for each phase of the project.
- 15.4.2 Requirement Gathering Phase
- a) AS IS Study: Understand and document the current state of land management processes and systems.
  - b) Solution Design: Prepare the System Requirement Specification (SRS) document based on business requirements.
  - c) Obtain sign-off on the SRS: Formal approval from GMDC ensuring alignment with their expectations.
- 15.4.3 Implementation Phase
- a) Customization/ Development and Configuration.
  - b) Ensure development meets security, performance, and usability requirements.
  - c) Testing: Conduct various levels of testing:
    - Unit Testing
    - System Integration Testing
    - Facilitation of User Acceptance Testing (UAT)
  - d) Training: Develop a training plan and provide functional and technical training to GMDC's business and IT teams.
    - Ensure all necessary users are trained effectively on system usage and workflows.
    - Training will be conducted offline at various locations, accommodating 5-10 users per location, except the corporate office where 15-20 users will participate.
    - This setup ensures that each training session is tailored to the specific needs and capacities of each location, allowing for effective and comprehensive training
    - The successful bidder will be responsible for arranging training infrastructure.
    - The duration of training will be determined based on the training plan proposed by the successful bidder.
  - e) Upon successful User Acceptance Testing (UAT) sign-off, the bidder will proceed, with the implementation of the Land Management System for the Bhavnagar location, inclusive of scanning tasks, in accordance with the agreed scope of work. This implementation will serve as the go-live milestone. Subsequently, a one-week demonstration period will be conducted to validate system functionality and gather user feedback post-go-live. Within the following 30 days, the bidder is responsible for completing the go-live process at additional locations. Throughout the entire process, the bidder holds accountability to ensure that all deliverables meet specified requirements and strictly adhere to established timelines, maintaining alignment with GMDC's expectations and regulatory standards.
  - f) Post Go-Live Support: The successful bidder is required to provide comprehensive onsite support for 2 (Two) months following the successful 'Go-Live' of the Land Management System at all designated locations. During this support period, the bidder must promptly address and resolve all implementation, operational, and production issues encountered. This includes but is not limited to resolving user-level queries, fixing bugs, and accommodating new requirements stemming from legal, statutory, or policy changes, system upgrades, and

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security enhancements. The bidder must furnish detailed processes for request logging, assignment to designated personnel, recording of resolutions, and tracking of overall resolution time. Additionally, the bidder must submit an escalation matrix outlining the hierarchy and procedures for escalating issues. A detailed support plan with defined Service Level Agreements (SLAs) for issues reported by GMDC must also be provided, along with a strategy for managing change requests deemed critical to system functionality.

## 18. Liquidated Damages (LD)

- 18.1 For any delays attributable to the successful bidder beyond the scheduled period of completion of the deployment of land management system work as per the agreed completion schedule, the successful bidder shall pay to GMDC liquidated damages at the rate of 0.5% of deployment cost per week subject to a maximum 10% of deployment cost.
- 18.2 If the successful bidder delays the scanning work attributable to the successful bidder beyond the scheduled completion, they must pay liquidated damages at 0.5% of the scanning work cost per week, capped at 10% of the total scanning cost for that location.
- 18.3 If the successful bidder exceeds the mutually agreed period for handling change requests, they are liable to pay liquidated damages at 0.5% of the yearly support cost per week, up to a maximum of 10% of the annual support cost.
- 18.4 The software must maintain an uptime of 99.95% on a quarterly basis. If the software fails to meet this uptime requirement, the successful Bidder is obligated to pay liquidated damages to GMDC. The rate of liquidated damages is set at 0.1% of the quarterly support cost for each percentage point below the 99.95% uptime target. However, the total amount of liquidated damages payable is capped at a maximum of 10% of the quarterly support cost.
- 18.5 More than 3 days will be considered as one week for the calculation of LD.
- 18.6 For the calculation of LD, the date of issue of LOI shall be the reference date.
- 18.7 The said right of the GMDC to levy damages on account of delay shall be without prejudice to and in addition to the right of the Company to get the concerned work done from a third party at the complete risk and cost of the successful bidder.

## Price Bid

**Form AA****Format of Price Bid****To be submitted only online**

Sr. No	Particulars	Unit Rate	Qty	Total Cost in Rs. excluding GST
1	Total Cost for development of IT-enabled solution as per scope of work		1	
2	Total cost for scanning work per location irrespective of area of land.		29	
3	Provision of satellite imagery for an additional location other than the given location. (per hectare)		1	
4	Yearly Operation and Support cost		3	
<b>Total Cost</b>				

**Note**

1. The above rates are Exclusive of GST.
2. The yearly support cost shall not be less than 10% of the deployment cost.