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KERALA STATE ROAD TRANSPORT CORPORATION
Office of the Chairman & Managing Director,
Transport Bhavan, Thiruvananthapuram -23,
Email– dgmit.ksrtc@kerala.gov.in, Phone No. 0471-
2471011

**Tender for Empanelment of Agencies for GIS-Based Land
Mapping and Digital Land Information System**

Tender No.: S001-ITD01/74/2025-IT DIV-KSRTC-HQ **Date:** 01/11/2025

1. Introduction

Kerala State Road Transport Corporation (KSRTC) owns many land parcels across the State, including depots, workshops, terminals, and office complexes. Many of these properties lack comprehensive digital records and updated cadastral information. For better estate management, planning, and asset protection, KSRTC intends to identify and empanel competent agencies with proven expertise in land surveying, GIS mapping, and development of digital land information systems.

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2. Objectives

The primary objectives of this initiative are to: - Conduct scientific, geo-referenced digital surveys of KSRTC lands using modern technology. - Prepare accurate digital cadastral maps integrated with land records and legal documentation. - Develop a GIS-based Land Information Management System (LIMS) accessible to KSRTC officials for monitoring, planning, and decision support. - Facilitate effective estate management and prevention of encroachments.

3. Scope of Work

The selected agencies shall undertake the following key activities:

1. Survey and Data Collection

- Conduct DGPS/Total Station/Drone-based surveys of KSRTC properties.
- Record geo-coordinates, boundary features, and site photographs.
- Collect and verify ownership documents, title deeds, and possession records.

2. GIS Mapping and Data Preparation

- Create base maps and cadastral overlays for each parcel.
- Digitize and attribute all relevant ownership and utilization data.
- Prepare data layers in standard GIS formats (SHP, KML, GeoJSON).

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3. Development of Land Information System (LIS)

- Design and deploy a secure, web-based GIS application for land visualization and analytics.
- Include modules for land utilization, encroachment alerts, and report generation.

4. Integration and Support

- Integrate the system with KSRTC's existing ERP/Estate Management modules.
- Provide technical support, training, and 5-year AMC for data maintenance.

5. Training and Documentation

- Conduct workshops for KSRTC officials.
- Submit comprehensive documentation, manuals, and metadata reports.

4. Eligibility Criteria

Sl. No.	Criteria	Minimum Requirement	Supporting Documents
1	Legal Entity	Registered firm/company/LLP in India	Certificate of Incorporation
2	Experience	Minimum 3 similar GIS/Land Mapping projects for Govt./PSUs	Work Orders & Completion Certificates
3	Technical Resources	DGPS/Drone/Total Station with certified	Equipment List & CVs

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Sl. No.	Criteria	Minimum Requirement	Supporting Documents
		surveyors and GIS analysts	
4	Financial Capacity	Avg. Annual Turnover \geq ₹50 lakh (last 3 FYs)	Audited Balance Sheets
5	Local Presence	Office or representative in Kerala (preferred)	Address Proof / Undertaking

5. Evaluation Methodology

The empanelment shall be carried out under a **Quality and Cost-Based Selection (QCBS)** method.

Parameter	Weightage
Technical Proposal	70%
Financial Proposal	30%

- Technical Evaluation:** - Relevant Experience – 25 Marks
- Technical Approach and Methodology – 25 Marks
- Team Composition & Resources – 10 Marks
- Demonstration of GIS Platform / Prototype – 10 Marks

Agencies scoring **70% or above** in technical evaluation shall be considered for financial evaluation.

6. Deliverables

- Digital cadastral maps with verified coordinates.

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- GIS database and portal with layered data visualization.
- Verified land ownership metadata.
- Training materials and system documentation.
- Five-year maintenance and technical support.

7. Empanelment & Contract Period

- Empanelment will remain valid for **three (3) years**.
- Specific assignments will be issued through individual work orders during this period.
- Each project will have its own completion schedule (normally 120 days).

8. Data Ownership & Confidentiality

All data, maps, and outputs generated under this project shall remain the **exclusive property of KSRTC**. The agency shall not use, reproduce, or share data with third parties. Compliance with the **IT Act 2000** and data protection norms is mandatory.

9. Payment Terms

Milestone	% Payment
Completion of field survey & data collection	30%
GIS database submission & system deployment	30%
Final validation & go-live	20%
Training & documentation submission	10%

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Milestone	% Payment
AMC (per annum post go-live)	10%

10. Penalty & SLA

- Delay beyond agreed schedule: **1% of contract value per week**, up to a maximum of 10%.
- Uptime for web GIS portal: **99%**.
- Response to maintenance issues: **Within 24 hours**.

11. Submission of Bids

Interested agencies shall submit their **Technical and Financial Proposals** in separate sealed covers (or through e-tender portal), superscribed as:
> "Tender for Empanelment of Agencies – GIS-Based Land Mapping and Digital Land Information System for KSRTC"

Address:

Chairman and Managing Director
Kerala State Road Transport Corporation
Transport Bhavan, Fort, Thiruvananthapuram – 695023

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12. Rights Reserved

KSRTC reserves the right to accept or reject any proposal without assigning any reason. KSRTC may empanel more than one agency based on eligibility, experience, and geographical suitability.

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Annexures

Annexure I – Technical Proposal Format

Section	Details Required
1	Name of the Bidder / Organization
2	Registered Office Address & Contact Details
3	Legal Status (Company / LLP / Firm)
4	Year of Establishment
5	PAN / GST Registration Numbers
6	Summary of Relevant Projects Executed (Attach Work Orders)
7	Technical Team Composition (with Qualifications & Roles)
8	Equipment / Technology Available (DGPS, Drone, Total Station, GIS Software, etc.)
9	Approach & Methodology (Survey Techniques, Data Accuracy, Validation)
10	Project Implementation Schedule (with milestones)
11	Quality Assurance & Data Security Measures
12	Declaration of Non-Blacklisting / Litigation Status

Signature of Authorized Representative
(Seal of the Organization)

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Annexure II – Declaration & Compliance Form

1. We hereby declare that all the information provided in our proposal is true and correct to the best of our knowledge.
2. We confirm that our organization has not been blacklisted or debarred by any government agency.
3. We agree to abide by all the terms and conditions specified in the tender document.
4. We undertake to maintain strict confidentiality of all KSRTC data and information accessed during the project.

Date: _____

Place: _____

Signature of Authorized Signatory

Name: _____

Designation: _____

Organization: _____

(Seal of the Bidder)