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Implementation

- **Web Platform**

- Django-based system with roles: **Resident, Registrar, Admin**.
- Residents submit land transactions; registrars review and approve.

- **Blockchain Layer**

- Smart contract deployed on Ganache (Ethereum test network).
- MetaMask used to sign and confirm approvals.

- **Certificate Generation**

- Approved transactions automatically generate PDF certificates.
- QR code embedded for online authenticity verification.

- **Valuation Model**

- Tracks land value percentage variations across locations.
- Helps ensure fair and consistent registration decisions.

Results

• Login Window



Kerala BLMS
Blockchain Land Management

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Login to Kerala BLMS

Email Address

you@example.com

Password

Login

Don't have an account? [Register here](#)

Customer Dashboard

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Welcome back, Jhon!

Kerala Blockchain Land Management System



Dashboard Overview



Pending

3



Under Review

2



Approved

8



Notifications

5

Submit New Transaction

Start new deed transaction - Sale, Will, Inheritance, Mortgage, Gift, or Power of Attorney

Select deed type • Upload documents • Submit for review



Transaction Wallet

View all transactions, track status, fees, and blockchain confirmations

History • Status • Receipts • Hash verification



Verify Certificate

Upload certificate ID to verify authenticity via blockchain

Upload • Verify hash • Instant report

Submit Transaction



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Submit New Land Transaction

1. Choose Deed Type

Select deed type ▼

2. Enter Property & Party Details

Property Survey Number

Location (click on map)



Click on the map to select the location. Coordinates will be saved.

Property Valuation (INR)

Party Name (Buyer/Seller or Giver/Receiver)

Party Contact Number

Party ID Proof Number

Select Office

District Registrar Office - alappuzha ▼

Choose the office to submit your transaction to.

3. Upload Supporting Documents (PDF, JPG, PNG, multiple allowed)

Choose Files No file chosen

Reset

Submit Application

• Property Valuation



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Blockchain Land Management

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Property Valuation

[Back to Dashboard](#)

SELECT DISTRICT *

Choose Your District



SELECT LOCALITY *

Select District First



 CALCULATE VALUATION

Registrar Login

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Registrar Login

Username

Password

[Log In](#)

Registrar Dashboard

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Registrar Dashboard

Welcome back,
Office-Kochi, emskachen

Dashboard Overview



PENDING APPLICATIONS

Applications awaiting review and action.



APPROVED APPLICATIONS

Verified and queued for blockchain anchoring.



REJECTED APPLICATIONS

Rejected with documented reasons.



NOTIFICATIONS

Newly submitted transactions to review.

Review Submitted Applications

Dead Type

From Date

To Date

Customer Name

All Dead Types

dd-mm-yyyy

dd-mm-yyyy

Search by customer name...

Apply Filter

Reset

APPLICATION ID	CUSTOMER	DEAD TYPE	SUBMISSION DATE	STATUS	ACTIONS
#12	Jhon	W1	Jan 05, 2025	Pending	Review
#11	Juanan Nelson	Zero Data	Jan 05, 2025	Approved	Review
#10	Jhon	GR Data	Jan 05, 2025	Approved	Review
#9	Jhon	Redundancy / Duplicate	Jan 05, 2025	Approved	Review
#8	Jhon	GR Data	Jan 05, 2025	Approved	Review

Security & Audit

Registrar Approval

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Application #12

Pending

CUSTOMER NAME

Jhon

PARTY NAME

jako

DEED TYPE

Will

PARTY CONTACT

47749449

SURVEY NUMBER

1234/6379

PARTY ID

847747474

PROPERTY VALUATION

₹ 67484858.00

SUB-REGISTRAR OFFICE

Kochi
ernakulam

SUBMISSION DATE

Jan 05, 2026 - 16:26

Uploaded Documents

Document

transactions/61F_Kochi-signature.png

[View](#)[Download](#)[← Back to Dashboard](#)[✓ Approve & Anchor](#)[✗ Reject](#)

Metamask Transaction

127.0.0.1:8000/application/12/

Kerala BLMS
Blockchain Land Management

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Application #12

CUSTOMER NAME
Jhon

DEED TYPE
Will

SURVEY NUMBER
1234/6379

PROPERTY VALUATION
₹ 87484858.00

SUBMISSION DATE
Jan 05, 2026 - 16:26

PARTY NAME
jako

PARTY CONTACT
47749449

PARTY ID
847747474

SUB-REGISTRAR OFFICE
Kochi
emakulam

Uploaded Documents

Document
transactions/R/F Kocca-signature.png

View Download

← Back to Dashboard

✓ Approve & Anchor

✗ Reject

Transfer request

0.01 ETH

From
Imported ...
Imported accounts

To
OxCF613...63B...

Network
Request from

Ganache Local
HTTP 127.0.0.1:8000

Network fee

0 ETH

Cancel

Confirm

Transaction Hash ID

The screenshot displays the Kerala BLMS (Blockchain Land Management) application interface. A modal window is open, displaying the transaction hash ID: 0x95c57b1d0114b9d7bbabe1c75068e93148aed19b32ac9c61f8a119fb989f75. The application details for Application #12 are as follows:

Field	Value
CUSTOMER NAME	Jhon
PARTY NAME	jako
DEED TYPE	WIL
PARTY CONTACT	47749449
SURVEY NUMBER	1234/6379
PARTY ID	847747474
PROPERTY VALUATION	₹ 87484858.00
SUB-REGISTRAR OFFICE	Kochi emakulam
SUBMISSION DATE	Jan 05, 2026 - 16:26

Below the application details, there is a section for Uploaded Documents. A document titled "Document" with the filename "transactions\RF_Kocci-signature.png" is listed, with a "Download" button.

Certificate Download

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View and download your verified blockchain certificates

4 Certificates

CERTIFICATE ID	TYPE	DATE VERIFIED	ACTIONS
#12	Will	Jan 05, 2026	Download
#10	Gift Deed	Jan 05, 2026	Download
#9	Inheritance / Succession	Jan 05, 2026	Download
#8	Gift Deed	Jan 05, 2026	Download



Professional blockchain-based land management services for Kerala. Secure, transparent, and efficient property registration solutions.

Blockchain Secured 24/7 Support

Services

Property Registration
Document Verification
Ownership Transfer
Legal Compliance

Contact

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info@keralablms.com

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