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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

The screenshot shows a dark-themed login interface for the Kerala BLMS system. At the top left is the logo 'Kerala BLMS Blockchain Land Management'. The top right features a navigation bar with links for Home, Services, About, Contact, and a prominent 'Access Portal' button. The main area is titled 'Login to Kerala BLMS'. It contains two input fields: 'Email Address' with the placeholder 'you@example.com' and 'Password' with several dots indicating the password. Below these is a large 'Login' button. At the bottom, there is a link 'Don't have an account? Register here'.

Customer Dashboard



Kerala BLMS
Blockchain Land Management

Home Services About Contact

Access Portal



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

Kerala BLMS
Blockchain Land Management

Home Services About Contact Access Portal

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, JPEG, PNG; multiple allowed)

Choose Files No file chosen

Reset Submit Application

● Property Valuation

[Home](#) [Services](#) [About](#) [Contact](#)[Access Portal](#)

Property Valuation

[Back to Dashboard](#)**SELECT DISTRICT ***

Choose Your District

SELECT LOCALITY *

Select District First

CALCULATE VALUATION



• Registrar Login



Home Services About Contact Access Portal

Registrar Login

Username

Password

Log In

• Registrar Dashboard

 Kerala BLMS
Blockchain Land Management

Home Services About Contact Access Portal

Registrar Dashboard

Welcome back,
Office-Kochi, emanation

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

Deed Type
From Date
To Date
Customer Name

All Deed Types
dd-mm-yyyy
dd-mm-yyyy
Search by customer name...

Filter
Reset

| APPLICATION ID | CUSTOMER | DEED TYPE | SUBMISSION DATE | STATUS | ACTIONS |
|----------------|--------------|------------------|-----------------|-----------------------|---------------------|
| #P2 | Jhon | LLP | Jan 05, 2026 | Pending | Review |
| #P1 | Jonan Nelson | Joint Deed | Jan 05, 2026 | Approved | Review |
| #P0 | Jhon | Joint Deed | Jan 05, 2026 | Approved | Review |
| #P9 | Jhon | 繼承權 / Succession | Jan 05, 2026 | Approved | Review |
| #P8 | Jhon | SM Deed | Jan 05, 2026 | Approved | Review |

Security & Audit

• Registrar Approval

The screenshot shows a dark-themed web application for land management. At the top left is the logo "Kerala BLMS Blockchain Land Management". At the top right are links for "Home", "Services", "About", "Contact", and a prominent "Access Portal" button.

The main content area displays an application form for "Application #12". The form fields include:

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

A status indicator at the top right of the application card says "Pending".

Below the application card is a section titled "Uploaded Documents" containing a single file entry:

- Document: transactions/R/F.Kochi-signature.png

Buttons for "View" and "Download" are present next to the document entry.

At the bottom of the page are three primary action buttons: "Back to Dashboard", "Approve & Anchor" (green background), and "Reject" (red background).

• Metamask Transaction

The image shows a dual-screen setup. On the left, a web browser displays the Kerala BLMS Blockchain Land Management system. The page title is "#12 - Kerala BLMS - Brave". The URL in the address bar is "127.0.0.1:8000/application/12/". The main content is titled "Application #12" and contains several input fields: "CUSTOMER NAME" (Jhon), "PARTY NAME" (jako), "DEED TYPE" (Will), "PARTY CONTACT" (47749449), "SURVEY NUMBER" (1234/6379), "PARTY ID" (847747474), "PROPERTY VALUATION" (₹ 87484858.00), and "SUBMISSION DATE" (Jan 05, 2026 - 16:26). Below this is a section titled "Uploaded Documents" showing a file named "transactions/BF.Koca-signature.png" with "View" and "Download" buttons. At the bottom are "Back to Dashboard", "Approve & Anchor" (green button), and "Reject" (red button) buttons.

On the right, a MetaMask wallet window titled "Transfer request" is open. It shows a transaction for "0.01 ETH" from "Imported accounts" to the address "0xCF613...63B...". The transaction is set to "Ganache Local" and "HTTP 127.0.0.1:8000". The "Network fee" is listed as "0 ETH". There are "Cancel" and "Confirm" buttons at the bottom.

• Transaction Hash ID

The screenshot shows a web browser window for the Kerala BLMS (Blockchain Land Management) system. The URL is 127.0.0.1:8000/application/12/. A modal dialog box is displayed in the center, indicating that the transaction has been approved and anchored on the Ganache blockchain. The transaction hash is shown as 0x95c57b1d0114b9d7bbabet1c75068e93148aed19b32ac9c61ff8a119fb989ff75. The dialog also contains an 'OK' button and a 'Pending' status indicator.

Application #12

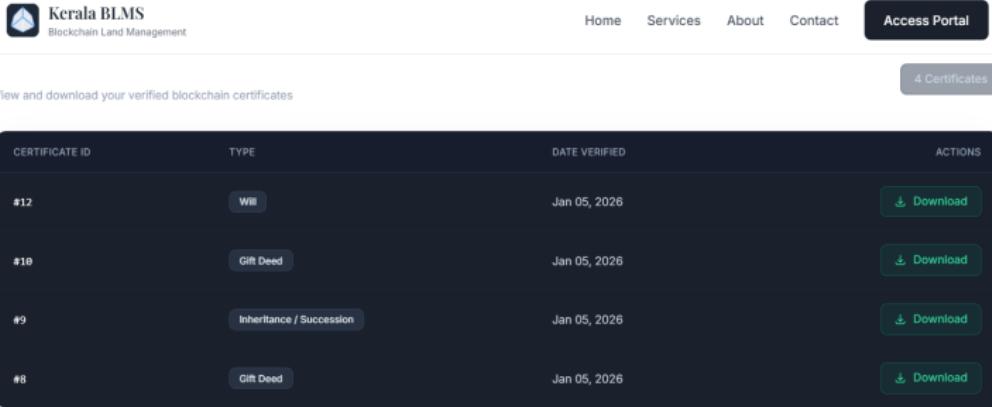
| | |
|---|---|
| CUSTOMER NAME Jhon | PARTY NAME jako |
| DEED TYPE WB | PARTY CONTACT 47749449 |
| SURVEY NUMBER 1234/6379 | PARTY ID 847747474 |
| PROPERTY VALUATION ₹ 87484858.00 | SUB-REGISTRAR OFFICE Kochi erakulam |
| SUBMISSION DATE Jan 05, 2026 - 16:26 | |

Uploaded Documents

| |
|---|
| Document transactions/WB_Kochi-signature.png |
|---|

[View](#) [Download](#)

● Certificate Download



The screenshot shows the Kerala BLMS website's certificate download page. At the top, there is a navigation bar with links for Home, Services, About, Contact, and an Access Portal button. A grey box on the right indicates "4 Certificates". Below this, a table lists four certificates with columns for Certificate ID, Type, Date Verified, and Actions (each with a "Download" button).

| 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 |



The footer section includes the Kerala BLMS logo, a brief description of their services ("Professional blockchain-based land management services for Kerala. Secure, transparent, and efficient property registration solutions."), and links for "Blockchain Secured" and "24/7 Support". To the right, there are sections for "Services" (Property Registration, Document Verification, Ownership Transfer, Legal Compliance) and "Contact" (Kochi, Kerala, India; +91 484 XXXXXX; info@keralablms.com).