



Jaaji Technologies
Sophistication with Simplicity

INSIS LOTO

Digital Lockout / Tagout Solution



www.jaajitech.com



+91 8897698106



contactus@jaajitech.com



What is LOTO?

Lockout/Tagout (LOTO) is a safety procedure used to isolate machines, equipment, and energy sources to prevent accidental startup or energization while maintenance or servicing is being performed.



Key Principle

Stop ≠ Isolate ≠ Safe.

Proper isolation of all energy sources must be verified before any work begins.

Hazardous Energy Sources Covered



Electrical Energy

Circuit breaker /
Disconnect switch



Pneumatic Energy

Air isolation valve



Mechanical Energy

Mechanical
blocking device



Thermal Energy

Isolation valves
(steam, hot water, etc.)



Hydraulic Energy

Hydraulic isolation valve



Chemical / Process Energy

Steam isolation valve,
process isolation



Stored or Residual Energy

Residual pressure, spring energy,
rotating parts, etc.

Challenges with Manual LOTO Procedure



Human Errors

Incorrect or incomplete isolation steps.



Lack of Visibility

Real-time status and applied LOTO not clear.



Time Consuming

Manual approvals and verifications.



No Proper Connectivity

Not integrated with work permits and existing systems.



Poor Record Keeping

Difficult to track and retrieve records.



Increased Safety Risks

Higher chance of accidents due to missed or incorrect validation.



How Digital LOTO Helps

From QR Scan to Safe Restoration — Every Step Digitally Controlled



Digital LOTO connects the physical isolation process with a complete, traceable digital record.

One QR Scan. Complete Work Context.

Access the equipment, work order, permits and LOTO information from one digital record.

01



Scan Equipment / LOTO QR

Scan the QR code attached to the equipment or LOTO tag. Instantly identifies the asset and active LOTO activity.

02



Linked Work Order

The system displays the related Work Order / Maintenance Job.
Equipment + Work Request + LOTO are connected.

03



Related Permits

All applicable permits linked to the work are available from the same record.

PTW | Hot Work | Electrical |
Confined Space | Other
applicable permits.

04



LOTO & Isolation Requirements

View the required energy sources, isolation points, lock/key details, isolation status and verification requirements.



Key Features of INSIS LOTO



Role-Based Access

Access based on roles and permissions.



Centralized Monitoring

View active, pending and completed LOTOs.



QR-Based Access

Scan QR code to identify equipment.



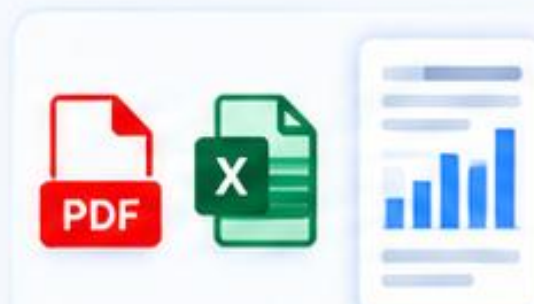
Digital Evidence

Upload photos for isolation and restoration.



Report Management

View, filter and export reports.



Smart LOTO Request

Create requests with equipment details.

Equipment

Work Description

Isolation Type

Digital Approval *[Signature]*

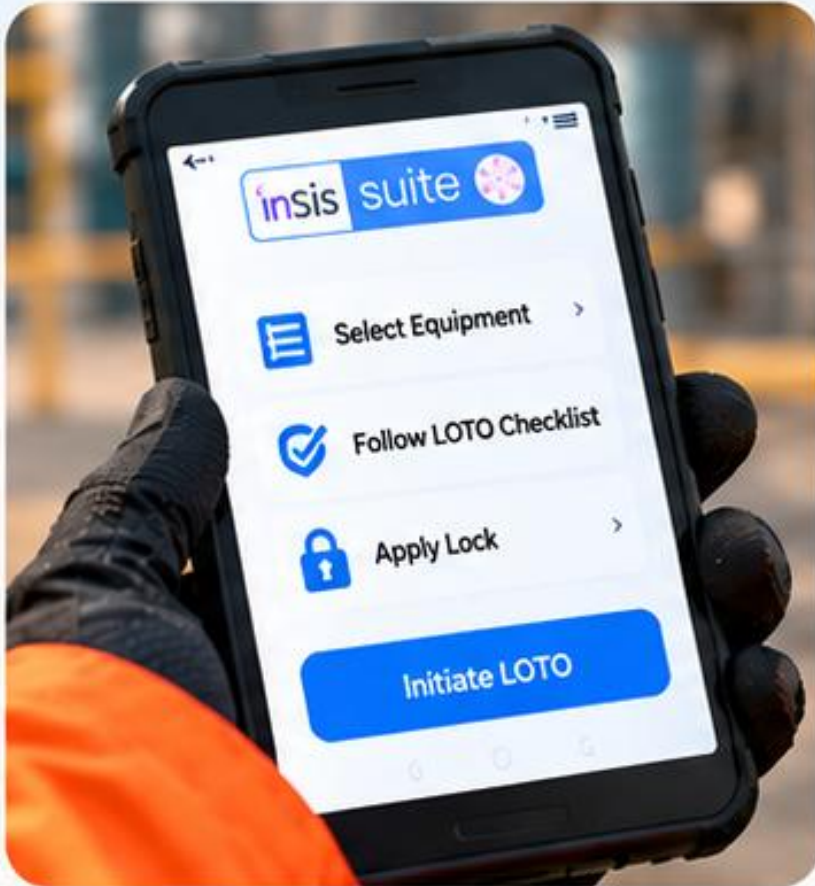
End-to-End LOTO Workflow



Digital LOTO with Bluetooth Locks

Secure. Connected. Paperless.

1 Initiate LOTO from Handheld Device



Operator follows the digital LOTO checklist on the handheld device and initiates lock.



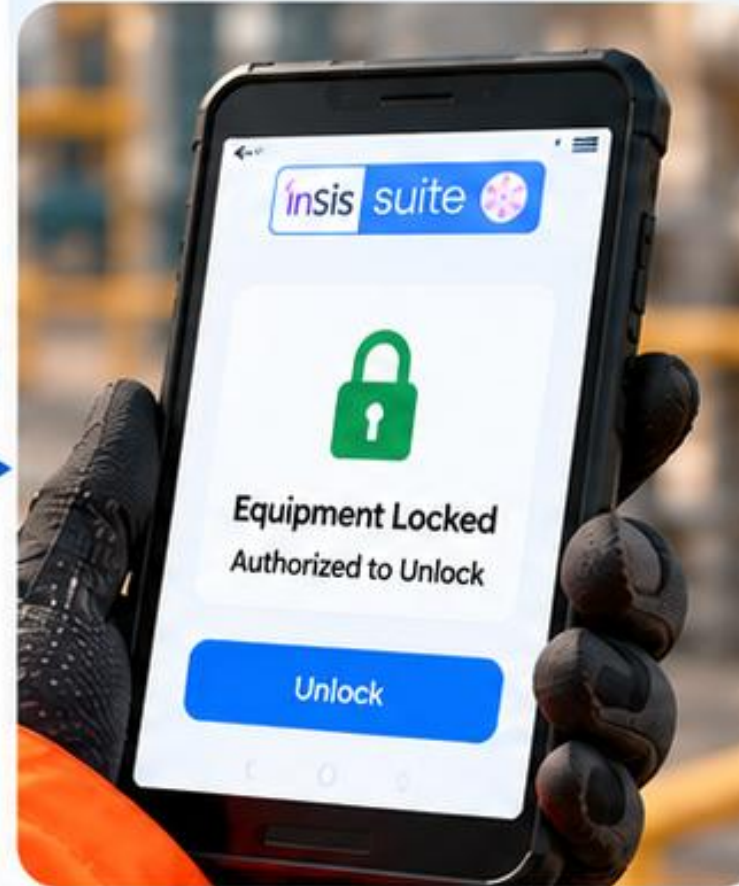
2 Bluetooth Lock Engages



The Bluetooth lock engages automatically, ensuring the equipment is isolated and secured.



3 Unlock via Handheld Device



Authorized personnel can unlock the Bluetooth lock from the handheld device after completing the required approval steps.

4 Safe & Controlled Operation



The lock is released digitally, ensuring controlled and auditable access.



Secure Isolation

Prevent unauthorized access.



Handheld Operation

Simple and intuitive for field operators.



Wireless Connectivity

Bluetooth-enabled smart locks.



Digital Checklist

Guided LOTO procedure with approvals.



Complete Audit Trail

Track lock/unlock history and users.

Key Benefits

A centralized digital platform for safer, smarter, and fully traceable LOTO management.



Enhanced Safety

Effective isolation and control of hazardous energy sources.



Controlled Workflow

Structured and standardized LOTO process from request to closure.



Role-Based Access

Authorized users based on roles and asset permissions.



Quick Asset Access

Instant equipment identification using QR codes.



Real-Time Monitoring

Track active, pending, and completed LOTO activities.



Audit & Traceability

Complete digital records with evidence for audits and compliance.

inSis Loto Home Page

inSis suite

inSis Loto

inSis suite

9

42

LOTO List

+ LOTO Request

Total LOTOs

8

Created

4

Approved

0

Rejected

0

Isolated

1

Restored

3

AreaName	EquipmentName	WorkOrderNo	PermitNo	StatusText
Feed	10P101A	WO-20260610-1548	PTW-26-0610-089	Restored
Feed	10P101A	WO-20260624-078	PTW-20260624-112	Isolated
Feed	10P101B	WO-20260624-080	PTW-20260624-113	Restored
ABC Oil Company	Mumbai Refinery	2344	2432	Created
SIPCHEM	SIPCHEM		P---7082-20260722-195	Created
SIPCHEM		234	P-CH-7082-20260729-204	Created
Automatic Titrator	A1	5	7	Created
ABC Oil Company	test77			Restored

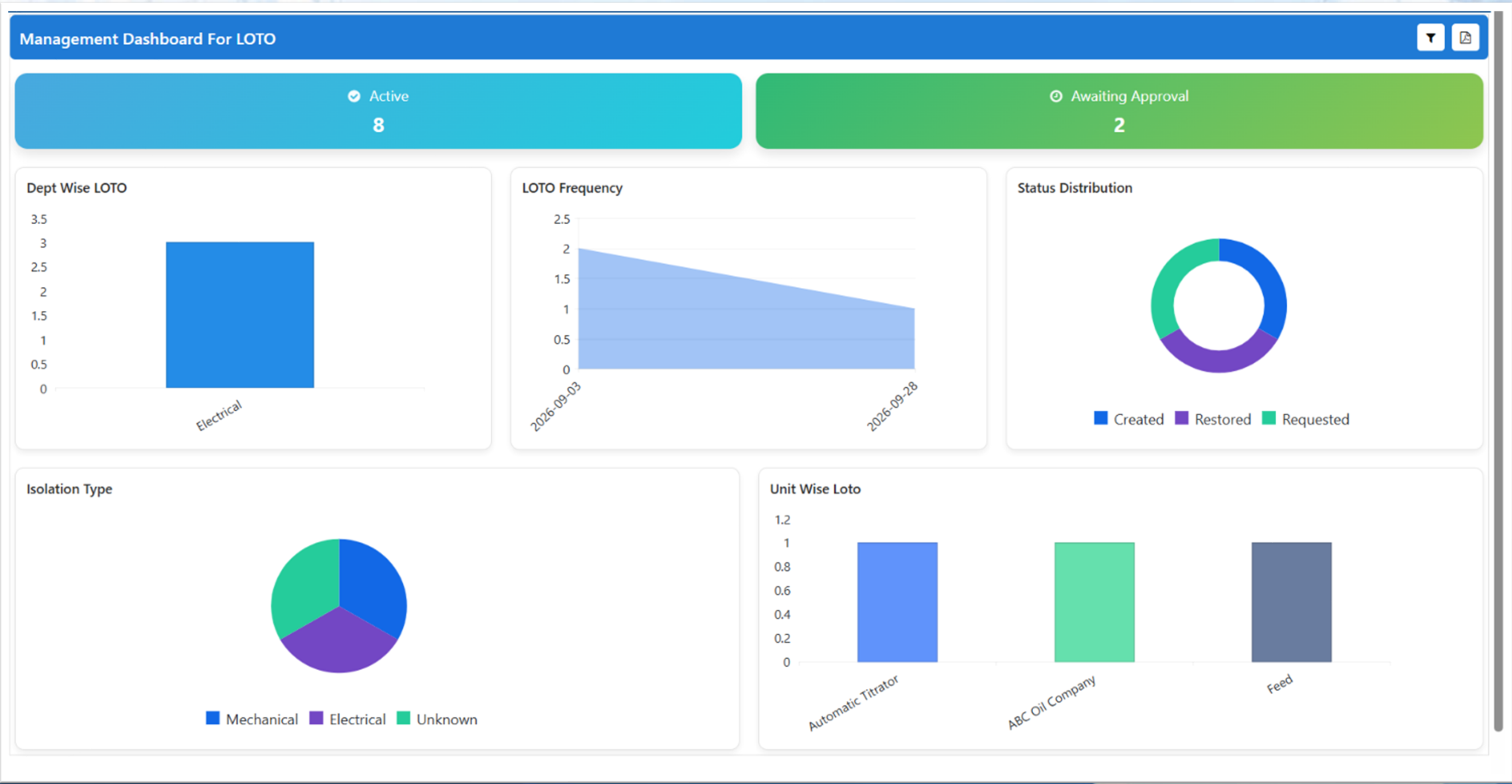
1

10

items per page

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Performance Dashboard





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THANK YOU

FOR YOUR TIME AND CONSIDERATION



CONTACT US



+91 8897698106



37-76-37 Marrichettu Centre - Ongole



www.jaajitech.com



contactus@jaajitech.com

