

USER GUIDE

Shuddhi User Guide

*Precious-metal recovery & loss analytics for
jewellery casting units*

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1. What Shuddhi Is

Shuddhi ("purity") is a local-first web app that helps a jewellery casting unit track exactly where its gold and silver goes — department by department, job by job — and tells the owner how much of what looks like "loss" is actually recoverable versus genuinely gone.

It runs entirely on the device it is installed on. There is no cloud account, no server, and no connection to GST or billing software, ever — the trust that a unit's production data stays private is treated as a core requirement of the product, not an afterthought. Shuddhi also deliberately tracks no market price or rupee value anywhere — direct feedback from a 20-year industry veteran confirmed that units think in weight, not money, when they talk about loss, and that adding a rate to keep current only adds cost and complexity. Every number in the app is a weight: raw grams, or fine-metal-equivalent grams.

This guide walks through every screen using a real, working copy of the app, populated with a realistic (invented) full year of activity for a small casting unit, so every screenshot below shows genuine numbers computed by the app itself.

2. Getting Started

The very first time Shuddhi opens on a device, it walks through a short setup: pick a language, name the unit, choose which metals it works with, and set an owner PIN. Nothing here needs an internet connection or an account of any kind.



Welcome to Shuddhi

The hisaab-kitab for your gold and silver — set up in a few minutes, works fully offline.

Choose your language

English

हिन्दी

ગુજરાતી

मराठी

Get started

The welcome screen — language is chosen first, since everything downstream (including the setup steps themselves) is fully translated.



What should we call your unit?

Shree Ganesh Casting Works

← Back

Next →

Naming the unit. This becomes the label shown throughout the app and on every exported statement.

7

8

9

4

5

6

1

2

3

.

0

⌫

Confirm

← Back

Next →

Setting the owner's name and a 4–6 digit app-lock PIN — independent of the device's own screen lock, so the app stays private even on a shared workshop computer.

Shuddhi never talks to your billing or GST software. This data stays yours — stored only on this device, unless you choose to export or back it up yourself.

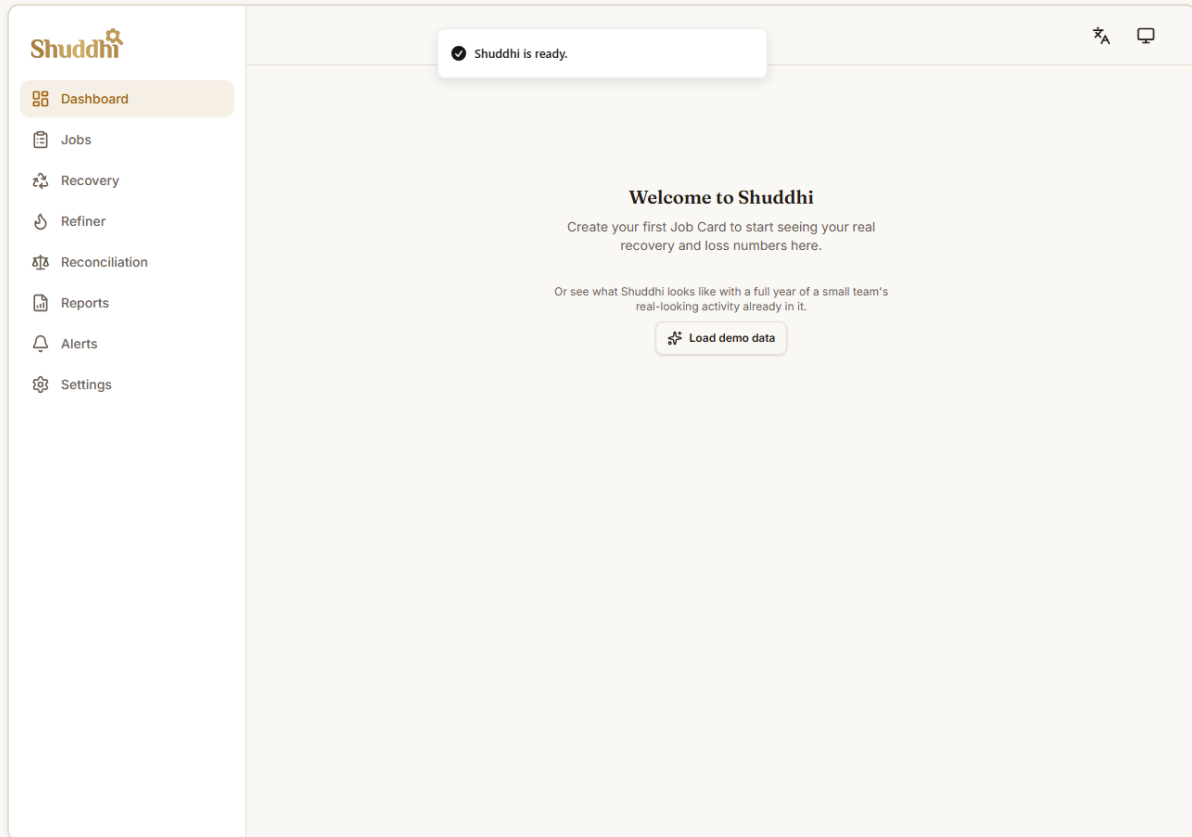
← Back

Finish setup

The setup flow ends by stating the trust boundary plainly: Shuddhi never talks to billing or GST software, and the data stays on this device unless the owner chooses to export or back it up.

3. Seeing It Come Alive: Demo Data

A brand-new unit starts with an empty Dashboard — there is nothing to show until real jobs are entered. For evaluation, training, or a live demo, the Owner can click "Load demo data" right there on the empty Dashboard.

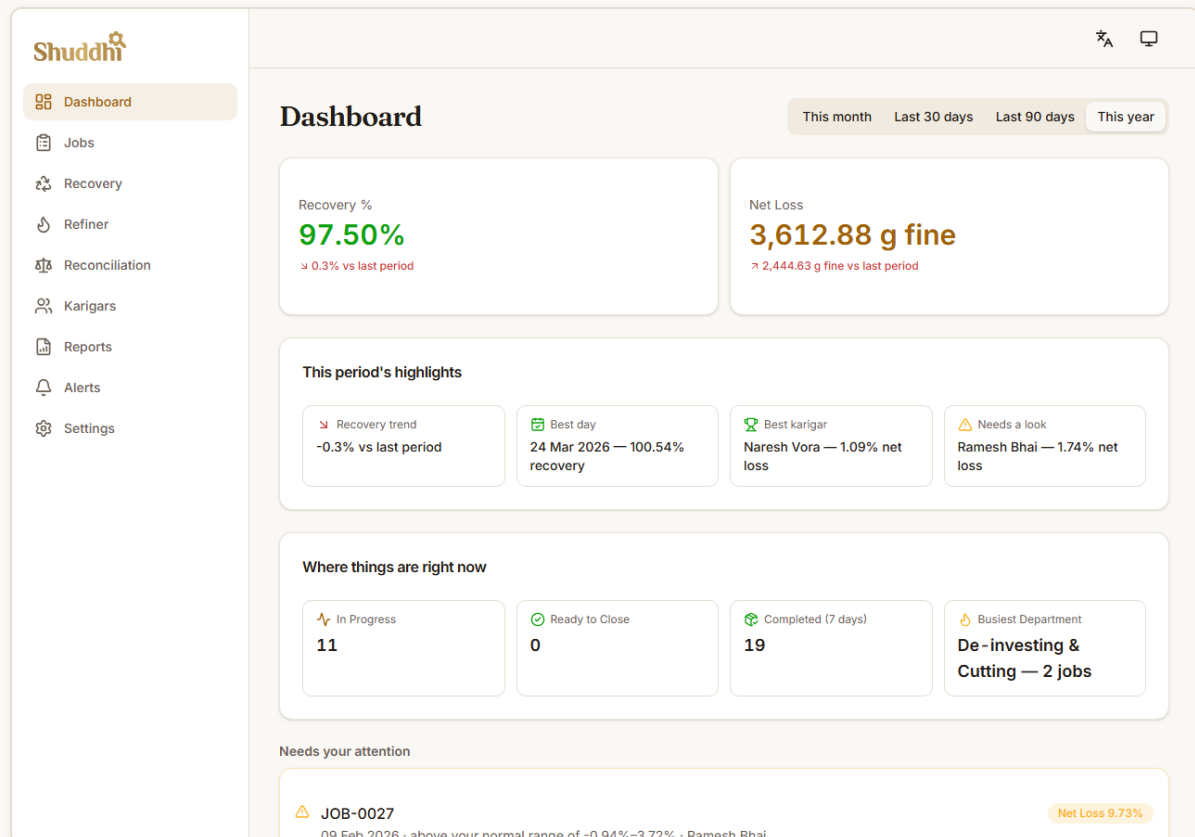


The empty Dashboard, with the one-click demo-data option visible to the Owner.

This fills the unit with a full year of realistic, invented activity: around 800 job cards across the unit's configured metals, ten karigars and a manager (one karigar is deliberately a little worse than the others, to show off the karigar-comparison view), one stretch of a month with a cluster of unusually high losses (to demonstrate the anomaly alerts and the monthly trend chart), and about a dozen refiner dispatches — most already reconciled, the most recent one or two still awaiting a return. Seeding a full year of encrypted records takes roughly one to two minutes, and never touches real data; it is offered once, on an empty unit.

4. The Dashboard

The Dashboard is the daily home screen: the headline numbers for whichever date range is selected (This month / Last 30 days / Last 90 days / This year), each compared against the prior period once there is enough history to compare fairly, followed by a "This period's highlights" insights card and every chart in the product, all computed from real entered data — nothing here is a mock or a placeholder.



The Dashboard after loading demo data: Recovery % and Net Loss up top (each with a vs-last-period comparison), a "This period's highlights" card calling out the best and worst karigar, the best day for yield, and the recovery trend, a monthly production & loss trend chart spanning the trailing year, then further charts covering which department loses the most metal, production mix by karat, a daily-loss heatmap, karigar comparison, and refiner-return variance.

The insights card and the vs-last-period comparisons only speak once there is enough history to compare fairly — with fewer than three jobs in the prior period they show a neutral "not enough history yet" state instead of a misleading number. A chart never hides behind a "not enough data" wall when it has something real to show — a single job still plots as a single point with a short note explaining that the trend will fill in as more jobs come through, rather than leaving an owner wondering if something is broken.

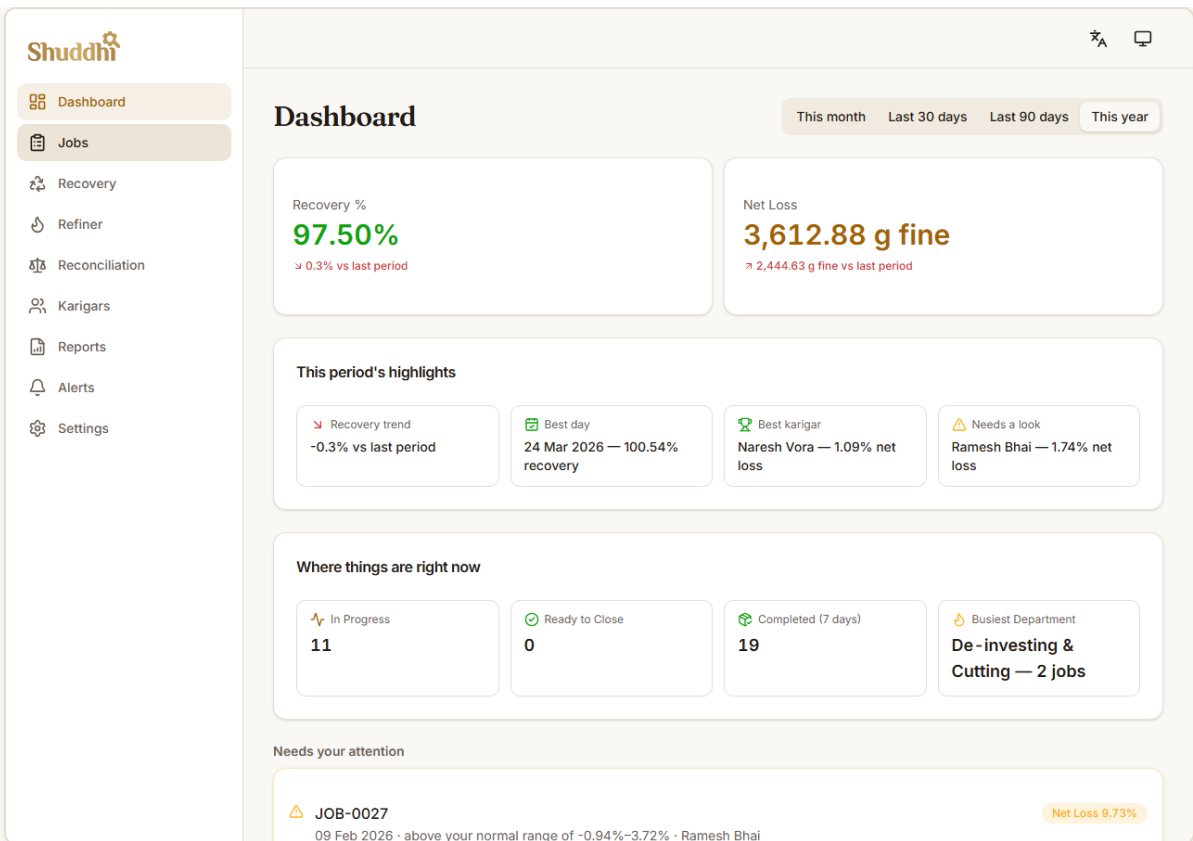
A "Where things are right now" card row sits just below the highlights: how many jobs are still moving through departments, how many have reached Finished

Output but have not been closed yet, how many actually got closed in the last week, and — if any department currently has a real backlog — which one. It answers a different question than the rest of the Dashboard — not "how did last month go," but "where does everything actually stand right now" — and, aside from the closed-jobs count's own fixed 7-day window, it is independent of whichever date range is selected above it.

5. Jobs — The Core Workflow

Every production batch is a Job Card. This is where Shuddhi earns its keep: instead of one lump "loss" figure at the end, each job is weighed department by department — Metal Issue, Melting & Alloying, then either Mechanical (hand fabrication: wire and sheet rolling, hand-filing) or the Casting route (Casting, De-investing & Cutting), followed by Filing / Grinding, Stone Setting, Pre-Polish, Polishing / Buffing, Rhodium Plating, Cleaning, Quality Control, and Finished Output — so the owner can see exactly which department is losing the most metal, not just that some metal went missing somewhere. Every department after Metal Issue is optional: a job only records the ones it actually passed through, so a simple hand-made piece and a fully cast, set, and rhodium-plated one are both represented naturally, with no unused steps cluttering the record.

A job is fundamentally a fixed batch of metal, not one karigar's task list — on the ground, each department has its own dedicated workers, and metal moves between stations rather than one person carrying it start to finish. So a job doesn't need a karigar attached at all by default; a karigar becomes part of the picture only once the Owner turns on karigar-wise tracking (see Section 9).



The Jobs list — searchable and filterable by metal, and by karigar too once karigar-wise tracking is on, with each card showing its status at a glance.

The 'New Job Card' form is designed to capture essential job details. It includes a sidebar with navigation options: Dashboard, Jobs, Recovery, Refiner, Reconciliation, Karigars, Reports, Alerts, and Settings. The main content area is titled 'New Job Card' and features a form with the following fields:

Job details

- Metal: Silver
- Purity / Karat: Sterling (925)
- Karigar: Dinesh Rana
- Date opened: 21-09-2026
- Notes / order reference (Optional): e.g. Sharma wedding necklace — free text, searchable later, never linked to billing

Create job card

Creating a new Job Card: metal, karat, and the date opened — plus the karigar it is assigned to, shown here because this demo unit has karigar-wise tracking turned on. Notes are free text only — deliberately never linked to a billing or order system.

That notes field is more useful than it looks: whatever is typed there — a customer's name, "wedding order," a short description — is matched by the same search box on the Jobs list, right alongside the job number. A shop with hundreds of jobs open across a year doesn't have to remember "JOB-0417" three months later; typing "Sharma" or "wedding necklace" finds it just as well.

Shuddhi

Dashboard

Jobs

Recovery

Refiner

Reconciliation

Karigars

Reports

Alerts

Settings

JOB-0809 created

← Metal Issue

Weight in
0 g

Weight out
500 g

7 8 9

4 5 6

1 2 3

. 0

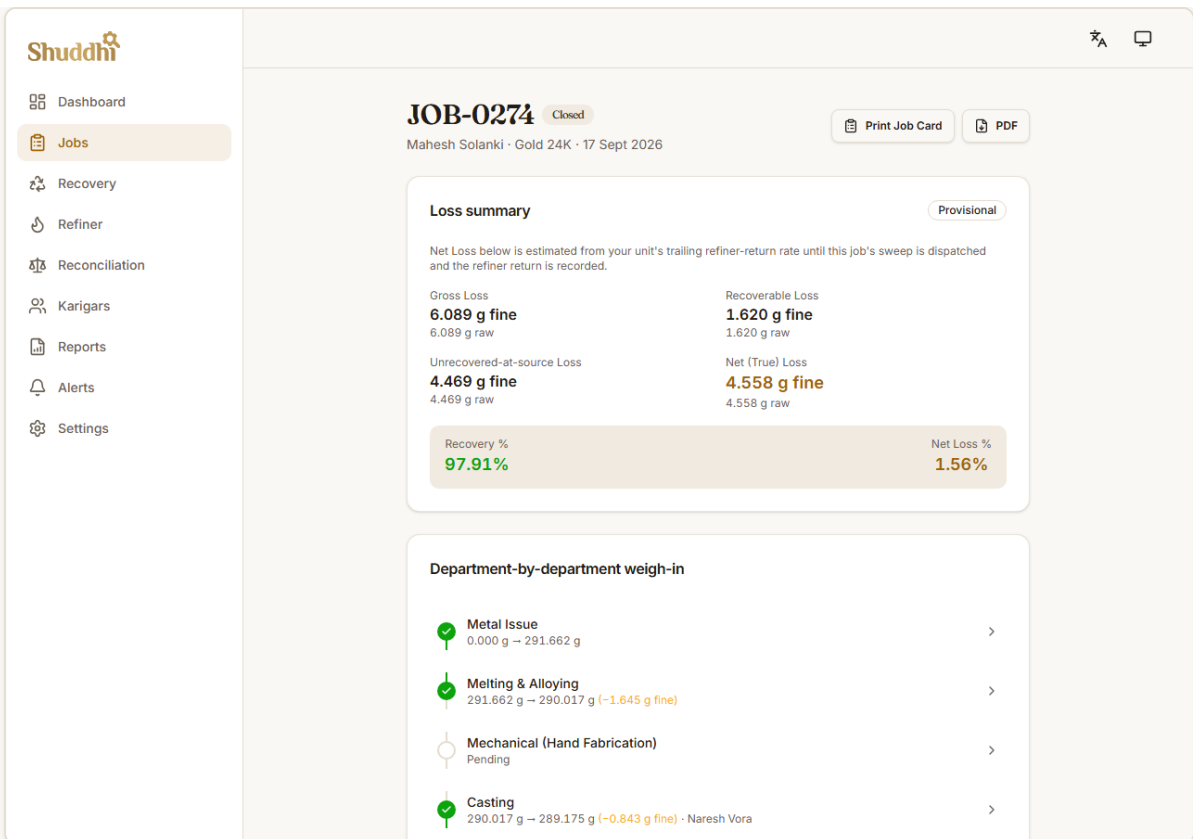
Photo (Optional)

Karigar

Dinesh Rana

Save weigh-in

Weighing a stage. A large numeric keypad is used throughout the app instead of a fiddly text field — this is meant to be usable standing at a workbench next to a scale.



A completed job's full picture: the three-tier loss breakdown (Gross Loss → Recoverable Loss → Net (True) Loss) at the top, then every stage's own weigh-in with its own loss called out — here, an "Unreconciled" note flags a small mismatch worth checking, exactly the kind of data-quality signal this stage-by-stage view exists to catch.

The three-tier split is the product's central idea: Gross Loss is simply what went in minus what came out; Recoverable Loss is the part physically collected as sweep and dust and actually reconciled back from a refiner; Net (True) Loss is what is left over after that — the metal that is genuinely gone, not just temporarily out of sight in a filter bag.

Sometimes a problem only shows up after a job has already moved past the department that caused it — quality control finds a crooked stone, a crack, or a piece that came back underweight. Rather than reopening a stage chain that is meant to record each department once, an open job's own detail page has a Rework section for exactly this: pick which department the piece is going back to and why, and record the weight sent. Once that department finishes the correction and the piece comes back, mark it returned with the actual weight — the difference becomes its own small, clearly attributed rework loss, kept separate from that department's ordinary figures rather than quietly folded into them.

Every job's detail page has a "Print Job Card" button: a full-page document with the job's identity (job number in large print, order/customer reference, date, metal), a QR code any phone camera or cheap USB barcode scanner can read straight into the Jobs list's own search box, and a blank department-by-

department table — Issued, Received, Karigar, Sign — meant to travel with the job itself and get filled in by hand at each department as the piece actually moves, exactly the way many units already work on paper. Enter those figures into Shuddhi once the piece is back; nothing about the printed card is required to match the app's own department list exactly — only the departments a job actually passes through need filling in.

A department that adds material — stones set in, a chain or clasp attached — can legitimately make a job's weight go up instead of down at that step. Shuddhi handles this correctly throughout: a stage that gained weight shows a "+" figure instead of a loss, and a job whose overall Gross or Net Loss goes negative because of this shows "gained — material added" rather than a confusing bare negative number.

6. Recovery — Collecting Sweep & Dust

Floor sweep, buffing dust, wash-water sediment, and a dozen other real recovery routes all carry trace gold or silver. Logging them here — optionally linked back to the job they came from — is what makes the "Recoverable Loss" tier in a job's summary meaningful instead of assumed.

The material-type list was built from a proper look at how jewellery units actually recover metal, not just the obvious few: floor sweep, workbench/tray sweepings, filter or dust-collector waste, buffing/polishing dust, casting scrap (sprue, button, crucible), filing and cutting shavings, cloth/gloves/aprons kept for burning, floor mats and rags, wash-water sediment, ultrasonic-cleaner sludge, pickling/acid-bath residue, tumbling residue, and sink/drain-trap sediment. Anything else is logged as "Other" with its own short description, so a technique a particular unit uses that isn't on the list yet is still captured by name, not lost in an unlabeled bucket. The department a collection came from is optional too — some sources, like a shared wash area, genuinely aren't tied to one department.

Shuddhi Dashboard Jobs Recovery Refiner Reconciliation Karigars Reports Alerts Settings	Sweep & Recovery + Log collection Floor sweep Cleaning Gold · 22 Sept 2026 · assumed purity 27.01% · dispatched 4.984 g Buffing / polishing dust Melting & Alloying Silver · 22 Sept 2026 · assumed purity 35.31% 6.258 g Floor sweep Cleaning Gold · 22 Sept 2026 · assumed purity 17.24% · dispatched 5.506 g Floor sweep Filing / Grinding Silver · 22 Sept 2026 · assumed purity 36.39% 7.118 g Floor sweep Filing / Grinding Silver · 22 Sept 2026 · assumed purity 41.51% 4.077 g
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The Recovery log: material type, which department it came from (or "Not department-specific"), an assumed purity, and weight — each entry shows whether it has already been dispatched to a refiner.

7. Refiner — Dispatch & Return

Collected sweep is batched up and sent to a refiner periodically, not job by job. This screen tracks that batch (a "dispatch") from the day it leaves the workshop to the day the refiner's return comes back — and until it does, every job that contributed to it stays marked "Provisional" rather than pretending to a certainty the unit doesn't have yet.

Shuddhi

Dashboard

Jobs

Recovery

Refiner

Reconciliation

Karigars

Reports

Alerts

Settings

Refiner

New dispatch

Mahalaxmi RefinersAwaiting return21 Sept 2026 · Gold · 574.450 g raw (178.783 g fine)Log return

Mahalaxmi RefinersAwaiting return22 Aug 2026 · Gold · 337.857 g raw (128.095 g fine)Log return

Mahalaxmi RefinersReconciled23 Jul 2026 · Gold · 292.490 g raw (109.870 g fine)Returned 106.420 g fine (-3.14%)

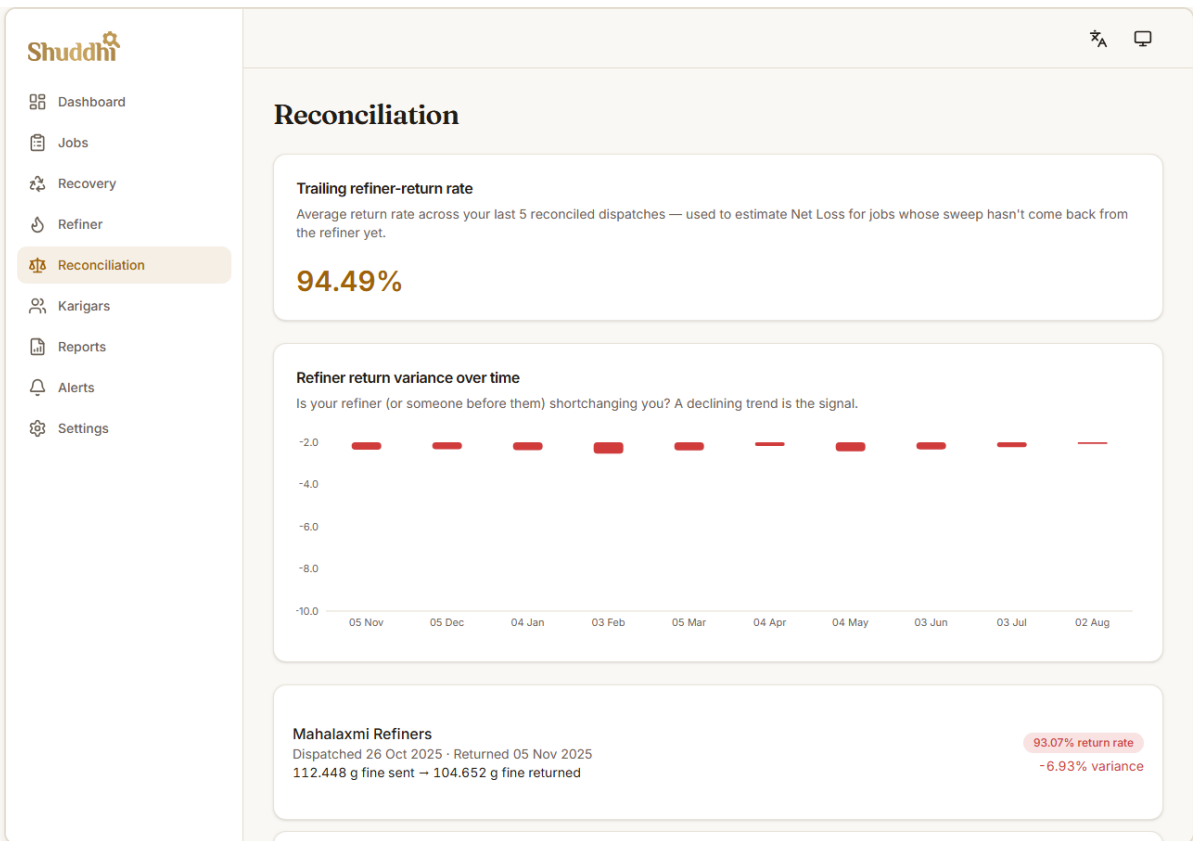
Mahalaxmi RefinersReconciled23 Jun 2026 · Gold · 454.662 g raw (181.273 g fine)Returned 171.864 g fine (-5.19%)

Mahalaxmi RefinersReconciled24 May 2026 · Gold · 275.707 g raw (105.924 g fine)Returned 98.748 g fine (-6.77%)

One dispatch still "Awaiting return" and one already "Reconciled" — the two states every dispatch moves through.

8. Reconciliation — Trailing Rate & Variance

Once a few dispatches have come back, this screen shows the unit's own trailing refiner-return rate — used to estimate Net Loss for any job whose sweep hasn't come back yet — and every past dispatch's actual return rate and variance, so a refiner quietly shortchanging a unit over time shows up as a visible declining trend long before it becomes a real problem.

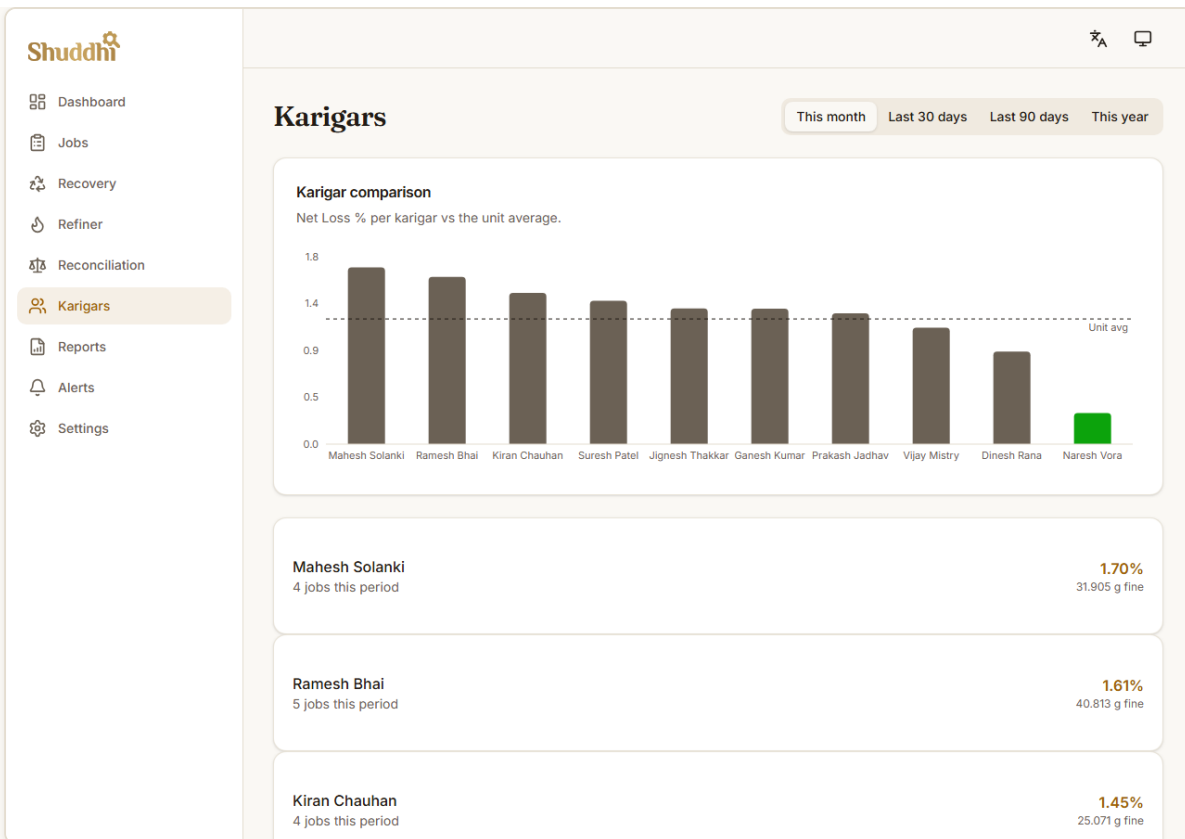


A dispatch with a return rate a little under 94% and a small negative variance called out plainly.

9. Karigars — Entirely Opt-In

Department-wise tracking is Shuddhi's always-on baseline — every unit gets it, no setup needed. Karigar-wise tracking is a deliberate, separate choice: a single switch in Settings, off by default. Off, there is no karigar concept anywhere in the app, in data entry or in analytics. On, it appears everywhere at once — an optional karigar field on every job, an optional karigar picker on every department weigh-in, this whole page, the Dashboard's karigar chart, and karigar columns in reports. Nothing in between, and nothing to configure feature by feature.

Once it's on: Net Loss % per karigar, plotted against the unit's own average, so an owner can tell whether a pattern is "a people problem or a process problem." This view is Owner-only by default and never shown to a Karigar at all — deliberately, to avoid the tool feeling like it is watching the people it is also asking to use it.



One karigar sitting above the unit average, worth a conversation — not a punishment, a starting point.

Karigar-wise tracking also unlocks a second view here: loss broken down by department and by which karigar did that specific work — useful for a unit that wants finer detail than "the filing department loses X grams" and can say who, on a given piece, actually did the filing.

10. Alerts — Anomaly Detection

Any job whose Net Loss % falls outside the unit's own historical normal range shows up here — never a generic industry benchmark, always the unit's own mean and spread, and never flagged until there is enough of the unit's own history to make the comparison meaningful in the first place.

Shuddhi

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Refiner

Reconciliation

Karigars

Reports

Alerts

Settings

Alerts

This month

Last 30 days

Last 90 days

This year

JOB-0064

26 Aug 2026 · above your normal range of -0.94%–3.72% · Ramesh Bhai

Net Loss 6.91%

JOB-0403

09 Aug 2026 · above your normal range of -0.94%–3.72% · Jignesh Thakkar

Net Loss 7.54%

JOB-0260

06 Jul 2026 · above your normal range of -0.94%–3.72% · Mahesh Solanki

Net Loss 8.90%

JOB-0611

15 Aug 2026 · above your normal range of -0.94%–3.72% · Prakash Jadhav

Net Loss 7.61%

JOB-0612

21 Aug 2026 · above your normal range of -0.94%–3.72% · Prakash Jadhav

Net Loss 7.31%

JOB-0270

27 Aug 2026 · above your normal range of -0.94%–3.72% · Mahesh Solanki

Net Loss 7.41%

Three flagged jobs, each showing exactly how far outside the normal range it fell, and who worked it.

11. Reports — PDF, Excel & WhatsApp

A styled recovery-and-loss statement for any date range, ready to download as a PDF or share straight to WhatsApp, plus a plain Excel export of every job, stage weigh-in, recovery collection, and refiner reconciliation in range for a unit's own records or its accountant. Beyond the usual This month / Last 30 days / Last 90 days / This year presets, a "Custom range" option lets an owner pick any from-and-to date pair — useful for a specific order, a quarter that does not line up with a preset, or whatever an accountant asks for — and it applies to the PDF, the WhatsApp share, and the Excel export alike, all at once.

Shuddhi

Dashboard

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Reports

This monthLast 30 daysLast 90 daysThis yearCustom range

Recovery & Loss Statement

31 Aug 2026 – 21 Sept 2026 · headline numbers, three-tier loss breakdown, department and karigar tables — styled like a professional statement.

✓ Recovery % and Net Loss headline

✓ Department-by-department table

✓ Gross — Recoverable — Net Loss

✓ Karigar breakdown, if turned on

Download PDF

Share via WhatsApp

Raw data export

Every job, department weigh-in, recovery collection and refiner reconciliation in this range — plain Excel, for your own records or your accountant.

✓ Every job in range

✓ Every department weigh-in

✓ Every recovery collection

✓ Every refiner reconciliation

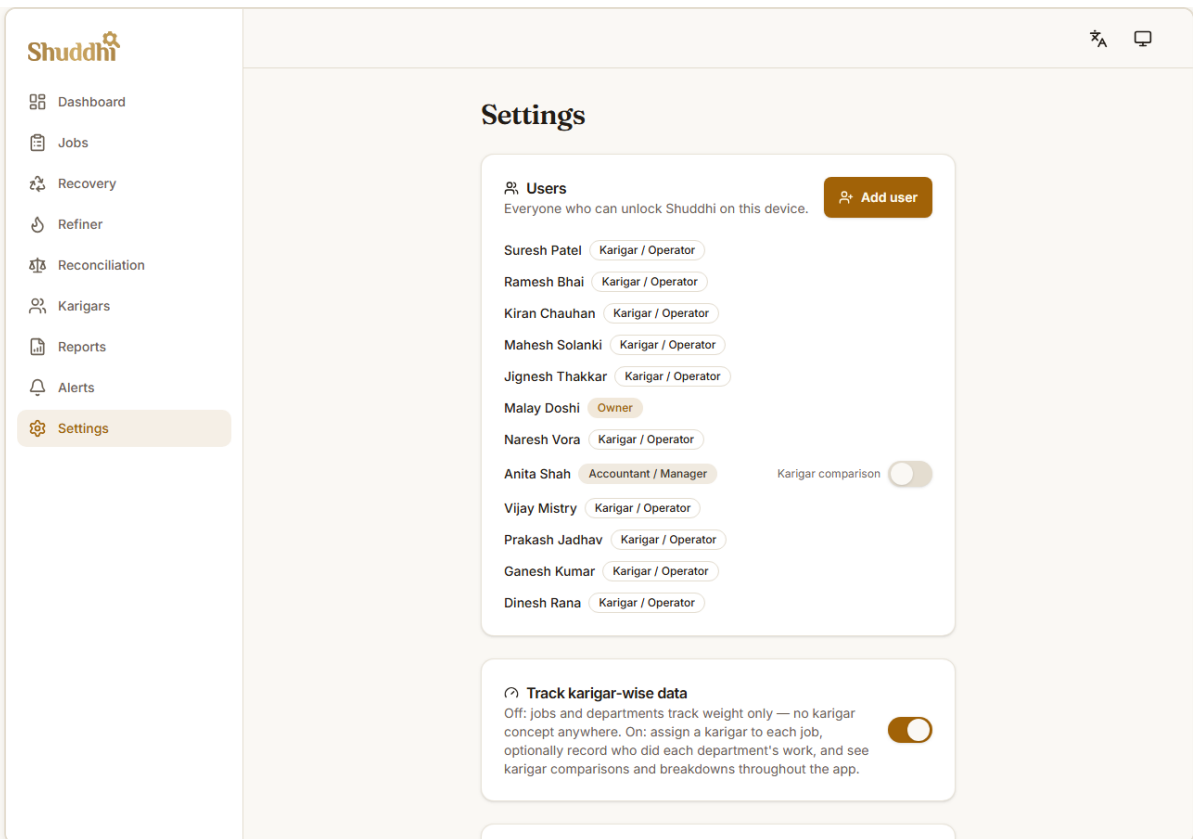
Download Excel

No export ever includes anything resembling a GST or billing document — that boundary is by design, not a missing feature.

No export, ever, includes anything resembling a GST or billing document — a hard boundary by design, not a missing feature.

12. Settings — Users, Backup & Lock

The Owner manages who can unlock the app on this device and with what role, turns on karigar-wise tracking if the unit wants it (see Section 9), triggers a manual encrypted backup (or restores from one), and can lock the app immediately before stepping away from a shared device.

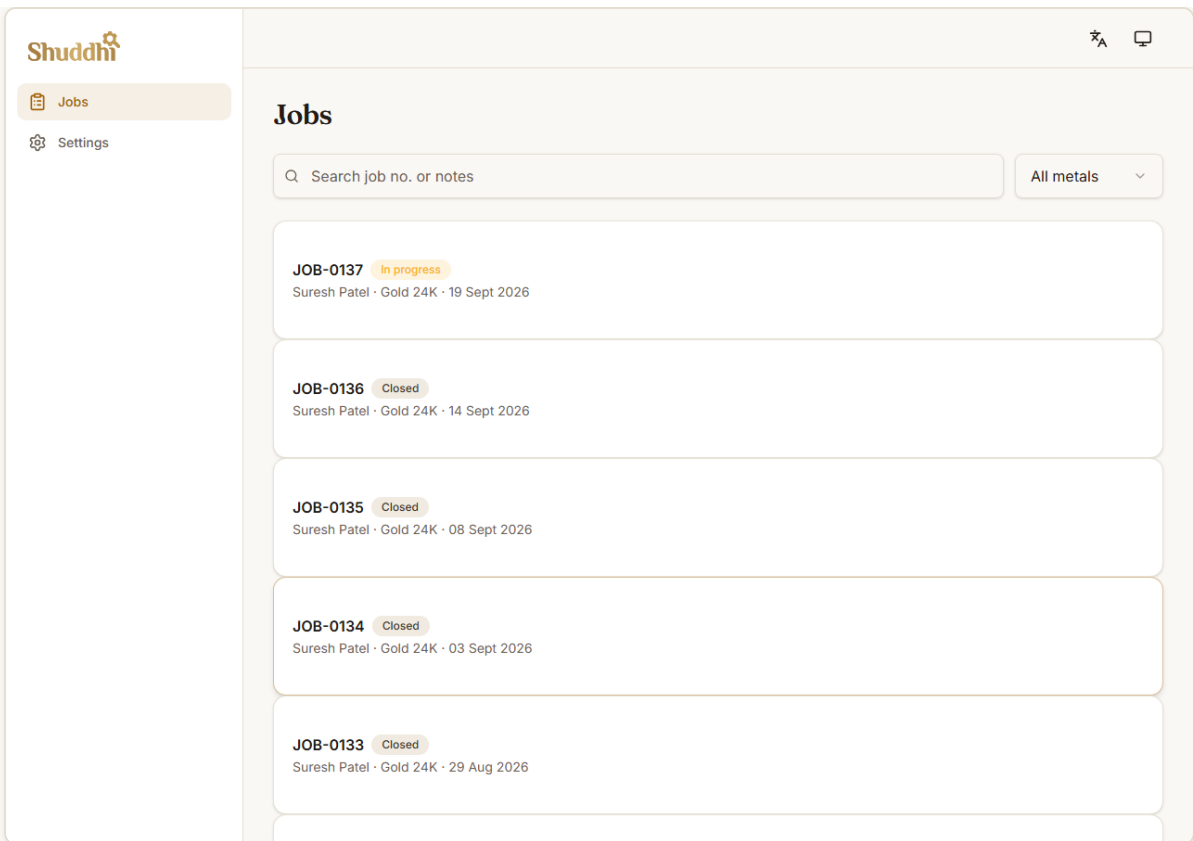


The Owner's Settings: a small team of users each with their own role and PIN, the "Track karigar-wise data" master switch, backup/restore, and Lock app.

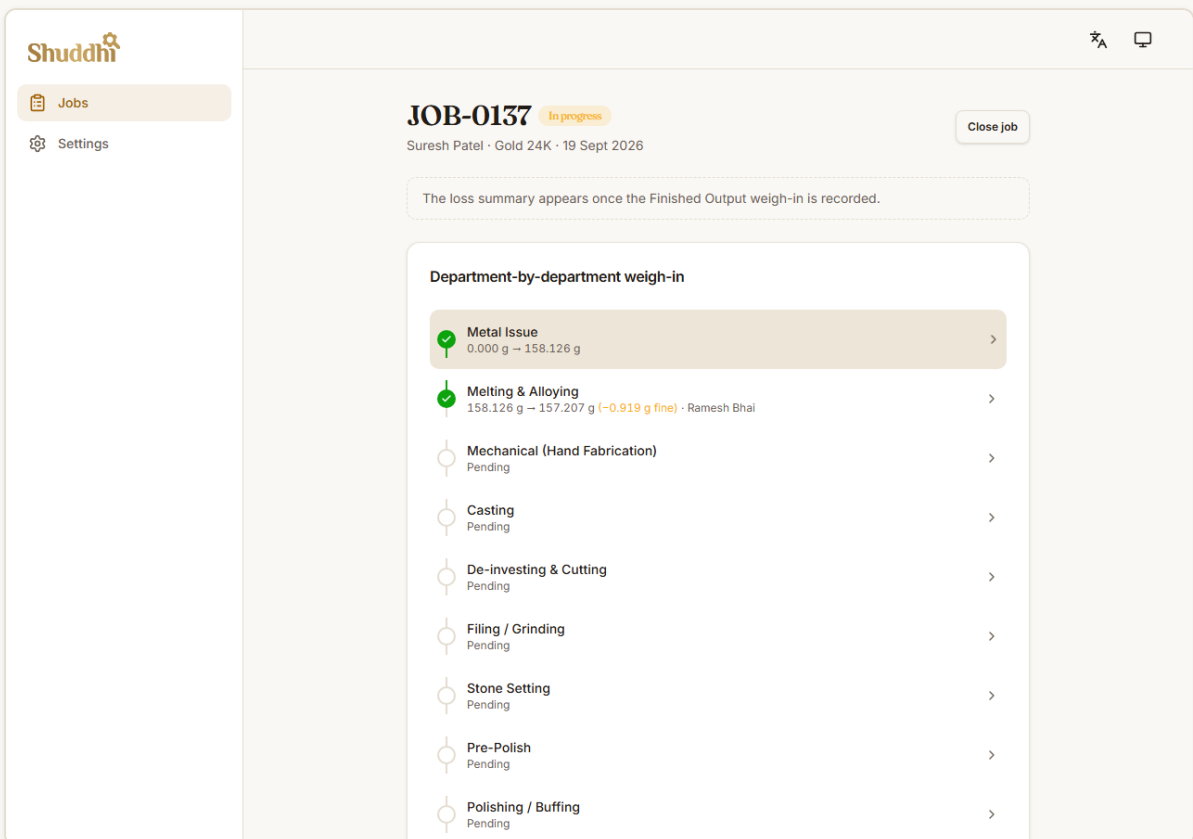
13. Roles & Privacy

Shuddhi has three roles, and they see meaningfully different things — this is a deliberate trust decision, not a missing permission.

Role	Sees
Owner	Everything — every dashboard, karigar comparisons, settings, exports, user management.
Accountant / Manager	Data entry across all departments and the operational dashboards; the karigar comparison view only if the Owner turns it on for them.
Karigar / Operator	Only their own assigned jobs. No shop-wide totals and no other karigar's data — not a hidden button, genuinely absent from the screen. Typically only exists as a login once karigar-wise tracking is on.



What a Karigar sees after unlocking: only Jobs and Settings in the sidebar — every shop-wide page is simply not there.



The same job a Karigar worked on, from their own account — the loss summary is there in full, but the PDF button and the "edited" audit trail are absent, exactly as they are for the Owner's view of the same job.

14. Languages

English, Hindi (हिन्दी), Gujarati (ગુજરાતી), and Marathi (मराठी) are all fully translated, screen for screen — switchable at any time from the language icon in the top bar, including mid-session, with no missing text and no broken layouts from longer translated words.

15. Data & Trust

Everything lives in this browser's own local storage, encrypted at rest with a device-local key that is independent of the app-lock PIN — so a co-worker glancing at the screen and someone extracting the device's raw storage are two different threats, each addressed on its own terms. Nothing is ever sent anywhere automatically.

The only way data leaves the device is a backup file the Owner explicitly creates and encrypts with their own passphrase, or an export the Owner explicitly chooses to send. Shuddhi can be installed as an offline app (its install prompt appears in the browser's address bar) and, once installed, works with no internet connection at all.

Shuddhi — local-first, offline-capable, and never connected to billing or GST software.