ConcreteInfo | CMDApp

COMPLETE READY-MIX CONCRETE QUALITY PLATFORM

Design the mix. Test the pour. Certify the concrete.

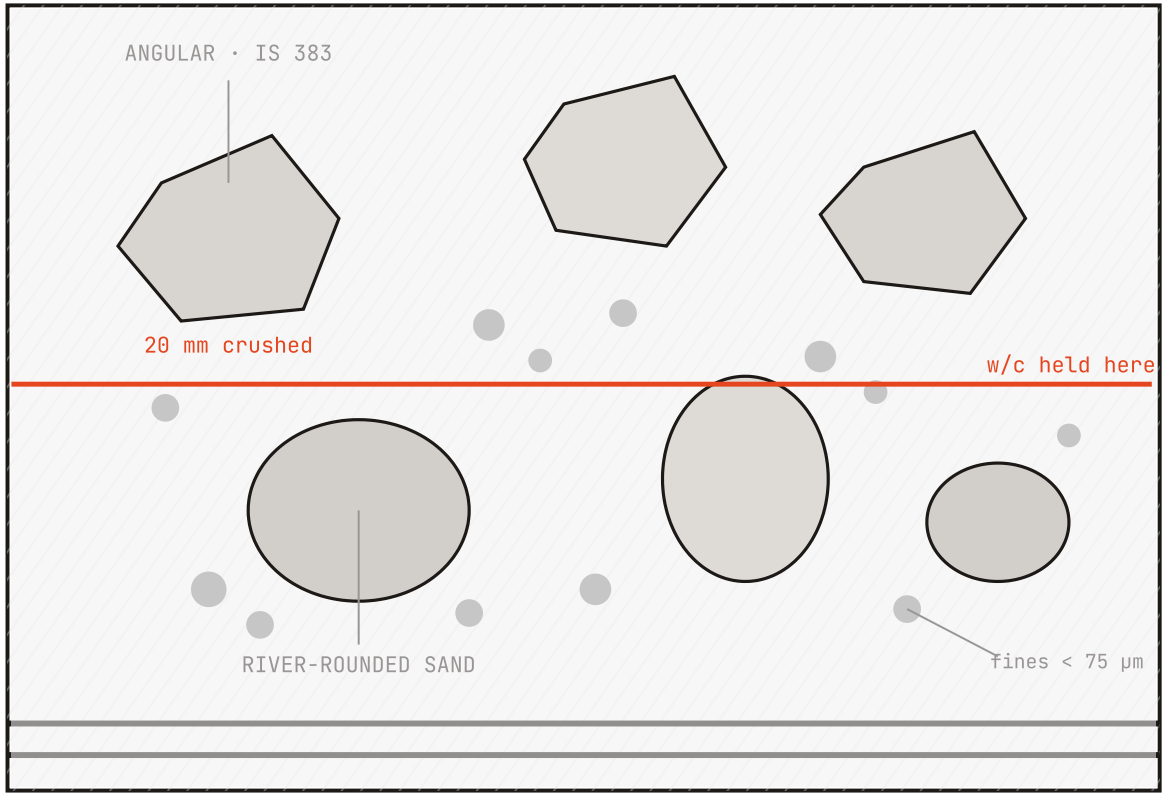
One record from the weighbridge to the signed certificate — and the analysis engine that tells you whether the pour will crack before you cast it.

61
clause-tagged test modules

6
mix-design standards

17
ACI-backed analysis tools

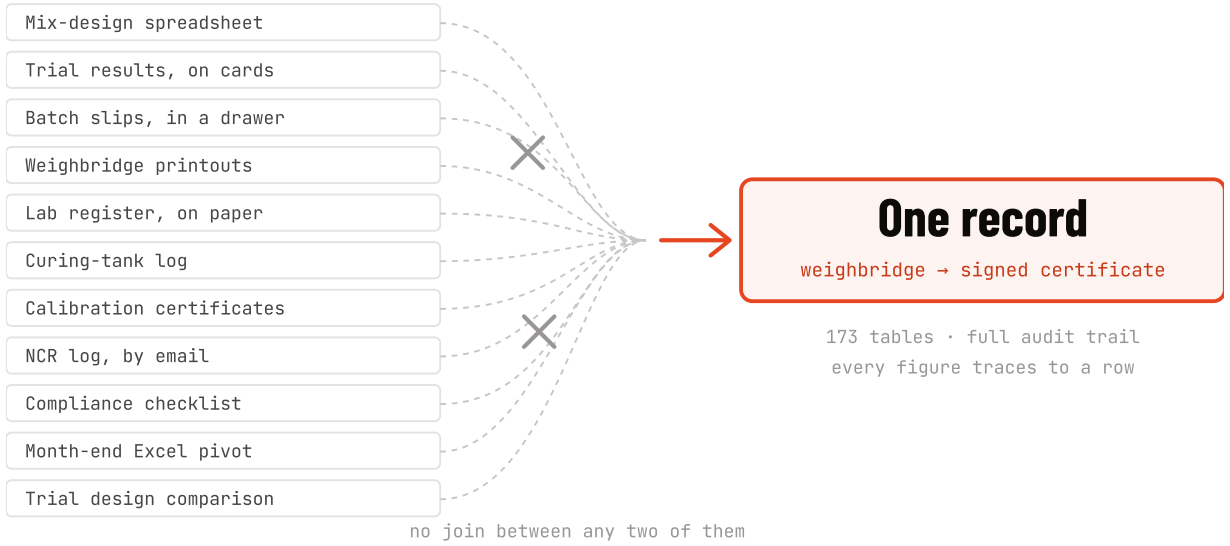
173
tables in the audit trail



SECTION THROUGH CAST CONCRETE · Fe500 REINFORCEMENT SHOWN

REWORK · 5–21% OF PROJECT VALUE

One quality process, living in eleven places at once



Nobody sets out to run quality across eleven systems. It happens because each of these was bought, built or inherited separately, and each holds the part nobody else can see.

Late	The defect surfaces at 28-day cube failure — long after the batch that caused it was cast, dispatched and forgotten.
Disjoint	Nobody can answer "was this aggregate pile already rejected?" without three phone calls.
Unprovable	The certificate is assembled from a folder of photographs and a signature.

Rework range: CIRIA C108 / industry-reported 5–21% of project value

SIX LIFECYCLE STAGES

Six stages — the same six you already run, just not on paper

01

Materials

One IS-code library for cement, SCMs, aggregate, admixture, water, fibre.

02

Design

IS 10262, ACI 211, BRMCA, EFNARC, HSC and UHPC in one designer.

03

Trials

Cast, cure, crush, score. Campaigns compared on evidence.

04

Production

OCR weighbridge tickets in, live pour register out.

05

Quality

Sampling, curing, calibration, SPC, scoring, CAPA, retention.

06

Insights

22 dashboards, 17 analysis tools, all reading the same history.

SHARED RECORD

One batch ID

CARRY-FORWARD

Target strength carries trial → production

CLAUSE INHERITANCE

Design tolerance → QC limit

NO RE-ENTRY

Data typed once

IS 10262:2019 · ACI 211 · BRMCA · EFNARC

Six standards, one hub, side by side

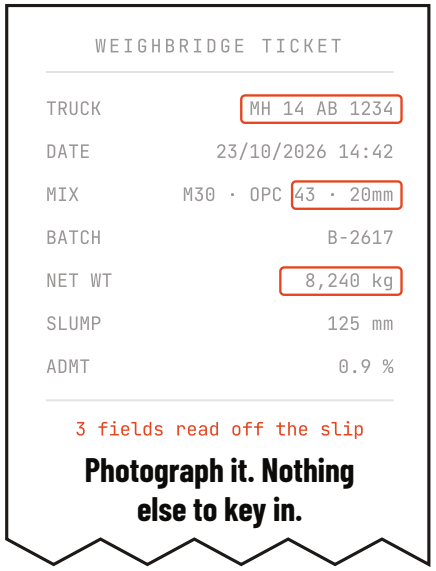
METHOD	PROCEDURE	TARGET BASIS	CODED AGAINST
IS 10262:2019	Absolute volume, five-step flow	f_{ck} + 5 M + 1.65 S	Indian practice, M15–M60
ACI 211.1	Absolute volume, w/c from f'c table	f'c, exposure class	US practice, exposure-driven
BRMCA	Volume-based, RMC-industry defaults	f_{ck}, slump band	Ready-mix plant practice
EFNARC 2005	SCC constituent ranges	slump-flow, T500, V-funnel	Self-compacting concrete
HSC	Low w/c, dense paste, SCM blend	60–100 MPa	High-strength mixes
UHPC	Fibre dosage, steel fibre, no coarse agg.	120–180 MPa	Ultra-high performance

Same inputs, six answers. Run a design under IS 10262 and ACI 211 in the same session and see exactly where the two methods part company — which is usually the water content.

Every mix	Stored with its cement, SCM, aggregate and admixture as versioned records — not as a number in a spreadsheet.
Moisture	Surface moisture carried into the water correction on every revision.
Tolerance	Design tolerance becomes the production target and, downstream, the QC acceptance band.

Carry-forward is the point: a design is not an artefact, it is the head of a chain.

Batching to pour, tracked as it happens



OCR →

BATCH	GRADE	TRUCK	SLUMP	STATUS
B-2617	M30	MH14	125	pouring
B-2618	M25	MH14	110	transit
B-2619	M30	MH12	–	loaded
B-2620	M40	MH12	135	pouring
B-2621	M25	MH14	100	placed

RETENTION ALERT · B-2618
72 min in transit · threshold 60 min · plant-set

live pour register · every truck, every minute

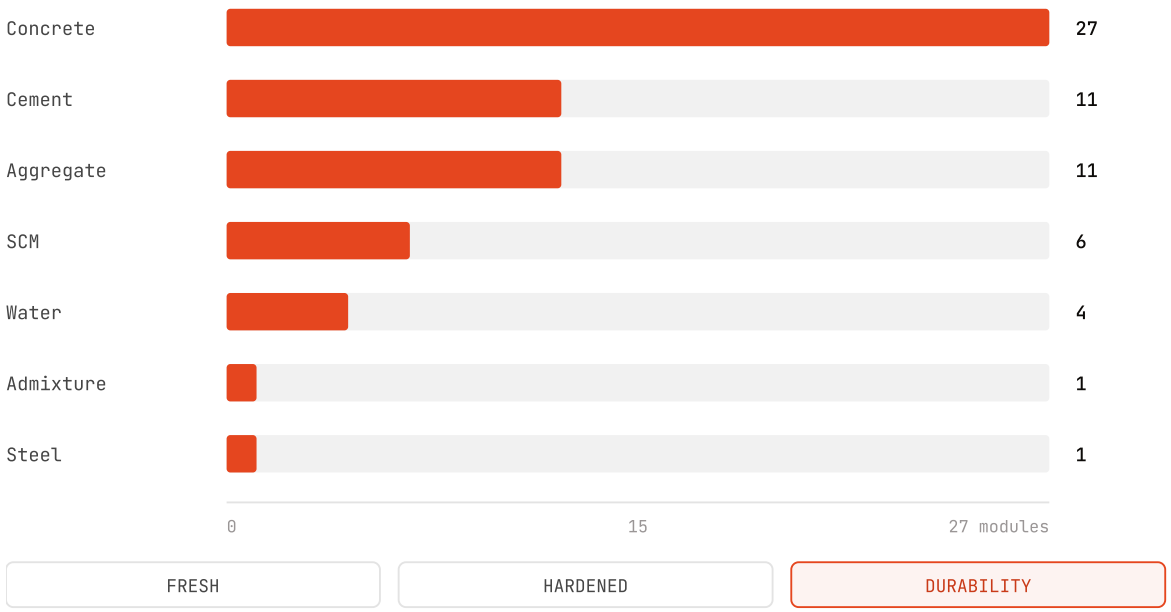
The batch slip is the weakest link in the chain. It is written once, at the plant, by a driver who is in a hurry — and it is the only artefact that ties a cube result back to a truck.

OCR	Photograph the slip. Truck, batch, mix, net weight and slump land on the register.
Transit	Alert thresholds are set per plant and per customer, not to a fixed 90-minute rule.
Sampling	Cube and cylinder IDs inherit the batch, so the certificate needs no re-typing.

Alert thresholds configurable per plant · retention · unload delay

— 60+ TESTS · CLAUSE-TAGGED ON ENTRY

Sixty-one modules, every one tagged to its clause



Not the cube test. Twenty-seven concrete modules spanning fresh, hardened and durability — plus cement, aggregate, SCM, admixture, water and steel, each with its own clause on the entry form.

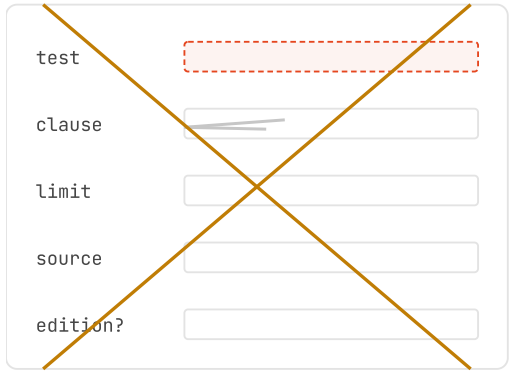
FAMILY	RUNS
Compressive & flexural	IS 516 · IS 1199
Slump, flow, V-funnel, J-ring	IS 1199 · EFNARC
ASR, sulphate, chloride ingress	IS 516 · EN 206
SCC, NDT, sorptivity	IS 10262 · ASTM C1585

Clause carried onto the entry form, the record and the certificate — the standard is never a memory test

— WHAT THE TESTING MODULE ACTUALLY SAVES

The bookkeeping, not the testing

WITHOUT THE CLAUSE TAG



Which edition? Which table?
Who has the book today?

WITH IT

test	7-day compressive
clause	IS 516 (Part 1/Sec 1)
limit	≥ 45 MPa at 7 d
source	Fitted on entry
edition	Part 1 : 2021

Pick the test. The clause, the limit, the edition and the calculation arrive.

WHAT REACHES THE CERTIFICATE

SAMPLE	CLAUSE	LIMIT	
B-41 / 7d / CTM-118	IS 516 (Part 1/Sec 1) : 2021	≥ 45.0 MPa	TRACE
RESULT	ACCEPTANCE	SIGNED	
48.6 MPa	PASS	QA / 23.10.2026	

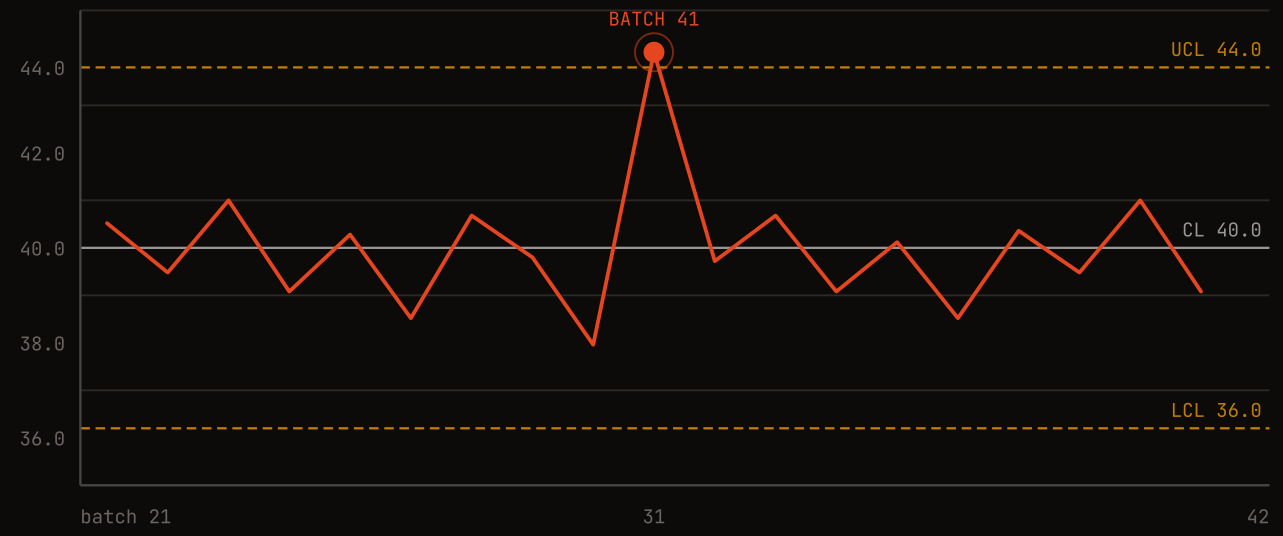
A technician at 6 p.m. should not be deciding which edition of a code applies. Every entry form arrives with its clause, its limit and its calculation already attached.

Entry	Fresh, hardened and durability forms, each with the fields its own test actually needs.
Cure	Casting, curing-tank position, temperature and the 7/28-day schedule on one register.
Offline	Capture at the bench with no signal. Records queue on the device and sync when it returns.

The saving is not the crush — it is the six hours a week of re-finding, re-typing and re-checking

— IS 456 CL. 16.1 · SPC · COMPLIANCE · TRACEABILITY

Catches drift before it becomes a failed cube



28-DAY CUBE RESULTS · M30 · RUNNING X-BAR

One point outside the control limit is not a lost cube. It is the last day you can ask which change caused it — before the batch is dispatched.

X-bar & R	CUSUM for run detection, EWMA for slow drift, against the IS 456 Table 8 standard deviation.
Scored	Supplier evaluation, delivery scoring, incoming material, and cube results — all on the same axis.
Beyond	Pareto of causes, Pareto of suppliers, compliance against contractual specs.

Every point drills through to the batch, the truck, the mix revision and the sample

— 22 DASHBOARDS · 17 ANALYSIS TOOLS

Seventeen tools, grouped the way the hub groups them

QUALITY INTELLIGENCE

QC Intelligence Dashboard

IS 456 gauges, box & violin plots, SPC, histograms, CDF, gain analysis, non-conforming sets

Project QC Dashboard

Margin above f_{ck} and σ, per project, per grade

SQC Control Charts

X-bar & R, CUSUM, EWMA — IS 456 Table 8

Statistical Quality Control

Distribution, normality and capability on live data

MATERIALS & DURABILITY

Sieve Analysis

Grading against IS 383 zones, coarse and fine

Abrasion & Impact

Los Angeles abrasion, impact, crushing strength

Alkali Reactivity

ASR scan against petrographic classification

Durability Assessment

Sorptivity, chloride ingress, carbonation

MIX & STRUCTURAL

Mix Design Validation

Predicted vs achieved strength per mix revision

Crack Prediction

ACI 209.2R-08 · 318–19 · 207.2R · 224R-01

Rebar Corrosion Risk

Chloride threshold against cover and w/c

Structural Capacity

ACI 318 capacity check on achieved f'c

PRODUCTION & COST

Batch Analysis

Production volume and consistency by mix

Cost Analysis

Cost per m^3 against grade and plant

Maturity Model

Nurse–Saeland, ASTM C1074

Carbon Footprint

Cement factor by SCM blend

Every one reads the same record. None of them re-enter a figure.

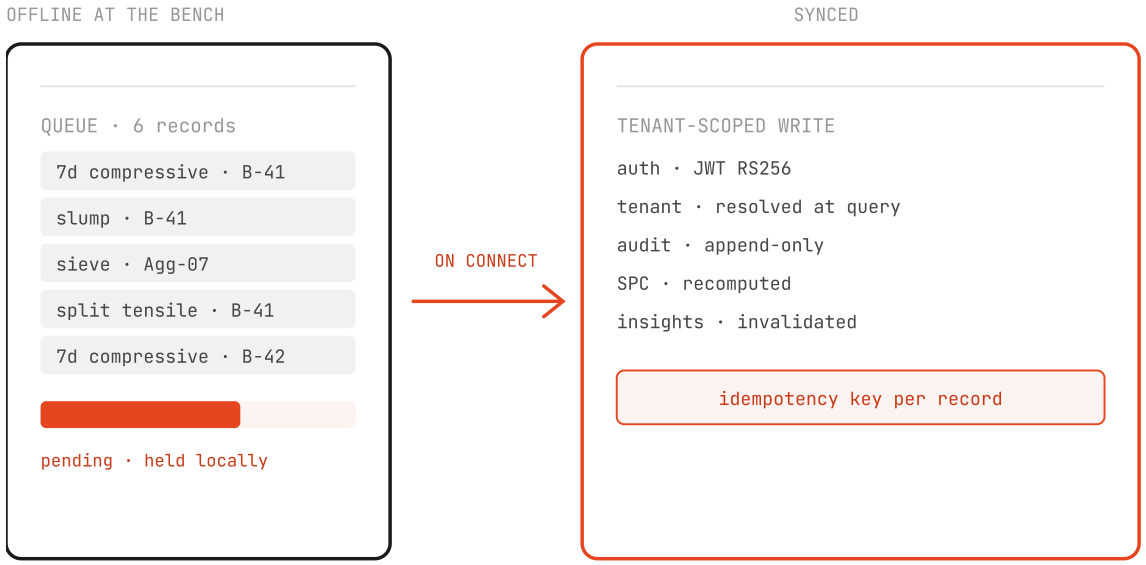
AI

28-day prediction at day 7

OFFLINE-FIRST PWA · JWT REST API

It works at the bench with no signal

A plant laboratory is a basement. A site is a shuttered container at the far end of a compound. Neither has reliable connectivity, and both still have to produce a record that survives an audit.



SERVICE WORKER
Shell and code cached

LOCAL QUEUE
Capture offline

TENANCY
Scoped per query

API
REST, per-module authz

Multi-tenant SaaS. OCR runs on our infrastructure; route documentation is issued to integrators on request.

PRICED PER USER · +18% GST

You're choosing plants, not features

Every paid tier includes **every module** — all six mix-design methods, the full testing suite, SPC, NCR/CAPA, analytics, exports, custom branding and API access.

Free

7-day full-access trial, then three lifetime designs

₹0

forever

- **1** default plant
- **3** lifetime designs
- 7-day trial, every module, no restrictions
- No card required

Solo

Every module, unlimited designs — one plant

₹1,299 /user/month

per user · + 18% GST extra

- **1** plant
- Unlimited designs & analysis
- No seat cap
- OCR batch-slip capture
- Offline capture at the bench

MOST POPULAR

Growth

Small multi-plant teams sharing one organization

₹1,899 /user/month

per user · + 18% GST extra

- **2–4** plants
- Unlimited designs & analysis
- Organisation hierarchy
- Shared dashboards across plants
- REST API on request

Enterprise

RMC groups — unlimited plants and API access

₹2,799 /user/month

per user · + 18% GST extra

- **5+** plants · unlimited
- Unlimited designs & analysis
- REST API & webhooks
- Custom branding on reports
- Route documentation for integrators

Published because it is ours to publish. Compare it against a quote you have to request.

LIMS products such as CloudLIMS start near **$39/user/month** and cover the laboratory only — not the mix, the plant, the pour or the certificate.

CONCRETEINFO · CMDAPP

Seven days. Every module. No card.

Start with one plant and one grade. Import a month of results and watch the same picture build itself.

Open the trial cmdapp.concreteinfo.co.in

BUILT AGAINST THE CODES YOU ALREADY WORK TO

IS 10262:2019	IS 456:2000
IS 516	IS 1199
IS 2386	IS 383:2016
IS 9103	IS 4926
ACI 211.1	ACI 209.2R-08
ACI 318-19	ACI 207.1R
ACI 224R-01	CIRIA C108
EN 206 / 15804	EFNARC 2005
ASTM C1074	

35 standards in the library · 19 Indian, 16 international