GENBIOCA
Domain Led, Technology Services Company

WE ARE THE TRUSTED



FOOD & BEVERAGE COMPLIANCE PLATFORM

GBC-Brix™

14	100+	<60s	75%+	6–10%
Regulatory frameworks covered out of the box	Compliance form types across all cadences	Sensor-to-alert latency for CCP excursions	Reduction in audit preparation effort	Projected yield increase in pilot quarter

One operational platform that digitizes every compliance form, automates regulatory monitoring across 14 frameworks, and surfaces live plant and group intelligence

From the production line to the boardroom.

24×7 Audit-Ready. Zero Paper.

GBC-Brix™

Why Brix

Paper compliance costs more than you think

One unified operational platform that digitizes every compliance form, automates regulatory monitoring across 14 frameworks, and surfaces live plant and group intelligence — from the production line to the boardroom.

Industry Challenge and What We Offer

Today- Paper & Spreadsheets

CCP excursions surface days or weeks late often after product has shipped to thousands of retail outlets, triggering recalls and consumer safety risk.

200–600 person-hours of audit prep per plant, per year reconstructing records that should have been audit-ready from day one.

Calibrations, licence renewals and training certifications lapse silently no consolidated, proactive tracker across multiple obligations.

Complaints and CAPA tracked in email and Excel root-cause discipline decays; trends are invisible.

No cross-plant operational view each site has its own data shape; group compliance and yield comparison are manual fire drills.

With GenBioCa Brix

CCP excursion detected and routed in <60 seconds sensor-to-owner, with batch auto-held and audit trail preserved.

Audit pack assembled in under 5 minutes auto-populated from live records; one click for any framework, date range or plant.

All obligations tracked live with proactive alerts 30/15/7-day advance warnings; overdue blocked in downstream forms.

End-to-end CAPA with trend analytics complaint to root cause to closure, fully tracked, SKU-wise and batch-wise.

Group roll-up in real time cross-plant red/amber/green posture, yield, OEE and open NCs on one screen, always live.

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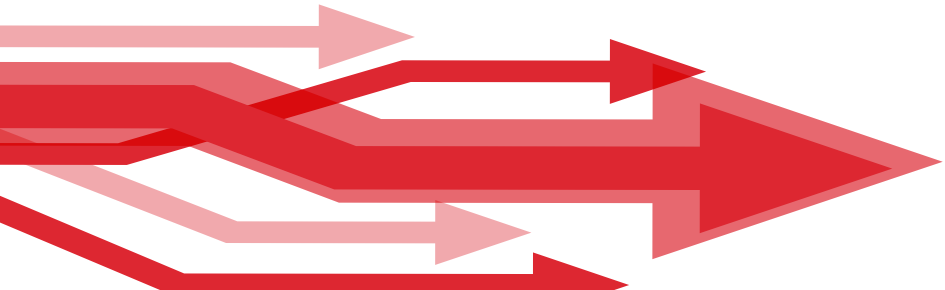
Data Flow – Platform Working

Capture once. Flows to every level in <60 seconds.

A reading taken at the production line reaches the corporate compliance dashboard without any manual reconciliation. Every hop is time-stamped, role-locked and immutable.

1. **Operator**
   Captures the record on tablet, phone or kiosk at the line in under 30 seconds. Offline-first - syncs automatically on reconnect.
2. **Supervisor**
   Verifies entries in real time, manages shift handover, escalates deviations. Shift summary auto-generated for the incoming shift.
3. **QA Manager**
   Sees all open deviations, CCP alerts and overdue compliance items in one view. Generates audit packs on demand in <5 minutes.
4. **Plant Head**
   Live yield, OEE, downtime, active CCP alerts and compliance posture - on a single dashboard accessible from any device.
5. **Group / Corporate**
   Cross-plant red/amber/green compliance, group production, yield variance and open NCs – all in real time, all on one screen.

Beverage and food manufacturers operate under dense, overlapping regulatory environments. Relying on paper forms, standalone departmental spreadsheets, and manual shift registers introduces critical corporate risk, leading to lost time, high liability, and operational chaos.



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Platform Capabilities

The 15 Core Operational Modules

Built on a unified proprietary taxonomy, every module natively shares the exact same plant hierarchy, product master, and user-role permissions to eliminate data silos.

1. Forms & Records: Digitize 100+ form types with secure e-signatures and zero-code version control.

2. Batch & HPP Analytics: Live batch tracking, automated holds on variations, and real-time line OEE.

3. Farm-to-Bottle Traceability: Complete lot-to-dispatch lineage for instant, targeted mock recalls.

4. Quality & Compliance: Built-in HACCP, active deviation logs, and automated FSSAI Schedule 4 packs.

5. Cold-Chain Ingestion: Continuous IoT temperature streaming with custom severity/duration alerts.

6. Environment: Daily tracking (flow, pH, BOD, COD) to auto-populate official SPCB returns.

7. Utilities & Energy: 4-hourly infrastructure logs paired with specific energy index (SEI) metrics.

8. Sanitation & Pest Control: Digital pre-op checklists, CIP rinse validation, and PCO service tracking.

9. Calibration Management: Master instrument registry with hard blocks to stop out-of-spec tool use.

10. Complaints & CAPA: Multi-channel intake tied to automated, SKU-wise root-cause analytics.

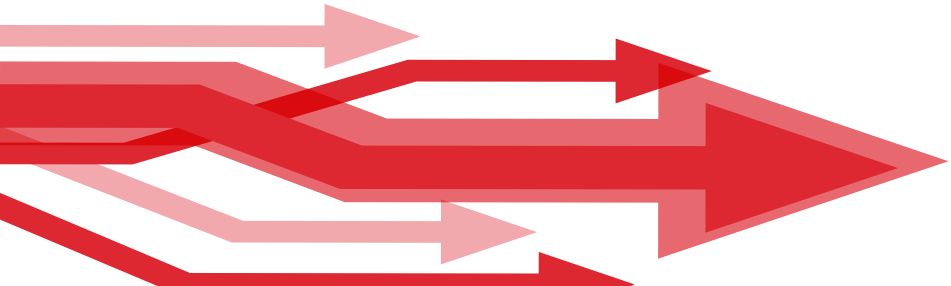
11. Training & Competence: Role-based certification schedules (e.g., FoSTaC) with line-access locks.

12. Audit Lifecycle: Internal scheduling mapped to ISO 22000 with secure, read-only auditor views.

13. Vendor & Co-Packer Quality: Qualification registries, receipt inspections, and monthly scorecards.

14. Reporting & Predictive Alerts: Role-based dashboards with automated reports and multi-tier escalation logic.

15. Master Data Admin: Drag-and-drop form creation studio protected by strict role-based access control (RBAC).



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Regulatory Framework Mapping & Form Cadences

Regulation / Framework	Cadence	What Brix Covers
FSS Act 2006 + Licensing Regs 2011	Daily + Annual	Forms management, compliance evidence, vendor qualification, FoSTaC training records
FSSAI Schedule 4 — Hygiene & Sanitary	Daily + Monthly audit	Sanitation & hygiene checklists, CIP verification, pest control records, monthly self-audit pack auto-generation
FSS Product Standards 2011	Per batch + Quarterly	Batch analytics, Brix/pH/acidity parameters, product release checks, non-conformance register
FSS Packaging & Labelling Regs	Per SKU change	SKU master management, pack-size labelling compliance, Legal Metrology linkage
BIS IS 14543 / 13428 / 2346	Per batch + Annual audit	Batch QC parameters, product testing, BIS mark compliance records, audit evidence
Legal Metrology Act 2009	Per SKU + Annual	Calibration of weighing/measuring instruments, net-weight verification, certificate register
Water Act 1974 + Air Act 1981	Daily ETP + Monthly	Daily ETP operations log, effluent parameters, monthly returns auto-populated
EP Act 1986 + Hazardous Waste Rules	Monthly + Annual	Hazardous waste manifest, stack emissions, annual hazardous-waste returns
Plastic Waste Mgmt + EPR Rules	Quarterly + Annual	EPR obligation tracking, plastic-waste tonnage, quarterly reconciliation, CPCB portal filing (Phase 2)
Factories Act 1948	Daily + Annual return	All operational forms, training records, sanitation, shift records, annual return data
Indian Boilers Act 1923	Daily + Annual inspection	Boiler 4-hourly operation logs, inspection readiness, certificate register
Energy Conservation Act 2001 (PAT)	Monthly + Annual	Daily energy consumption, specific energy index (SEI) tracking, PAT cycle reporting, BEE portal (Phase 2)
PESO Pressure Vessel Rules 2016	Daily + Annual	CO_2/ammonia tank pressure logs, PESO-aligned thresholds, inspection certificate register
ISO 22000 / FSSC 22000 / HACCP	Daily + Annual audit	All evidence for certification: HACCP plan, CCP monitoring, corrective actions, audit management, management review

Architecture & Security Baseline

Availability:
99.9% Uptime SLA | RTO <= 30 min | RPO <= 5 min.

Resilience:
24-hour edge offline capture with immutable, network-synced timestamps.

Security:
AES-256 at rest, TLS 1.3 in transit, field-level RBAC, and Okta/Azure AD SSO.

Authenticity:
Tamper-evident electronic signatures (21 CFR Part 11 & DPDP Act 2023 aligned).

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Visit www.genbioca.com Mail us at gbc@genbioca.com

Our Offices



18-Month Implementation Roadmap for You!

Phase 1: Core MVP (Mo. 0–6) | Single-Plant Pilot

Scope: Full 100+ digital forms deployment, role-tailored dashboards, baseline ERP reads, and live CCP alerts.

Exit: Zero paper logs; verified FSSAI Schedule-4 audit pack compiled in <5 minutes.

Phase 2: Scale & Connect (Mo. 6–12) | Multi-Plant Rollout

Scope: Continuous cold-chain IoT gateways, bi-directional ERP sync, group views, vendor QA, and audit modules.

Exit: External regulatory/retailer audit managed entirely through electronic platform logs.

Phase 3: Advanced Autopilot (Mo. 12–18) | Unified Enterprise Platform

Scope: FoSCoS/CPCB portal auto-filing pipelines, consumer QR traceability, and predictive yield models.

Exit: Standardized compliance protocols scaled uniformly across 10+ operational facilities.