

KNF BAS

Biometric Authentication System

KNF ENTERPRISES

BIOMETRIC AUTHENTICATION SYSTEM FOR CONSTRUCTION SITES

Smart Attendance. Seamless Compliance.

KNF BAS is a cloud-based Biometric Authentication System that records every worker's site entry and exit through face, fingerprint or card verification — and converts attendance into Construction Productivity Data (CPD) for BCA reporting, without manual Excel work.

Face	Fingerprint	Card
Recognition	Verification	Access

BAS DELIVERS

01 Face, Fingerprint & Card Verification

02 Real-Time Site Attendance

03 Main Contractor & Sub-Con Management

04 Multi-Project, Multi-Gate & Multi-Device Management

05 Mobile App with Geofencing-Based Attendance

06 EPSS & HDB Reports

07 SGBuildex-Ready CPD Submission

08 Database Structure Based on BCA-Recommended Schematics

Key Highlights

- Eliminates Buddy-Punching
- Live Manpower Dashboard
- Automated BCA Reporting
- Cloud-Based Admin Portal
- Mobile-Based Location Verification

VERIFY • RECORD • REPORT • SUBMIT

Smart Attendance. Seamless Compliance.

02 — ONE PORTAL FOR EVERY GATE, WORKER & PROJECT

More Than Attendance. Complete Workforce Control.

KNF BAS connects your site gates, biometric devices, workforce and sub-contractors through one centralized admin portal.

Built around BCA-recommended data schematics, the platform maintains structured workforce, company, trade and project information to support accurate Construction Productivity Data (CPD) reporting and submission.



TWO POWERFUL PANELS

Super Admin Panel

Onboard and approve companies, register and assign multiple biometric devices, manage administrator roles and monitor activities across all sites.

Company Panel

Main contractors manage their own projects, sub-contractors, workers, gates, multiple attendance devices and reports through secure, role-based access.

Company Admin & Project Admin — configurable permissions for each module: view, add, edit and status control.

CORE MODULES

- Dashboard & Live Attendance
- Workforce (User) Management
- Sub-Con Management with UEN & CPD Trade
- Project Management (Onsite Builder / Offsite Fabricator)
- Multi-Device & Gate Management
- Events Management
- Reports Management
- Mobile App & Geofencing Attendance

Multi-Device Management

Manage multiple biometric attendance devices across different projects, locations and entry points from one centralized platform.

- Register and assign multiple devices
- Configure IN / OUT device settings
- Monitor individual device connectivity
- Manage device access levels and time zones
- View attendance across connected devices

Benefits

- Accurate Man-Day Records
- Reduced Admin Workload
- Real-Time Manpower Visibility
- Audit-Ready Attendance Logs
- Centralized Multi-Device Monitoring

03 — HOW IT WORKS

From Gate Check-In to BCA Submission

From company onboarding to monthly BCA submission, KNF BAS delivers one connected workflow — accurate attendance data flows from your site gates and mobile application into structured compliance reports.

SIMPLE. SECURE. COMPLIANT.

STEP 1
Company Onboarding
Companies are added, reviewed and approved by the Super Admin.

STEP 2
Project & Sub-Con Setup
Create projects and add sub-contractors with UEN and CPD trade information.

STEP 3
Worker Enrolment
Add or Excel-import workers with face, fingerprint, card and work permit details.

STEP 4
Multi-Device & Gate Setup
Register and assign multiple biometric devices across different gates and projects. Configure IN / OUT settings, access levels and time zones.

STEP 5
Biometric & Mobile Check-In / Check-Out
Workers verify their attendance through face, fingerprint or card authentication at designated gates. Alternatively, the mobile application supports geofencing-based attendance, allowing location-based attendance verification.

STEP 6
Reports & Submission
Generate EPSS, HDB and attendance reports, and synchronize CPD information with SGBuildex.

Workforce Management
Register and manage every worker in one place.

- Bulk worker import & export via Excel.
- Face registration & fingerprint template tracking.
- Work permit, nationality & trade details.
- Project & company assignment.

Multi-Device & Gate Control
Control every entry point across all your sites.

- Multiple biometric devices across projects and locations.
- Master / Slave IN & OUT devices per gate.
- Access levels with time zones.
- Live device status (Online / Offline).
- Face, fingerprint & card verification modes.

Mobile App with Geofencing
Enable location-based attendance through the KNF BAS mobile application.

- Mobile-based attendance recording.
- Geofencing-based location verification.
- Location-based attendance validation.

Every worker verified. Every entry recorded. Every hour accounted for.



04 — REPORTS & WHY KNF BAS

Accurate Data.
Effortless Compliance.

KNF BAS turns daily gate and mobile attendance activities into the reports your project team and BCA need — ready to export, review and submit.

REPORTS AT YOUR FINGERTIPS

- EPSS Report for BCA (trade-wise workers & man-days)
- HDB Reports
- Daily Entry / Exit Report
- Person Attendance (in time, out time, total hours)
- Date-Wise Attendance Report
- Master List & Detailed Access Reports

Why Choose KNF BAS?

- Face, Fingerprint & Card Verification
- Mobile App with Geofencing-Based Attendance
- BCA-Recommended Database Schematics
- Bulk Worker Import via Excel
- SGBuildex-Ready CPD Submission
- Role-Based Access Control
- Main Contractor & Sub-Con Management
- Live Device Status Monitoring
- Multi-Project, Multi-Gate & Multi-Device Mgmt
- Cloud-Based, Access Anywhere

IDEAL FOR

- Main Contractors
- Sub-Contractors
- BCA / BTO Projects
- Offsite Fabricators

Verified Workers. Accurate Man-Days. Confident Submissions.

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