

**A leading company  
into Safety, Security & Automation Solutions.**

**BHARATIYA GLOBAL INFOMEDIA LTD**  
( AN ISO 9001:2008 COMPANY )

## Background/ Company Overview

Established in early 1995 primarily providing computer consultancy, software services and high end digital security solutions; having a PAN India presence;

'BGIL' is a top ranking company in India in its range of products, a complete solution provider into Applications related to Security Automation, Surveillance & Safety; a pioneer company in India with a list of 34 products range in and around 'RFID' & 'Smart Card' based technologies; BGIL is a true Product based company having 18 IPRs (probably only company in India)

BGIL also has a complete Digital Post Production Studio in Mumbai catering to Film & Animation Industry; (for further info please visit [www.bgilstudio.in](http://www.bgilstudio.in))

Promoters of the company have a successful track record of carrying out software development, consultancy and other computer related services to many companies in the private and public sectors in India for more than 23 years;

BGIL is an ISO 9001:2008 company; BGIL has won following awards:

DELOITTE Technology Fast 50 India 2011 (Ranked 29th)

DELOITTE Fast 500 Asia Pacific Award 2011.

Finalist in ET NOW- India MART Leaders of Tomorrow Award 2011.

325th Rank in International Business Times (IBT) Global Award 2011.

Highly qualified and experienced team of professionals duly guided by panel of advisors and consultants. Has a separate variable workforce for project implementation purposes;

'BGIL' has a world class satisfied clientele having successfully delivered more than 250 projects till date including few 'first one of its kind' projects in India.

For further details please refer our Company's website namely [www.bgil.in](http://www.bgil.in)

### TRAFFIC ENGINEERING SOLUTIONS

- ✍ Parking Management System©
- ✍ Parking Guidance System
- ✍ Toll Management System©
- ✍ Gate Security System (GSC)
- ✍ Automatic Vehicle Counter Cum Classifier System
- ✍ Automatic Number Plate Recognition System©
- ✍ Under Vehicle Surveillance System
- ✍ Ticket Dispensing System©
- ✍ Passenger Information Display System(PIDS)
- ✍ E-Challan Solution

### FACILITY MANAGEMENT SOLUTIONS

- ✍ Visitor Management System
- ✍ Canteen Management System©
- ✍ Asset Tracking System©
- ✍ Laptop Tracking System
- ✍ File Tracking System
- ✍ Lighting Management System
- ✍ CCTV, Access Control, Perimeter Fencing etc.
- ✍ Smart Campus
- ✍ Rfid Based Grain Logistics Solution
- ✍ Rfid Based Container Tracking Solution

### PERSONNEL MANAGEMENT SOLUTIONS

- ✍ Employee Tracking System©
- ✍ Time-Attendance System
- ✍ Library Automation & Management System
- ✍ Student Tracking/Information System
- ✍ Smart School Management System
- ✍ Fleet Management System
- ✍ Pedestrian Access Control System

## BGIL's Intelli-Park

BGIL is one of the pioneers in the 'Parking and Vehicle Automation' in India having successfully Implemented/ Installed Parking Management & Guidance System at more than 20,000 slots of vehicle multi-level parking with proven methodologies in various malls/Hospitals/ISBTs/ Residential Societies across India by using its fully Indigenously in-house developed IPRed software's.

BGIL's product range are world-class vertically integrable, customizable & scalable System; which includes a trusted range of following solution(s) with a satisfied Customer base with sales & after-sale support from Mumbai, Pune, Indore, Chandigarh, Hyderabad Offices:

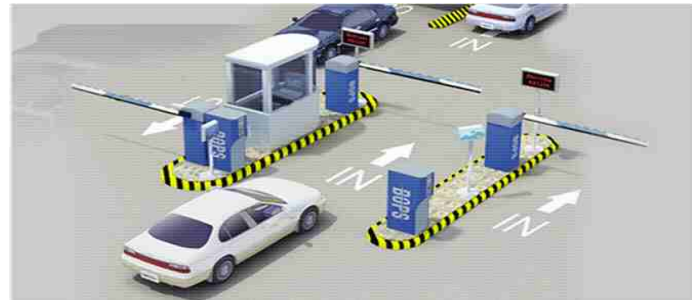
- Parking Management System (PMS) : Covering all Variants viz: Public or Private.
- Parking Guidance System (PGS) : Parking Slot level or Parking Floor level
- Passenger Information Display System ( PIDS)  
Railway specific Locomotive Identification; Train Information System & Coach Guidance System
- Toll Management System (TMS) © & RFID Weigh-bridge Integrated System

BGIL Parking Management System is an effective, intelligent, accurate, scientific parking management system which is keeping on optimization and integrated with domestic and oversea requirement.

The versatility and capability acquired by BGIL Team of highly qualified & experienced professionals to visualize, design, engineer, develop, deliver & commission the most complex performance enhancing, efficiency increasing & resolving challenges has awarded long lasting business relationship with Global Leading System Integrators such as *Honeywell, Raheja Developer, Airtel, JCI, WIPRO, Siemens, Schneider, Tyco, HCL, Somfy, UTC etc in executing most demanding projects at ICICI Bank, Hyderabad; ISBT, Kashmere Gate, New Delhi; AIIMS, New Delhi; ONGC, New Delhi; GAIL, Auriyya, Sesa Goa, Goa*

## Feature :

- Real-time Monitoring:
- Image Comparison using IP based Lane Camera:
- Identification Mode using RFID Readers:
- Emergency Management of Parking Lot:
- Parking Guidance using Ultrasonic Detectors:
- Area Setting and Management:
- Flexible Charging Management:
- Integration of Parking Lot and Video Monitoring:
- Different-type of Vehicle Management:
- Traffic Management:
- Business Operation Management:
- Rich Interface For Integration
- Non-stop Charge With RFID



## Application areas:

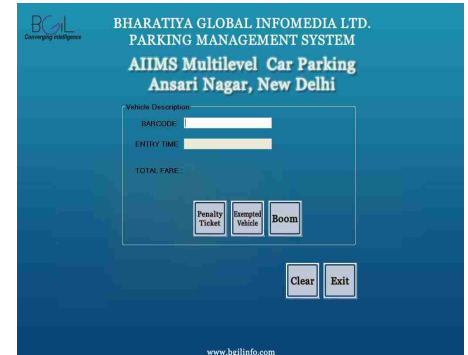
- Shopping Malls
- Multi-level Car Parking
- Municipal Corporations
- Hospitals
- Hotels
- Municipal Surface City Parking
- Corporate/ PSU/ State/ Central Govt Buildings
- Mining
- Residential Societies/ Apartments
- IT/ SEZ Parks
- Educations Institutions/ Universities
- Airports/ Railway Stations/ Bus Stands
- Fairs/ Exhibitions



## PUBLIC PARKING MANAGEMENT SYSTEM

### FUNCTIONS AND FEATURES

- Option of Manned Ticketing Booth OR BGIL's Automatic Ticket Dispenser
- Auto Boom Barrier Interface & Control
- Supports IP Based Camera for Image Capturing; helping reduce abuse & theft
- Bar Code/ Smart Card Options available
- Option of handheld ticketing terminals
- Comprehensive MIS Reports; Mobile handset/ email reporting options available
- Calculates fees based on flexible rate structures
- Fully Scalable Software
- Third Party Interface Options available
- Multiple Payment Options at Exit: Pay-on Foot; Exit Ticket Verifier



Ticket Dispenser	Hand Held Terminal	Loop Detector	Exit Ticket Verifier	Vacancy Display
				

## PRIVATE PARKING MANAGEMENT SYSTEM

### FUNCTIONS AND FEATURES

- Option of Long Range RFID Reader ( > 8-9 Meters) OR
- HF Mid-Range Reader ( ~ 1 Meters)
- Option of Computer Based Network Solution (IP- interface Readers) OR
- Controller Based Vehicle Access (Wiegand- interface Readers) ( No Computer Required)
- Auto Boom Barrier Interface & Control
- Supports IP Based Camera for Image Capturing
- Parking Vacancy/Occupancy Display on LED Panels
- Configurable for Multi-tenants allocation of parking slots
- Comprehensive MIS Reports
- Fully Scalable Software
- Third Party Interface Options available

Long Range RFID Reader	Mid Range HF Reader	Access Controller
		


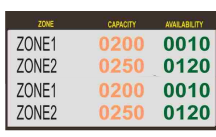
## E-CHALLAN SOLUTION

E-Challan System is another e-governance solution from BGIL. This city-wide network of hand held GPRS connected , micro-processor based, devices not only communicates online with central server but also communicates the violation history and vehicle history on real time basis to provide all necessary support to traffic police to conduct challenging for any kind of traffic violation.

### Benefits of e-Challan System

- ✍ Fully automated real-time application.
- ✍ On-the-spot challan issued to the violators.
- ✍ On-line fast communication with Central Server
- ✍ Uses state-of-art GPRS technology for data transfer.
- ✍ Easy to handle and user-friendly system



Windshield Tag/Card	Vacancy Display
	



## Parking Guidance System (PGS)

The advent of multi-level car parks has made the management, revenue and security of car parks the topmost priority. .

BGIL Parking Guidance System is the next generation state of art product introduced and developed by the highly qualified engineers at its Noida Lab Centre. The development of the product has been done taken into consideration the overall market analysis into traffic and vehicle management. BGIL PGS ensure the parking of the vehicle in the premises in a most convenient and automatic manner. It utilizes highly sensitive sensors to sense the availability of a vehicle on particular parking bay. If the vehicle is parked on the bay the LED light on the ceiling turns red otherwise remains in a green status. In turn the BGIL PGS application takes the record of all the available slots in the parking area and guides the car driver to right slot available through ultra bright LED Visual Message Sign boards.

The parking guidance system enable the car owner/ driver to a visual indication of available parking space once he/she enters the car park. Ultrasonic detector installed on each space monitors real-time parking status, and reports to host controller. Host controllers gather information from all ultrasonic detector timely and submit to PC-based control system via data converter. PC will process all the data acquired from controllers and convey request to associated guidance display updating number of available space.



### System Advantages:

- Increase parking efficiency
- Increase client loyalty and car park rotation
- Identification Mode using RFID Readers:
- Reduce fuel consumption and combustion emission
- Optimize human resource
- Realize user-controlled override or space reservation
- Report available to assist car park management
- Ready data availability for checking over stayed vehicles to take care of left-out vehicles
- Data integration for Passenger Information Display
- Systems

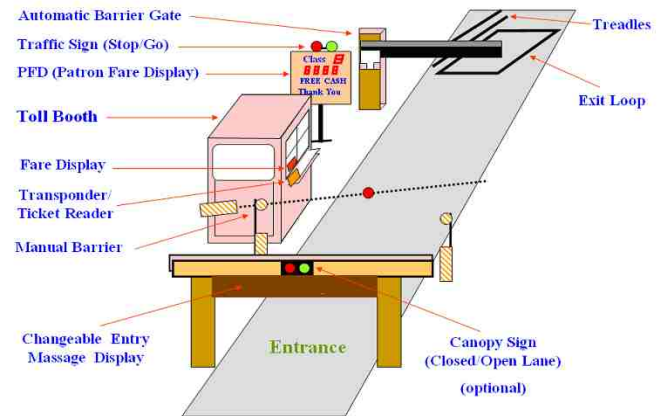
Ultrasonic Detector	LED Bay Indicator	Zone Controller	LED Direction Display	PGS Software GUI
				

## Toll Management System

At BGIL, we understand the issues involved in management of toll system and have, therefore, developed advanced software solution for facilitating management. Our end-to-end solution, supported by our proven methodology, provide you with innovative technologies for optimizing the operations.

### Benefits:

- Computerized Cash Collection functionality with automatic boom operation.
- Pre-paid smart RF Cards for toll payment or monthly and other periodic process.
- Bar-coded ticketing functionality for daily pass or return journey.
- Point-of-sale for smart RF cards.
- Automatic vehicle Classification for audit.
- Images capture of vehicle edit from lane for audit.
- Cash up management.
- Vehicle Images review with discrepancy management.
- MIS reports.
- Graphical user interface.
- Up gradable to ETC ( Electronic Toll Collection ) .



## Electronic (RFID) Toll Collection

- Tested & Demonstrated RFID base.
- Automatic Toll Collection System
- RFID Passive Technology Approved by NHAI for National Rollout.
- Every Toll Plaza to have atleast TWO ETC lanes.
- More than 20000 km of National Highway & State Highway to be automated for Toll Collection.
- Company Tie-up with SIRIT , CSL for RFID equipments & with TCS for Centralized Clearing House.



Manual Toll System	Semi Automatic Toll	ETC-RFID-Based	Typical Layout



## Integrated Border Check Post System ( State-Level)

- All states to automated and implement Integrated Border Check Post for Chungi Collection
- Huge Opportunity as RFID, Weigh-in-motion, Boom Barrier, ANPR etc to be installed at multiple lanes at each Border check post of a State.
- Out of all Indian States, only two states namely MP & Andhra has finalized the tender.
- BGIL already partnered with IL & FS, C & C etc for Automation work at these opportunities.
- Successful project execution at ISBT, Kashmere Gate, New Delhi.
- Project at Mohali Junction ISBT, Chandigarh under execution.

## Target Segments

- Bus Parking Management System
- Bus Parking Guidance System
- Passenger Information Display System
- Passenger Guidance System
- Automatic Fare Collection System



## Weigh in Motion(WIM):

Weigh in motion (WIM) System consists of lane wise WIM stations located in each side of the toll plaza. Each weighing platform, with its own steel frame, is mounted inside a concrete pit of dimensions. The low speed WIM (LSWIM) software, executing on the LSWIM controller, collects the weigh information (number of sides, weigh code and the gross weigh) from each WIM station and stores it in the local database. Further, it has a Graphic User Interface ( GUI ) that display the individual code weigh and gross weigh of each vehicle as soon as it passes over the WIN platform.

## Inter-state Bus Terminus & BRTS

BGIL has been a pioneer compnay in upgrading the ISBTs by giving complete solution of modernisation viz. Automatic Gate/Access control system, Bus Parking & Guidance System, Passenger Information Display Panels, Automation of public utilities including fare collection and overall complete secutrity & Surveillance throgh intelligent CCTV network and controll etc.



## Weighbridge Integrated System (RFID Based)

Weigh bridges continue to play an increasingly vital role in the process and related industries, acting as critical control points for vehicles arriving and leaving sites. Vehicle Identification and Data Collection from Weighbridge using Radio Frequency Identification is a secure and convenient solution for vehicle Management at industries, providing Authentication and accurate weight data for Incoming and outgoing vehicles. The requirements and ever Increasing demands of the Mining industry is its core Competence towards safety and Productivity. BGIL's solution is well Tailored to meet these core Standards of the power, steel and mining industry.



### Benefits:

- May be used for unmanned/operatorless weighment
- May be used on containers/baskets to identify supplies.
- Same vehicle cannot be weighed twice.
- Eliminates manual data entry-slow and prone to errors.
- RFID system that can be made almost 100% tamper proof.
- Secure, reliable, Reduced labor costs, and Streamline operations.

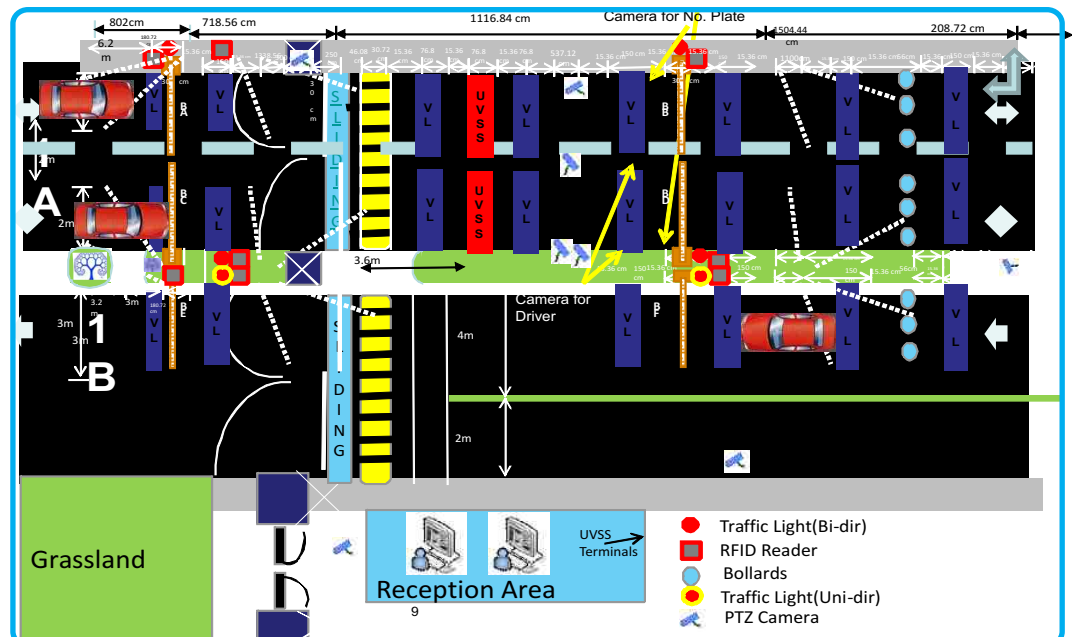
### Target Segments

- Successful Project Completion at Sesa Goa for Bridge Automation & Weighbridge Integration on RFID.
- Business Association with Sterlite Industries ( a Vedenata Group Co.) for penetration in Mining Segment.



## Gate Security System (GSC)

Our cost effective and reliable security gates, barriers, turnstiles, pedestrian gates equipments perfectly suit commercial, public or private premises; our comprehensive selection of security gates, gate automation equipment, security barriers are ideal solution for your needs.

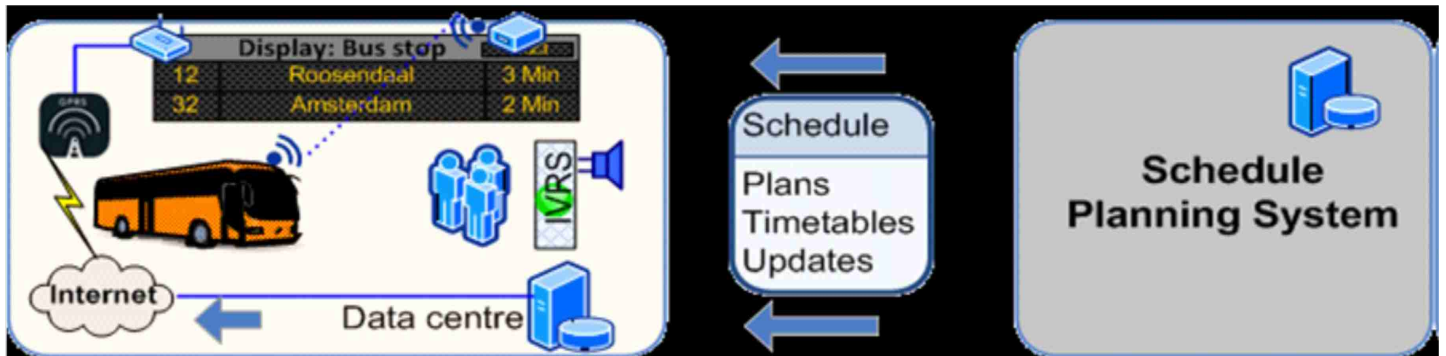




## Passenger Information Display System (PIDS)

In today's hectic environment, instant access to information is vital.

BGIL's Passenger Information Display System (PIDS) are used in many different environments including railways, airports, bus stations and highways, as well as in car parks, sports arenas, cinemas and financial institutions. Public transport organizations have ascertained that availability of reliable real-time and forecasted schedule information contributes to a better traveler experience subsequently improving utilization. PIDS provides seamless interfaces to the back office systems of the transport organizations. A secure web-based back office system provides remote maintenance & management facilities.



### Value Additions for Passengers:

- The service operated by the next vehicle to arrive,
- Service number, destination, and via-destination.
- Departure/Arrival time
- Deviation from the scheduled timetable
- Minutes till departure
- General advice on any current travel disruptions

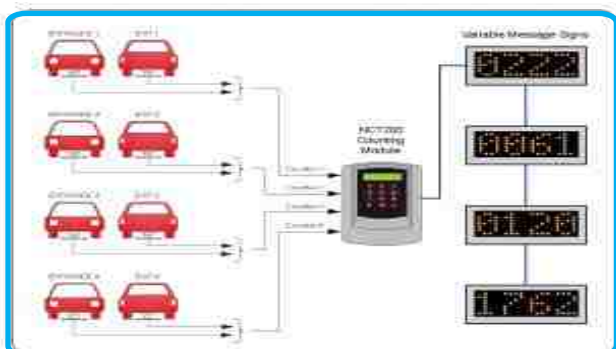


## Car Counting System

BGIL's flexible counting products can satisfy a wide range of vehicle counting needs, from monitoring space availability in small car parks to the integrated management of large multi-storey car parks with software controlled sign age, status monitoring and data logging. The modular products can be combined as necessary to match both the customers' requirements and their budgets.

### System Benefits:

- Optimized use of car park capacity maximizes revenue potential
- Reduced queuing improves the customer experience and lowers the effect on the environment
- Data analysis allows better control of resources therefore reducing running costs



## Locomotive Identification System (LICS)

Indian Railways at present does not use any automated system for real-time online monitoring/ Tracking of bogies and Locomotives.

The BGIL RFID technology provides exact location and status of any individual objectives mentioned above, and predicts their dynamic changes from the system, particularly the change of rail-wagon throughput at the marshalling sites, interface between local railways, confine interface. This enables timely, accurate and integral information and decision assistance for the management of train transportation and the customer.



**Locomotive Identification  
&  
Communication System**



- **Traffic and Passenger Information:** The system provides accurate and reliable information about the location of the train so as to display the information at Information Display.
- **Operation and Maintenance:** Precise information about the configuration of wagons within a train can be provided automatically by the system.
- **Location of the Train:** The System with the help of the reader determines the location of the train by reading the tag identity as the train passes over the tag at speed. This location data is transferred to the onboard system and can be used to update passenger information automatically.

Fixed RFID Reader	RFID Hand Held Reader	RFID Tag	Wireless Communication	Software GUI

## Coach Guidance System

BGIL's Coach Guidance Display System is the application for the ease of the general public.

This system gathers the information of trains, arriving or departing from the railway station and displays it onto the coach guidance display boards installed on the railway platforms. The user selects the information regarding the coaches of the train and provides to the software into the relevant coaches with the platform no. of the train and transmits the information. The information will now be displayed onto the coach guidance displays installed on the platform. As the train stops on the platform, the coach indicator boards will display the relevant coaches for the ease of the passengers. The passengers can see the coach no on the coach display board.

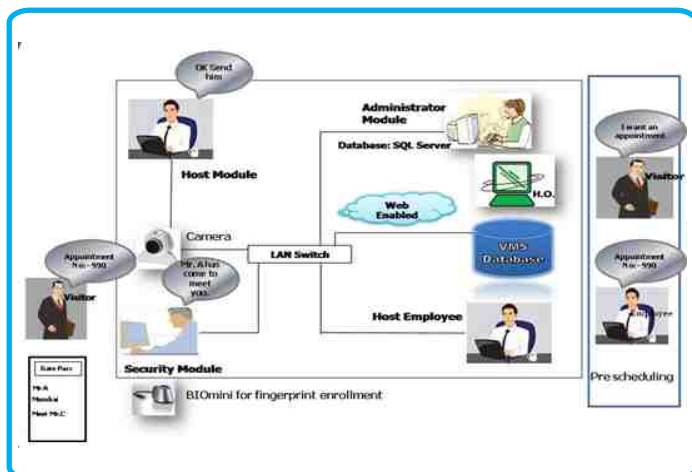


## Facility Management Solutions (CCTV based)

- Visitor Management System (VMS) ©
- Canteen Management System (CMS) ©
- Asset Tracking System (ATS) ©
- Laptop Tracking System (LTS)
- File Tracking System (FTS)
- Lighting Management System (LMS)
- CCTV, Access Control, Perimeter Fencing etc.
- Smart Campus

### Visitor Management System

Visitor Management Systems (VMS) is designed to promote the security of a community. This system may be used for gated communities and communities who place restrictions on visitors, vehicles, or parking. BGIL's VMS streamlines the flow of authorized visitors while keeping unauthorized intruders from gaining entry to a facility.

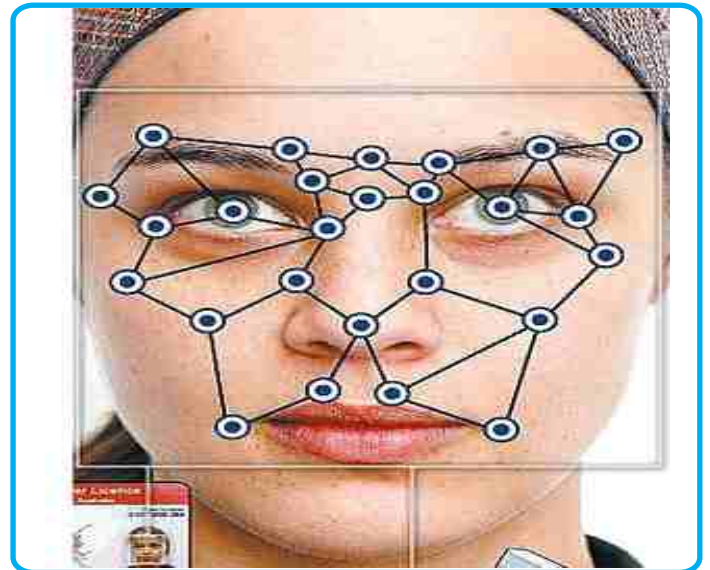


### Benefits Of Visitors Management System:-

- Visitor Record with Photo Identity.
- Monitoring Movement of Visitors in the Organization.
- Access Control for Visitors in the Organization.
- A Security Alert is sent to the Security Officer if the visitor is hanging around after his meeting.

### Features Of Visitors Management System:-

- A Camera takes the photo of the visitor at the entrance (Photographic records of Visitors).
- The reception or security personnel enters the details of the visitor or Pre-scheduled appointment is displayed.
- Information / message is sent via intranet and / or SMS to the officers / employee's PC and / or cell phone, by sending visitor details & photo, and wait for his approval.
- The software prints the Pass / I Card for visitor.



### Canteen Management System

The objective of the system is to automate all the activities of the Canteen right from purchases to delivery of food/beverage items. The system should maintain a detailed account of all

provisions bought and food served at the canteen. In addition to this, it should also maintain the daily expenses incurred by the staff. The system should provide an interface to payroll for deductions. Several inquiry facilities should also be provided to view the expenses incurred/ planned menus/cash payment etc.





## Advantages of Using RFID Smart Card in Canteen Management System©:

Single Card Multi-Location e.g. Vending Machines located in different places within the organization.  
Secure and Integrated payment through Smart Card for all the (food/beverage) items in the canteen.  
Speedy transaction.  
Exact Records of transactions can be monitored and calculated.  
Item Tracking of critical value.  
Creating Smart Shelf for ensuring quality of bakery and other fast perishable eatables.  
Eliminate the process of coupons.  
Reduce the number of small cash transactions.  
Monitors different types of food products and their consumption.  
Helps prevent wastage and unnecessary expenditure at the Canteen.







## Features of BGIL's Canteen Management System©:-

- Smart card based Canteen management system© facilitates multi-site operations
- Recharge of Smart Card can be done by employees with the help of BGIL software interface
- Comprehensive coverage of security aspects like operator login information access rights
- Integration with existing and future application like access control, parking management etc.
- Capable to generate meal coupons from dispensing machine through touch screen system
- Capability of converting the units into rupees or vice versa
- Impose restrictions on recharging Smart Card as per company's policy
- Information for multiple locations can be communicated through Middleware and saved in the central server.
- Information can be retrieved from any location through central server.
- Employees would be able to use same Smart Card independent of location
- Helps prevent wastage and unnecessary expenditure at the Canteen

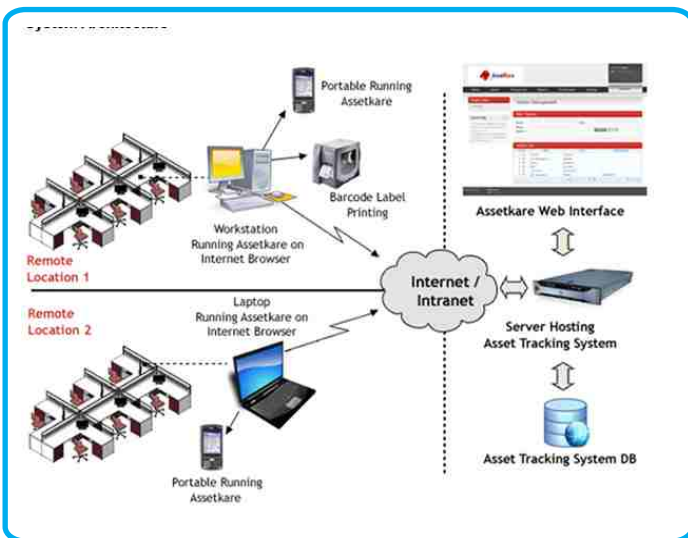
## Asset Tracking System (ATS) ©

"The monitoring of assets of an organization to avoid a loss of profits due to, misuse of information, theft of both hardware and software, break downs."The process of auditing physical asset records and maintaining records in an enterprise can be daunting, especially when the number of supporting detail records is in the thousands or tens of thousands, which is not an unusual situation.The monitoring of assets that are part of Unified Infrastructure Management System like Computers, Laptops, Fax Machines, Phones, Software etc.

Thermal Printer	Touch Screen Kiosk	Smart Cards	Smart Card Readers
			

## RFID and Mobile based Asset Management System

- Real-Time Asset Discovery and Notification.
- Eliminate manual configuration identification.
- Tracks historical changes, generates alerts.
- Maintain and manage a complete, accurate audit trail for every software/hardware asset in the enterprise.
- Elimination of loss of information.
- Elimination of theft.
- Combination of RFID and Mobile Device can bring new level of accuracy and efficiency in terms of tracking and keeping maintenance record of Assets and Materials for the Organization.



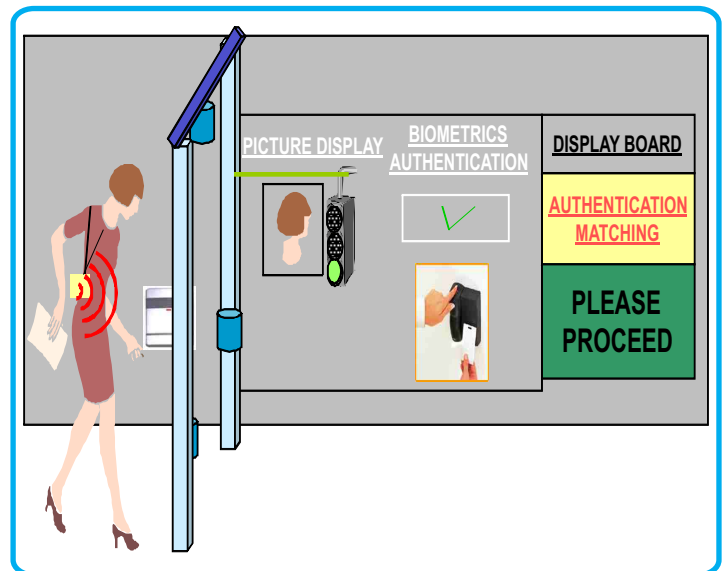
## Requirement of Asset Maintenance, Auditing & Breakdown Management:

- Security of Data stored in Various Machines within the organization.
- Physical Security of Assets like Laptop, Printers, Phone Instruments, Fax Machines etc.
- The ability to define rights/permissions and process rules about assets like laptops to enable their use

RFID Reader	Gate Pedestal Antennas
RFID UHF Tags	Handheld Reader

## Laptop Tracking System (LTS)

Laptops are an important tool and a common fixture in virtually every company these days. As a result laptops end up with all kinds of business critical and even confidential information. Laptops offer employees instant access to product information and plans, customer lists and sales contracts - essentially all the tools required to run a business. Companies are increasingly concerned about the security of employee laptops given the sensitive nature of information contained on many of them. This reality combined with the fact that laptops are moved around more frequently today due to the nature of current business that requires more employee travel, make laptops a critical asset that need to be tracked.



## Benefits of Laptop Tracking:-

- Real-Time Traceability of Laptops.
- Improved security of Laptops.
- Protection of Intellectual Property.
- Ability of employees and auditors to quickly locate specific laptops saving time and effort.
- Real-Time Laptop Discovery and Notification.
- Eliminate manual configuration identification.
- Tracks historical changes and generates alerts.
- Maintain and manage a complete, accurate audit trail for every Laptop in the enterprise.
- Elimination of theft.

## Features Of Laptop Tracking System:-

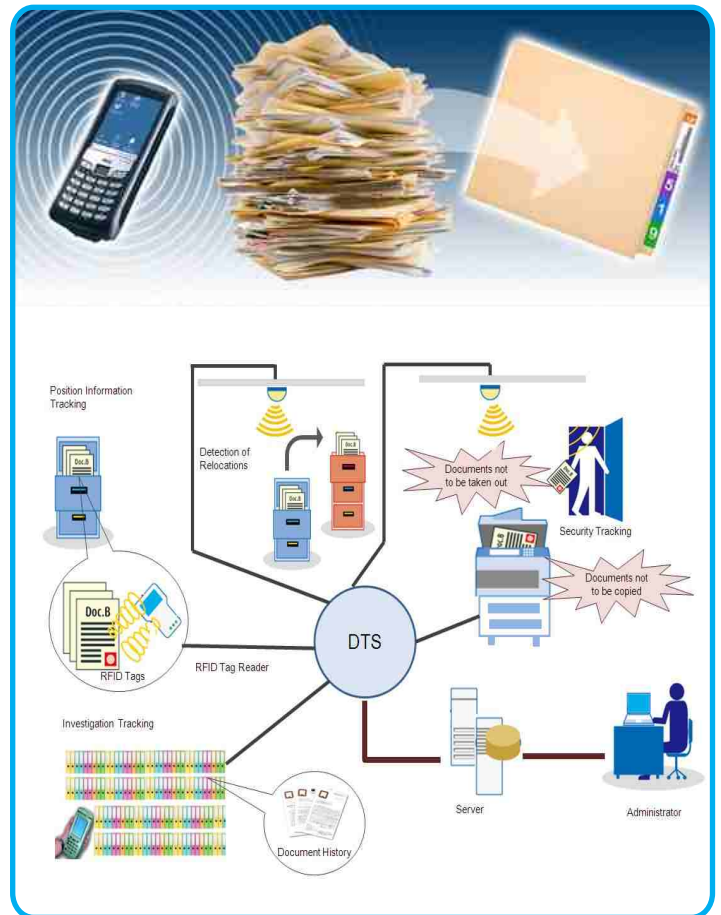
- Application-based solution for tracking RFID-tagged assets including laptops.
- RFID Vendor Neutral - Not dependent on any specific RFID tag or reader vendor.
- Easy to configure.
- Generates real-time alerts on exceptions in business workflow.
- Delivers alerts through email and SMS.
- Supports integration with cameras, alarms and other sensors.
- Scalable, Web and Java-based enterprise-class architecture.

## File Tracking System (FTS)

RFID technology has led to a revolution in document tracking. It is especially useful in scenarios where the documents are of high value to the organization and the loss of which can impact profitability heavily. BGIL offers the latest RFID technology to track files/documents. Each resource is affixed with tags and its information is mapped to the tag id. Readers are the device that sense tags and they are stationed at strategic locations like entrance/exits; server rooms; labs etc and they are connected with the internal network. The readers interrogate the tags when they come in the vicinity and send the information to the central server where the information is converted into business logic. Using BGIL document management software, the information can be viewed from any where in the globe.

## The Basic Idea of RFID to Track

- Each document is tagged with an RFID tag in the form of an adhesive label.
- Staff may also be issued RFID cards as identification for checking of documents.
- Handheld readers may be moved over shelves, piling cabinets or piles of documents to take quick.
- Inventory or to locate any misplaced document.



## Benefits of File/Document Tracking Solution:-

- Effective Document Tracking Mechanism
- Improves Inventory Management
- Cost Reduction
- Frequent Stock Taking Possible
- Automated Tracking of Assets
- Track Mobile Assets
- Provides Security

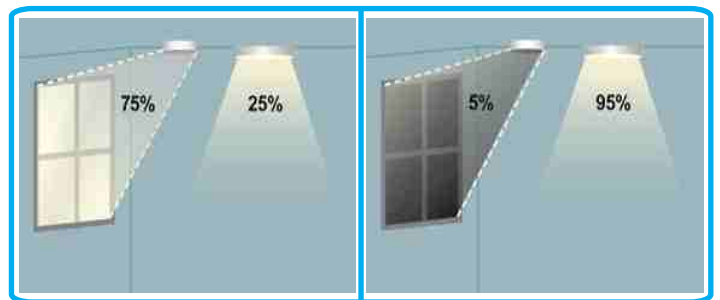
## RFID UHF Tags





## Lighting Management System (LMS)

- Our products are developed to meet the mandatory requirements of today's energy codes, while providing you with significant energy savings. To meet the energy challenges of today, BGIL has combined experience in the electrical industry with the latest available technologies to offer the most comprehensive offering of energy-saving lighting controls in the industry. From multi-technology occupancy sensors and breakthrough lighting relay panels to our Centura Fluorescent Dimming and Energy Management System and more...
- With the most comprehensive line of energy management products to help you save energy, meet code compliance, and even garner rebates, BGIL brings it all together to help you build a complete integrated energy management lighting control system. Only BGIL takes you from start to finish with service, support, and free design tools every step of the way. This means more options for delivering the ideal control solution for each application. Easy system design, easy product selection, easy installation, and the best customer experience - BGIL makes it easy to be green. Please decide whether you are looking for information on residential or commercial products



## BGIL Product Solutions:-

- Wall Switch and Ceiling Mount Occupancy Sensors
- EZ-MAX Relay for up to 4 lighting circuits
- Z-MAX Relay for 4 or more lighting circuits
- Dimensions™ D-3200 & D4200 Architectural Lighting Control Systems
- In buildings of less than 10,000 sq. ft., the maximum space to be managed by an individual lighting control can't exceed 2500 sq. ft. For buildings of more than 10,000 sq. ft., the maximum space managed an individual lighting control can't exceed 10,000 sq. ft.
- Override of automatic shutoff can't exceed 4 hours
- Occupancy sensors or manual switching/dimming controls are required for all rooms created with partitions
- Decora Timer Switches



Daylight Controls	Occupancy Sensors	Relay Controller Panels	Photo cells
<p>Lighting Fixture</p> <p>On board wireless receiver module</p> <p>LED Driver</p>			

CCTV Cameras

Our products are developed to meet the mandatory requirements of today's energy codes, while providing you with significant energy savings. To meet the energy challenges of today, BGIL has combined experience in the electrical industry with the latest available technologies to offer the most comprehensive offering of energy-saving lighting controls in the industry. From multi-technology occupancy sensors and breakthrough lighting relay panels to our Centra Fluorescent Dimming and Energy Management System and more...





CCTV Camera			
			

Access Control

The core of Proximity system is the Proximity Reader and Proximity Card. There are two types of readers in the market -One that has an inbuilt controller with capability to authorize access with or without being connected to a PC. The other kind requires a PC to be connected at all times. Depending upon the configuration of the premises, one or more readers may be used. If more than one reader is used then it is called a Networked system, which is usually connected to a PC. Some systems use 8 core or 16 core wires for connecting all the Readers while some systems use only 2 core wires, thereby reducing the cost of wiring and maintenance.



Turnstile	Biometric Access Control
	



## Pedestrian Access Control System

- Token Acceptor/ Collector.
- Bar Code, Smart Card/Token, Biometric Integration with
- Tripod/Flap barrier.
- People Counting

## Target Segments

- Stadiums
- Entertainment/ Theme Parks (All major cities)
- Event Organizers
- Corporate Visitor Control



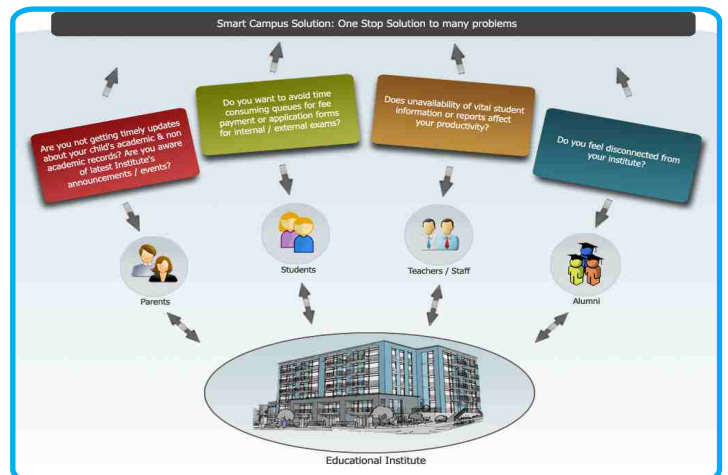
## Smart Campus

Single Card Solution for multiple facilities in a campus:

- Parking Facilities
- Time-Attendance
- Access Control
- Coffee Vending Machine
- Canteen Management
- Library Management
- Gym Management

Centralized Payment System.

Comprehensive, integrated and Expendable Solution.

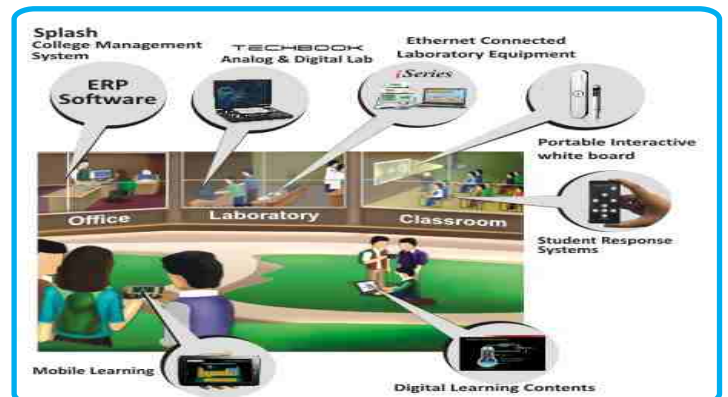


## Smart School System

Smart School Systems, offers a range of practical time saving solutions to schools or in any region of Indian States. School Accounting will simplify your week to week bookkeeping tasks, provide up to the minute reporting on each activity relating to Fee Management, Grants, if any, administrative details of student(s) and the overall financial status of your School's Accounts for monthly board/management meetings and end of year audits.

## Target Segments

- Schools/ Universities.
- Club/ Resorts.
- Office Campus.
- Courts/ Hospitals.





## RFID BASED GRAIN LOGISTICS SOLUTION

BGIL has developed a RFID based GRAIN STORAGE and LOGISTICS Solution which is ideally suited for all type of Grain storage and other Cold Storage requirements.

“Adani Grain Logistics, which operates several grain storage facilities in India, has Implemented an automated, RFID-based system for receiving, testing and tracking food grain harvested in the states of Haryana and Punjab. The system was tested in April 2007, and was deployed permanently three months later at two grain depots, located in the cities of Kaithal and Moga. Both depots are new, and are owned by FCI, which outsource their operation to Adani.”



BGIL system identifies the vehicle authentication, lane demarcation and loading/unloading of the grains/goods as per the RFID tag issued to the driver after entering the requisite details in the BGIL software.

## RFID BASED CONTAINER TRACKING

### Why the need for Container Management System?

- Consistently monitor container security and integrity.
- Speed shipments through the supply chain.
- Verify that a container was loaded at a secure loading point.
- Significantly reduce the likelihood a tamper event may happen during container transit.
- Gather enough data to conduct a 'virtual inspection' in advance of arrival.
- Guarantee that shipping containers meet governmental security regulations.
- Avoid extensive delays in the shipment and receipt.
- Underutilization of terminal capacity, due to lack of visibility of empty storage slots, leading to loss of revenue



### Benefits of Container Tracking with RFID

- Facilitate the flow of accurate and timely information across supply chain partners and Government agencies.
- Optimize container logistics processes.
- Improve supply chain efficiency and reduce costs.
- Achieve more efficient and individual container traceability.

## OTHER RFID BASED APPLICATIONS:

- Logistics & Supply Chain Mgt Sys
- Container Tracking System In The Depot
- Production Line Management
- Inventory Tracking System
- Grain Storage Management System
- Event Access Management Sys
- Public Distribution System Using Handheld Devices

## Wristband Solution (Pune, Mumbai)

Wristband Solution, is a complete and secure system in itself which maps the issued tag and the duration for which it has been issued. Tag status can be confirmed with the handheld device by sensing the tag from it, which takes real time data from server. When the tag expires the handheld device operator will instruct the tag holder to leave the allotted seat, if the person is still available on the seat after tag expiry.

## Price Water House Copers, Pan India

PWC, a smart card based multi location CATEEN MANAGEMENT SYSTEM has been implemented by BGIL which has centralized database server, handling approx 6000 employees database across India. System has several features such as cashless environment to employees, easy to handle, credential based operated, Triple layer security, smart card based availability of meals(subsidized and alacarte) for employees, self service kiosk and customized reporting.

## Nakhrali Dhani, Indore

Smart campus, a smart card based multi location automation system with centralized database server, handling 4000-5000 tourists per day. System has several features such as cashless environment to tourists, easy to handle, credential based operated, Triple layer security, smart card based access for tourists, self service kiosk, hotel management, advance booking etc.

## Adobe Parking(Noida)

Objectives of this Parking Management System© solution need to be defined in terms efficiency and accuracy with which the vehicle movement is facilitated and the required information is communicated to the Staff so as to benefit the Staff with ease of parking with exact parking status.

## AIIMS/ISBT(New Delhi, Mohali)

BGIL's Parking Guidance System is one of the most modern and profitable systems around the world. It is suitable for those public indoor parking lots in office building, shopping mall, railway station, airport and hotel, which helps to raise the utilization ratio of parking spaces, strengthen the management and reduce the management cost. Due to its modular structure, the system can be extended any time, but also subsequently installed or grown with the extension of the parking lot. It is a necessary system for hi-tech parking lots, which resolves actual parking difficulties for drivers and pretties up the picture of estates.

## PERSONNEL MANAGEMENT SOLUTIONS

Employee Tracking System (ETS).

Time-Attendance System.

Student Tracking/ Bus Attendance Monitoring System.

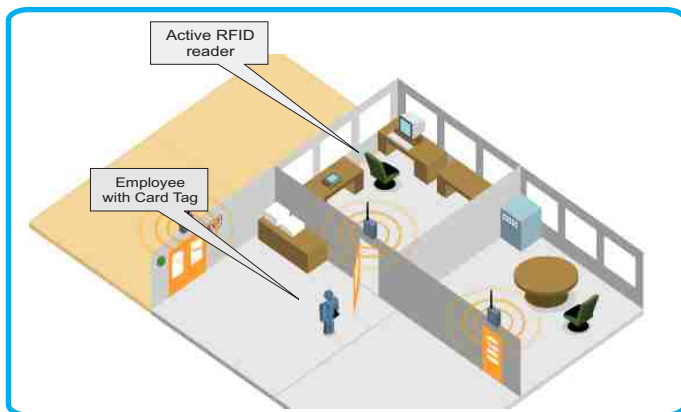
Library Automation & Management System.

Food Court Management System.

- Large Construction site
- Cruise Line
- Mining
- Transportation

### Employee Tracking System (ETS)

In today's world of service, safety and security, proper personnel monitoring is vital to ensuring a successful operation. Customer satisfaction is directly linked to a profitable business. Site safety and security is dependent on how well a company monitors its employees, 3rd parties and customers.



### BGIL's RFID Employee Tracking Management Solutions - Complete Solution to Tracking Your Employees

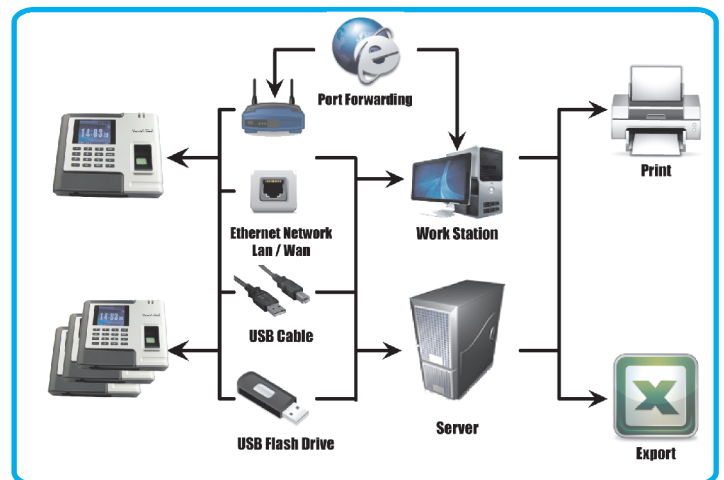
BGIL's RFID employee tracking solutions for personnel monitoring provide visibility to individuals entering and exiting restricted areas, their location within controlled zones, and their location history. The BGIL's RFID employee tracking management solution for personnel monitoring is a complete package for detecting and tracking employees, third parties, and customers. You can add security for people and assets easily, and set up security zones for automated tracking. The solution can also integrate with existing security systems to alert when unauthorized persons or assets enter the zone and can work with motion detection for full enforcement for persons without an ID. Thus provide **Safety, Security and Accountability**. Key Industries and Markets Requiring Personnel Tracking Management

### Time-Attendance System

Managing your workforce in an efficient, fast and smart way can significantly improve your business in terms of profit and productivity.

One way to ensure you're getting the most from your staff - and to discover better ways to manage your team's working hours - is to integrate an employee time and attendance system into your business.

As well as monitoring employees' working times our system collects attendance information such as absence trends and costs which you can analyse to find better ways to increase productivity - not to mention, reducing administration costs and time.



There are two technologies behind face recognition being used today- 2D & 3D technologies. 2D technology uses plane projection of actual faces & is affected by environment light, facial expression etc. 3D technology is more accurate but has the cons of being very expensive, complex algorithms, requiring more storage & slow recognition.



The technology used in F710 is called 'Dual Sensor' which combines the advantages of both 2D & 3D technologies. It uses two special cameras which are just like a person's eyes. The technology has fast recognition speed & high accuracy. Below given is the pictorial representation of 'Dual Sensor' technology.



## Student Tracking/ Bus Attendance Monitoring System.

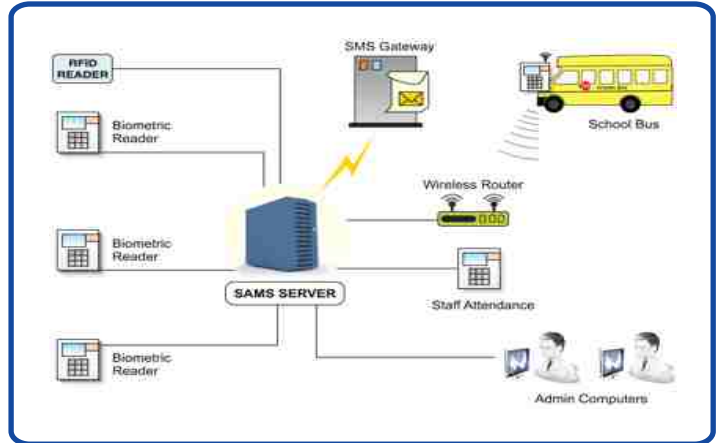
### Why its needed ?

In the current scenario every Play School looks for a complete solution which can cater their day to day needs to make a ease for the management and for the children as well.

- To reduce the human intervention is the time consuming process.
- To properly track children.
- SMS alert to parents.
- To build a sophisticated environment.



- ✍Transport Management
- ✍Student Bus Attendance with SMS to parents.
- ✍Student Tracking and Class Room Attendance



### Target Segments

- ✍All Schools

## Student Bus Attendance Monitoring System

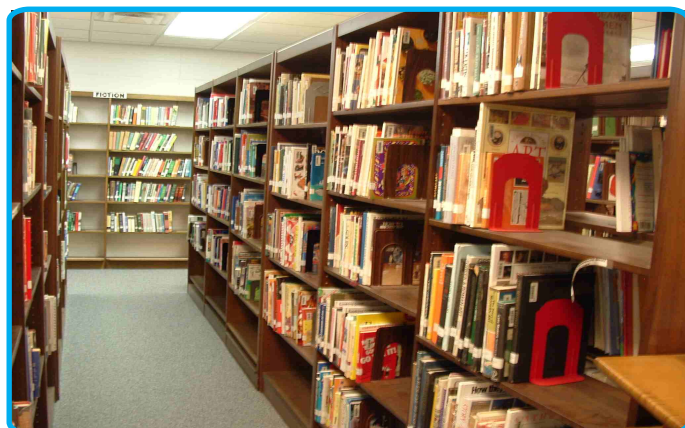
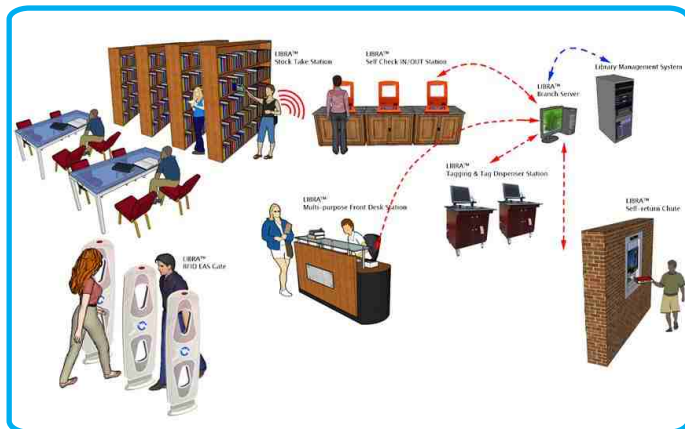
SAMS is built on cutting edge modern technology and designed to help schools and Parents/ Guardians to deal with problems of truancy/ absenteeism and SECURITY of their wards en-route to their Schools

- Smart Bus Attendance Devices
- Radio Frequency ID (RFID) Tags
- SAMS Server
- Bulk SMS facility
- Automatic Email Alerts
- To create an interactive and attractive campus.



## Library Management System

In today's world of service, safety and security, proper personnel monitoring is vital to ensuring a successful operation. Customer satisfaction is directly linked to a profitable business. Site safety and security is dependent on how well a company monitors its employees, 3rd parties and customers.



## Food Court Management System

The objective of the system is to automate all the activities of the canteen right from purchases to delivery of food/beverage items. The system should maintain a detailed account of all provisions bought and food served at the canteen. In addition to this, it should also maintain the daily expenses incurred by the staff. The system should provide an interface to payroll for deductions. Several inquiry facilities should also be provided to view the expenses incurred/ planned menus/cash payment etc.





## BGIL Systems Offerings

## ❖ Intelligent Building Management System

The field of Intelligent Buildings, Intelligent Homes, Building Management Systems (BMS) encompasses an enormous variety of technologies, across commercial, industrial, institutional and domestic buildings, including energy management systems and building controls. The function of Building Management Systems is central to 'Intelligent Buildings' concepts; its purpose is to control, monitor and optimise building services, eg., lighting; heating; security, CCTV and alarm systems; access control; audio-visual and entertainment systems; ventilation, filtration and climate control, etc.;



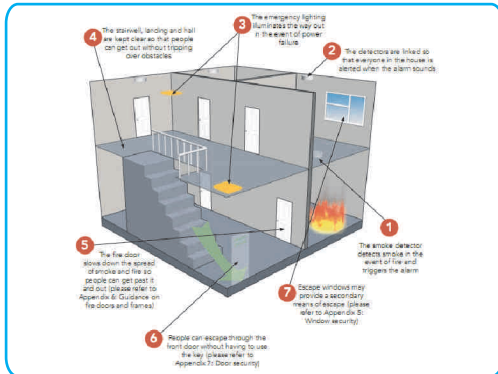
## ❖ Video Surveillance System

The reliability, integrity and dependability of our video systems ensure that you can meet all of your existing and future security challenges with complete confidence. Our solutions range from IP and analogue cameras and domes, and digital and network video recorders, through to intelligent video analytics and sophisticated video management systems. Our cameras provide exceptional image clarity and definition whilst our video systems allow easy migration from analogue to IP-based technology.



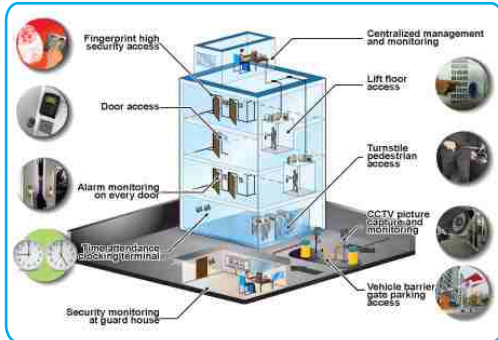
## Fire Alarm System

Fire alarm needed to be connected to the control room, but the existing pipes were physically too small to hold the necessary I/O wiring. Since a fiber optic Ethernet network was already in place, a network-based I/O solution was considered. However, it needed to satisfy the following requirements: I/O signal transmission over Ethernet from each building to the control room No extra controller needed Minimal additional training and wiring



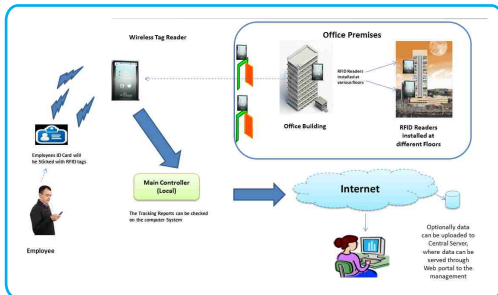
## Access Control System

Access Control refers to the practice of restricting entrance to a property, a building, or a room to authorized persons. Physical access control can be achieved by a human (a guard, bouncer, or receptionist), through mechanical means such as locks and keys, or through technological means such as access control systems like the mantrap.



RFID Based Solutions i.e(Car Parking, Canteen Management , Visitor Management etc.)

Radio Frequency Identification is a method for automated objects recognition: radio signals are used to read and write the data stored in RFID tags – microprocessor units with radio interface designed for reception, storage and transfer of identification data.





## Why I-BMS Needed

### Energy and building performance

- Energy savings and efficiency
- Improve building performance (better decisions)
- Reduce maintenance costs
- Increase the value of the building/rental revenues

### Security

- Higher level of security (physical and IT security converged)
- Efficient data sharing
- Remote access
- Improving storage
- Access cards a requirement
- Link data sharing between departments

## Key Findings

### Environmental (HVAC) Building Controls

- ✍ The market will compete in applying BAS to tackle climate change issues.
- ✍ Companies need to obtain and disseminate both controls and IT knowledge.

### Lighting Controls

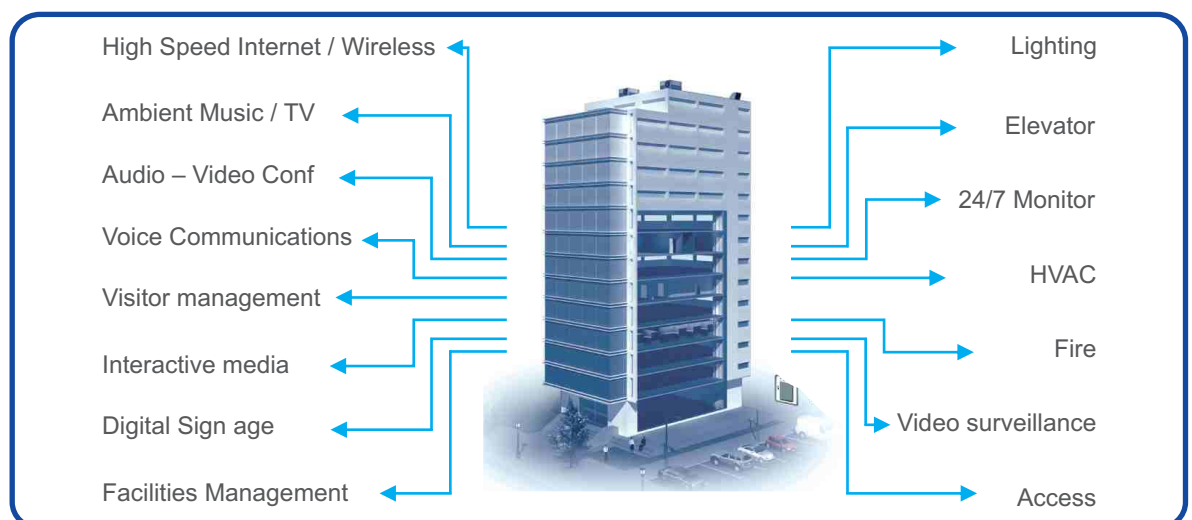
- ✍ Huge savings and market potential
- ✍ Consolidation to provide total lighting solutions and more integration
- ✍ LED lighting is a growing market but controls required for better efficiency

### Security Systems

- ✍ CCTV / Video surveillance setting the pace, followed by access control
- ✍ Strong movement towards IP systems and integration of security systems

### Fire Detection and Alarm

- ✍ Robust, growing market, driven (and constrained) by codes and regulations
- ✍ Demand for better evacuation solutions will drive integration of nascent mass notification / voice evacuation market.



## We know what you need & how to deliver

- ✧ Successful Implementation of more than 200 Complex Projects;
- ✧ Satisfied high esteemed '**Fortune-500**' Customer Base;
- ✧ Proven Implementation Methodology with up-to-date knowledge bank and skill;
- ✧ Highly qualified, experienced and Trained Staff on Service Offerings;
- ✧ BGIL has been awarded **DELOITTE Fast Tech 50 India & DELOITTE Fast Tech 500 Asia-Pacific**.
- ✧ BGIL has been finalist in **ET NOW Leaders of Tomorrow Award**.
- ✧ Successful Installation of RFID & Smart Card based 34 range of products;
- ✧ BGIL products are indigenously in-house developed software which are Fully integrable/ customizable/ scalable and all are IPRed;
- ✧ OEM supplier to lots of MNCs/SIs.
- ✧ Leader in '**Traffic Engineering Solutions**' viz. Parking Automation (PMS , PGS) projects across India;
- ✧ Successful Installation of Parking Management & Guidance System for more than 20000 vehicles at ICICI building at Hyderabad with the first time installation of UVSS in India.
- ✧ Sales & After-sale Support local from Mumbai, Pune, Indore, Chandigarh, Hyderabad Offices.

## Our Sales Associates



## Our Technology Associates





## **Solution & Engineering Design :**

In-House Capability to conceive, design & engineer the solution as per client process flow & requirements.



## **Technical Support:**

By implication, our customers are always foremost in our minds whether it be for the latest innovation, quality or service.



## **In-house Software Development & Customization:**

BGIL software and engineering team designs and develops all solutions thru in-house capabilities giving a competitive edge to customize the same as required by the customer.



## **Technical Troubleshooting & Repair:**

On time and every time at good value to customers and profitability to the company your satisfaction is our guarantee, all our employees will strive to support the goal.



## **In-house Software Development & Customization:**

BGIL software and engineering team designs and develops all solutions thru in-house capabilities giving a competitive edge to customize the same as required by the customer.



## **Maintenance Contract Services**

Our relationship with the clients does not end with the handling over of the projects, as we believe that After Sales Service is the acid test that people in our business are put through.



## **Product Safety & Training:**

Provide training to improve product system information, maximize machine utilization and achieve optimum equipment performance.



## **On Call Product Solution:**

We understand your concerns and issues and we react with the speed and tenacity that we would apply on our own technology outage. On call support infrastructure provides solutions phone and online support when required.

## **Registered Copyrights (18)**

BGIL Parking Management System

BGIL File Tracking System

BGIL Parking Guidance System

BGIL Smart Campus System

BGIL Toll Management Systems

BGIL Employee Tracking System

BGIL Automatic Number Plate Recognition System

BGIL Library Automation & Management System

BGIL Ticket Dispensing System

BGIL Student Information System

BGIL Visitor Management System

BGIL Food Court Management System

BGIL Canteen Management System

BGIL Intelligent Mast Controller

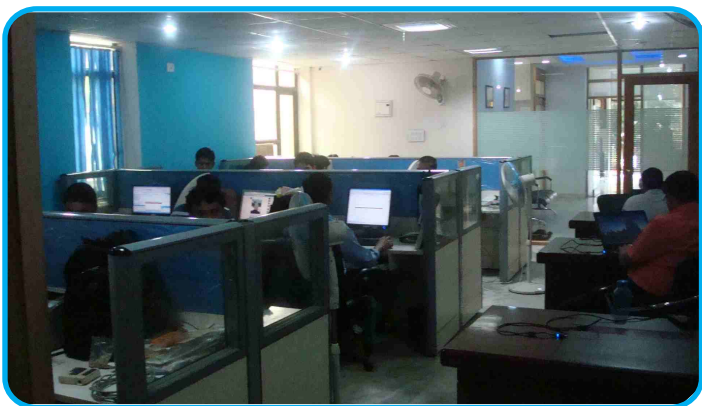
BGIL Asset Tracking System

BGIL Club Management System

BGIL Laptop Tracking System

BGIL Token-less Two Factor Authentication System





## BGIL Systems Offerings

### ❖ 1. Parking Management & Guidance Projects

#### ICICI Bank, Hyderabad

Provided: RFID Based Parking Management & Guidance System

BGIL has provided RFID enabled Vehicle Parking Management & Guidance System for 20000 vehicle capacity facility spread over 07 floors. The solution is integrated with UVSS, Boom Barriers, Loop Detectors and pushing data on multi-line LED Display panels indicating Parking availability on various floors and parking zones created within the floors for easy and fully guided vehicle parking.



#### ISBT, Kashmere Gate, New Delhi

Solution Provided: Fully Automated Bus Entrance/Exit Solution with Parking Guidance and Passenger Information System

ISBT has 61 multi-depot buses arrival and departure facility which is fully automated using ticket dispensers, smart card readers and guided to the vacant bus parking slot with LED panel guided status of multiple depot allocated parking spaces. The information for the bus arrival and departure is displayed for complete Passenger Information. The solution also has Bus License Plate Recognition facility.



#### Jawahar Lal Nehru Bhawan, Janpath, New Delhi

Solution Provided: RFID Based Parking Management System

JNB building provides the office complex of Ministry of External Affairs and the fully secured vehicle entrance, duly authenticated by RFID, are permitted entry and guided to the parking facility.



#### JN Trauma Centre, AIIMS, New Delhi

Solution Provided: RFID Based Parking Management System

Trauma Centre has parking facility for their pre-authorized staff and doctors. The RFID tags fixed on the vehicle are read, validated and access granted by RFID readers placed and integrated with Boom Barriers.



#### Parnee Developers, BKC, Mumbai

Provided: RFID Based Parking Management System

The office complex is multi-stored, multi-tenant facility and the vehicle parking spaces are allocated to various tenants as per their eligibility. The solution validates the vehicles entry on the basis of their allocation less utilized to grant the entry to facility. This availability of parking spaces on the tenant bases is displayed on the LED panels strategically placed.



#### Infinite-II Mall, Malad, Mumbai

Solution Provided: Vehicle Parking Management & Guidance System

Infinite-II Mall is having vehicle parking capacity of 950 cars spread over five floors including one terrace parking. The solution provides the handheld ticket issuance integrated with Boom Barriers for the entry and then fully guided by the LED panels to the vacant parking slot duly indicated by a Ultrasonic Detector & LED Bay Lamp technology



#### Hindustan Unilever Limited, Mumbai

Solution Provided: Vehicle Counting and Display System

HUL office complex at Mumbai has two level of basement parking and the vehicle count on the real time basis is done using loop detectors & counting controller and displayed on the multi-line LED panel.





## ❖ 2. Other RFID Projects

**Bharti Airtel Limited, New Delhi**

Solution Provided: RFID Based Asset Tracking System

Bharti Airtel corporate office has several assets which have been tagged with RFID and their movement on floor level or between the floors is tracked and report is generated accordingly. The system also features the pre-authorized movement of assets. The solution is integrated with Honeywell EBI IBMS as well.

**Jawahar Lal Nehru Bhawan, Janpath, New Delhi**

Solution Provided: RFID Based Employee Tracking System

The office complex is spread in two towers having five floors each and all their office corridors and other exit locations are fitted with RFID readers. All employees or the visitors are issued a RFID tag which is read by the RFID readers. Thus the system provides the zone wise employees/visitor position and alarm is generated whenever an unauthorized movement of employee/visitor is tracked by the system.



## ❖ 3. Enterprise Level Visitor Management System

**ICICI Bank, Hyderabad**

Solution Provided: Kiosk Based Visitor Management System

Multiple self-service kiosks are provided for issuance of visitor passes on pre-authorized approval basis and duly verification reverts from the host employee to whom the visitor has come to meet. The system provides for multiple reports detailing all visitor/host related visits to the facility. The system also facilitates with a missing visitor watch alert popup.

**Parnee Developers, BKC, Mumbai**

Solution Provided: Kiosk Based Visitor Management System

Almost the same system as mentioned above but with a difference that here it is multi-tenant facility and verification/pre-authorization from multiple clients.

**eValueServe, Gurgaon**

Solution Provided: Multi-Location Visitor Management System

Multi-location visitor management system is installed here with a centralized server at single location. The system also facilitates with a missing visitor watch alert popup.

**NOKIA, Gurgaon**

Solution Provided: Visitor Management System

Solution is same but with a difference that the visitor exits is recorded using wireless 2D bar code reader to report on the duration of the stay of the visitor in the facility. The system also facilitates with a missing visitor watch alert popup.

**NIIT Technologies, Greater Noida**

Solution Provided: Visitor Management System

Solution provides for the reconfirmation of the visitor who has entered at the security gate and reports at the reception in the pre-defined time period to collect the visitor pass. In case of exceeding this time-limit a missing visitor alarm is raised by the system to the security.

**BPTP, Gurgaon**

Solution Provided: Visitor Management System

Standard VMS is installed to facilitate the visitor entry, validation and collecting the visitor exit as well.





## ❖ 4. Canteen Management System

## NIIT Limited, Gurgaon

Solution Provided: Canteen Management System

The solution deployed provides for the multi-vendor, multi-facility smart card based canteen system which is duly integrated with their HRMS for credit sale reporting for the employees availing the facility during the month.



## Infinite Computer Solutions, Bangalore

Solution Provided: Multi-Office Canteen Management System

CMS installed is multi-location with centralized server to automate and expedite the service to more than 1000 employees per location within a time frame of less than one hour.



## Times Group, Mumbai

Solution Provided: Canteen Management System

CMS with multi options and self-serve kiosk based fully integrated with their SAP and web portal for pre-booking is commissioned to facilitate 24-hour canteen for a total employee strength of more than 2000.



## Indus Tower, Gurgaon

Solution Provided: Canteen Management System

CMS installed is multi-location with centralized server to automate and expedite the service to more than 1000 employees per location within a time frame of less than one hour.



## PriceWater House, Gurgaon &amp; Kolkata

Solution Provided: Canteen Management System

CMS with multi options and self-serve kiosk based fully integrated with their HRMS and web portal for pre-booking is commissioned to facilitate 24-hour canteen for total employee strength of more than 2000.



## ❖ 5. Other Software/Customized Solutions

## DIAL Terminal 3 Airport, New Delhi

Software Middle-ware for Integration

Honeywell awarded this job to our company to design, develop and deploy the middleware to integrate and exchange data among 24 servers collecting/exchanging data from more than 5000 points to synchronize and automate multiple facilities on the Airport.



## Dr. Bhimrao Ambedkar University, Aurangabad

Biometric Based Web-Café Management System

The solution provides the second level of biometric authentication of the students to use and login on the university computers. It also provides for reporting the user based activity chart and usage chart on the computer.





MINISTRY OF DEFENCE



IndianOil



भारतीय चिकित्सा संस्थान



उत्तर रेलवे



ओएनजीसी

ISBT



GAIL (India) Limited  
Gas & Beyond

Department for  
Transport

Infosys

TATA  
TATA CONSULTANCY SERVICES

HCL



Honeywell

DELHI INDIRA GANDHI  
INTERNATIONAL AIRPORT

somfy

DIMTS  
We help people move

pwc



Schneider  
Electric

SESA GROUP  
SESA GOA

NOKIA

JCI

Hindustan Unilever Limited



RAHEJA  
DEVELOPERS

ह. स. कं. क.  
HSCC

tyco  
Fire & Security

LODHA  
BUILDING A BETTER LIFE

SIEMENS

EVALUERVE  
YOUR GLOBAL KNOWLEDGE PARTNER



MAHAGUN  
A NAME THAT PERFORMS

Denave  
Sales Enabled

TechBean

PLUS

PARINEE  
Benchmarks, Landmarks, Worldmarks

NCC

V3S  
Infratech

Nakhrali Dhani  
INDORE



AON Hewitt

Nestlé



BVG  
BVG INDIA LTD.  
A Bharat Vikas Group Company

GUJARAT FLUORO CHEMICALS LIMITED

SERVOKON  
We believe in perfection

PDPL

NIIT  
technologies



OMAXE  
Turning dreams into reality

SECUTECH



Cromwell Infomedia Limited



Partners in Indian Building



SATGURU PARTAP SINGH  
Apollo Hospitals  
touching lives

amadeus  
Your technology partner

airtel

Oscar  
Oscar Investments Limited

C-NET

INTEROCEAN

elkosta  
Security Systems India

firepro  
STAYSAFE

NIIT  
Be more ambitious

XL TELECOM & ENERGY LIMITED



MetLife

ZTE中兴

ICICI

Paramount  
CABLES

Omantel

infiniti  
The mall with infinite experiences

Cipla  
Caring for life

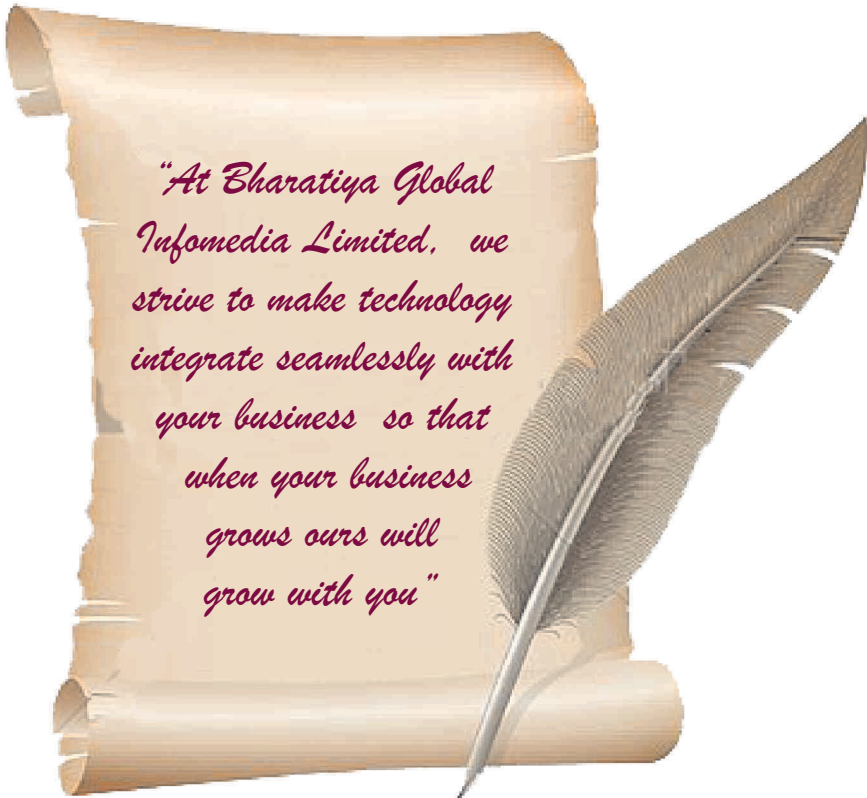

NIRLON

bptp



net4  
reach beyond

AUTOCOP  
Facility Security Solutions



*"At Bharatiya Global Infomedia Limited, we strive to make technology integrate seamlessly with your business so that when your business grows ours will grow with you"*



## **Bharatiya Global Infomedia Ltd**

(An ISO 9001:2008 Company)

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