



# G K Controls Pvt. Ltd.

*Committed to Commitments*

**Building Control Solutions**  
Consultation, project execution & maintenance Company

System Integrator of

**Honeywell**

(for BMS)

Distributor of

**setra**

(for EMS)

**BCS Rising Star 2019 Award**



**Company registered in India under the Companies Act 2013**



## Mr. Shirish Tapadia

### ■ Credentials:

- B.E.(Instrumentation) Gold medalist of 1989 batch from SGGGS college Nanded
- MBA (Finance) from ICFAI university
- PMP certified by PMI USA
- Six Sigma Green Belt certified

### ■ Work Experience:

- 30 years in Automation Industry





# Building Control Solutions : Portfolio



## BMS

### (Building Management System)

- Industrial Buildings
- Comfort Buildings
- Institutional Buildings
- Using DDC / PLC / SCADA

## LCS

### (Lighting Control System)

- Dynamic Day Light Harvesting
- Human Centric lighting
- DALI based control System
- Integration to BMS

## GREMS

### (Guest Room Energy Mgt System)

- For Hotels, Resorts
- Intelligent Room Automation
- Energy Management
- Integration to PMS & BMS

## EMS

### (Environment Monitoring Solution)

- Room Pressure Indicator
- Critical Room Monitor
- Particle Counter
- Wireless sensors

**Entire Range of Commercial Buildings Automation**



# I> Building Management System (BMS)

Honeywell

TREND

WEBS-Ax™

SBC  
SAIA BURGESS CONTROLS

ALERTON



**Monitoring all energy consuming equipment in building**





# BMS Engagement Stages

## Design



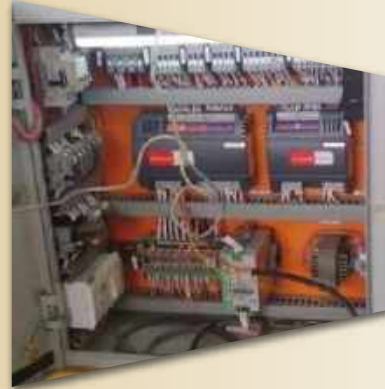
- Comprehensive Requirement Study
- Site Survey
- Formulate Best Option
- Overall System Architecture
- I/O Summary
- BOQ preparation
- System Specifications

## Engineering



- Hardwired Signals Detailing
- Third Party Interface Signals
- Panel Layouts
- Wiring Drawings
- Detailed System Architecture
- Graphics Development
- Control Logic Development

## Supply



- Honeywell DDC / PLC Controllers
- IP controllers / MSTP controllers
- Honeywell BMS SCADA
- Temp / RH sensors
- CO / CO2 sensors
- Pressure / DPS / Flow Sensors
- Thermostats
- VFD

## Installation



- Control Panels
- BMS SCADA computer system
- Various sensors
- Cables with trays / conduits
- Hot loop check / Cold loop checks
- System commissioning

## Maintenance



- Annual Maintenance Contract
- On-Call maintenance support
- System Upgrade Support
- BMS operators

**We can get engaged during any phase of the project**



# Pharma Projects

## BMS at IVBP Pune

- 21CFR-Part11 compliance required
- Honeywell Trend 963 SCADA
- Trend IQ-4E Controllers, XNC controller for Third Party integration

## Lupin Ltd Nagpur

- Expansion, Modification, Maintenance
- Trend-963 SCADA
- IQ-4E Controller

## PLC based BMS at Biocon Bangalore

- Niagara Framework Honeywell BMS PCD Supervisor
- Honeywell PLC Saia Burgess Controls PCD3 controller
- Supply, Testing, Commissioning

## Crane ChemPharma Satara

- DDC Honeywell Spyder Controller
- TR-120 display
- CO sensor

## Hindustan Antibiotics Ltd Pimpri

- DDC Honeywell Spyder Controller
- Sensors for AHU

## Western Pharmaceuticals Sri city

- Alerton Compass SCADA
- Alerton Network Controller ACM
- Honeywell Spyder Controllers



# Electronics Manufacturing Projects

Bharat Electronics Limited  
Bangalore

- Honeywell Trend IQ-4E Controller

TAL Manufacturing Ltd Nagpur

- Upgrade Niagara framework Honeywell Webs-AX to Webs-N4
- Refurbishment & addition of Honeywell Spyder Control Panels

PLC based BMS at Dassault  
Reliance Aerospace Ltd (DRAL)  
Nagpur

- Niagara Framework Honeywell BMS PCD Supervisor
- Honeywell PLC Saia Burgess Controls PCD3 controller
- Third party systems integrations

Vitesco Technologies Chakan Pune

- Niagara framework Honeywell Trend IQ-Vision BMS
- Honeywell Trend IQ-4E Controller, Third Party communications using XNC controller
- AHU sensors

Bharat Electronics Limited Pune

- Alerton Compass SCADA
- Alerton VIP controllers

Skoda (Volkswagen) Chakan Pune

- Niagara N4 SCADA
- Controller Jace-8000
- Controller configuration & BMS commissioning



# Commercial Building Projects

## BMS design at Monarch Commercial Complex Pune

- Design Consultation, Design documentation
- Site supervision supervision

## BMS expansion at Goa airport

- Refurbishment & addition of Honeywell Spyder Controllers
- Commissioning

## Virtusa IT office at EON IT Park Kharadi

- Niagara Framework Honeywell Webs-N4 BMS, Honeywell Jace-8000 and Spyder controllers
- Third party systems integrations

## MNDF Bunkers Maldives

- Honeywell Spyder Controllers
- AHU sensors supply & System commissioning

## Amazon Development Centre Pune

- Honeywell Trend 963 to IQ-Vision BMS update
- Trend IQ-4E, TONN, XNC controllers

## Wipro IT office phase-2 Pune

- Niagara Webs-AX SCADA
- Honeywell Spyder Controller and VAV boxes commissioning

## General Electric (GE) Chakan Pune

- Honeywell Spyder VAV controllers
- Communication to Honeywell EBI through BACnet router

## BMS design for Pune Metro above ground station

- Design Basis Report (DBR) document





# Healthcare Projects

## BMS at Ruby Hall Hospital Pune

- Honeywell Trend 963 system with IQ-4E controller expansion
- Expansion supply, troubleshooting & maintenance

## Electricwala Hospital OT

- Honeywell Spyder Controllers
- Supply & Commissioning

## David-Llyods club (Talwalkar Gym) Wakad Pune

- Niagara Framework Trend IQ-Vision BMS, IQ-4E and TONN controllers
- Third party systems integrations

## Addu Hospital Maldives

- Honeywell Spyder Controllers TR-75H displays and AHU sensors
- Supply & commissioning

## Vana Wellness Retreat Dehradun

- Honeywell Spyder Controller
- Supply & Commissioning

## Ungoofaroo Hospital Maldives

- Honeywell Spyder Controller, TR-120H displays, Sensors and VAV boxes
- Supply & commissioning

## Sahyadri hospital OT Pune

- Honeywell Spyder controller and TR-120H display
- Supply, Testing, Commissioning



## Educational Institutes Projects

### BMS at MSME Training Centre Durg

- Niagara Framework Honeywell Webs-N4
- Honeywell Jace-8000, Spyder Controllers

### BMS expansion at IIT Chennai

- Honeywell Trend 963 BMS, IQ-4E controllers
- Expansion supply & commissioning

### BMS design consultancy and demo system for MoE schools in Singapore

- BMS consultation for MoE schools in Singapore
- Design Documentation
- Demo system supply & testing



## Data Centre Projects

### BMS at Aurangabad Bidkin Smart City Data Centre

- Niagara Framework Honeywell Trend IQ-Vision BMS, IQ-4E, XNC controllers
- Integration to UPS, Fire Alarm System, WinPak Access Control System, Third Party BMS
- Winpak Access Control System to SAP integration

### Niagara BMS commissioning at Ctrl-S data centre Mumbai

- Niagara N4, Jace-8000 controller
- Point lining & commissioning

### BMS commissioning at Airtel data centres at Pune, Kolhapur, Nagpur

- Niagara Jace-8000
- Graphics creation, point linking
- Testing & Commissioning



## Other Industry Projects

### DDC at Britannia Mundra Gujarat

- Honeywell Spyder controller, TR-75H displays, sensors
- Supply & Commissioning

### PLC based BMS at Welspun Bangalore

- Niagara framework Saia Burgess PCD Supervisor supply and programming
- SBC PCD3 controller programming

### DDC at Godrej Tyson Foods Ludhiana

- Honeywell Spyder controller, TR-75H displays, sensors
- Supply & Commissioning

### DDC at Adani Wilmor Gandhinagar Gujarat

- Honeywell Spyder controller, TR-75H displays, sensors
- Supply & Commissioning



# Services outside India

Commissioning Support to telinstra UAE

- BMS commissioning engineer

Remote documentation support to Servetech UAE

- Autocad drafting services

Commissioning Support to Servetech for Oman & Qatar

- BMS commissioning engineer

Remote PLC programming support to L&T FZE

- Remote engineering services for PLC programming

PLC supply & programming support to RTI International USA

- Siemens PLC panel supply and programming

Embedded Controller for Duke University USA

- Supply & programming of embedded controller for water cycling system

DDC program modification at Addu hospital Maldives

- Honeywell Spyder Controller program modification

Embedded Controller for Biomass Inc. USA

- Supply & programming of embedded controller for MHM incineration unit

BMS consultation for MoE schools in Singapore

- Consultation, design documentation for BMS at MoE schools in Singapore

Honeywell Controller for North Carolina State University USA

- Honeywell Ciper-50 controller with programming for excluder unit





## II> Lighting Control System



 **Ex-Or**  
by Honeywell

**5 Year Product Warranty**

**A lighting control system helps you save energy, and save money:**

- **19% of a building's energy use is lighting** – lighting controls can help you cut that by up to 70%.
- **Room sensors are a worthwhile investment** – they can yield a payback in less than one year.

<https://www.youtube.com/watch?v=-xUoCb5Kfow>

**Monitoring & Control of Light on/off, dimming & color temperature**



# LCS (Lighting Control System)

## LightSpot Sensors

- LightSpot PIR sensors
- Switching & dimming
- Microwave sensors for office, open-plan workstations
- High bay version with upto 16 ft height
- Microwave sensors for longer corridors, storage isles, etc



## LightSpot HD PIR sensors

- 5 years Warrantee
- Range of mounting heights
- Lens tilting for precision sensing
- IR control device for easy settings



## MLS Intelligent

- Managed Lighting System
- Intelligent Lighting Control Modules (LCM)
- Occupancy & Daylight detection
- Switching & Dimming Luminaire output
- Easy programming & Scene creations



## Wireless PIR

- Wireless Occupancy Sensor
- Transmits to Honeywell DALI controller
- Built in 2.5GHz chip antenna
- 10-year battery life design
- 5-years limited warranty
- Protocol: Zigbee IEEE 802.15.4



**Upto 70% Lighting Electricity Cost Reduction**



### III> Guest Room Energy Management System (GRMS)



**Saving Energy Cost while ensuring complete comfort to the guests**



# Guest Room Energy Management System (GREMS)

## Purpose

- Guest Comfort with Energy Saving in Hotels

## Controls

- Room Air Conditioning
- Room Lighting with scene controls
- Do-Not-Disturb and Make-My-Room features

## Features

- Programmable Thermostats with built-in PIR
- Energy Management with Dashboard

## Integrations

- Integration to Smart Electronic Door Locks
- Integration to PMS (Property Management System)
- Integration to BMS (Building Management System)



**INNCOM**  
by Honeywell

**Programmable and Integrated GRMS**





## IV> Critical Environment Monitoring Solution (CEMS)



Healthcare



Vivarium



Laboratory



Cleanroom

**Monitors Critical Environment in a user friendly manner**





# CEMS (Critical Environment Monitoring Solution)

## Cleanroom Monitors

- More than a room pressure monitor
- Monitors Temp, pressure, Humidity, Air change rate and 2 user defined parameters
- 7" touch screen display
- IP54 rated for Wash down



## Room Pressure Monitor

- Visual Alarm using Red / Green ring
- Optional audio alarm
- Continuous pressure indication
- Analog output for integration to BMS etc
- Simple to install



## Wireless sensors

- Temperature
- Humidity
- Door status
- Gases like CO2
- Communicates on Wi-Fi
- Through gateway SetraEdge to SetraCloud



## CEMS Software

- 21CFR-Part11 compliant
- Data visualization
- Alarm notifications
- CEMS stores data securely on-cloud or in-premise server



**Upto 70% Lighting Electricity Cost Reduction**



## Team experience pyramid

- A team of about 8 well experienced engineers & designers



**Experienced team to deliver quality expectations**

# Clientele



Hysec BFL Pvt. Ltd.

Godrej & Boyce

ANS Aircon Engineers

Anacle Systems Singapore



TAL Manufacturing Solutions



Paras Telecom



Suratwala Housing Pvt. Ltd.



Tech Control System (P) Ltd



Govind Milk



SCON projects P Ltd



Biomass Controls, USA

Dyna Filters Pvt. Ltd.



Super Auto India Ltd.



Inspiril Tech Solutions

**Esteem Organizations of the industry**



## Vision

- To be the most trusted BMS solution partner in Buildings Automation domain

## Mission

- Committed to Commitments
- Design to give comfort with energy savings

**Strive to be committed to the commitments**



Visit us

You are most welcome to visit our facility....



[www.gkcglobals.com](http://www.gkcglobals.com)





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# Thank You

**G K Controls Pvt. Ltd.**

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