



Emergency Monitoring System

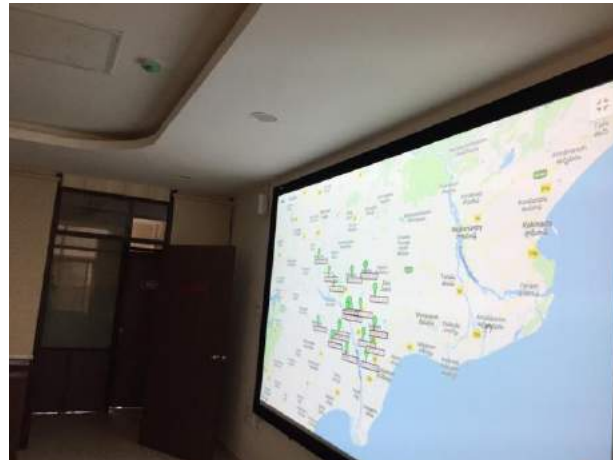
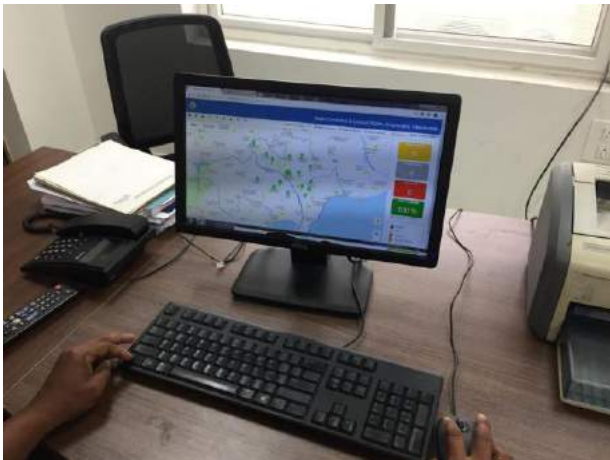
Srisaa Technology Labs

Objective

Minimizing Loss of Lives & Property due to Fire Accidents
thru Regulatory **Compliance**, Preventive **Monitoring &**
Enhanced Response, supported by strong **Analytical**
Feedback Loop

Command & Control

Andhra Pradesh Disaster Response and Fire Services



Reference

Andhra Pradesh Disaster Response and Fire Services

I am very pleased to inform you that we are very happy with the Online NOC Portal and the Vehicle Tracking Services provided by Srisaa Technology Labs.

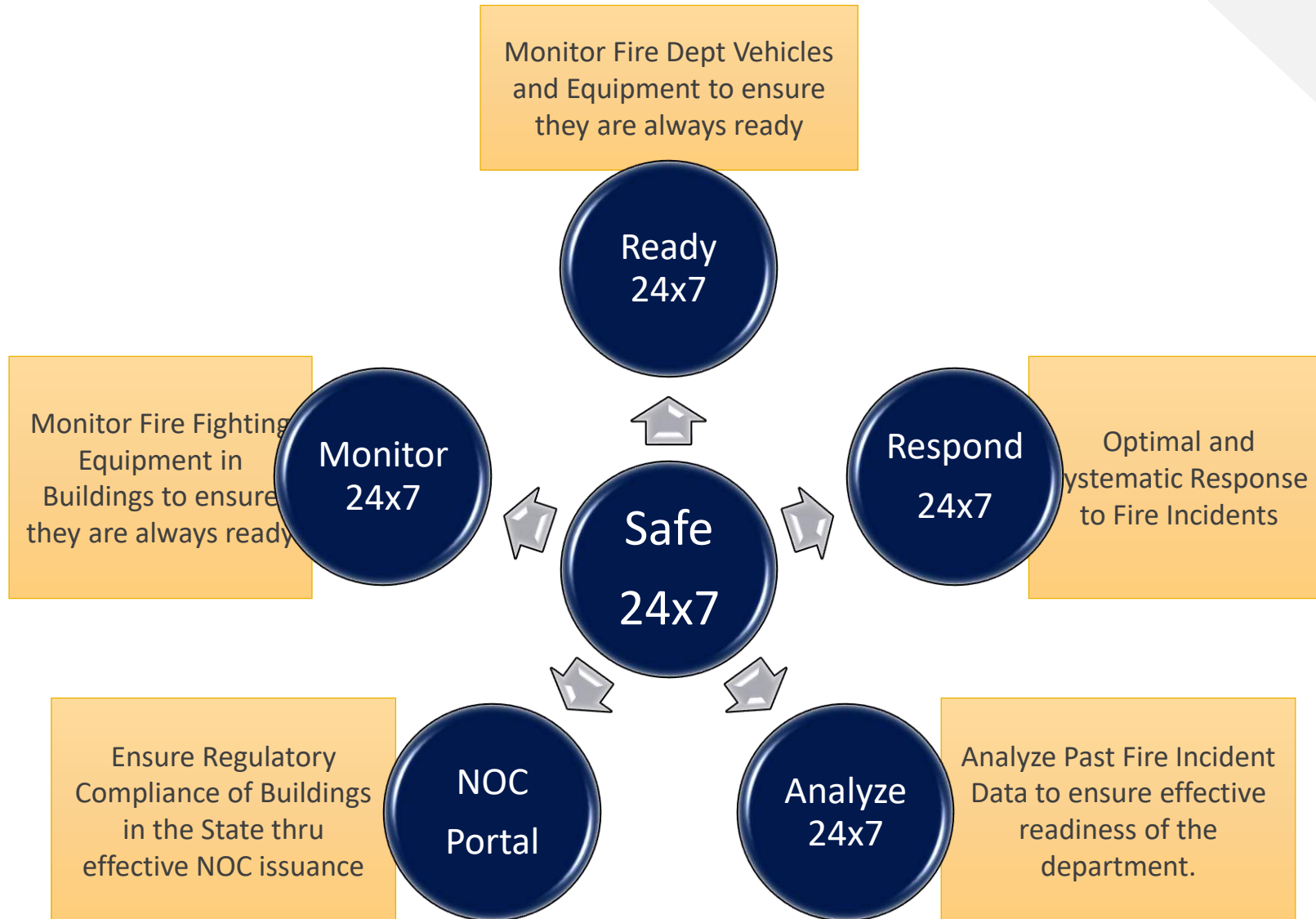
I strongly believe that the software has helped the department by easing the process of Fire Response and NOC Issuance and bringing in a high level of Transparency and Accountability into the System. It has brought down the average time of issuance by half.

Srisaa Technology Labs team has been very responsive to our needs and provided immediate solutions to any issues faced during implementation process.

*Shri K Satyanarayana IPS
Director General*



Sub Systems





**SAFE
24x7**

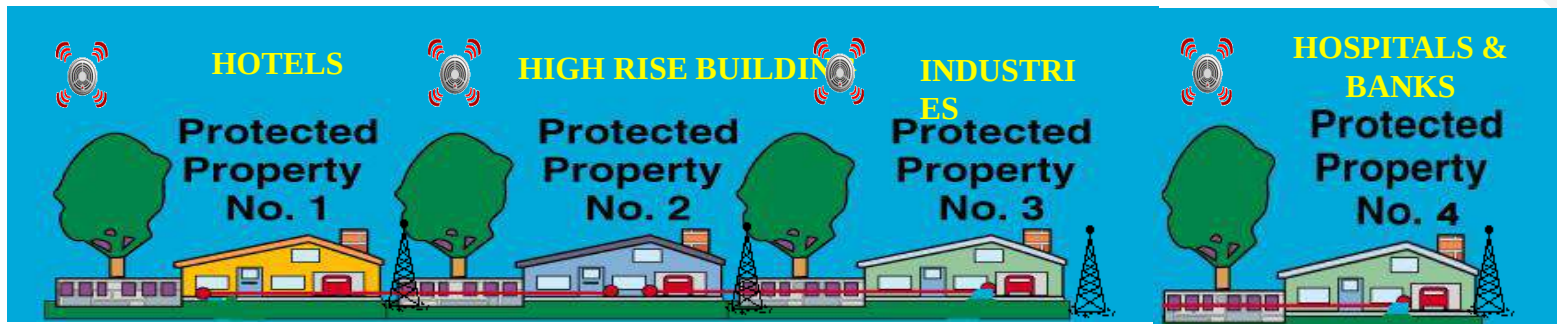
Monitor 24x7

Monitoring Fire Fighting Equipment
at all Premises to minimize impact of
Fire Accidents

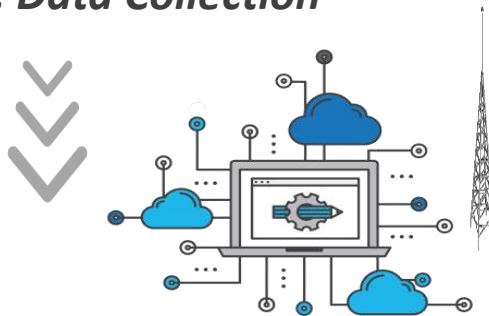
Objectives

- **Monitor the Health** of the Fire **Protection System** in **real time** and facilitate immediate dispatch of resources.
- **Ensure** all Facilities have a **functional** Fire Protection **System** on **24x7 Basis** and not just when seeking NOC at Initial or Renewal stage.
- **Optimize** use of **Manpower** needed for periodical **Fire Safety Audit**.
- **Minimize** loss due to Business / Activity **disruption** due to Fire incident through Automated **Compliance Monitoring System**.

System Overview



1. Data Collection



Fire Station
Fire Control
Room

2. Data Transportation
3. Data Analytics & Reporting

4. Data Presentation

Monitored Parameters



- **Fire Detection System**
 - **Panel On/Off Condition**
 - **Panel Fault Condition**
 - **Panel Pre-Alert Condition**
 - **Panel Alarm Condition**
- **Fire Protection System**
 - **Pump On/Off Condition**
 - **Pump Fault Condition**
 - **Water Line Pressure Status**
 - **Water Tank Level Status**
- **Gas Detection System**
 - **Gas Panel Status**
 - **Gas Panel Fault**

How it works?



FIRE ALARM CONTROL
PANEL

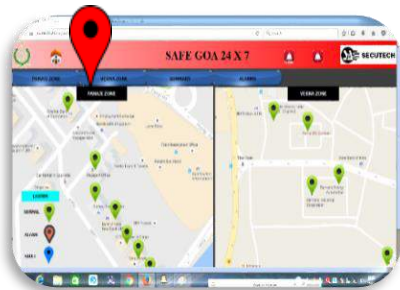
Fault Condition

On/Off
Condition

On/Off
Condition



IoT
EMS



Central Control
Room



local fire
station



2G/3G Router at
Industrial site



Monitor 24x7
System



**SAFE
24x7**

Ready 24x7

Monitoring Readiness of Fire Tenders at Fire Stations to ensure maximum availability and quick response.

Real-time Fire Tender Monitoring



Asset & Equipment Tracking



- Centralized Tracking of Specialty and Rescue Equipment.
- RFID based Equipment Tagging
- Automatic In-Out Tracking
- Monitoring available equipment and their deployment on job.
- Tracking Age of Equipment & Need for Condemnation.
- Identify the nearest available equipment in case of need.
- Source the equipment from the nearest available place.
- Centralized Provisioning thru Control Room.
- Seamless communication between Officer on Field, Control Room and Fire Stations.



SAFE
24x7

Respond 24x7

Ensure efficient and optimal response to Fire Incidents thru enhanced tracking and ease of communication

Fire Incident Reporting



- Mobile App
 - Quick Reporting of Fire Incident
 - Geo Location, Mobile, Details Automatically Captured.
 - Capability to Upload Pictures & Videos.
 - Obtain information and videos about Fire Safety & Rescue
- Phone Call
 - Phone Calls are Received at District Call Centers
 - Locate Incident of Fire based on Information Provided from Google Maps.
- 24x7 Monitor Device
 - Direct Communication of Fire Alarm from Protected Facilities to Fire Control Room.
 - Geo Location, Address, Facility Type and NOC details received.

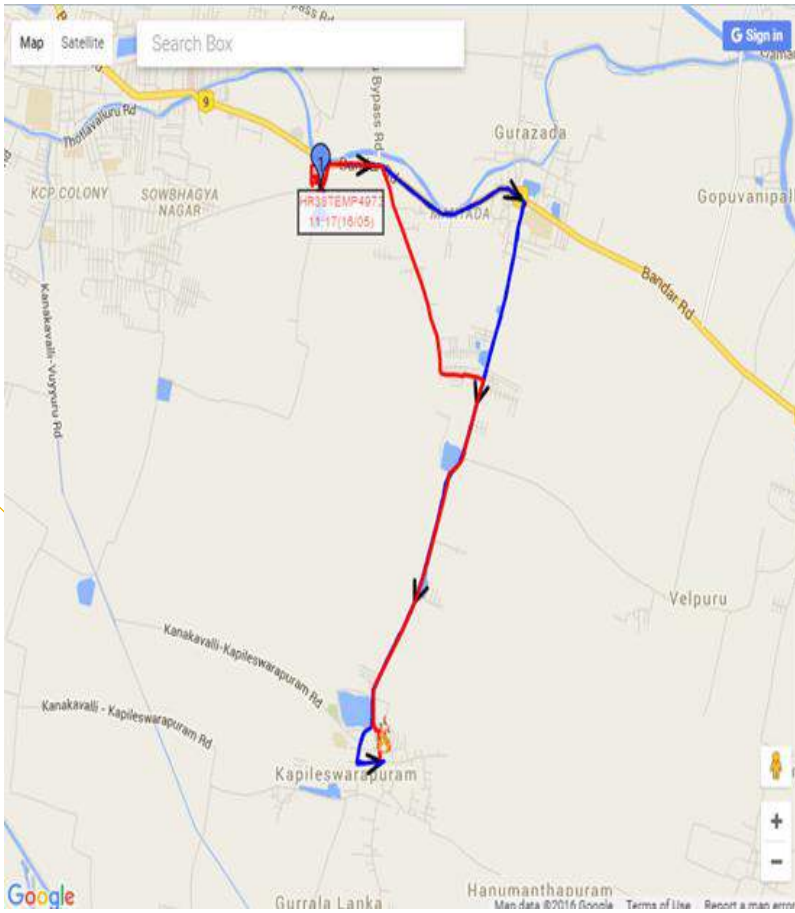


Computer Aided Dispatch



- Centralized Control of Assigning Vehicles to Incidents
- Provisioning Additional Requests from Officers on Field.
 - Vehicles - Equipment – Material
 - Track Availability
- Monitor Incidents including Video and Image Feed from Incident Location.
 - Receive Information from Citizens & Officers
 - Forwarding to Senior Officers or Field Officers.
- Alerting and Messaging Senior Officers and Other Departments.

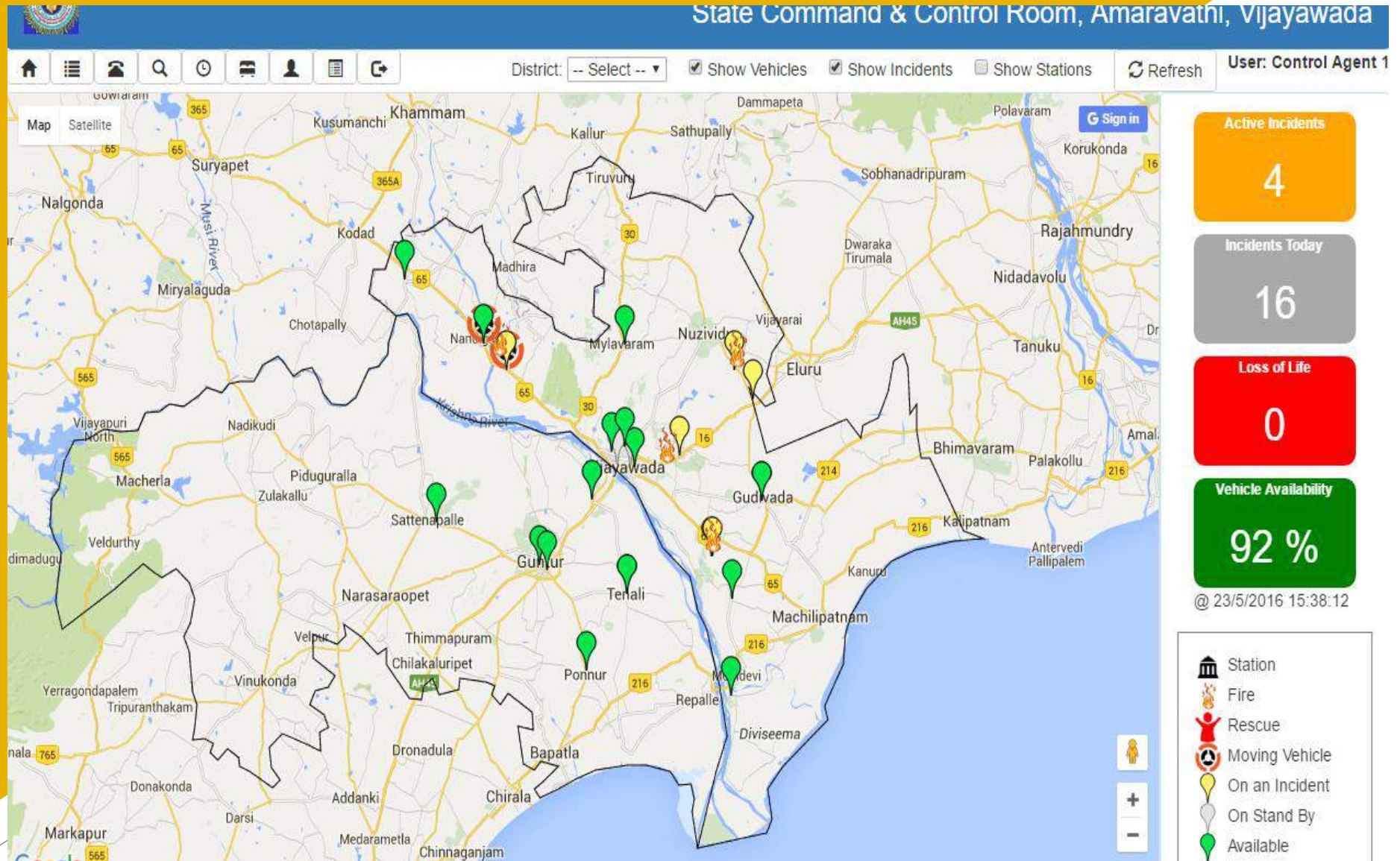
Automatic Vehicle Tracking System



- Live Tracking of Vehicles Assigned to Incidents
- Identification of Nearest Fire Station and Available Vehicle to the Incident.
- Tracking of:
 - Time of Starting from Station
 - Time of Reaching the Location
 - Time of Completion / Availability
 - Time of Return to Station.

Command & Control

SAFE
24x7



Equipment Provisioning



- Online Requests from Officers on Field to Control Room.
- Identify the nearest available equipment in case of need.
- Logistic Planning for Sourcing the equipment.
- Centralized Provisioning thru Control Room.
- Seamless communication between Officer on Field, Control Room and Fire Stations.

Field Automation 1/2



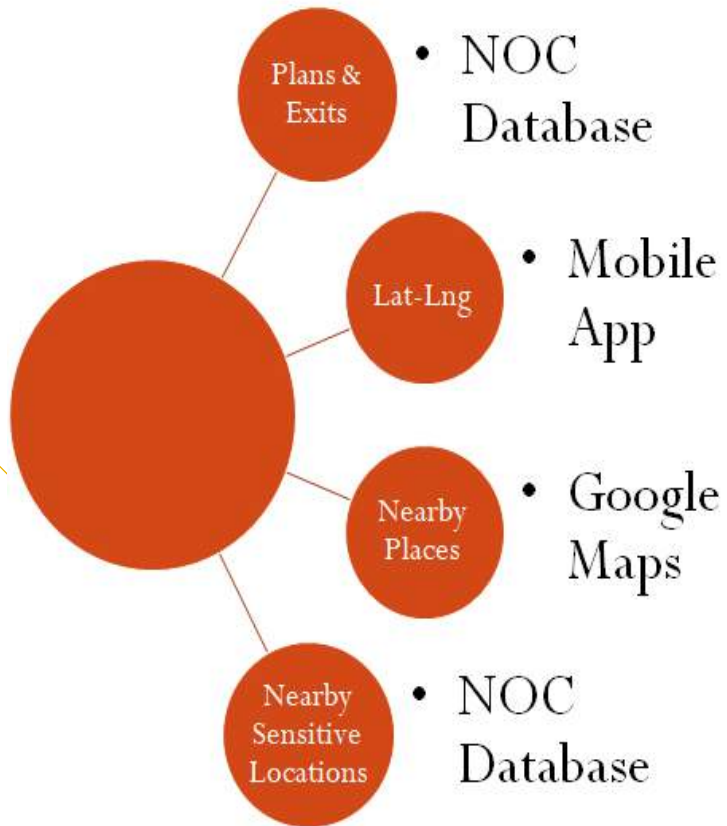
- Requests: Request Men & Material and learn the status of the request immediately.
- Maps: Plot the Location of all the vehicles and fixed components on the Map.
- Contact Info: Obtain information of all officers and men at the click of the button.
- Communicate: Communicate with Men & Officers.
- Video: Stream Video / Images to Control

Field Automation 2/2



- Obtain the Plans of the Building.
 - Locate Means of Escape
 - Locate Entrances & Exits
 - Locate the Installed Fire Fighting Equipment
- Identify Sensitive Locations Nearby
 - Locate any Nearby Properties subject to danger.
 - Identify type of Locations
 - Hazardous Locations
 - Petrol Pumps
- How-to Help Notes
 - Mechanisms to Target Special Fires
 - Mechanisms to Rescue in Critical Cases.

Geo Info Integration



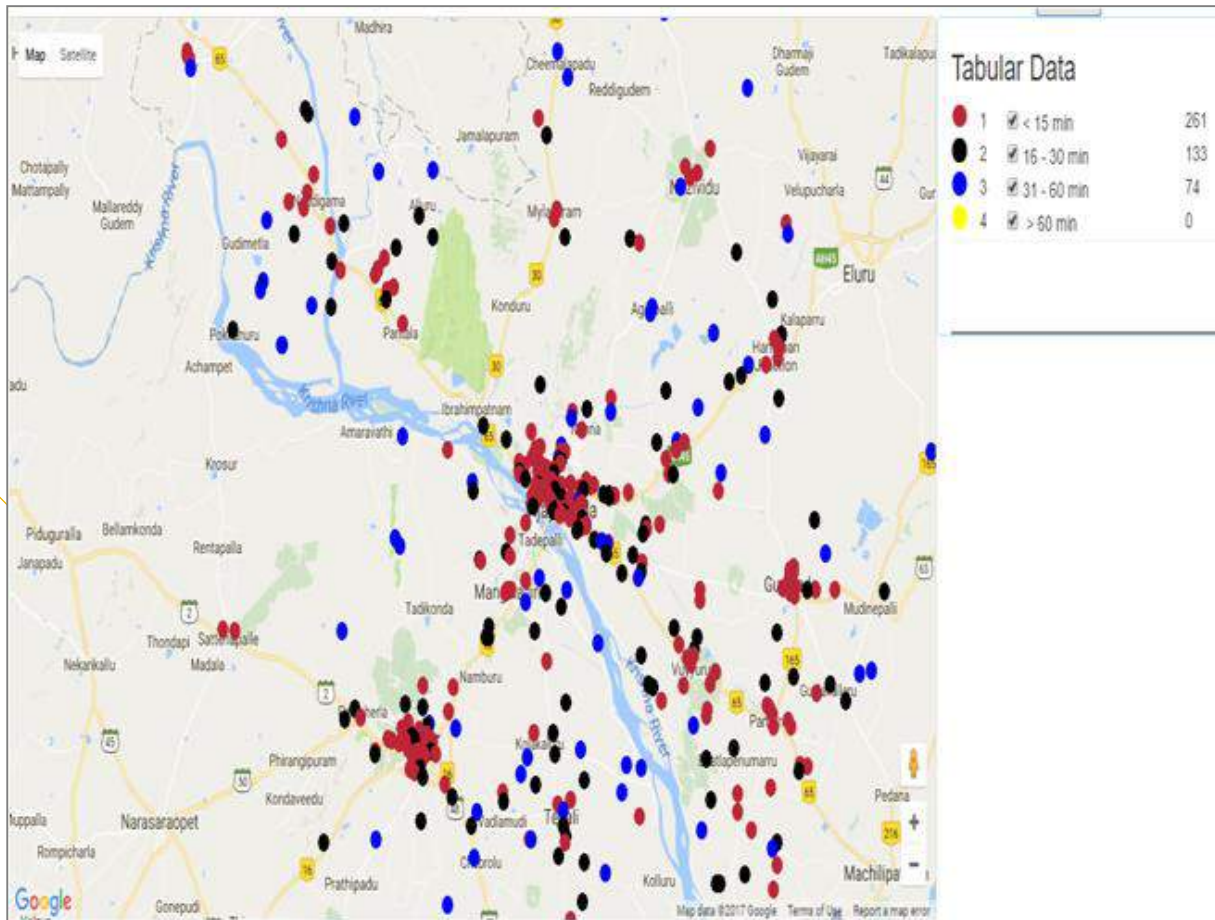
- Plans & Exits: Taken from the Location identified from the NOC Database.
- Lat-Lng: Taken from Mobile App from where Incident is Triggered.
- Nearby Places: Identify nearby Hospitals and other locations.
- Nearby Sensitive Location: Identify other places nearby which can are sensitive to fire.



Analyze 24x7

Ensure efficient and optimal response to Fire Incidents thru enhanced tracking and ease of communication

Analyzing Fire Incidents



- Analyzing based on
 - Response Time
 - Temperature & Climatic Conditions
 - Time of Day
 - Closure Report
- Big Data Analytics
 - On-the-go Pivot Tables
 - Trend Analytics

Reporting

- Completion Reports: After the Fire Incident the Incharge Officer can fill in a complete the Completion Reports
- Fire Incident Report: When requested by Affected Party, the department can generate a Fire Incident Report and provide to them.
- Online Printing by Fire Incident Report by Citizens thru a OTP based Authentication.
- Monthly Fire Incident Reports – Station Level, District Level and State Level.
- Direct Publishing of Reports to Website.



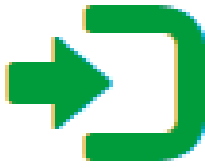
NOC Portal

Ensure efficient and optimal response to Fire Incidents thru enhanced tracking and ease of communication

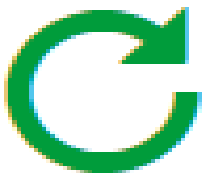
Application Types



Provisional Fire No Objection Certificate

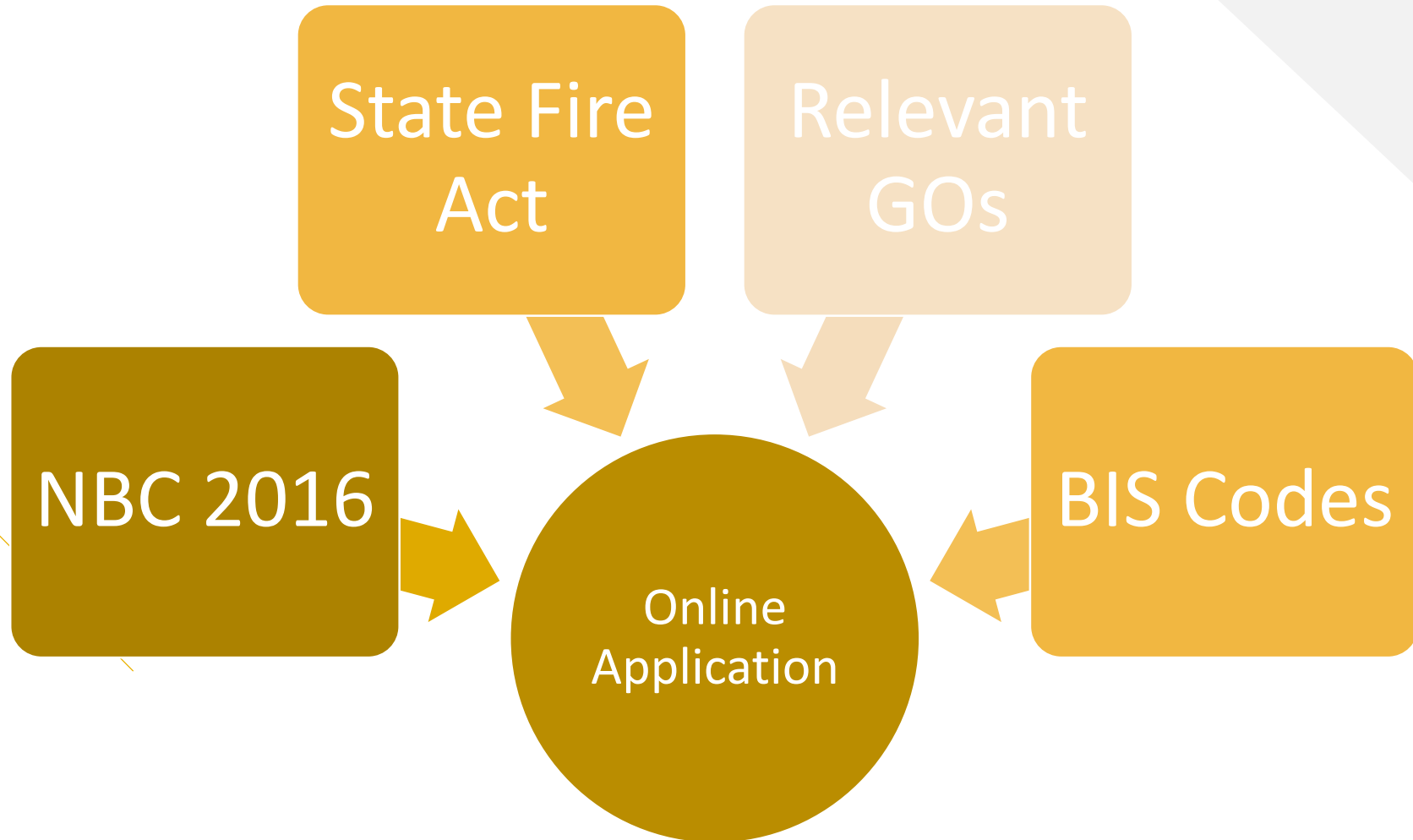


No Objection Certificate for Occupancy

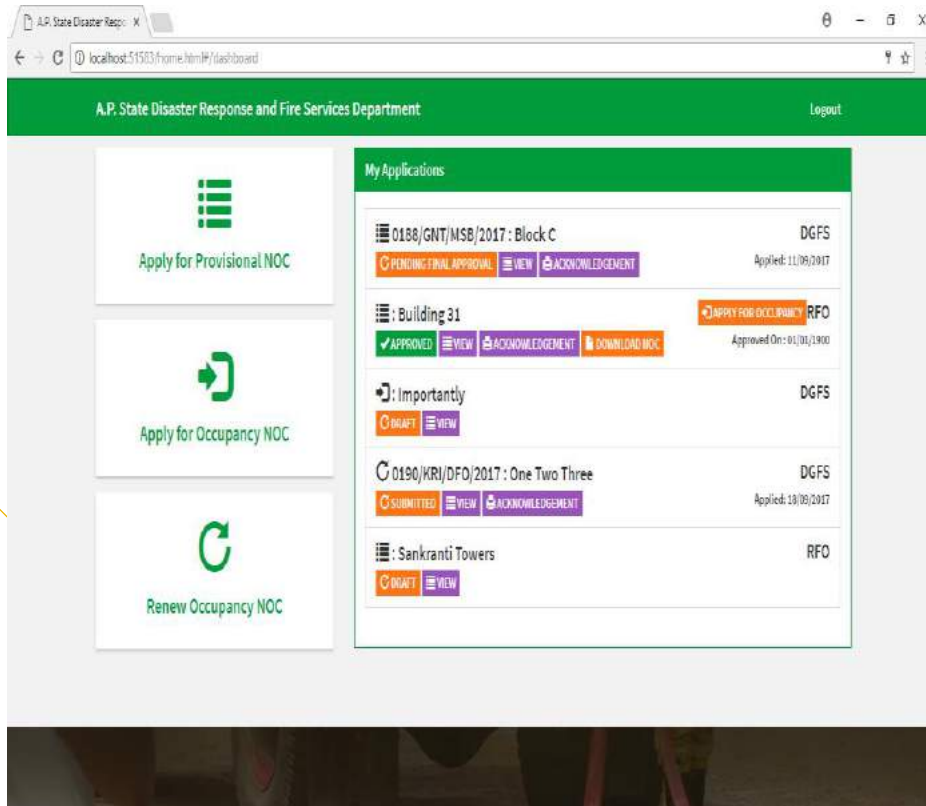


Periodic Renewal of Occupancy
Certificate

Compliance



Citizen Interface



- Provide the Application form for public to input information based on plans.
- Based on Rules in NBC 2016, relevant IS Codes and the State Laws & Rules – Built Formulae and Rules for Validation.
- Apply Formulae and Rules to Validate Application before Submission.
- Filter off Non-Compliant Application by disallowing Submission.
- Complete Workflow & Forms for Inspection, Review, Approval and Rejection.
- Implement Delegation of Powers to route applications.

Departmental Process

A.P. State Disaster Response and Fire Services Department

(Chairman) Inspection by RFO - Southern Region:

The builder has constructed a Multi Storeyed Building (SUZUKI MOTORS INDIA) with Ground Floor + 2 Upper Floors with a height of 22 Mtrs for Industrial Occupancy (Category - G1) in a total plot area of 433821 sq. meters.

Please specify if any discrepancies found in this information?

Occupancy NOC Reference

Occupancy NOC: Manual Application

Reference: 462/SW/2016

Open Spaces

Side	Open Space Required as per NBC	Open Space Proposed by the Builder	Open Space Provided by the Builder	Defect	Observation	Remarks	Image
North	8 Meters	8.00 Meters	8.00 Meters	-	Ok	Nil	
East	8 Meters	8.00 Meters	8.00 Meters	-	Ok	Nil	
South	8 Meters	8.00 Meters	8.00 Meters	-	Ok	Nil	

- Highly customizable approval process
- All Inspection and Review Reports are Filed Online by Officers
- All the comments of the Officers in One Place for the Issuing Authority to make a quick decision.
- SMS and Email Communication
 - Alerts & Reminders
 - Document Emails
- Pendency and Statistical Reports

Online No Objection Certificate

11/7/2017

A.P. State Disaster Response and Fire Services Department

Government of Andhra Pradesh

A.P. State Disaster Response and Fire Services Department

No Objection Certificate for Occupancy

To
IALA,
Sri City, Tirupathi
Sir/Madam,

File No: 0148/CTR/MSB/2017
Date: 07/11/2017

Sub: Andhra Pradesh State Disaster Response and Fire Services Department • No Objection Certificate for Occupancy to the existing Multi Storeyed Building of (Isuzu Motors India Private Limited) Mr.Daichiro Sakamoto, Sy.No.9/12, 9/13etc., Expressway, Sricity, Siddammaghararam Village, Varadaiahpalem(Mandal), Chittoor • Regarding.

Ref: 1. Online Application Dt. 18/07/2017, Mr.Daichiro Sakamoto, Sy.No.9/12, 9/13etc., Expressway, Sricity, Siddammaghararam Village, Varadaiahpalem(Mandal), Chittoor
2. Online Inspection Report submitted by Officers of this Department on 16/08/2017.

It is to inform that Mr.Daichiro Sakamoto have applied for No Objection Certificate on 18/07/2017 for Occupancy to the existing Multi Storeyed Building for Isuzu Motors India Private Limited at Sy.No.9/12, 9/13etc., Expressway, Sricity, Siddammaghararam Village, Varadaiahpalem(Mandal), Chittoor. The officers of the department have scrutinized the information, documents and plans submitted by the applicant along with the undertaking provided by the applicant, and have submitted the following report.

ISUZU MOTORS INDIA

2. The builder has constructed a Multi Storeyed Building with Ground Floor + 2 Upper Floors with a height of 22 Mtrs for Industrial Occupancy (Category • G1) in a total plot area of 433823 sq. meters.

3. The builder has provided open spaces all around the building

Side	Open Space Proposed by the Builder	Open Space Provided by the Builder	Remarks
North	8.00 Meters	8.00 Meters	•Nil•
East	8.00 Meters	8.00 Meters	•Nil•
South	8.00 Meters	8.00 Meters	•Nil•
West	8.00 Meters	8.00 Meters	•Nil•

4. The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters	Deficit
1	Internal Staircases	1 No. • 1.8 Meters	•Nil•

- System Generated No Objection Certificate, that can be either manually signed or Digitally Signed by the Issuing Authority.



About Srisaa

Research & Development

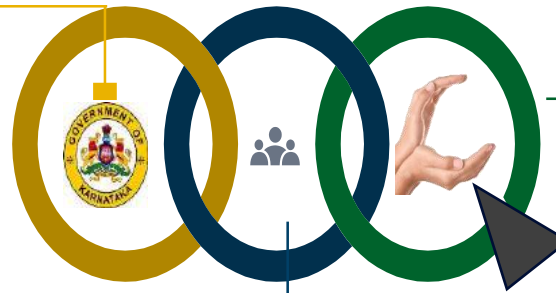
- In Business since 2008
- Developed Products for Police and Fire Services.
- Registered with AP Technology Services
- Client List (Government):
 - AP Fire Services
 - Rajasthan Police
 - AP Police
 - Gujarat Police
 - Telangana Police
 - Goa Fire Services



Benefits to Stakeholder

State Fire & Emergency Services

- *Provide Real Time Monitoring*
- *Save Lives*
- *Ensure 100% Compliance*
- *Use Resources Effectively*
- *Sustainable Revenue*



CITIZENS

- *Stay Safe*
- *Work Safe*
- *Feel Safe*

INDUSTRIES HOTELS HOSPITALS HIGHRISE BUILDINGS COMMERCIAL EST. BANKS

- *Be 100% Safety Compliant*
- *Ensure Asset Safety*
- *Ensure Business Continuity*
- *Ensure Safe Working Environment*



Thank You.



Krishna Sri Satakarni



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