




Company Profile







“We take this opportunity to introduce ourselves as a Engineering Organization, who are the engage in Fire prevention and protection project”.

RADICAL Engineering Solutions is an innovative company dedicated and specialized in Turnkey projects, repair & service of fire protection systems, and industrial fabrication. We entered the market with limited scope of business and services to delivered quality of product and service with complete customer satisfaction . We are working with selected Industries and clients and doing full justice to jobs undertaken.


Our mission to meet the market demand based on our businesses principles, “**Innovative Thinking**” to provide a precise solution to meet client requirements along with efficient method of service to our client. We believe our strength lie in our ability to recognize our customer need by “**Smart Implementation** ”. We achieve product and service quality to earn “**Customer Satisfaction**” to develop positive reputation and strong association with clients.

Our business model is designed to offer customer premium service with the aim to develop a strong long term business relationship that is why majority of our business comes from repeat clients. We have a expertise to provide a appropriate solutions and service with Entrepreneurial Spirit the benefit of which ultimately, get passed to our clients.





“We are Radical Engineering Solutions are primarily engaged in following services”.

- Fire Hydrant System
 - Fire Sprinkler System
 - Fire Alarm System
 - Gas Flooding System
 - Fire Suppression System
 - Nitrogen Injection and Oil Evacuation System
 - Aspiration system – VESDA
 - LPG/ Hydrogen /Gas leak Detection system
 - Fire Extinguishers Distributor
 - P A System
 - CCTV Surveillance
 - Safety Products
 - Lisioning & Training
 - Fire Systems AMC
- 

“Our strength is technical team with hand on experience and Values with customers ”

Rahul Patil – Director

Fire professional with skill in design, installation and testing and commissioning of fire protection system, Fire safety management, Fire prevention and protection services.

Academic Details

- **Bachelor's in Fire** from Gujarat University with destination in
- **Master in fire and safety** from Mahatma Gandhi Education Foundation
- **Advance diploma in Industrial Safety** from Board of Technical Education,
- **MBA in Fire protection and safety management** from Jaipur National University.



Fire Hydrant System :



Fire hydrant installation consists of a system of pipe work connected directly to the water supply main to provide water to each and every hydrant outlet and is intended to provide water for the firemen to fight a fire. The Fire Hydrant Line is always kept pressurized with water. A fire-fighter connects a fire hose to the fire hydrant and releases a valve to get water from the water main.

“In India while designing of fire hydrant system need to follow National Building codes, IS codes internal & external hydrant system, codes for pump room water reservoir, local authorities guidelines.”

Fire Sprinkler System :



An automatic sprinkler system is intended to detect, control and extinguish a fire, and warn the occupants of occurrence of fire. The installation comprises fire pumps, water storage tanks, control valve sets, sprinkler heads, flow switches, pressure switches, pipe work and valves. The system operates automatically without human intervention

“In India while designing of fire sprinkler system need to follow National Building codes, IS codes for sprinkler system, local authorities guidelines.”

Fire Alarm System :



There are two types of fire alarm systems. Conventional Systems and addressable system. Conventional systems are used for small installation as it becomes cost effective and also serves the purpose of safety. Addressable system used for large installations which is gives location identification is easily. It is a well-proven technology protecting many hundreds of thousands of properties worldwide

Fire Extinguishers :



- Powder - MAP 50 & 90 with test reports
- PESO approved co2 cylinder
- EPDM Rubber Hose (Crack Proof)
- Pure Polyester Powder Coating
- Internal Plastic Lining Coating
- Brass forged valves with SS safety Pin
- Higher quality flat horn with diffuser nozzle
- Entirely Deep Drawn two shell body
- Hydro Test with Auto leakage Detection
- Bar Code Label for easy tracking
- UV resistant Transparent labels

ISI Marked | IS 15683:2006 | PESO approved | UL listed

Fire Suppression System



Automatically Detect and Suppress Fire Directly at the Source

During a fire, Heat sensing tube nearest point detects the heat and ruptures the tube. Release the fire suppression media through the burst hole to effectively suppress the fire.

Silent Features :

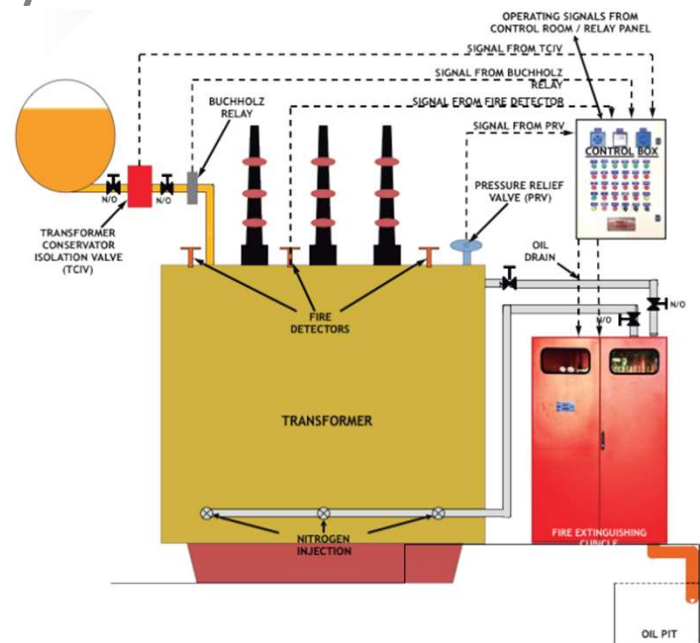
- Low Investment
- Instant Detection
- Zero Maintenance
- No accidental discharge
- Easy to modify and shift
- Suppress fire at early stage
- Installation without downtime



Highly Recommended for :

- Server Racks
- Network/ switch racks
- Electrical Panels
- Network/ Scada Panels
- UPS Room
- Gensets
- CNC machines
- Injection Molding machine
- Vehicles , Forklift, Ships
- Mobile Tower switching area
- ATM
- Diagnostic machine

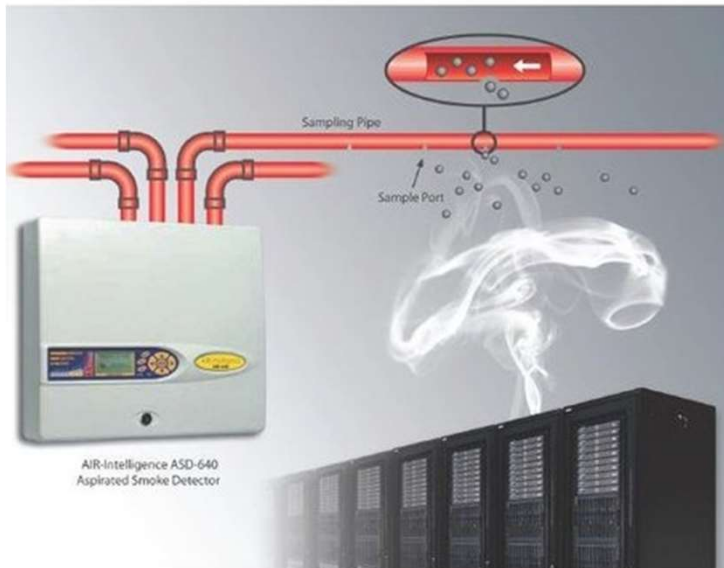
Nitrogen Injection Protection System



Benefits :

- Early detection of fire and extinguisher internally.
- Extinguish the Fire within seconds.
- Automatic oil drain and prevent the Transformer explosion.
- Saves the transformer from extensive damage apart from ensuring no danger to neighboring equipments.
- It is completely Non-Toxic & Non-hazardous.
- N₂ provides best cooling effect to the oil inside the Transformer.
- Forms insulating layer of N₂ Blanket on oil top surface of the
- Less Cost of Maintenance and running cost.
- Environment Friendly.
- Best System for the Areas of water Scarcity.

Aspiration Detection System – VESDA



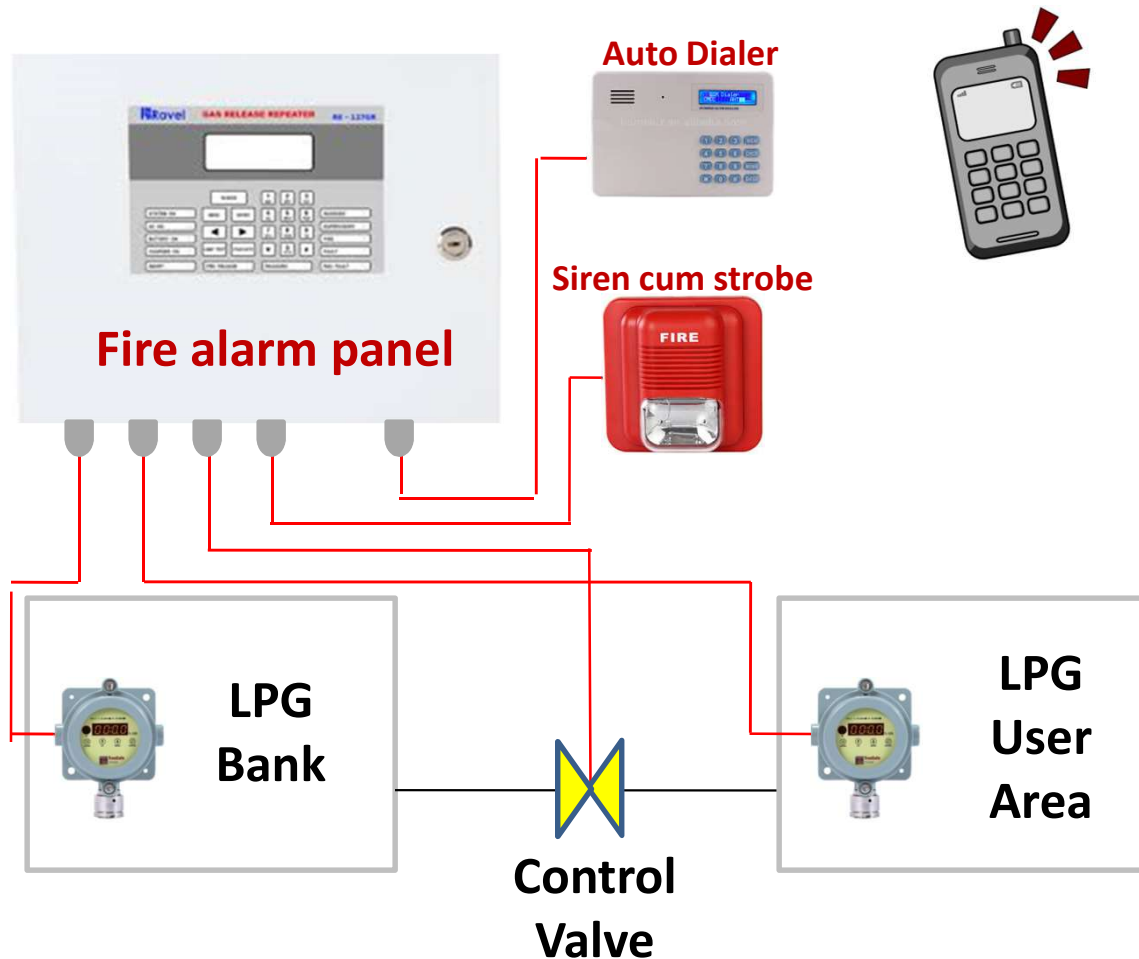
An **aspiration** detection **system** is a highly sensitive form of fire detection that can detect a fire at an early stage. The **system** takes samples of the air and tests them for the presence of smoke

Benefits :

- Provides an early warning of smoke before it is even visible to the human eye
- An ASD works even when the air handling system is not working
- Works well even in low air damper environments
- Easy accessibility for service and testing remote areas such as lofty ceilings without climbing ladders to maintain smoke detectors
- ASD systems are compatible with addressable and conventional fire alarm systems

”ASD System is required to meet NFPA codes and regulations, including NFPA 72, the National Fire Alarm and Signaling Code. NFPA 72 requires the sampling holes to be spaced at equivalent configurations of spot smoke detectors, which are spaced at 30 feet with the ability to protect 900 square feet. Requirements for a Standard Fire Detection (SFD) system require maximum transport time of the furthest sampling hole to the ASD be no more than 120 seconds”.

LPG / Hydrogen / O₂ / Gas leak Detection Systems



Benefits :

- LPG Leak detection at LPG Bank as well User end
- Display LEL level to know the quantum of leakage
- Leak notification alarm by Siren & Flasher @ Strategic location
- Leak notification alert on mobile via SMS/Call
- Automatic isolation the LPG Supply by Control Valve.

Annual Maintenance Contract (AMC)


“AMC means not cleaning the fire equipments, we are performing technically, as per IS regulations and company policy”


AMC Services

- Fire Hydrant
- Fire Sprinkler System
- Fire Extinguisher
- Fire Alarm system
- PA System



Reports :

 Client : / Title : "Fire Extinguisher Servicing Report" Month : Aug 2020														
Sr. No	F.E. Sr. No	Location of Fire Extinguisher	Type of FE	Capacity	Seal	Pressure	Pressure Gauge	Hose			Mfg Sticker	Access	Identification Sticker	Remark
								Crack	Loose	Clamp				
1	1	Main Gate	ABC	6 Kgs	OK	OK	OK	OK	OK	NA	NA	OK	OK	Mfg Sticker NG Hose Clamp NA
2	2	Dispach Area	ABC	6 Kgs	OK	OK	OK	OK	OK	NG	OK	OK	OK	Mfg Sticker NG
3	3	Scrap yard	ABC	6 Kgs	OK	OK	OK	OK	OK	NA	NA	OK	OK	Mfg Sticker NG Hose Clamp NA
4	4	Loading Dock Shutter	ABC	6 Kgs	OK	OK	OK	OK	OK	NA	NA	OK	OK	Mfg Sticker NG Hose Clamp NA

 Client : / Title : "Fire Hydrant Servicing Report" Month : Aug 2020														
Sr. No.	Hydrant no.	Location	Delivery Hose		Nozzle	Big Glass		Landing Valve	Hose Box Key	Blank Cap	Valve Washer	Valve Lugs	Remark	
			I	II		I	II							
1	HB - 01	Pump House	OK	NG	OK	OK	OK	OK	OK	OK	OK	OK	1 Nos Delivery Hose Leakage	
2	HB - 02	Loading Dock	OK	NG	OK	OK	OK	OK	OK	OK	OK	OK	1 Nos Delivery Hose Leakage	

FIRE equipment and system AMC along with Legal compliance such as Form B and etc...

Dealing in Brands



SINCE 1933




by Honeywell





Clients

- **BRITANNIA INDUSTRIES LIMITED**
 - **THYSSENKRUPP INDUSTRIES INDIA PVT LTD, PUNE**
 - **MAHINDRA CIE AUTOMOTIVE PVT LTD**
 - **PIAGGIO VEHICLES PRIVATE LIMITED**
 - **THERMAX LIMITED**
 - **CEAT LIMITED**
 - **HINDUSTAN PETROLEUM CORPORATION LIMITED (HPCL)**
 - **FINOLEX CABLES LIMITED**
 - **WHIRLPOOL OF INDIA LIMITED**
 - **LG ELECTRONICS INDIA PVT LTD**
 - **JABIL CIRCUIT INDIA PRIVATE LIMITED**
 - **JINDAL POLY FILMS LIMITED**
 - **GIVAUDAN INDIA PRIVATE LIMITED**
 - **THYSSENKRUPP ENGINE COMPONENTS INDIA PVT LTD, NASIK**
 - **ENKEI WHEELS INDIA LIMITED**
 - **ACG PAM PHARMA TECHNOLOGIES PVT LTD**
 - **RAYMOND LIMITED**
 - **GLENMARK PHARMACEUTICAL LIMITED**
 - **UNICHEM LABORATORIES LIMITED**
 - **OMNIACTIVE HEALTH TECHNOLOGIES LIMITED**
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Clients

- **REHAU POLYMERS PRIVATE LIMITED**
 - **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH (IISER)**
 - **EFTEC INDIA PRIVATE LIMITED**
 - **BRITCHIP FOODS LIMITED**
 - **SI GROUP INDIA PRIVATE LIMITED**
 - **STARION INDIA PRIVATE LIMITED**
 - **SKH SHEET METAL COMPONENTS PRIVATE LIMITED**
 - **ALIGN COMPONENTS PRIVATE LIMITED**
 - **BAKERS GAUGES PRIVATE LIMITED**
 - **DENSO THERMAL SYSTEMS PUNE PVT LTD**
 - **BENNINGER INDIA PRIVATE LIMITED**
 - **XPRO INDIA LIMITED**
 - **STARLIGHT LIGHTING LIMITED**
 - **HARSH CONSTRUCTION PRIVATE LIMITED**
 - **SUPREME TREON PRIVATE LIMITED**
 - **LUCAS TVS LIMITED**
 - **AVADHOOT PAPER PRODUCTS PRIVATE LIMITED**
 - **ECOREA KURODA ELECTRIC INDIA PRIVATE LIMITED**
 - **PUDUMJEE PAPER PRODUCTS LIMITED**
 - **EMERSON AUTOMATION SOLUTIONS**
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Thanking You,

