

Rachana Engineering Services



The best in class Fire Prevention & Protection Systems



Rachana protects creation...

Fire "A Friend or A Foe?" depends on how it is handled!



RACHANA ENGINEERING SERVICES (RES), an **ISO 9001-2008** certified company, is an EPC (Engineering, Procurement and Construction) agency in the field of Design, Supply, Installation, Testing and Commissioning of Fire Prevention and Protection Systems such as Fire Hydrant, Sprinkler, Water Spray, Deluge, Fire Detection and Alarm Systems, Public Address Systems. It also offers total engineering services "from basic design to commissioning support" for many industries.

LICENSED AGENCY

We have been Authorised by the Government of Maharashtra, Directorate of Maharashtra Fire Services Mumbai, License to act as a Licensed Agency for the purpose of Fire Prevention and Life Safety Measures



Fire Prevention & Protection Systems



TURNKEY PROJECTS

We undertake turnkey fire prevention and protection projects like fire hydrant system, wet riser and hose reel system, sprinkler system, deluge system, water spray and foam based systems, fire detection and alarm system (e.g. conventional, analogue addressable & hybrid system), fire extinguishers, gas based system and many more as required to tackle the fire hazards as per the requirement of the clients and mandated by the statutory bodies.

ENGINEERING DESIGN

The prerequisite of every fire protection project we undertake is sound engineering design. Determining the optimum approach for the given application is the focus area for our engineers to create an effective fire protection system.

PROCUREMENT

We use best in class components, sub-systems and accessories to ensure system performance as per specifications. We procure products and components of highest available quality and integrate the same for a lifelong flawless performance. Where required we use FM/UL certified products.

INSTALLATION

Our qualified supervisors and commissioning engineers ensure that the system installation and project implementation is effective and efficient and performance is satisfactory complying with the requirements.

DESIGN STANDARDS

All design and drawings are produced as per international / national standards, like NFPA, XL-GAP, BIS, NBC 2005, TAC, Maharashtra Fire Act 2006, ANSI, DIN, ISO, BS etc.



Turnkey Fire Prevention and Protection Systems





SERVICES OFFERED

Our turnkey solutions include design basis of fire protection systems, process & instrumentation diagrams (P&IDs), piping and equipment specifications, fire protection equipment accessories specifications, loop analysis, control logic philosophy, layouts of fire hydrant system, sprinkler system and fire detection and alarm system and bill of quantity (BOQ).

We deliver the following:

- Basic Engineering Data/Report
- Budget Cost Estimation
- Technical Support for Statutory Approvals
- Procurement Assistance
- Vendor Monitoring and Control
- Fabrication / Installation / Supervision and Commissioning
- Industrial Safety and Fire Audit
- Holiday Testing for Underground Wrapping Coatings Pipeline
- Certification for obtaining Final Fire NOC and Renewal
- AMC (Annual Maintenance Contract)



Special Hazards Suppression Systems

SPECIAL SYSTEMS

- **Clean Agents**
- **Inert Gases**
- **CO₂**
- **Water Mist**
- **Hypoxic Air Systems**
- **Aspirating Smoke Detection**

Process and installations where downtime and clean up is to be minimized, where water is unavailable or water will react or cause damage require specially designed systems, which may be pre-engineered or engineered as per the site conditions.

Hypoxic Air Systems for fire prevention, (i.e. oxygen reduction system), is an active fire protection method. Traditional fire suppression systems usually extinguish fire after it is detected whereas hypoxic air is able to prevent fire by permanent reduction of the oxygen concentration in the protected areas.

Aspirating Smoke Detector (ASD), consists of a central detection unit which actively draws air through a network of pipes to detect smoke where highly sensitive rapid and very early smoke detection capability is required. ASD enables fire extinguishing before it can do major damage.

Applications of special hazards systems include : Production Machines, Process Equipment, Electrical Panels, Server / Networking / Switching Racks, UPS Rooms, Warehouses, Industrial Equipment, Gensets and Alternators, CNC Machines, Injection Moulding Machines, Printing Press, Diagnostic Machines, Mobile Tower Switching Areas, Commercial and Heavy Transport Vehicles etc.

To know more of offered systems kindly write to us with your specific requirements.





OUR ESTEEMED CUSTOMERS

We have installations across segments like Chemicals, Breweries, Pharmaceuticals, Automobile, Engineering, Food, Hospitals, Commercial, Residential in domestic as well as international markets.

FIRE PREVENTION AND PROTECTION SYSTEMS

- Garware Polyester Limited
- Garware Industries Limited
- Sterlite Technologies Limited
- Bajaj Auto Limited
- Carlsberg India Private Limited
- Myanmar Carlsberg Pvt. Ltd, Myanmar
- Allied Blenders & Distillers
- Lupin Limited
- Harman Finchem Limited
- Grindwell Norton Limited
- Cosmo Films Limited
- Fainger Leaser
- Benzo Chem Industries Private Limited
- Kasturi Steel Alloys Private Limited
- Vikas Developers
- Tiny Industries Limited
- TATA Chemicals
- TATA Global Beverages Limited
- ITC Limited
- Greaves Cotton Limited
- United Breweries Limited
- ASIA Metal Engineering & Trading, Singapore
- Morya Grain Distilleries Private Limited
- IPCA Laboratories Limited
- Midas-Care Pharmaceuticals Limited
- Baxter (India) Private Limited
- SJS Plastiblends Private Limited
- Align Components Limited
- Radiant Indus Chem Private Limited
- Flexible Abrasive Private Limited
- MIT Hospital, CIDCO
- Jain Gruh Udyog / Ravi Masale

ENGINEERING SERVICES FOR PROCESS INDUSTRY

- Larsen & Toubro Ltd. (now Ultra Tech Cement)
- Ras Al Khaimah Cement Co, UAE
- XL Tech Group (Through MIT), USA
- Kuwait Cement Company, Kuwait
- W2E Projects & Systems, USA
- Sterlite Technologies Limited
- United Breweries Limited
- Nurture Earth R & D Private Limited
- Grindwell Norton Limited
- Dinesh Rathi & Associates

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ISO 9001:2008 Certified

