



A SQUARE FIRE SAFETY SERVICES

(A COMPLETE FIRE SAFETY SOLUTION)

Date:.....

Kind Atten:

SUBJECT: INTRODUCTION AND VENDOR REGISTRATION

Dear Sir,

We would like to introduce ourselves as one of the fastest growing fire safety service organization based at Bharuch, Gujarat, India. Initially it was incorporated in the name of M/s ASN Fire, Safety and Security Services in the year 2008 and reincorporated in the name of M/s A SQUARE FIRE SAFETY SERVICES in the year 2012. We are specialized in number of fire safety services and solutions. We have on board highly qualified and well experienced fire professionals capable of undertaking wide range of fire related activities.

We are undertaking maintenance work of all types of fire extinguishers, fire hydrants/monitors system and other fixed fire fighting installation as and when required or on annual rate contract basis. We are carrying out maintenance work as per the guidelines of National Fire Protection Association (NFPA), USA and other internationally recognized standards.

Our professional trainers are capable of imparting and facilitating fire and safety training programme starting from short duration training (one day) to extensive training programme up to one week. Training programs include theoretical, practical or both as per requirement.

Our company also caters to skilled manpower supply in different areas like fire, safety and security. We will provide the best professional services in all three fields i.e. fire, safety and security.

Apart from these we provide a wide range of professional services which includes Fire and Safety Audit, Fire and Explosion Risk Assessments, Computational Evacuation Plan, Computational Fluid Dynamics, Fire Prevention and Protection Plan, Disaster Management Plan, Emergency and Rescue Action Plan, Developing Fire Manual, Fire Management Plan, Evacuation Plan and others, the details of which are listed below.

Beside above we are also involved in designing, consultancy, supply, installation, erection and commissioning of fire fighting system and alarm system.

We help our clients in establishing sound practices in the field of Fire & Safety.

WE WOULD REQUEST YOU TO ENLIST US IN YOUR VENDOR LIST AND SEND US YOUR VALUABLE ENQUIRY.

Soliciting your consideration.

Yours faithfully,

For, A Square Fire Safety Services

Deepak Kumar, Proprietor

MIFireE (UK), GIFireE (UK), GIFireE (India),

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1. FIRE AND SAFETY EQUIPMENT SUPPLY DIVISION:

We believe that fire and safety management is key to manage risk and proper planning and provision of appropriate fire and safety equipments play a pivotal role in combating disaster. Only quality fire and safety items really help in tackling the situation. Keeping the same philosophy, we never compromise quality fire and safety items.

We are introducing ourselves as one of reputed fire and safety equipments supplier not only in Gujarat but all over in India. We are dealing with reputed fire and safety equipments manufacturers from India and Abroad. We are supplying a wide range of fire and safety items which are normally used by each and every industry/factory. We have already mentioned the list of fire and safety equipments with which we are dealing at present in our introductory letter for vendor registration. We are dealing with the equipments of very high standard with the standardization like BIS (Indian standard), EN (European standard), UL (Underwriter laboratories) etc.

We have tie up with the fire and safety equipment manufactures all over the world. As per the requirement of client we can supply the items promptly/without any delay.

Keeping in mind the quality of fire and safety items we have number of qualified technical professionals in our team for monitoring of quality services. These technical professionals are strictly verifying the different parameters of standard as a minimum and beyond that by following the best practice approach in dealing with fire and safety equipments.

We are able to deal following fire safety equipments:

- All types of fire extinguisher ISI marked with certificate. Clean agent fire extinguishers.
- Refilling of all type of fire extinguishers and CO₂ cartridge with refilling test certificates.
- Hydraulic pressure test of all type of fire extinguishers with all test certificates.
- Spare parts of all type of fire extinguishers confirming the respective IS.
- Fire hydrant isolation valve, landing valve and its spares like wheel, bonnet, gland nut, gland bush, spindle rod, spindle disc, hydrant key etc.
- Male and female coupling with ISI mark, lugs, washer etc.
- All types of fire hoses e.g., suction hose, delivery hose, hose reel hose confirming IS etc.
- Fiber and MS hose boxes with its accessories/parts.
- All types of water branches and nozzles e.g., short branch, Long Branch, TP branch, revolving branch etc confirming IS.
- All types of foam branches with or without pick up tube.
- All types of foam generator e.g., high, medium and low expansion.
- Refilling of SCBA set cylinder
- All types of water / foam sprinkler nozzles
- Water/Foam Monitors, mobile water/foam monitors, water/foam monitor nozzles.
- All type of heat resistance suit e.g., single layer, double layer and triple layer suit.
- Overall/dangri, florescent jackets, florescent stickers for fire extinguishers etc.
- All types of small gear like fireman axe, pick axe, spade, shovel, big axe, fire buckets, fire hook.
- All types of fire chemicals e.g., DCP powder, Foam concentrate/compound etc.
- Mobile foam trolley, collecting head, dividing breaching, collecting breaching etc.
- All types of male/female adopters, strainer, rope, ladder etc.
- Safety helmet, fire helmet, safety goggles, safety gloves, ear plug, ear muff, nose mask etc.



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- Safety belt, fall arrestor, life buoy ring, life buoy jackets, face shield etc.
- PVC suit for chemical handling, fire boot, gum boot, full face mask, half face mask etc.
- Portable gas detector, multi gas detector etc.
- Wind socks, portable siren, all types of organic/inorganic cartridge fit for face mask.
- First aid box, artificial respirator, stretcher etc.





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2. FIRE EQUIPMENT/SYSTEM MAINTENANCE DIVISION:

To deal with fire and/or related emergency; fire equipment plays a significant role. Failing non operation of fire equipments in emergency time can be catastrophic. To avoid this situation healthiness of fire fighting equipments is essential. We are pleased to inform you that we expertise in maintenance of all types of fire safety equipments and the maintenance work is carried out as per international standard so that 'fit for use' fire equipments are available at all times.

We take up maintenance of following fire safety equipments:

Non-water-based fire extinguishing system (fixed fire fighting system)

- Inergen system
- FM 200 system
- NN 100 system
- CO₂ flooding system
- Argonite system
- Other clean agent extinguishing system

Water based fire extinguishing system (fixed fire fighting system)

- Deluge valve-based fire protection system
- High velocity water spray system
- Medium velocity water spray system
- Foam flooding system
- Water curtain spray system
- Jumbo curtain system
- Sprinkler system
- Riser system
- Drencher system
- Water mist system
- Fire hydrant system
- Fixed monitors system
- Remote operated monitors

Portable & Mobile firefighting equipment:

- CO₂ cartridge water type extinguishers and HP test
- DCP type extinguishers and HP test
- CO₂ cartridge foam type extinguishers and HP test
- CO₂ type extinguishers
- Clean agent fire extinguishers
- Delivery and suction hose
- All types of hose fittings
- All types of foam branches, inductors and generators
- Portable fire monitors
- All types of fire tenders, fire trucks

Lifesaving rescue equipment

- Self compressed breathing apparatus set
- Escape BA set
- Ambu bag
- Medical oxygen set
- Stretchers



Maintenance

3. FIRE SAFETY TRAINING DIVISION:

Prompt and proper action in case of fire/related emergency is key in dealing with the situation. This can only be achieved through regular and proper training for firefighting personnels as well as other industrial personnel. Proper and suitable use of fire fighting equipments is vital against such type of situations. Training needs are identified and prepare and impart the training in consultation with client management

We take following personnels for the fire fighting training

- Personnel from higher management
- Personnel from middle management
- Personnel from lower management and Staff Level
- Fire Fighting Personnel
- Contract Labour

Following topics, we cover as per requirements of client

- Basic Fire Fighting (Theory & Practical)
- Advance Fire Fighting (Theory & Practical)
- Fire Prevention Technique
- Training on Passive Fire Protection System
- Training on Active Fire Protection System
- Training on Detection and Alarm System
- Training on Emergency Response Plan/Crisis Management Plan
- Training on Pre-Fire and Rescue Plan
- Training on Fire Risk Assessment
- Fire Leadership Training
- Fire Action Plan and Fire Plan
- Fire/Evacuation Plan and Mock Drill
- Fire Command Training
- Fire Fighting System Checking/Maintenance Training
- Comprehensive Training on SCBA Set
- Training on Escape and Rescue
- Training on Fire Ground Operations
- Fire Investigation Techniques





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4. FIRE, SAFETY AND SECURITY MANPOWER CONTRACT DIVISION:

In any industry fire, safety and security manpower play significant role in providing safe working environment. Without qualified and experienced manpower; industry can't think of continuous growth. Failure of any of the above three important wings may paralyze the industry which might cause life and property loss at large.

Working on the same underlying philosophy we are happy to provide technically qualified and experienced personnel in all departments i.e., Fire, Safety and Security.

Fire Fighting Manpower:

Fire and related emergencies can be devastating if prompt and immediate action is not taken by well and experienced fire professionals. In many case studies it has been proved that due to lack of trained and suitable fire personnel's many big fire and related exigencies couldn't be handled properly resulting in heavy human and property loss. Whilst with the technological advancements state of the art fire and safety standards are available but still there is lack of proper effective implementation. Fire related hazards too have increased multifold which need to be considered in the overall planning of Fire & Safety. We provide the best professionally trained personnels from reputed fire training institute all over India i.e., National Fire Academy, Baroda, Indian Institute of Fire Engineering, Nagpur, Institute of fire safety and disaster management, Vadodara, Delhi Institute of fire engineering etc. These training institutes are having well designed fire simulators for practical fire training and very good and experienced lecturers and instructors. We personally screening and conduct physical test and interviews for these fire professionals before sending to the client. We provide fire professionals manpower as fireman, leading fireman, fire driver cum pump operator, fire supervisor and fire officer level.

Depending on client's requirement we can also provide the personnel from very well reputed National Fire Service College, Nagpur professionals, Professionals from CUSAT, Cochin, IPS Academy, Indore, Rajiv Gandhi Technical University, and MP.

Safety Manpower:

Safety plays a significant role in any industry in terms of augmenting business growth and reputation. Now a day's many industries adhere to the latest process safety and design safety management system. Design and process safety is very critical technical issue and most of the industries recruit safety personnels at top and middle management level. At junior level industries look to hire safety professionals from outside agency. We provide well experienced safety professionals at the level of safety steward, safety watch, safety supervisor, Assistant safety officer or safety officers. Normally these safety professionals are having diploma or certificate courses from well recognized institute/university.





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Security Manpower:

Security of man and material of any industry is key to development and growth. Working on this principle each and every industry is having security personnels deputed at important places. We too provide physically fit and qualified personnel.

We are able to provide security personnels at Guard, Supervisor and Officer Level. As per the industry requirement we are able to provide ex-defense or civil personnel.



5. FIRE SAFETY AUDIT DIVISION:

When are fire safety audits normally conducted?

Fire safety audit are undertaken to determine if, at a given point in time, the fire safety system meet, exceed or fall short of set benchmarks. The audit also provides information for determination of options for remedial work or additional activities. Audits may be commissioned on either a voluntary or required basis. Minor audits often required to ensure internal fit outs do not compromise the installed fire detection or suppression system.

Benefits of Fire Safety audit

Fire Safety audit is a management tools to examine fire safety systems against predetermined benchmarks. The benchmark in this case is the code of practice, national legislation and international standards. Fire safety audits are designed to collect information and provide evidence related to the conformance and effectiveness of fire safety systems depending on the type and category of audit. The fire safety audit can serve as an effective tool to identify situation of potential hazard and thus allow corrective or preventive actions.

A fire safety audit helps to ensure that owners and occupiers of industry/building are meeting their responsibilities under the legislation that industry/building are fitted with the correct fire safety installations required by law and that those fire safety installations are maintained in an operational condition.



6. COMPUTATIONAL FIRE EVACUATION MODELLING

Any Fire is devastating in nature in terms of man and material loss. In fire other than direct effect other effects are accessed in terms of radiant heat, release of toxic fumes, smoke and deficiency of oxygen. In any break out of fire, safety of people is the high concern. In case of fire or related emergency safe evacuation of the people of particular industry or building is the prime concern.

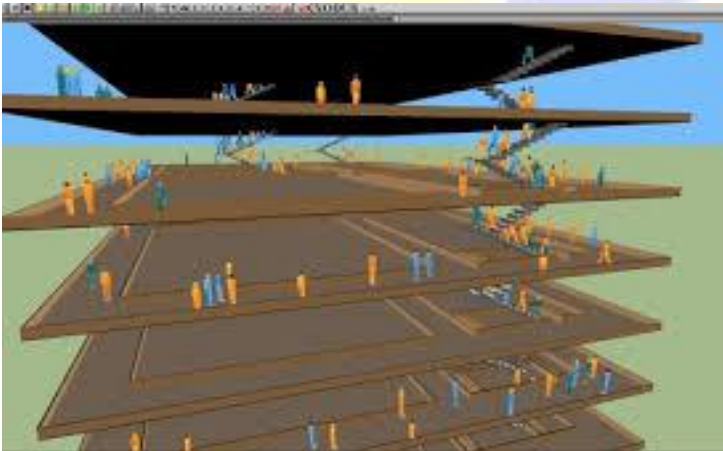
Different types of escape route are designed for the safe evacuation of all the personnels. The design parameters are key for safe evacuation which includes number of exits in line with the occupancy load, dimension of exits, travel distance, refuge area, escape route signs, illumination, staircase etc.

We are expert in making the fire evacuation plan with the help of auto cad which can be displayed wherever it is required so that clear cut instruction can be obtained; how to evacuate in case of fire and related emergency from a particular establishment.

Technology is advanced and computer plays an important role everywhere. Fire evacuation modeling with the help of computer is now quite easy and helpful to understand the safe evacuation at the time of fire.

We are quite handy in making two-dimensional (2D) and three-dimensional (3D) fire evacuation modeling with the help of computer. It can be operated in any computer of a particular establishment which will definitely very much helpful for the safe evacuation understanding.

We are having a professional team of computational fire evacuation modeling with handsome experience in this particular field. I am sure we can be a part of the safety of people in your organization if the chance will be given.



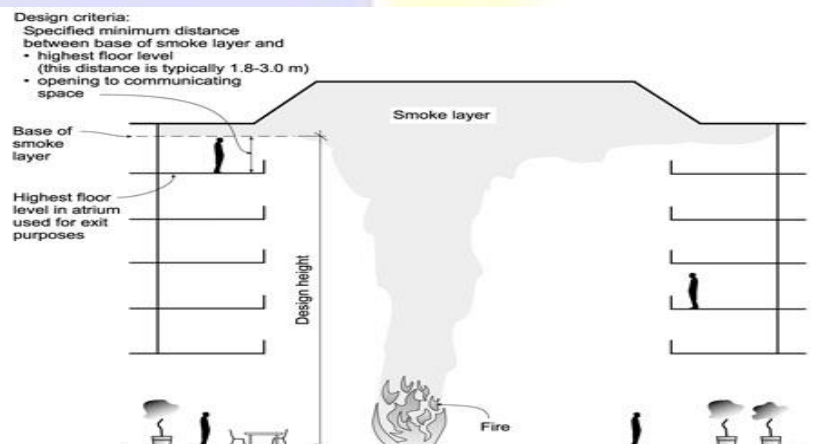
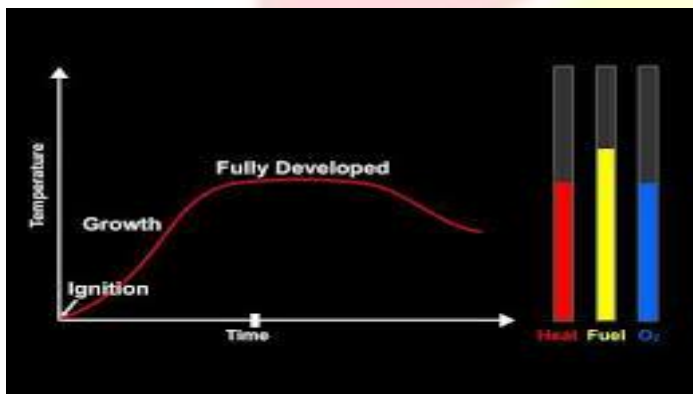
7. COMPUTATIONAL FLUID DYNAMICS

Any incipient fire starts in a small way and if not killed early it can be quite dangerous in later stages. Evolvement of smoke is an integral part of any fire. With the passage of time the evolvement of smoke may increase considerably. Smoke is nothing but unburnt particle which carry lots of radiant heat as well as combination of toxic gases and oxygen deficiency gases. In most fire investigation and forensic investigation, it was found that most of the casualties are due to smoke asphyxiation. Smoke also behaves like heating waves.

Smoke completely depends on the materials which are burning. In today's life even in homes lots of synthetic materials and the materials which on burning emanates toxic smoke. There are many upholstery items which on burning gives out toxic and dense smoke which depletes oxygen quite fast. Spreading of fire is quite depending upon the fire load of an establishment.

With this technology we are able to find the growth of fire with time and development of smoke. We can have effective smoke management plan well in advance.

We have dedicated professionals in this unique field to develop computational fluid dynamics of a particular organization as per their requirement.



8. FIRE RISK ASSESSMENT DIVISION



Good management of fire safety is essential to ensure that fires are unlikely to occur; that if they do occur, they are likely to be controlled or contained quickly, effectively and safely; or that, if a fire does occur and grow, everyone in industries/ premises is able to evacuate to a place of total safety easily and quickly.

The risk assessment that one must carry out will help to ensure that fire safety procedures, fire prevention measures and fire precautions (plans, systems and equipment) are all in place, updated and working properly. The risk assessment will also identify any issues that require attention within the timeframe.

A fire risk assessment is an organized and methodical look at your premises, the activities carried on there and the likelihood that a fire could start and cause harm to those in and around the premises.

The aim of the fire risk assessment is:

- To identify the fire hazards.
- To reduce the risk of those hazards causing harm to as low as reasonably practicable.
- To decide what physical fire precautions and management arrangements are necessary to ensure the safety of people in your industries/premises if a fire does start.
- **Hazard:** anything that has the potential to cause harm.
- **Risk:** The chances of that harm occurring.

A fire risk assessment will help to determine the chances of a fire starting and the dangers from fire that industries/premises present for the people who use them and any other person in the immediate vicinity.





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9. DEVELOPMENT OF FIRE/EMERGENCY PLAN (ON SITE EMERGENCY)

As a facility or organization owner/manager there is a range of responsibilities and legislation that require having a plan to ensure the safety of employees, customers, contractors and others who may be on the site when an emergency occurs. Equally important is the ability of facility/business to react quickly to an emergency, saving time and money in restoring normal business.

The on-site emergency plan is not just an evacuation or fire safety plan. It is a plan which provides safety and security to stakeholders from the time of an adverse impact until business continuity or normal business plan can resume.

With a heightened terrorism potential, it is essential that all organizations consider their existing plans and in particular their emergency plan to include the consideration of an emergency resulting from an act of terrorism or extreme violence.

In many of the cases, organizations may already have an on-site emergency plan. The purpose of this guide is not to rewrite the existing plan immediately, but to provide guidance in assessing the current plan considering all relevant fire and safety hazards and risks into consideration which can have an adverse impact on the organization.

Regardless of whether your organization is going to hire a consultant or prepare the plan in-house, there is a series of steps that should be undertaken.

The State Emergency Management Committee recommends the following five step program as an effective way to complete the planning process:

- Step 1- Form and empower the emergency planning committee
- Step 2- Conduct the risk, capabilities and regulation analysis
- Step 3- Develop plan and procedure
- Step 4- Educate, train and test the plan
- Step 5- Review, Refine and Upgrade

Like most business processes, the process is dynamic and will require review and refinement on a regular basis, however, once established, most organizations will find their on-site emergency plans easily maintained.

The key to effective on-site emergency management is:

- Educating stakeholders
- Training and exercising key personnel
- Maintaining a relevant plan
- Integration into everyday business and business continuity practices

We are having a panel of experts for developing an onsite emergency plan.

10. FIRE PREVENTION PLAN/TECHNIQUES

The goal of fire prevention is to have reliable and adequate fire prevention measures in place and a major part of it is education through an ongoing training program to the staff. This is one of the most effective proactive methods to prevent emergency situation on first hand and if it still occurs it goes a long way in reducing the impact of damage to human life and property. Overall, this should be seen as an integral part of business process.

Importance of fire prevention plan/technique at organizational level:

Fire prevention plan helps to reduce the risks of fire at the work place in the following way: -

1. Fire Prevention Plan helps to identify potentially fire hazardous materials and provides guidance on their proper handling and storage.
2. It distinguishes potential ignition sources and the proper control procedures of materials.
3. The plan describes fire protection equipment and system used to control fire hazards.
4. It identifies personnel's responsible for maintaining those equipments and system installed to prevent and control fire.
5. It highlights the importance of good housekeeping procedures necessary to ensure proper control of accumulated flammable and combustible waste materials to avoid an outbreak of fire.
6. The plan helps in identifying training needs of employees to deal with Fire hazards.

We hereby provide the guidance to prepare practical fire prevention plan and also train personnel on fire prevention techniques to effectively tackle emergency situations.

We are helping out in preparing a comprehensive checklist for the same as a proactive tool.

Fire Prevention Checklist		
Pre-Fire Planning	Yes	No
Plan 2 ways to exit every room in your home.		
Keep exit routes clear.		
Post Fire Department notification numbers.		
Especially For Children		
Make it a rule to never leave young children unattended		
Teach baby sitters first rule of safety in fire emergencies – Get Everyone Out Fast and Don't Go Back.		
Babysitters must know evacuation routes and how to report a fire.		
Good Smoking Habits		
Smoking in bed is strictly prohibited.		
Always make sure all cigarette, cigar, pipe ashes are completely extinguished.		
Before going to bed, make sure no cigarettes are burning.		
Keep matches and lighters out of reach of small children.		
Heating and Cooking		
Furnaces, stoves, smokepipes kept in good repair and located away from combustible walls and ceilings. Fireplace screen for errant sparks is in use.		
Portable space heaters properly maintained/cleaned. Keep away from people, curtains, and furniture.		
Heating system maintenance inspection annually. Cleaning included.		
No loose fitting clothing at sleeves when cooking.		
Stop cooking fires properly. Smother a pan fire with lid. Never use water. Turn down heat when cooking oil smokes. Never dump flour from bag into flame.		
Electricity		
Extension cords never run under rugs or draped over nails. Avoid using extension cords whenever possible, especially small wired cords with high wattage appliance.		
Electrical breakers trip for a reason. Know why. Investigate. Evaluation by licensed electrician. Remove excess appliances from breaker(s) that frequently trip.		
Do you know if your breakers are sized appropriately for your appliances? (ex. 20 amps for lighting circuits)		
Are your electric appliances well ventilated? TVs, PCs, Refrigerator, etc.		
Good Housekeeping		
Keep rubbish cleaned out of attic, basement, closets, garage, yard. Don't store items too close to furnace or heaters.		
Gasoline/flammable liquids stored in safety cans and kept away from heat and children. Do not store in home, rather a storage building. Do not fill hot lawn mower or snow blower with gasoline. Let cool first.		

Source: www.ou.edu/oupd/fireprev.htm

11. THREE TIER EMERGENCY/DISASTER MANAGEMENT PLAN

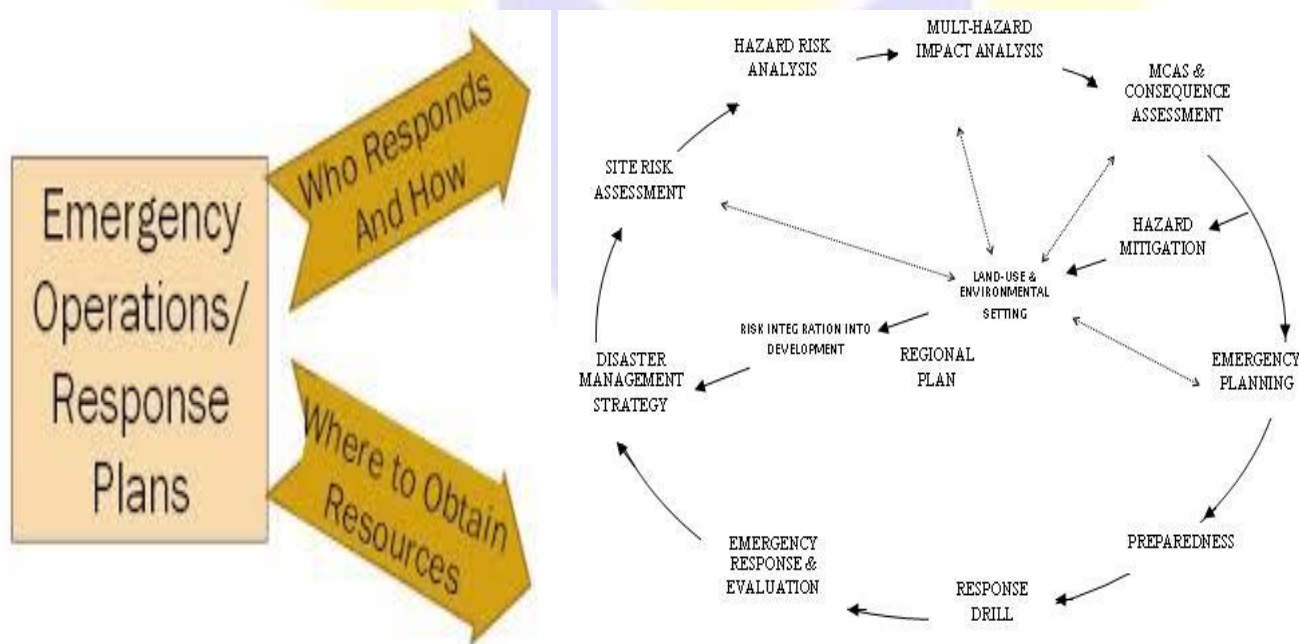
Bhopal incident has brought in sharp focus, aspect of hazards arising out of chemical factories and the severity of damage these hazards can cause to the public around. This has led to widespread alarm and deep concern. Though the management of factories and the authorities has responded to the challenge and has introduced number of measures to minimise and control the hazards, chances of accidents cannot be totally negated.

“Zero Risk” situation does not simply exist. Hence there is a need for preparedness and planning for containing any likely emergency efficiently and quickly to keep the damages to the minimum. The tragic drama that unfolded at Bhopal on that fateful night brought out this stark reality very vividly. The absolute lack of planning and unpreparedness for facing any kind of emergency led to gruesome consequences to the unfortunate city.

The main objectives of the Off-Site Emergency Plan are:

- To provide resources and methods for effective control of emergencies arising out the leakage, explosion and fire due to hazardous materials;
- To prevent emergency turning into a disaster;
- Synchronized action from all the coordinating agencies with least possible delay.
- To minimize damage to the property, people and the environment
- Effective rescue operation and treatment of the casualties;
- To train the people and the concerned to act efficiently and with confidence in an emergency;
- To bring back normalcy in the least possible time;
- To provide authoritative information to the news media and government agencies;
- No panic among the general public. No exploitation or exaggeration of the situation

We are having expertise in preparing comprehensive Disaster management plans with our team of experts.



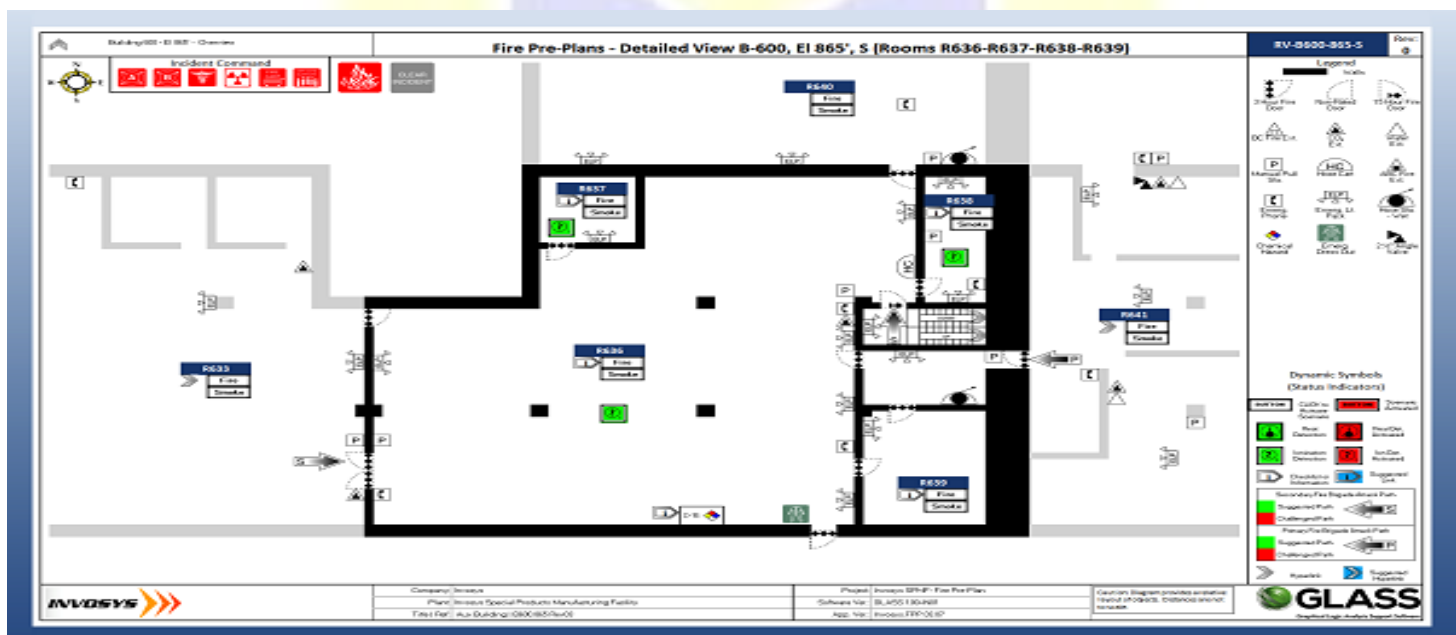
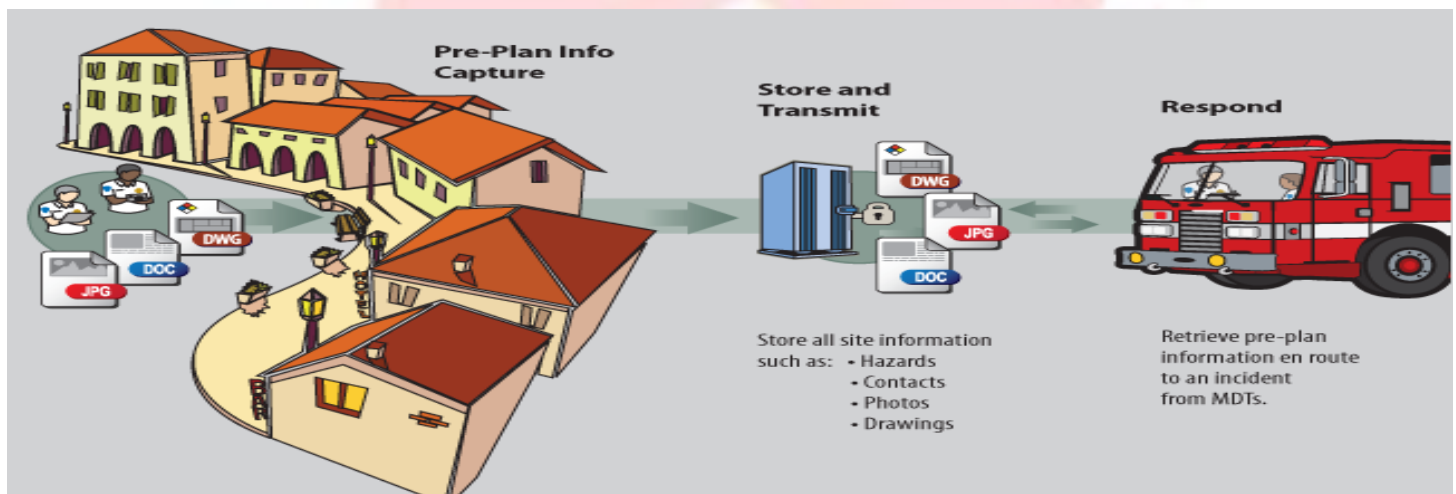
12. DEVELOPING PRE FIRE/EMERGENCY/RESCUE PLAN

Pre-Fire Plan is basically a Pre Action plan to deal with any fire and emergency. Fire Risk Assessment (FRA) need to be carried out which will form the basis of formulation of fire fighting action plan.

By this plan we first identify all probable fire/emergency scenarios which might arise and further develop the combat plan with the right combination of resources including fire and rescue equipments and suitably trained emergency team members.

During mock drill exercises this plan gets implemented and examined and any lacunas noted are further taken up for improvement.

We are helping industries in identifying such probable scenarios to further formulate a combat plan in a coordinated manner, so that fire and rescue team is able to take prompt action to deal with emergency situations.



13. PREPARATION OF FIRE MANUAL

Fire manual is like an ENCLYCOPEDIA for any industrial set up as far as Fire fighting and rescue capabilities are concerned. Basically fire manual covers a wide range of topics including but not limited to possible fire hazards, fire prevention techniques, fire protection facilities comprising of both passive and active fire protection systems, maintenance criteria for these fire protection system and facilities, detail firefighting and rescue team jobs, fire mock drill, evacuation drill, personal fire safety, fire regulation applicable to the particular industry, fire and rescue training, electrical fire safety, fire hazard chemical storage, handling of fire hazardous materials, means of egress/escape.

Our team of experts would help in developing fire manual which is key in overall emergency management and also plays a crucial role in augmenting emergency handling management capability.

It also serves as a useful guide to deal with any fire safety related issues.

Fire manual need to be reviewed in case of major change in plant facilities, operations or revamping of capacity.



14. FIRE ADEQUACY TEST

Fire adequacy test assesses the firefighting capabilities in context of present fire hazards of a particular industry or building premises. Firefighting facilities must be adequate meeting the national and international legislations and laws. Lapse and/or lack of adequate firefighting capabilities can be catastrophic in case of an outbreak of fire.

Many industries and buildings have inadequate firefighting capabilities in terms of fire hazards present.

We carry out assessment as per existing fire hazards in line with the fire regulations and norms and follow the best practices approach.

We offer advice to the industry and building owners regarding fire adequacy.

1	Check the safety against fire in the following ways:			
	▪ Building materials fire resistant?			
	▪ Wall and floor coverings non-combustible?			
	▪ Separation from hazardous areas (e.g. fire doors)?			
	▪ Separation from combustible materials (e.g. paper, fuel)?			
	▪ Smoking restriction?			
	▪ Fire resistant safes (for tapes, disks and documentation)?			
2	Check the appropriate arrangements of fire detection devices:			
	▪ Smoke/ Heat-rise detectors?			
	▪ Detectors located on ceiling and under floor?			
	▪ Detectors located in all key EDP areas?			
	▪ Linked to fire alarm system?			
3	Check the appropriate arrangements for fire fighting:			
	▪ Halon gas system (for key EDP areas)			
	▪ Automatic sprinkler system			
	▪ Portable CO ₂ , extinguishers (electrical fires)			
	▪ Ease of access for fire services			
4	Check appropriate arrangements in case of fire emergency:			
	▪ Fire instructions clearly posted			
	▪ Fire alarm buttons clearly visible			
	▪ Emergency power-off procedures posted			
	▪ Evacuation plan, with assignment of roles and responsibilities			
5	Check if there is training to avoid fire emergency:			
	▪ Regular fire drill and training			
	▪ Regular inspection/testing of all computing equipment			
LII	AIR CONDITIONING			
	Monitoring of temperature and humidity in EDP area			

(12/20)

15. FIRE PROTECTION SYSTEM DESIGN, CONSULTANCY, SUPPLY, INSTALLATION, TESTING, ERECTION AND COMMISSIONING DIVISIONS (WATER BASED)

In any installation whether in industry or building, exposure to fire hazards will still remain. The facility should have appropriate and ready to use firefighting facilities so that in the event of fire or such emergency prompt and effective action can be taken for minimizing the loss due to fire.

Fire protection system plays a significant role in countering such type of situations in any industry or building.

There are various types of fire protection system available. The majority of fire protection system is water based and other is non-water based i.e., mostly clean agent system.

We are taking turnkey projects for design, consultancy, supply, inspection, testing, erection and commissioning of such systems as per requirement. Here is the list of water-based fire protection system:

- i) High Velocity Water Spray System
- ii) Medium Velocity water Spray System
- iii) Water Curtain Spray System
- iv) Sprinkler System mostly for buildings
- v) Water Jumbo Curtain/ Water Shield System
- vi) Fire Water Hydrant System
- vii) Water Riser System
- viii) Fire Water Monitor System
- ix) Drencher System
- x) Water Mist System
- xi) Foam Pourer System mostly for volatile liquid storage
- xii) Fire Water Pump and Water Ring Main



16. FIRE SUPPRESSION SYSTEM DESIGN, CONSULTANCY, SUPPLY, INSTALLATION, TESTING, ERECTION AND COMMISSIONING DIVISION (WITHOUT WATER)

Fire suppression system plays a significant role to control fire in the quickest possible time and minimize loss of human life and property.

In industries and buildings there are many areas where water-based suppression system is not suitable.

Clean agent suppression systems are mostly used in enclosed areas as clean agents work on the principle of depleting oxygen. The electrical and electronic panels, DCS, PLC, computer systems etc. need to be protected with clean agent suppression system.

These systems work on the inhibitory factor of the particular clean agent. We are taking turnkey projects for design, consultancy, supply, inspection, testing, erection and commissioning of such systems as per requirement. Following is some of the clean agents which we design depending on the fire risk:

- i) FM 200
- ii) Inergen
- iii) Argonite
- iv) CO2 extinguishing system
- v) NN 100 (Nitrogen system)
- vi) HCFC-124
- vii) HFC-125
- viii) HFC-227ea
- ix) HFC-23

All the above agents are eco friendly.

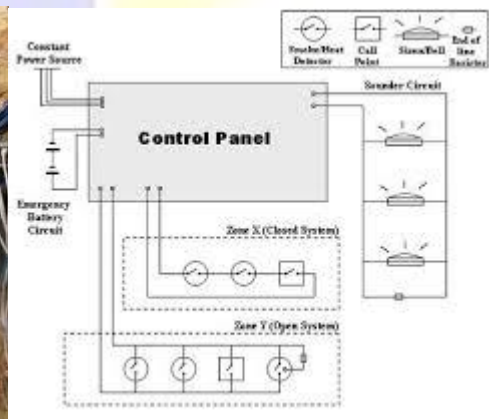


17. FIRE DETECTORS & FIRE ALARM SYSTEM DESIGN, CONSULTANCY, SUPPLY, INSTALLATION, TESTING, ERECTION AND COMMISSIONING DIVISION

A fire detector is a device that detects fire, smoke or gas. Commercial, industrial, and residential buildings have a fire alarm system, while household detectors, known as fire alarms, generally gives out a local audible or visual alarm from the detector itself.

An automatic fire alarm system is designed to detect the unwanted presence of fire by monitoring environmental changes associated with combustion. In general, a fire alarm system is classified as either automatically actuated, manually actuated, or both. Automatic fire alarm systems are intended to notify the building occupants to evacuate in the event of a fire or other emergency, report the event to an off-premises location in order to summon emergency services, and to prepare the structure and associated systems to control the spread of fire and smoke.

We are pleased to inform that depending on the hazard and risk portfolio, we are able to take care projects for design, consultancy, supply, inspection, testing, erection and commissioning for fire alarm system for any building, industry or other premises based on national and international standards. NFPA 72 is referred for this purpose.





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18. TECHNIQUES OF FIRE SAFETY DURING TRANSPORTATION

Fire safety prevention and precautionary measures during transportation of flammable and/or toxic liquid and gases need to be adopted and implemented to prevent or reduce the likelihood of a fire that may result in death, injury, or property damage, alert those in a structure during an uncontrolled fire situation, is seen as an effective tool of survival in case of being trapped in an emergency fire situation and further reduces the damage caused by a fire. Fire safety measures include transportation of hazardous materials having fire/related hazards.

Potential threats to fire safety are referred to as *fire hazards*. A fire hazard may include a situation that increases the likelihood a fire occurring or may impede escape in the event a fire occurs.

Looking at the pace of industrialization, safe handling and management of transportation of hazardous materials is essential in the overall Fire Safety management.

19. DEVELOPMENT OF FIRE SAFETY ACTION PLAN DIVISION

Fire safety action plan is planned action performed by the fire and emergency department. The plan is made for important actions to be taken for the whole year. Fire action plan is a systematic action performed by the fire/emergency department.

The plan includes day to day activities, monthly activities, bimonthly, and quarterly, half yearly and yearly activities in a sequential manner.

Fire equipment maintenance, fire and emergency drills, fire and emergency training, man power deployment, budget preparation etc. forms an integral part of fire safety action plan.

20. DEVELOPMENT OF STANDARD CHECKLIST FORM AND SOPs FOR CHECKING AND MAINTENANCE OF FIRE FIGHTING EQUIPMENTS DIVISION

Firefighting equipments protect human life, assets and environment and is also a critical business continuity tool during an outbreak of a fire. It helps to

have a safe working environment at the workplace. Regular inspection and servicing of the equipment is critical and crucial for safety of the occupants. Daily, weekly, monthly, quarterly and annual inspections are done to ensure the equipment's functionality and maintain all other aspects of fire safety management.

Trained personnel's need to be engaged in checking of firefighting equipment, which is usually provided by the installer, or the installer's agent, or even by a servicing organization. The equipments include a range of fire safety equipments including fire detection and alarm systems; emergency and escape lighting systems; sprinkler systems; fire door automatic release mechanisms; portable fire extinguishers; gaseous, foam and powder extinguishing systems; smoke control systems including systems using pressure differentials; evacuation lifts for persons with disabilities; fire hydrants; hose reels; fire mains; fire doors.

Fire Safety Equipment Maintenance Plans

The Standard plan provides regular round-the-clock maintenance and on call services. The Standard Plus plan, in addition to the services provided in the Standard plan comprises initial service of new fire safety equipments, its disposal, and charges of minor parts and refills. The comprehensive plan covers all the engineers, attendance charges, and services of the Standard Plus plan. However, the charges are not covered in the case of the equipment being damaged by users, or third parties, or natural calamities. Replacement of all major parts is chargeable under all the plans.



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21. MAKING THE STANDARD FOR SELECTION OF FIRE OFFICER/FIRE FIGHTERS

Proper selection of firefighting team is key to managing a professional fire department. Physical standard, professional qualifications, physical test and medical test play an important part while selecting a professional firefighting team.

Each of the parameter is critically examined prior to selection of fire team members. A range of skill-based firefighting trainings is imparted by fire training institutes world over. These trainings include theory as well as practical.

Right from the Head and Leader of a firefighting team to the level of fireman certain professional degrees are awarded.

We would provide professional advice for selecting firefighting professionals at all levels based on international standards.

CLIENT LISTS DIVISIONWISE:

1. HSE STUDIES (HAZOP, HAZID, HAZAN, QRA, WHAT IF ANALYSIS, BOW TIE ANALYSIS, SAFETY INTEGRITY LEVEL CLASSIFICATION & VERIFICATION, SIMOPS, ETC)

- A) ESSAR OIL & GAS LIMITED, DURGAPUR, WEST BENGAL
- B) GREAT EASTERN ENERGY CORPORATION LIMITED, ASANSOL
- C) SARDA MINERAL AND ENERGY LTD, RAIPUR
- D) THE WAXPOL INDUSTRIES LIMITED, RANCHI
- E) CONVERGENCE CHEMICAL LTD, DAHEJ
- F) IOCL DIGBOI REFINERY

2. FF EQUIPEMENTS AND SAFETY EQUIPMEMNTS:

- A) ORDANANCE FACTORY, NALANDA, BIHAR
- B) ESSAR OIL & GAS LIMITED, DURGAPUR, WEST BENGAL
- C) PYRAMID, VILAYAT, BHARUCH, GUJARAT
- D) INDIAN OIL CORP LTD, HALDIA, ABU ROAD, VADINAR, GUJARAT REFINERY

3. FIRE FIGHTING SYSTEMS MAINTENANCE:

- A) ESSAR OIL & GAS LIMITED, DURGAPUR, WEST BENGAL
- B) INDIAN RAILWAYS, BHAVNAGAR, VERAVAL, PORBANDAR, GUJARAT
- C) DEEPAK NITRITE, DAHEJ, GUJARAT
- D) SRF LTD, DAHEJ
- E) IOCL BARODA, RAJKOT, HALDIA
- F) CONVERGENCE CHEMICAL LTD, DAHEJ
- G) IOCL HALDIA REFINERY
- H) IOCL MOURIGRAM, IOCL VADINAR, IOCL ABU ROAD

4. FIRE AND SAFETY TRAINING:

- A) SRF LIMITED, DAHEJ, BHARUCH
- B) LINDE ENGINEERING, DAHEJ, BHARUCH
- C) ESSAR OIL & GAS LIMITED, DURGAPUR, WEST BENGAL
- D) GUJARAT GAS LIMITED, SURAT, GUJARAT
- E) SUN PHARMA, DAHEJ
- F) MILAN LAB, DAHEJ

5. FIRE, SAFETY AND SECURITY MANPOWER:

- A) INDIAN OIL CORPORATION LIMITED, HALDIA, WEST BENGAL
- B) CAIRN INDIA LIMITED, SURAT, GUJARAT
- C) DGEN, DAHEJ, BHARUCH
- D) GSPC LNG, MUNDRA
- E) ADANI SOLAR POWER, MUNDRA
- F) MB POWER, MP
- G) LALITPUR POWER, LALITPUR, UP

6. FIRE AND SAFETY AUDIT:

- A) GUJARAT GAS LIMITED, SURAT
- B) DEEPAK NITRITE LTD, BHARUCH
- C) SARDA MINERAL AND ENERGY LTD
- D) ULTRATECH CEMENT, GUJARAT, PATNA, MP
- E) GINNI FILAMENTS, MATHURA
- F) MILAN LAB, DAHEJ
- G) MAHARSTRA POWER GENERATION COMPANY, CHANDRAPUR
- H) ALKYL AMIN LTD, DAHEJ, BHARUCH
- I) BIRLA GRASIM (EPOXY DIV), BHARUCH
- J) ULTRATECH CEMENT, DHAR, MP
- K) MEGHMANI FINE CHEM LTD, BHARUCH
- L) ULTRATECH CEMENT, PATLIPUTRA

7. ELCTRICAL SAFETY AND ENERGY AUDIT:

- A) JINDAL POWER LIMITED, TAMNAR
- B) ABHIJIT POWER, RANCHI
- C) ADHUNIK POWER, JAMSHEDPUR
- D) THE WAXPOL INDUSTRIES LIMITED, RANCHI

8. FIRE AND EXPLOSION RISK ASSESSMENT:

- A) INSECTICIDES LIMITED, DAHEJ
- B) SKS STEEL AND POWER, RAIPUR, CH
- C) CONVERGENCE CHEMICAL, DAHEJ
- D) BHARAT RASAYAN, DAHEJ, BHARUCH, GUJARAT

9. FIRE LOAD CALCULATION:

- A) INCECTICIDES LIMITED, DAHEJ
- B) CONVERGENCE CHEMICAL, DAHEJ
- C) DEEPAK NITRITE, DAHEJ, BHARUCH, GUJARAT

10. FIRE PROTECTION SYSTEM DESIGN, CONSULTANCY, SUPPLY, INSTALLATION, TESTING, ERECTION AND COMMISSIONING DIVISIONS (WATER BASED)

- A) NDPL, NEW DELHI
- B) ABB, NEW DELHI
- C) SKS STEEL AND POWER, RAIPUR, CH
- D) KRIBHCO, SHAHJAHAPUR
- E) BSES, NEW DELHI



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- F) L & T, PANIPAT, HARYANA
- G) GRASIM LTD, ADITYA BIRLA GROUP, BHARUCH, GUJARAT
- H) ANAS GREEN ENVIRONMENT PVT LTD, DAHEJ
- I) ESSAR OIL LTD, DURGAPUR

11. FIRE SUPPRESSION SYSTEM DESIGN, CONSULTANCY, SUPPLY, INSTALLATION, TESTING, ERECTION AND COMMISSIONING DIVISION (WITHOUT WATER)

- A) SKS STEEL AND POWER, RAIPUR, CH
- B) L & T, PANIPAT, HARYANA
- C) BSES, NEW DELHI
- D) SAURER TEXTILES, BARODA
- E) ESSAR OIL LTD, DURGAPUR

12. FIRE DETECTORS & FIRE ALARM SYSTEM DESIGN, CONSULTANCY, SUPPLY, INSTALLATION, TESTING, ERECTION AND COMMISSIONING DIVISION

- A) L & T, RAJPURA, PUNJAB
- B) MARUTI, GURGAON, HARYANA
- C) SKS STEEL AND POWER, RAIPUR, CH
- D) SAURER TEXTILES, BARODA
- E) ANAS ENVIRO, DAHEJ
- F) ESSAR OIL LTD, DURGAPUR
- G) ADITYA BIRLA, DAHEJ ROAD, BHARUCH

13. FIRE SAFETY MANAGEMENT CONSULTANCY:

- A) INSECTICIDES LIMITED, DAHEJ, GUJARAT
- B) FOSROC, ANKLESHWAR, GUJARAT
- C) THE WAXPOL INDUSTRIES LIMITED, RANCHI

COLLABORATIONS

M/s BAVISHA ENTERPRISES & M/s SHREYA ENTERPRISES, BHARUCH, GUJARAT FOR ERECTION AND COMMISSIONING OF FIRE FIGHTING SYSTEMS, BHARUCH
M/s ORTUS, BHARUCH FOR CIVIL RELATED WORK

M/s PANKAJ V PARAKHIYA FIRE SYSTEM DESIGN CONSULTANT, AHMEDABAD

FIRE AND SAFETY MANAGEMENT CONSULTANCY, AUDIT, TRAINING TEAM

SAFETY TEAM:

MR K K GUPTA – Ex EXECUTIVE DIRECTOR (HSE), IOCL
MR DINKAR PANDIT- Ex EXECUTIVE DIRECTOR (HSE), IOCL
MR SUNIL SABBARWAL (IIT Kanpur) – Ex DIRECTOR, M/s MOTT MACDONALD
MR VENKTESH TAKLIKAR- DGFASLI APPROVED AUDITOR
MR DEEP KUMAR, BE (CHEMICAL)- QRA, SIL AND HAZOP EXPERT



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MR CHANDRAKANT B MISTRY, DIRECTOR (PROJECTS & OPERATION-ASFSS)- PDIS, EX BIRLA, GFL, MFL DAHEJ HEAD HSE, PROCESS SAFETY EXPERT HAVING MORE THAN FORTY YEARS OF EXP

FIRE TEAM:

ABHAY PURANDARE- BE (ELECTRONICS), MSc (FIRE PROTECTION ENGG, UNIV OF MARYLAND, USA) FIFireE (UK), MIFireE (UK), GIFireE (UK) WITH MORE THAN THIRTY-ONE YEARS OF EXPERIENCE

DEEPAK KUMAR- MBA (DISASTER MGT,) MIFireE (UK), GIFireE (UK), SO (NFSC) WITH TWENTY-SEVEN YEARS OF EXPERIENCE WITH EXPOSURE AT GULF

VINOD KUMAR- GIFireE (UK), SO (NFSC) WITH OVER TWENTY-SEVEN YEARS OF EXPERIENCE AT GULF, LYBIYA

MR ROY- BE (ELECTRONICS), GIFireE (INDIA) WITH OVER TWENTY-FIVE YEARS OF EXPERIENCE

LEGAL DOCUMENTS:

PAN NO – AIDPP6695D

PF NUMBER – GJ/SR/BRH/85445

GST NO – 24AIDPP6695D1Z3

ESIC NO – 38000440270001099

IMPORT EXPORT NO (IEC) – 3414002809

MSME NO- UDYAM-GJ-06-0002601

COMPANY DETAILS:

NAME OF THE COMPANY: A SQUARE FIRE SAFETY SERVICES

YEAR OF FIRST INCORPORATION: 2008 IN THE NAME OF M/s ASN FIRE, SAFETY AND SECURITY SERVICES

YEAR OF REINCORPORATION: JAN 2013 AS M/s A SQUARE FIRE SAFETY SERVICES

NATURE OF COMPANY: PROPRIETORSHIP

NAME OF THE PROPRIETOR/DIRECTOR: DEEPAK KUMAR

ADDRESS: A-1/61, NARAYAN GARDENS, DAHEJ BY PASS ROAD, BHARUCH-392001, GUJARAT

CONTACT NUMBERS: 08866555788, 09426249380

BRANCH OFFICES: MR PRABHAKAR KUMAR, RANCHI, M- 09334906870

VADODARA OFFICE: MR CHANDRAKANT B MISTRY, M- 09924040534