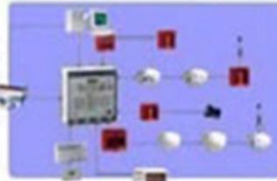




FIRE SAFETY ON,  
ACCIDENTS GONE.



مؤسسة امداد الذهبية لمعدات السلامة  
Golden Amdad Safety Est.



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## **Scope of Works**

- All Types of Extinguishers Like HP/CO<sub>2</sub>,LP/CO<sub>2</sub>, Dry Chemical Powder, Foam, Water and wet Chemical, FM-200,NOVEK- 1230
- All Types of Fire Hydrants
- Sprinkler Systems
- Water mist systems
- FM 200 Suppression System
- Gas Detection System
- Wet Chemical Suppression System
- Fire Alarm System Fire (Addressable Conventional)
- Fire Fighting Pumps
  - a) End Suction Centrifugal Jokey Pump
  - b) Horizontal Split Case Pump
  - c) Vertical Tribune Pump
  - d) Vertical Multistage Centrifugal Jockey Pump
  - e) Degenerative Turbine Jockey Pump
- Industrial Safety
- Emergency Lighting System

We undertake the following Services which mostly come as package deal

- Hazard analysis and System design as per your specific requirement
- Installation of the systems we supply
- Testing and commissioning of the systems we install

## DRY CHEMICAL POWDER EXTINGUISHERS

### FEATURES

ABC or multipurpose fire extinguishers utilize a specially fluidized and siliconized mono ammonium phosphate dry chemical. Simple to operate with squeeze operation, dry powder extinguishers are ideal for volatile liquids class ABC & E fires. Highly effective against petrol and volatile liquids which makes them ideal for vehicle protection. A good alrounder makes dry powder and excellent choice for both industrial and domestic premises.



### AVAILABILITY

Portable extinguishers 1 kg, 2 kg, 4.5 kg, 6 kg, 10 kg and 12 kg. Mobile extinguishers with single cylinder trolley type-25 kg, 50 kg, 75 kg, 100 kg and 150 kg.



Supply of complete range of fire extinguishers and spare parts UL listed FM approved, kite marked, british statndared CE, EN imported from USA , Europe, Middle East and China.



SERVICES Refilling at our workshop, Pressure testing, Maintenance Re-powder coating, pick and drop.

## CO<sub>2</sub> EXTINGUISHERS

### FEATURES

Seamless steel body high gloss polyester paint finish, Safety valves for maximum safety, Snow horns with built in nozzle helps for fast fire suppression. Supplied complete with wall hanging bracket. Controllable discharge, which allows optimal use of the fire extinguisher. Easy to use and simple to maintain.



### APPLICATIONS

Carbon dioxide is gas, which reduces temperatures and oxygen to quickly smother flames and suffocate fire. Co<sub>2</sub> extinguishers are suitable for food storage, Chemical plants, Laboratories, fire caused by liquid such as oils, fats, solvents etc. Co<sub>2</sub> is electrically non conductive and there for safe for electrical hazards.

### AVAILABILITY

Portable extinguishers – 4.5 kg, 6 kg, 10 kg and mobile

### SERVICES

Refilling at our workshop, Pressure testing, Maintenance, Re-powdering, Pick and Drop.



## **CO2 HIGH PRESSURE (HP) & LOW PRESSURE (LP) SYSTEMS**

CO2 system specializes in the manufacturing of low pressure and high pressure systems.

### **CO2 HIGH PRESSURE**

The high pressure Co2 fire extinguishing system is a total flooding system designed. For machinery spaces category engine rooms, pump rooms and cargo holds. It has been supplied to hundreds of vessels and offshore installations world wide.

### **APPLICATION**

The typical hazards protected by Carbon dioxide systems are :-

Flammable liquid storage, chemical laboratories, Transformer vaults, oil circuit breakers, hydraulic oil cellers, Gas turbuinesm storage vaults etc. It's pressure using in some hazards from 800 psi

### **CO2 HIGH PRESSURE**



### **ADVANTAGES OF CO2 HIGH PRESSURE**

Co2 is standard commercial product that is commonly used for carbonated beverages, for first freezing food, for medical purpose, for purging pipes and tanks as well as for extinguishing fires. It is readily available in most cities and seaports throughout the world. The NFPA standard for fire extinguishing system was initiated in 1928 was first adopted in 1929. It has been revised approximately 26 times since, and represents the accumulated knowledge and experience of those who have designed and used Co2 systems for the fire extinguishing process.

## CO2 LOW PRESSURE SYSTEMS

Low pressure Co2 system are specializes fire suppression system designed to maintain the carbon dioxide supply at 0<sup>of</sup> and 300 psi in an insulated, refrigerated pressure storage unit. These storage units contains the amount of CO2 required to stop fire.

Low pressure co2 system are factory manual approved to meet all present coads and Standards.

### CO2 Low pressure storage unit

Our low pressure CO2 system is stored mostly as liquid at approximately 300 psi and 0<sup>o</sup>. It is maintained at this pressure and temperature by mechanical refrigeration. When needed, operation of the refrigeration system cools and condense CO2 vapor in the vapor space of the unit thus converting it to liquid and reducing the pressure. The storage unit is very well insulated, keeping to a minimum the heat transfer to the Co2 from the warmer ambient air of the storage location. It stored as a liquid at an ambient temperature of 70°F(21<sup>o</sup>C) carbon dioxide has a vapor pressure of approximately 850 psi.

## CO2 LOW PRESSURE SYSTEMS



### Advantages of low pressure CO2

Effective :- Low pressure CO2 is effective on a wide range of flammable and combustible materials in both surface and deep seated fires, which adds up to greater uniformity and predictability.

Fast:- Carbon dioxide is a colorless and odorless 3 dimensional clean agent. Within seconds, it penetrates the entire hazard area to smother combustion.

Non-damaging:- CO2 is normally harmless to equipment, materials and property. It does not cause spoilage, requires no clean up and leaves no residue, thus minimizing downtime after a fire.

Non-conductive :- CO2 does not conduct electricity and is three dimensional.



## **FOAM EXTINGUISHERS- (AFFF)**

### **FEATURES**

Manufactured using special cold rolled steel sheet with automatic Argon/Co2 welding process. Each extinguisher is internally coated with PVC resin using whirl-sintering process and externally with polyester powder electrostatic paint finish for maximum corrosion resistance. Safety valves are provided for release of excess pressure. Fire extinguishers are having controllable discharge for optimal usage.

### **APPLICATIONS**

Foam Extinguishers are ideal for both A&B class fire risks. Aqueous Film Foaming Foam is particularly suited to class B caused by petrol, oils, fats, paints, tar etc. AFFF seals the burning surface against re-ignition. It is non-conductive and cannot be used for electrical fires.

### **AVAILABILITY**

Portable Extinguishers - 2 Ltr, 6 Ltr, 10 Ltr

Mobile Extinguishers with single cylinder – 25 Ltr, 50 Ltr, 100 Ltr

Mobile foam units, foam trailers.

Supply of complete range of fire extinguishers and spare parts UL listed FM approved, kite marked, British Standard CE, EN imported from USA, Europe, Middle East and China.





## SERVICES

Refilling at our workshop, Pressure testing, Maintenance Re-powder coating, pick and drop.

## WATER EXTINGUISHERS

### FEATURES

Manufactured using special cold rolled steel sheet with automatic Argon/Co2 welding process. Each extinguisher is internally coated with PVC resin using whirl-sintering process and externally with polyester powder electrostatic paint finish for maximum corrosion resistance. Safety valves are provided for release of excess pressure. Fire extinguishers are having controllable discharge for optimal usage.



### APPLICATIONS

Water is an effective agent against class A fires. It is conductive and cannot be used for electrical fires.



### AVAILABILITY

Portable Extinguishers -92 Ltr,106 Ltr,12 Ltr

Mobile Extinguishers – 25 Ltr, 50 Ltr, 100 Ltr

Supply of complete range of fire extinguishers and spare parts UL listed FM approved, kite marked, British Standard CE, EN imported from USA , Europe, Middle East and China.



## SERVICES

Refilling at automatic plant, Pressure testing, Maintenance, pick and drop.

## ADDRESSABLE FIRE ALARM SYSTEM

Beams sensors are suitable for large open areas where installations may be difficult or uneconomical. These detectors come in pairs, one of which emits an infrared beam, detected by the other unit. If the beam is broken by smoke, the sensor is triggered.

Marine ONYX system from Notifier by Honeywell are fire alarm systems designed for a range of marine applications. The systems provide fast, effective fire protection fit for virtually any nautical environment, including oil platforms, luxury yachts, support craft and ships. The system features added protection against airborne particulates, moisture and electrical RF (radio frequency) interference commonly found in harsh marine environments. Which built is scalability, the systems can be used for basic applications to complex installations requiring large numbers of devices. Flexible programming capabilities enable customization of fire protection to accommodate the special needs of various marine applications.



The S-Quad combines a sounder and strobe within a sensor which not only reduces the number of individual devices you have to install, but also provides an even cover of sound and light throughout a building.

An addressable call point with a response time less than 1 Second.

Versions:-

1. Resettable or break glass
2. Lift up covers
3. Key switch
4. Lp 55 rated – when fitted with cover and surface box.

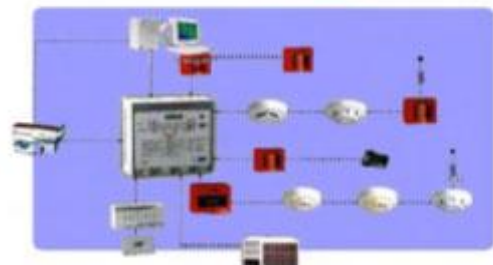
### SERRVICES

Installation of addressable systems, cabling, conducting, programming of addressable systems, interlink with other systems, commissioning and testing, maintenance, annual and quarterly service contracts.

### CONVENTIONAL FIRE DETECTION AND ALARM SYSTEM

A Conventional system employs one or more initiating circuits, connected to sensors wired in parallel. These sensors are devised to decrease the circuits resistance when the environmental influence or any sensor exceeds a predetermined threshold. In conventional system the information density is limited to the number of such circuit used. At times a floor plan of the building is often placed near the main entrance with the defined zones drawn up and LED's indicating whether a particular circuit / zone has been activated. Another common method is to have the different zones listed in a column, with an LED to the left each zone name.

For larger applications a 12-24 zone conventional panels are available. This panel complies with BS 5839 and includes facilities such as one man zone test, bomb alert and zoned or two stage alarm output as required.



The S-Cubed range of alarm sounders incorporate sound, speech and strobe effects all in one range of alarm devices . The range offers all variants in the choice of 2 color- Red or white, with either a shallow base version sealed to Ip31 or a deep base version sealed to Ip 55. All the low profile sounders have the option of an integral strobe.

### Smoke Detector

Optical smoke detectors are ideal at detecting visually smoky fires which are likely to be slow, smouldering fires. ABS casing with red LED fire indicator. Optical beam smoke detectors are suitable for open areas where installation of single point detectors may be difficult or uneconomical. Beam detectors can be installed with separate transmitter and receiver or combined transceiver unit and reflector.

### Heat Detector

Heat detectors respond to changes in temperature and are better suited to smoky, dusty or steamy environments than smoke detectors. A comprehensive range of fixed, high temperature and rate of rise devices are available, making the range suitable for areas where the temperature fluctuates for natural reasons or due to certain industrial process.

### Manual Call Point

Manual call points are manufactured from ABS with plastic converted push break glasses for safe And simple operation. No hammer is required. A poly carbonate cover version is available for applications susceptible for inadvertent operation, such as sports halls.

### Services

Installation of conventional systems, cabling, conducting, interlink with other systems, testing commissioning, maintenance, annually service Contracts.



## **FIRE HOSES**

### **RUBBER LINE FIRE HOSE**

Rubber lined fire hose A are most popular fire hose. It is used by highly experienced fire fighters for decades due to the superb advantages. These type of hoses offer RRL technology and ensures that the hoses are fabric re inforced rubber-lined (RRL) which gives an additional textile reinforcement in the hoses which is very similar to double jacked hose.

The jacket and the reinforcement of the hose which is predominantly cotton has excellent heat resistance property and, being a natural fiber the hose jacket has a very good grip for the fire fighting during the operations.

#### **SINGLE JACKET FIRE HOSE**

Availability of colors – White, Red

Standard lengths – 23 M (75 ft) 30M (100 ft) 60 M (200 ft)

Applicable Standards – BS 63891 Type 1, DIN 14811

#### **DOUBLE JACKET FIRE HOSE**

Availability of colors – White, Red (Uncoated), Yellow, Red with polyurethane coating

Standard lengths – 23 M (75 ft) 30M (100 ft) 60 M (200 ft) other lengths are available on request.

#### **SERVICE**

Wire binding of hoses couplings, all related required services are available.



### **FIRE HOSE REEL**

The fire hose reel designing & manufacturing as per BS EN 671-1. The hose has 3 ply with 2 synthetic rubber layers and textile reinforcement. Every unit is hydrostatically tested to 18 bar. It is painted with electrostatic powder coating and oven baked at 180°C.

#### **FIRE HOSE REEL LOCATION OF INSTALL**

Fire hose reels are located at strategic places in buildings to provide a reasonably accessible and controlled supply of water fire extinguishing.

Fire hose reel consist of pump, pipes, water supply and hose reel located strategically in a building , ensuring proper coverage of water to compact a fire.

The system is manually operated and activated by opening a value inably the water of flow into the hose that is typically 30 mtrs away. The system pressure loss will activate the pump ensuring adequate water flow and pressure to provide a water get of typically a minimum of 10 mtrs from the nozzle.

## FIRE HOSE REEL CABINET

### FEATURES

The fire hose reel of 3/4", 1" and 1/2" cabinets are manufactured from electro galvanized steel sheet with folder edges and hose reel plate edges are curled to assure safe handling. Fire hose cabinets are fabricated by metal inert gas welding process followed by good surface preparation before being electro statically painted by using red polyester resin paint to give a hard wearing resistance and finish.

### SERVICES

Autocad drawings, design, installation in high-rise buildings, industries, chemical & gas paints. Special installation with foam solution in chemical & oil process and storage areas. All kind of piping, networking to install the hose reel cabinets. Testing & commissioning, service contracts etc.



## FIRE HOSE CABINET

### FEATURES

Foam/water cabinet /cabinet with fire extinguisher Foam/water cabinet characterised of its high performance for attacking class A, B with in second and it is designed that one person can operate the unit actively. It can be used effectively in gas station, petrochemical plants, warehouse etc.

Standard equipment consist of Fire hose size 2.5" X 100 feet synthetic rubber lined with couplings

Foam branch pipe 2X25 Ltr AFFF 3% foam drums Foam inductor

### FIRE HYDRANT CABINET

Standard equipment consist of 2 nos. fire hose size 2.5" X 100 feet synthetic rubber lined with brass coupling.

Aluminium couplings are available on requirement.

2 nos. hose nozzle 2.5", 1 no. adjustable hydrant wrench 1 no. pin lug spanner wrench and fire axe.

4 nos. 2.5" rubber gasket for hose couplings.

### CABINET WITH FIRE EXTINGUISHER

Most fire extinguisher cabinets come with selectable options. Options include fire rating, tempered glass, decals, locks recessed handles and more. We carry out door and indoor fire extinguisher cabinets in different sizes and materials.

### SERVICES

AutoCAD drawings, designs, installation in high-rise buildings, industries, chemical and gas plants. All kind of piping networking to install the hose reel cabinets. Testing & commissioning, service contractors etc.



## WET/DRY HYDRANTS & POST INDICATORS FIRE HOSE CABINET

### FEATURES

Designed as per AWWA C502, which applies for the wall thickness, loss of head and hose connections plugs. Simple rugged construction and easy to maintain. Break away design to prevent accidents to will be broken upon impact.

Dry barrel designs eliminates damage to the hydrant caused by freezing or corrosion of the upper part. Externally sand blasted for smooth finish, painted red with electrostatic powder coating on the section above ground and double coated with black bituminous paint on the section below the ground.

### SERVICES

Design, installation of wet & dry fire hydrant systems with UPVC, PE, CS, ERW, piping network. All kind of welding and fabrications, testing and commissioning, maintenance, service contract etc.



## LANDING /HYDRANT VALVES

### FIRE HYDRANT VALVES

A range of 65 MM nominal diameter fire hydrant valves is available for both on and off shore use constructed generally with BS5401 standards.

The valves are available in 3 configuration with both flanged and screwed inlets such as Horizontal Right angles and oblique.



## DRY / WET RISER EQUIPMENT

This range of inlet breeching cabinets and valves are designed in accordance with BS 5041 and recommended for use in multi floor buildings up to 60 mtrs high. Buildings exceeding this height are usually protected by a wet rising. A typical system comprises a vertical raiser pipe of 100 mm or 150 mm nominal bore with landing valves fitted on each floor and an inlet breeching at street level. An automatic air release valve is used to release trapped air when the riser is charged with water. After the use the system is manually drained by use of the drain valve on inlet breeching. The valves and inlet breeching are normally enclosed in wire glass fronted cabinets.



Fire Hose - Rack Cab



## SERVICES

Design, installation of wet & dry fire hydrant systems with UPVC, PE, CS, ERW, piping network. All kind of welding and fabrications, testing and commissioning, maintenance, service contract etc.

## DOUBLE FIRE HOSE REEL & HOSE RACK CABINET

### FEATURES

Double Door Fire Hose Cabinet is available to suit prestigious buildings and are available in electrogalvanized steel with various colours powder coated and oven baked.

### SERVICE

Autocad drawings, designs, installation in high-rise buildings, industries, chemical and gas plants. All kind of piping networking to install the hose reels and hose rack cabinets testing and commissioning, service contracts etc.

## EMERGENCY & EXIT LIGHT

- Exit Signs pick a model /Category
- LEC Ultra Energy Efficient Exit signs
- Thermoplastic LED Exit Signs
- Edge Lit Exit Signs
- Cast Aluminium Exit Signs
- Recessed Exit Signs
- Self Luminous Exit Signs
- LED Sign Retrofit-Kits\
- Photo luminescent Exit Signs
- Custom Signs – Other Fire / Emergency
- Wet location Exit Signs / hazardous
- Vandal proof Exit Signs
- Explosion proof Exit Signs
- Exit and emergency light combo
- Emergency light
- Emergency light batteries
- Exit Signs
- Protective cages / Wire Guards
- Photo luminescent Egress System
- Photo Luminescent Paint and bars
- B



signs Tactile

## CO2 SUPPRESSION SYSTEMS

Carbon Dioxide (CO<sub>2</sub>) is an environmentally safe gas that is colorless, odorless, electrically conductive, and efficient as a clean agent fire suppression agent. Carbon dioxide has a high ratio of expansion, which facilitates rapid discharge and allows for 3-dimensional penetration of the entire hazard area quickly. Stored in steel containers as a liquid, carbon dioxide extinguishes a fire by cooling the atmosphere and reducing the oxygen content of the protected area below the point where it can support combustion. It has no residual cleanup associated with its use as a fire suppression agent. Carbon dioxide can be used to protect a wide variety of hazards to fit your industrial and commercial fire protection needs.

CO<sub>2</sub> system specializes in the manufacturing of low pressure and high pressure. CO<sub>2</sub> fire suppression systems offering a complete line of CO<sub>2</sub> and water mist fire suppression systems of the world's power generation industry, automotive industry, steel industry of interesting of hazardous operations.

Our industry leading low pressure CO<sub>2</sub> systems, high pressure CO<sub>2</sub> systems and watermist fire suppression systems are custom designed by our NICET certified engineers to provide a complete design package to meet all federal, state and local codes.

CO<sub>2</sub> is the most widely suppression agent to protect gas turbines with systems installed globally. CO<sub>2</sub> is the most widely suppression agent to protect gas turbines and has a history of effective operation and extinguishment.

### PERFORMANCE

Reducing the oxygen from the normal 21% to below 15% will extinguish most surface fires thus requiring at 34% CO<sub>2</sub> concentration level. Depending upon the application a significant amount of cooling is also provided. Rapid expansion of the snow to gas reduces the ambient process and retard re-ignition.

### IDEAL APPLICATIONS

- Flammable liquid storage area
- Quench tanks
- Spray booths
- Turbine driven generators
- Electrical areas



Dust collectors

Engine rooms

**SERVICES**

Design, agent calculations for hazard area, installation of high pressure piping network threaded and welded, fixing of equipment, testing and commissioning, after sales and service, refilling of CO2 gas etc. CO2 start-up and testing service are also available from our technicians.

**FM 200 SUPPRESSIONS**

FM 200 Fire Suppression is also known as HFC227ea. FM 200 is a waterless fire protection system, it is discharged into the risk within 10 seconds and suppresses the fire immediately.

FM 200 Fire suppressions is a suitable agent for normally occupied spaces. FM 200 Fire suppressions systems are commonly used in :

Data Centers

Common Rooms

Telecommunications facilities

UPS rooms

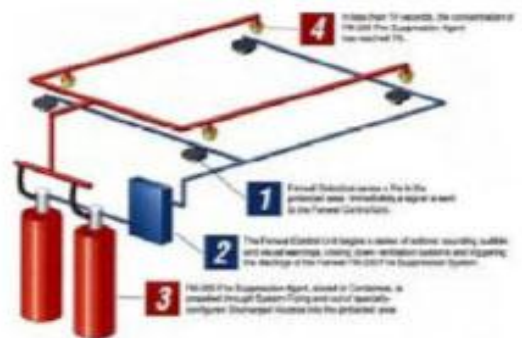
Medical facilities

FM 200 Fire suppression is found as an active compound as a propellant in medical inhalers. This is goes without saying that Fm 200 gas is extremely safe for occupied spaces with the correct fire suppression design.

There is a common misconception that Fm 200 gas reduces oxygen this is not true, FM 200 is synthetic\ chemical fire suppression gas and extinguishers a fire by removing the free radicals or heat elements from the fire triangle- Oxygen, Heat and Fuel.

The typical concentration of an FM 200 system is normally between 7.0% to 8.5%. This concentration is determined by the risk that is being protected and by the OEM (Original Equipment Manufactures) and the ISO 14520 standards for fire suppression systems.

A wide range of sizes are available. It is offering a choice of fill capacities for meet your specific need and ensure maximum in economy of installation in maximizing the use of your floor space.



## SERVICES

Design, agent calculations for hazard area, installation of high pressure piping network threaded and welded, fixing of equipment, testing and commissioning, after sales and services.

## FOAM SYSTEM

### FEATURES

Fixed Foam equipment is used to protect high value assets involving sites where flammable and hazardous materials are stored and processed. Fixed foam equipment comprises of a comprehensive range of foam proportioning and discharge devices used for the protection of the following sites:

- ❖ Fuel/ chemical storage tanks and bunds
- ❖ Refineries and petro chemical installations
- ❖ Airports and helicopter landing areas
- ❖ Chemical process plants
- ❖ Offshore oil rigs
- ❖ Spill fire protections



Foam system consist of the bladder tank, suitable proportioning equipment and the fixes discharge devices or a combination thereof usually being used for the protection of the above risks.

Foam Chamber  
Rim seal pourer  
Foam pourer  
Medium expansion generator  
High expansion generator  
Foam / water monitor



Foam Generator

Pressure Proportioner

## SERVICES

Design, installation of all type of low, medium and high expansion systems with UPVC, PE, CS, ERW, piping network. All kind of welding and fabrications, testing and commissioning, maintenance, service contracts etc.

## **FOAM SYSTEM (B)**

### **PORTABLE FOAM INDUCTOR**

Variable inline foam inductors provide a simple and accurate means of inducing foam concentrate into the water supply. Matched to a complete range of foam branch pipes, the inductors are suitable for accurately proportioning all types of foam concentrate over 1% to 6% range.



### **MEDIUM EXPANSION BRANCE PIPES**

Medium expansion branch pipes are suitable for rapid vapor suppression and fire control over large surface areas. Bulky foam produced helps to cover objects and keep the cool.



### **SERVICES**

Design, installation of all type of low, medium and high expansion systems with UPVC,PE, CS, ERW, piping network, all kind of welding and fabrications, testing and commissioning, maintenance, service contracts etc.

### **LOW EXPANSION BRANCH PIPES**

Foam branch pipes are air aspirating type made of aluminum tube and cast bronze. It is ideal for use all foam types.



## **PUMPS**

Our standard fire pumps sets are manufactured to comply all local civil defense requirements. International standards NFPA 20, LPC and also for customized built in packages. Our standard fire pump set packages are well assembled, supplied and used for fighting applications in various areas including government buildings, ware houses, high rise buildings, factories, residential buildings etc.

Every set shall be designed and selected for it's specific duty, comprising one electric motor drive, one diesel engine driven of stand –by and one jockey pump for maintaining the system pressure. These pumps are controlled and operated by fully automatic. Our pumps are in accordance to ABSI or BS standards. Panels are IEC standards.



## **AVAILABILITY**

The fire pump availability are 120 GPM, 150 GPM, 250 GPM, 500 GPM, 750 GPM etc.

## **SERVICES**

Supply as per calculated water requirement, fixing and installation, coupling of pumps with drive units. Repairing maintenance of pumps , prime movers, rewinding of electric motors, controllers, manual and automation, testing and commissioning etc.



## PUMPS

A fire pump is a part of fire sprinkler system's water supply and powered by electric, diesel or steame. The pump intake is either connected to the public under ground water supply piping or a static water source like tank, reservoir etc.

The sprinkler area calculations are more complicated way to calculate the fire pump size requirements, but they are extremely effective for larger buildings and variety of fire hazards.

Sprinkler hazard calculations are defined as follows:

Light Hazard = Light hazard area contain a low quantity of combustibile materials. Typically churches, hospitals, office building and similar buildings are considered light hazard.

Ordinary Hazard 1 – This area contain a moderate quantity of combustibile materials or have materials stored in 8 foot stockpiles. Examples of such areas may include mechanical rooms, commercial kitchens, laundry facilities etc.

Ordinary Hazard 2 - This area contain materials stored in 12 foot stockpiles. Examples of such areas may include stages large library stack rooms or repaire garages.

EXTRA HAZARD 1 – This places in your building labeled extra hazard 1 contain a large amount of combustibile materials but no flammable liquids, such as aircraft hangers or saw mills.

EXTRA HAZARD 2 – This area also include a large amount of combustibile materials but also contain flammable liquids. These areas may be found in plastic processing plants or anywhere with flammable liquids spraying.

SERVICES



Flow End Suction Centrifugal Pump





Supply as per calculated water requirement, fixing and installation, coupling of pumps with drive units. Repairing maintenance of pumps prime movers, rewinding of electric motors, controllers, manual and automation, testing and commissioning, sales & services etc.

## **EMERGENCY SHOWERS**

Unheated Emergency Safety Shower with additional body spray Available in Galvanized or stainless steel.

Emergency safety with body spray, trace tape heated and pre-insulated. Also available with extra heating model EXP-EJ-5G/10G. Available in galvanized or stainless steel.

Unheated ceiling mounted emergency safety shower with ceiling mounting plate. Available in Galvanized or stainless steel.

15 minute self-contained gravity fed primary Eyewash station. Capable of delivering 60 litres of flushing solution at ambient temperature. Can be wall , table or cart mounted. Incorporates a lockable fill cap to reduce the risk of tempering with the solution. Includes defent water preservative and wall bracket.



## FIRE RESISTANCE DOORS

### CERTIFIED FIRE DOORS

Manufacturers can certify fire doors sets, both for identification purpose and to guarantee their performance in a fire situation. The fire door set constructed and, if it passes, any door set constructed to that specification can be considered for certification. The doorsets identification label is usually affixed to the top edge of the door. A color coated plug may be inserted in to the door, instead of or in addition to the label. For hospitals fire door display a disc at the top of each face of the door showing the designated fire.

### TYPE OF FIRE DOORS

- 30/30 single action door
- 308/30 double action door
- 30/30 double pairs of doors
- 60/60 single action door
- 60/60 double action door
- 60/60 double pairs of doors



### MAINTENANCE OF FIRE DOORS

Fire doors engineered products that provide life and property saving functions in the event of fire. It is important that they are regularly inspected and maintained to permit them to perform at their best on the one and only location when they are called upon so to do.



## FIRE SPRINKLER SYSTEMS

Automatic sprinkler protection has been widely used in a variety of locations. Every sprinkler installation is tailor-made to suit various factors such as features of building construction dimensions of the compartment, fire load of the occupancy, the possible type of fire etc. Designing the sprinkler installation, therefore calls for a thorough understanding of these factors. An installation which has not been properly designed cannot be expected to function in the desired manner.

### SERVICES

It is a mandatory requirement that sprinkler systems are maintained by authorized and approved suppliers to maintain certificates of conformity. Our fire maintenance offers comprehensive service and maintenance to clients' sprinkler systems. The company enjoys a reputation for quality and reliability to the envy of the industry.

Insurance company surveyors often recommend the services of our fire maintenance to their clients where their existing service arrangements are deemed less than adequate.

