

# FIRE FIGHTING & SAFETY EQUIPMENTS

Designing, Installation, Training & Consultancy of  
Fire Alarms, Fire Hydrant, Fire Suppression.



Trained Engineers of Fike, Honey Well, Zeta, Naffco & Armor.



## SAIF FIRE ENGINEERING

(Head Office): B-1, Block-13/D-3, Bagh-e-Mehran, Near Masjid-e-Aqsa,  
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# SAIF FIRE ENGINEERING

## FIRE FIGHTING SKID UNIT



upto  
**1500**  
GPM



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Landhi Office: Office # 2, Qazzafi Town, Manzil Pump, Near Meezan Bank, Main National Hi-way, Bin Qasim,  
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# SAIF FIRE ENGINEERING

## INTRODUCTION

### Welcome to Saif Fire Engineering

Welcome into the official profile of Saif Fire Engineering. We are involved in the services of Order Supplier, Maintenance of all kinds of Fire Extinguishers, Industrial Equipments, Civil Defense Appliances and their Installation. We are pleased to introduce ourselves as one of the leading FPAP 2005:2011 certified fire protection & safety Equipment Company in Pakistan. we are the largest importer & stockiest in the country for fire fighting & safety equipment, fire alarm & detection, suppression systems. our head office is based in Karachi & branch offices/display centers are located in Karachi.

#### *Our Specialized Services*

We are specialized in fire protection & safety of low and high risk industries including Power Plants, Gas Fields & Terminals, Petroleum industries Chemical and Fertilizer Plants. Other industries, we serve are Garments, Textile, Sugar and Transport, Food processing industries.

#### *Company Profile*

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# SAIF FIRE ENGINEERING

## INTRODUCTION



### *About Us*

We Take The Opportunity To Preface Ourselves As One Of The Leading Engineers Running Our Firm In The Name And Style Of SAIF FIRE ENGINEERING. Superfluous To Say That We Are Providing Prompt Services With The Economical Spare Parts Backup We Have Got Ample Experience In Providing / Installation Of Fire Fighting, Safety, Security, Equipment's And Feel Pleasure To Say That The Services Provided By Us In Respect Of Safety And Security To Various Organization And Companies Is Quite Satisfactory And Admirable. There Is No Adverse Report Against Our Performance.

### *Our Services*

We are specialized in fire protection & safety of low and high risk industries including Power Plants, Gas Fields & Terminals, Petroleum industries Chemical and Fertilizer Plants. Other industries, we serve are Garments, Textile, Sugar and Transport, Food processing industries; we also take care of Fire Protection of High Rise Buildings, Clubs & Hotels, Shopping centers, Hospitals, Telecommunication, Commercial Buildings, Banks, Automotive Show rooms, Educational institutes and Mills. We also provide Services to Government's Fire department, Sea ports, Air ports and Armed forces.

### *Training*

We also provide fire fighting and first aid training to industrial staff and workers and where it requires, therefore, they could be able to fight against any emergency, and know how to protect themselves and surroundings while any accident occurs around them.

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# SAIF FIRE ENGINEERING

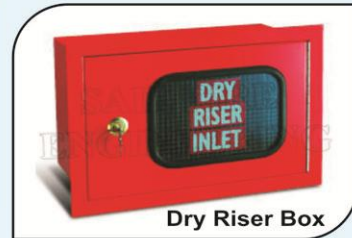
## FIRE HYDRANT SYSTEM



Dry Riser



Dry Riser 2



Dry Riser Box



Dry Riser Inlet 502



Fire Hose Coupling British Type



Fire Hose Delivery Coupling



Fire Hose Reel 1



Fire Hose Reel 2



Fire Hose Reel 3



Fire Hydrant 3



Fire Hydrant Cabinet 1



Fire Hydrant Cabinet 2



Fire Hydrant Valve 1



Fire Hydrant Valve 2

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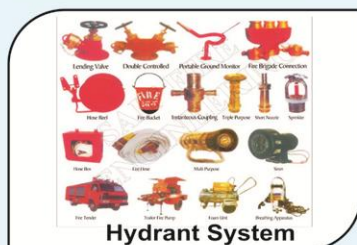
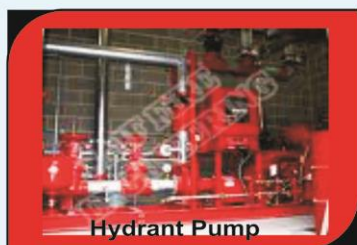
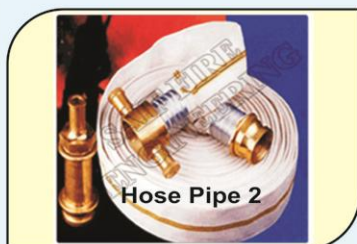
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## FIRE HYDRANT SYSTEM



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# SAIF FIRE ENGINEERING

## FIRE HYDRANT SYSTEM



Mobile  
Foam  
Unit



Monitor  
Foam  
Branch  
Pipe



Nozzle Jet



Nozzle & Branch Pipe



Nozzle



Nozzle 3  
Purpose 1



Nozzle 3  
Purpose 5



Nozzle 15



Pillar  
Hydrant



Sprinkler



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# SAIF FIRE ENGINEERING

## FIRE ALARM SYSTEMS



Sounder



Abort Switch



Addressable Fire Alarm Panel



Bells & Sounder



Beam Detector



Fire Detector 1



Fire Alarm Bell 1



Fire Alarm Bells



Addressable Fire Alarm Panel



Fire Alarm Panel 1



Fire Alarm Panel



Fire Alarm Demo System



Fire Alarm System Spray



Fire Alarm System Hooter



Fire Alarm System Battery



Fire Alarm System 2

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# SAIF FIRE ENGINEERING

## FIRE ALARM SYSTEMS



Fire Alarm  
System Battery



Manual Call Point



Fire Detector



Fire Alarm  
System



Sound with Flasher



Repeater Panel



Heat Detector



Smoke Detector



Remote Indicator



Smoke & Heat  
Detector



Fire Alarm Panel



Fire Alarm  
Demo System



Kitchen Safety Fire  
Smoke Alarm



Fire Alarm  
System



Fire Alarm  
Ceiling System



Fm200 Fire  
Suppression System

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# SAIF FIRE ENGINEERING

## FIRE EXTINGUISHERS



Fire Extinguisher



Fire Extinguisher  
Foam Type



Dry Power  
Fire Extinguisher



DCP Trolley

### DESCRIPTION:

Fire Extinguisher is an active Fire Protection device used to extinguish or control small fires, often in emergency situations.



**Classification:** DRY POWDER TYPE: Standard and Multi Purpose Dry Powder Fire Extinguishers are safe to use on most kinds of Fire, (Class A, B, C). E.g. Fires caused by Petrol, Oil, Fat, Paint, Solvents, Grease, Propane, Butane and Natural Gas, as well as Eleectrical Equipments.



**Classification:** CARBON DI-OXIDE TYPE: Carbon Dioxide Extinguishers contain Carbon Dioxide forced into its liquid state by pressure. This Type of Extinguisher is available in several sizes from 2.5 to 20 pounds (1.1 to 9 Kilo).

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# SAIF FIRE ENGINEERING

## FIRE EXTINGUISHERS



**Water Extinguishers:** are for Class A Fires Only but some times can be used for the class B Fire. (They can not be used on Class C Fire).



**Foam Extinguishers:** Can be used on Class A & B Fires only. They can't be used on Class C Fire. Because of Electric Shock Hazard.



### Defferent Types of Extinguishers:

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# SAIF FIRE ENGINEERING

## CCTV SYSTEMS

### Closed-circuit television camera (CCTV)

**Closed-circuit television (CCTV) cameras** can produce images or recordings for surveillance purposes, and can be either video cameras, or digital still cameras. Marie Van Brittan Brown was the inventor of the CCTV camera.

#### Contents

- 1 Video cameras
  - 1.1 Analogue
  - 1.2 Digital
  - 1.3 Network
- 2 Digital still cameras



CCTV Cameras



Dome Camera

### Video cameras

Video cameras are either analogue or digital, which means that they work on the basis of sending analogue or digital signals to a storage device such as a video tape recorder or desktop computer or laptop computer.

A couple of CS-mount lenses for surveillance cameras. The left one is designed to be hidden behind a wall.



### Analogue

Can record straight to a video tape recorder which are able to record analogue signals as pictures. If the analogue signals are recorded to tape, then the tape must run at a very slow speed in order to operate continuously. This is because in order to allow a three hour tape to run for 24 hours, it must be set to run on a time lapse basis which is usually about four frames a second. In one second, the camera scene can change dramatically. A person for example can have walked a distance of 1 meter, and therefore if the distance is divided into four parts, i.e. four frames or "snapshots" in time, then each frame invariably looks like a blur, unless the subject keeps relatively still.

Analogue signals can also be converted into a digital signal to enable the recordings to be stored on a PC as digital recordings. In that case the analogue video camera must be plugged directly into a video capture card in the computer, and the card then converts the analogue signal to digital. These cards are relatively cheap, but inevitably the resulting digital signals are compressed 5:1 (MPEG compression) in order for the video recordings to be saved on a continuous basis.



China CCTV System DVR

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# SAIF FIRE ENGINEERING

## CCTV SYSTEMS

Another way to store recordings on a non-analogue media is through the use of a digital video recorder (DVR). Such a device is similar in functionality to a PC with a capture card and appropriate video recording software. Unlike PCs, most DVRs designed for CCTV purposes are embedded devices that require less maintenance and simpler setup than a PC-based solution, for a medium to large number of analogue cameras.

Some DVRs also allow digital broadcasting of the video signal, thus acting like a network camera. If a device does allow broadcasting of the video, but does not record it, then it's called a video server. These devices effectively turn any analogue camera (or any analogue video signal) into a network TV.



A traffic surveillance camera in Stockholm, Sweden

### Video Surveillance System 300



### Digital

These cameras do not require a video capture card because they work using a digital signal which can be saved directly to a computer. The signal is compressed 5:1, but DVD quality can be achieved with more compression (MPEG-2 is standard for DVD-video, and has a higher compression ratio than 5:1, with a slightly lower video quality than 5:1 at best, and is adjustable for the amount of space to be taken up versus the quality of picture needed or desired). The highest picture quality of DVD is only slightly lower than the quality of basic 5:1-compression DV. Saving uncompressed digital recordings takes up an enormous amount of hard drive space, and a few hours of uncompressed video could quickly fill up a hard drive. Holiday uncompressed recordings may look fine but one could not run uncompressed quality recordings on a continuous basis.

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# SAIF FIRE ENGINEERING

## CCTV SYSTEMS

detection is therefore sometimes used as a work around solution to record in uncompressed quality. However, in any situation where standard-definition video cameras are used, the quality is going to be poor because the maximum pixel resolution of the image chips in most of these devices is 320,000 pixels (analogue quality is measured in TV lines but the results are the same); they generally capture horizontal and vertical fields of lines and blend them together to make a single frame; the maximum frame rate is normally 30 frames per second.

That said, multi-megapixel IP-CCTV cameras are coming on the market. Still quite expensive, but they can capture video images at resolutions of 1, 2, 3, 5 and even up to 11 Mpix. Unlike with analogue cameras, details such as number plates are easily readable. At 11 Mpix, forensic quality images are made where each hand on a person can be distinguished. Because of the much higher resolutions available with these types of cameras, they can be set up to cover a wide area where normally several analogue cameras would have been needed.



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# SAIF FIRE ENGINEERING

## FIRE & SAFETY ITEMS



First Aid Sign



First Aid



Folding Fire  
Bucket Stand



Gas Mask Half  
Face Double  
Filters



Gas Mask  
Canister



Hand Gloves 1



Hand Gloves 2



Gum Boot



Halotron Fire  
Extinguisher



Hand Operated  
Siren



Helmark 3



Emergency Eye  
Wash Shower

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Mesh Gloves



Mask

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# SAIF FIRE ENGINEERING

## FIRE & SAFETY ITEMS



**Mask 5**



**Mega Phone**



**MES Sign**



**Metal Detector**



**First Aid Kit**



**Nose Mask  
125x125**



**Dust Mask**



**Electric Siren**



**Rechargeable  
Emergency  
Light**



**Rechargeable  
Mini Led  
Emergency  
Light/Torch**



**Respiratory  
Mask**



**Revolving Light**



**Road Safety  
Cone**



**Safety  
Equipment**

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Ph: 021-34330939, Cell: 0333-3051040

**Landhi Office:** Office # 2, Qazzafi Town, Manzil Pump, Near Meezan Bank, Main National Hi-way, Bin Qasim,  
Malir, Karachi-Pakistan, Cell: 0364-4041688, 0332-3720301

**E-mail: saifireengineering@hotmail.com, Web Site: www.saifire.com**





# SAIF FIRE ENGINEERING

## FIRE & SAFETY ITEMS



Safety Harness



Safety Shoes 1



Safety Shoes 2



Safety Shoes 3



Cotton Dangri Overall



Under Vehicle Search Mirror  
CS-M200



Walk Through Metal



Safety Goggles



Safety Mask



Self Breathing Apparatus



Stretcher

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# SAIF FIRE ENGINEERING

## AUTOMATIC FIRE EXTINGUISHERS

### **AUTOMATIC FIRE EXTINGUISHERS 2KG, 4KG, 6KG OR 12KG - POWDER**

Technical data:

Type: Powder fire extinguisher

Weight of extinguishing agent: 2kg, 4kg, 6kg or 12kg

Temperature range: -20°C to 60°C



### **AUTOMATIC FIRE EXTINGUISHING SYSTEM FOR CAR - CAR VIPER**

#### **TECHNICAL INFORMATION:**

- Gas extinguishing agent (Hexafluoropropan) is in permanent enclosed tube situated over the engine.
- Working pressure at 20 ° C is 2.0 bars. there is no risk during transportation and manipulation
- The tube will be opened and started to extinguish protected space during a fire of engine or fire of electric switchboard without any damages.

#### **ADVANTAGES:**

- Easy installation
- No maintenance required
- protects space of your car or electric switchboards against fire

#### **EFFECT:**

- fire extinguishing
- cooling down of space (boiling point of extinguishing agent: -2 °C)
- Quantity of extinguishing agent: 0,5kg
- No corrosive effects on metals, no destructive effects on plastics or damage of electrical equipment
- There is no danger for crews by effects of extinguishing agent (see Safety Data Sheet)
- After the extinguish of fire, is evaporated and there doesn't stay any remains of extinguishing agent as it is with powder fire extinguishers.

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# SAIF FIRE ENGINEERING

## FIRE SUPPRESSION SYSTEM



Fire Detection Sounder 2



Fire Detection Sounder



Fire Detection Panel 4



Aspirating



Fire Dect & Alarm System



Fire Detection Panel



Fire Detection Panel 2



FM 200 Discharge

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# SAIF FIRE ENGINEERING

## FIRE SUPPRESSION SYSTEM



Fire Extinguishers



Flash Point Fire Alarm Systems



Fire Detection Panel 3



FM 200 System



Nozzle



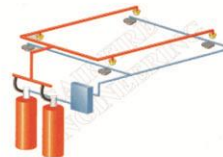
UPS Generator Co2 Application



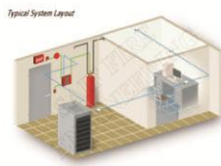
Smoke Detector



Fire Detector



FM 200 System



FM 200 Picture



Manual Call Point



Smoke Detector

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# SAIF FIRE ENGINEERING

## FIRE & SAFETY ITEMS



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Factory: Plot # 1797-6, Muslim Town, Shaheed-e-Millat Road Extn. Off: Shahrah-e-Faisal, Karachi. Ph: 021-34330939, Cell: 0333-3051040

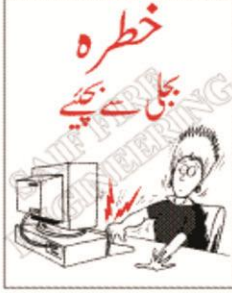
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## FIRE & SAFETY ITEMS



**NO TRUCKS**



**YOUR HEALTH**  
**YOUR SAFETY**  
**YOUR RESPONSIBILITY**



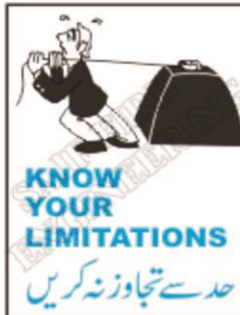
**Men**



**Safety is NO Accident!**  
حفاظت حادثات سے تحفظ



**SAFETY 1st FIRST**



**Ladies**

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# SAIF FIRE ENGINEERING

## FIRE & SAFETY ITEMS



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# SAIF FIRE ENGINEERING

## DOOR LOCK SYSTEM

### FIRE DOORS

**SAIF FIRE DOORS** incorporate the very latest **technological advance** - in terms of both construction and materials.

An extensive range of styles and finishes ensures client requirements are met and exceeded.

While in-house expertise ensures even custom requirements can be met with complete confidence.



SAIF FIRE ENGINEERING

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# SAIF FIRE ENGINEERING

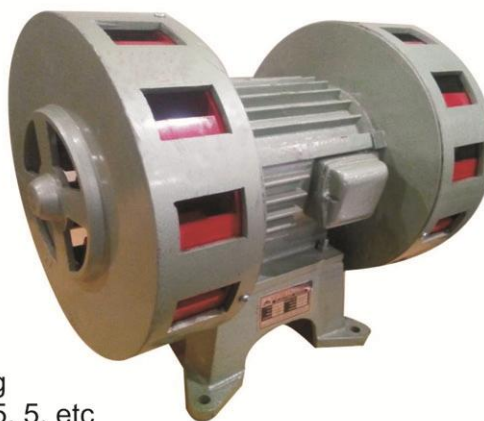
## ELECTRIC SIREN SYSTEM

### ELECTRIC SIREN

Specifications

#### ELECTRICALLY OPERATED HOOTER

Available in vertical or horizontal mounting  
Kilometer range: 0.20, 0.50, 1, 1.5, 2, 3.25, 5, etc  
Single, double or three phase  
Saif Fire Engineering make



We are the manufacturers and traders of wide range of Personal Protective Equipments such as Fire Protection suits, Electrical Hooter & Sirens, Fire Safety Equipments, Fire Hydrant Systems, Different Types of Fire Extinguishers, Fire Alarm Systems, Fire fighting equipments, security products, safety shoes, safety hand gloves, face shields, etc. Our products are available under the brand name Saif Fire.

Our products are used in different segments of industries such as Iron and Steel, Construction, Petrochemicals, Fabrication, Power Plants, Glass, Paper, Mining, etc. Our top priority is to provide quality Fire safety products and services with the utmost efficiency.

Horse Power	:	5
R.P.M.	:	2850
CYCLES	:	50
VOLTS	:	220/440
Phase	:	3
Sound Range	:	up to 5 Km

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# SAIF FIRE ENGINEERING

## TRAINING CENTRE

### ALL ABOUT TRAINING

We and our assets are always at the risk of fire accidents due to lack of fire arrangements and inadequate training of staff in factories, school offices and houses. If we had adopted proper safety measures which can cause any untoward fire incident whether it is minor or major early and quick action is required awareness this is called awareness.

If the staff are not properly trained it creates distress and panic. Saif fire Engineering well know and leading company offers precise and Concise training not only to builds personal and all to national Competency skill levels when helps to save lives help and rescue Training awares you. What to do in case of emergency and provide CPR to Casuality.



### ALL ABOUT TRAINER

Our Training Consultant for training Mr. Sarfaraz H.Jaferi Ex Commandant Civil Defence training school Government of Pakistan Karachi Having 27th Year teaching experience in the field of safety and trained more than 8000 personals.



### FIRE FIGHTING

- \* Introduction to fire
- \* Fire triangle
- \* Combustion
- \* Heat transfer
- \* Use of Extinguisher
- \* Factory / Office fire hazards
- \* Fire Detection System
- \* What to do in case of fire
- \* Fire Prevention hints

### Qualification and trainings

- \* Fireman & Leading Course
- \* Fire Prevention course
- \* Rescue Course
- \* Home Safety in kitchen
- \* Road Safety
- \* Camouflage Course
- \* Casualty Course
- \* First Aid Course
- \* Self Safety including mobile Snatching + on road
- \* Techniques how to protect yourself from robbery
- \* General instructors Course
- \* Warden Service Course



### FIRST AID

- 1, Contents of Fire aid Box
- 2, Introduction to CPR
- 3, Action at an emergency
- 4, Burns & Scalds
- 5, Wounds
- 6, Fracture
- 7, Unconsciousness
- 8, Bandages
- 9, Casualty Handling

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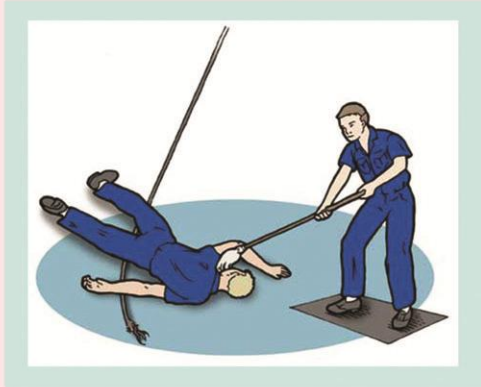
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# SAIF FIRE ENGINEERING

## TRAINING CENTRE

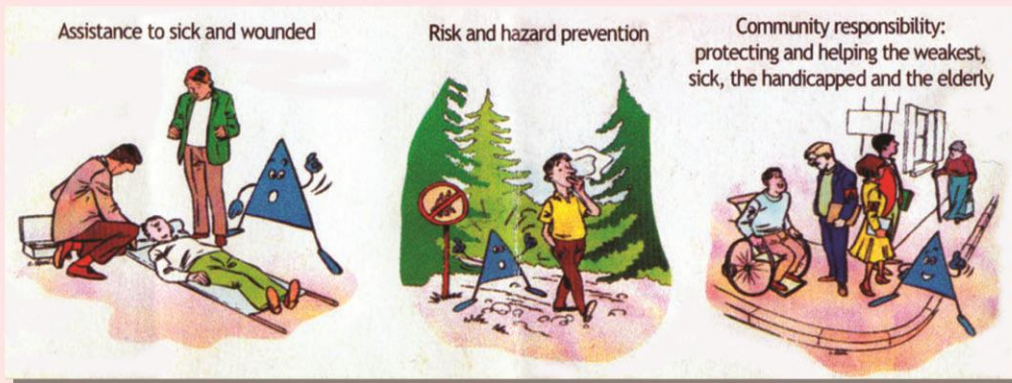


### WE ALSO DEAL IN

- \* All types of fire Extinguisher
- \* All types of PPES
- \* Warning Posters
- \* Safety Signs

### TRAINING SESSION DETAIL

- \* Four hours each training
- \* 3 hours theory and 1 hour practical
- \* Multimedia presentation
- \* Handouts will be distributed
- \* Certificates will be awarded
- \* 25 participants per training batch



### Note:

1. each participant/candidate fee + Registration Rs. 6000/- each.
2. each batch will consist of 25 participants.
3. Senior Participants (50 plus) and students will get 20% discount.

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# SAIF FIRE ENGINEERING

## FIRE FIGHTING & RESCUE VEHICLES

### CONTROL PANEL:

Controls/Gauges at rear of the Vehicle

- Engine throttle control
- Primer control
- Pump pressure gauge 0-25 Bars
- Pump compound gauge (diaphragm type) -1 to +10 Bars
- Tank to pump control
- Hydrant inlet and control valve
- First-Aid hose reel control valve
- Visual Water level indicator
- Visual Foam level indicator
- Foam proportioning control
- Panel lights & switches

### WATER/FOAM MONITOR:

- Type & Model: Suitable for Water/Foam (Details and literature to be provided by the Vendor)
- Construction: Stainless Steel material, fitted with adjustable flow Nozzle.
- Location: Fitted on the on the Vehicle's top
- Performance:
  - 1) Maximum Rotation 360 Degree
  - 2) Maximum Elevation +70 -15 Degree
  - 3) Flow Rate: 950 LPM to 1900 LPM at 5, 7 & 8.5 Bars
  - 4) Throw Range: 45m to 60m (depending upon pressure)

### HOSE REEL:

1 No. Hose Reel fitted with 1" x 100 Ft Hose terminated with a Hand Gun, manual re-winding suitably located.

### BODY WORK:

- The body work is of best quality aluminium sheet panel. The frame shall be constructed from square/rectangular tubing.
- Suction Hoses will be suitably positioned.
- Suitable brackets and clamping devices are provided for the mounting of a 30 ft light alloy extension ladder along the roof.
- Spare wheel shall be suitably fitted.



### EQUIPMENT/ACCESSORIES

S. No.	Description	Quantity
1.	Light Bar with built in PA System	01 No.
2.	Suction Wrenches	02 Nos
3.	30Feet Light Alloy Extension Ladder	01 No.
4.	Search Light mounted on the vehicle	02 Nos.
5.	Suction Hose 4" x 8' with gunmetal coupling	03 Nos.
6.	Copper Suction Strainer	01 No.
7.	Short Branch Pipe fitted with Nozzle Tip	02 Nos.
8.	Basket Strainer with rope	01 No.
9.	Inspection Lamp	01 No.
10.	Fire Man Axe	01 No.
11.	Delivery Hoses Nylon Rubber lined 2 1/2" x 50 feet	04 Nos.
12.	Fire Hook	02 Nos.
13.	Fire Crow bar	01 No.
14.	Standard Tool Kit (Superstructure)	01 No.
15.	First Aid Kit	01 No.
16.	Fire Fighting Turnout Suits	02 Pairs
17.	Long Rubber Boots	02 Pairs
18.	Breathing Apparatus 30 to 45 minutes duration	01 Set



**AMBULANCE**



**WATER MOUZER**

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# SAIF FIRE ENGINEERING

## FIRE FIGHTING & RESCUE VEHICLES



### SPECIFICATION OF FIRE TENDER

#### TRUCK CHASSIS:

4x2, 18 Ton GVW (details and literature to be provided).

#### CREW COMPARTMENT

The Crew Cabin is provided for accommodation of 4 Fire Personnel European Standard Cabin fitted with 04 Nos. SCBA Seats with belts properly installed with leather paneling and interconnected with the Driver's Cabin.

#### LOCKER COMPARTMENT

Locker Compartment for storage of Hoses & other loose Accessories shall be provided at a suitable location.

#### WATER TANK

- a) Capacity:5000 Liters
- b) Material:Mild Steel Sheet of 4mm thick duly sandblasted and Epoxy coated inside & outside.
- c) Suspension:Torsion free duly padded with reinforced rubber 13/19mm.
- d) Manhole:1 No. Quick release hatch type.
- e) Baffles Plates:02 Nos. Detachable.
- f) Connection:i) Tank is filled from a male 2 1/2" instantaneous coupling via 2" bore pipeto the tank or through pump pressure.
- ii) The overflow & breather is of 2" bore designed to minimize water loss and arranged to discharge away from the chassis frame and brake.
- iii) Connection from tank to pump is of 4" bore fitted with 4" butter-fly valve.
- g) Water drainage point:4" Drain plug.
- h) Tank Roof:Non-slip chequered plates

#### FOAM TANK

- a) Capacity:500 Liters
- b) Construction:Integral part of the water tank, constructed from Stainless Steel 3mm thickness and suitable for all types of commercial synthetic and protein foam compounds.
- c) Manhole:1 No. Quick release hatch type with MS Lid and lockable.
- d) Connection:1" Dia water propellant Ball Valve is fitted for foam proportioner.

#### DCP SYSTEM

- a) Capacity:2 x 250 kg DCP Vessels
- b) Propellant:2 x 5 Kg CO<sub>2</sub> Cylinders
- c) Construction:Mild Steel Construction 5/6mm thickness
- d) Hose/Gun:High pressure Hose 1" dia x 50 ft long with discharge gun
- e) Location:Suitably located

#### FIRE PUMP

- a) Make & Model:(To be confirmed by the Vendor)
- b) Type :2-Stage Centrifugal Pump
- c) Material:Bronze Impeller & Stainless Steel Shaft.
- d) Performance:500 GPM at 10 Bar
- e) Drive System:Driven through power divider (vehicle engine)
- f) Suction:4" BSS Threaded with Blank Cap.
- g) Delivery Outlet:2 x 2 1/2" Delivery outlets with female coupling controlled
- h) Location:Rear mounted

#### FOAM PROPORTIONING SYSTEM

- a)Material:Gun Metal
- b)Output:180/240 LPM
- c)Admixing Ratio:0,3, 6 & 8%
- d)Control :Manual
- e)Location:Around-the-pump



(Head Office): B-1, Block-13/D-3, Bagh-e-Mehran, Near Masjid-e-Aqsa, Gulshan-e-Iqbal. Karachi-Pakistan  
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Landhi Office: Office # 2, Qazzafi Town, Manzil Pump, Near Meezan Bank, Main National Hi-way, Bin Qasim,  
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# SAIF FIRE ENGINEERING

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