



SUN INDUSTRIAL SERVICES

(An ISO 9001 : 2008 Certified Company)

About us

We M/s Sun Industrial Services, situated at Chandrapur, Maharashtra are proud to introduce ourselves one of the leading firm engaged in the manufacturing and widerange of fire protection equipment. We serve our customer a hassle free services in the business market.

We are certified with **SSI, NSIC, Maharashtra Fire Services, PESO, Nagpur**

Our policy begins with testing each of our products at every level of manufacturing and provides the most cost effective and complaint free product for total customer satisfaction.

Quality Product : We own a team of experienced personnel that assures for quality of different fire extinguishers. & Fire Fighting System Our personnel keep an eye on production from the very initial stage, processing till the final production. we follow international standards in our industry

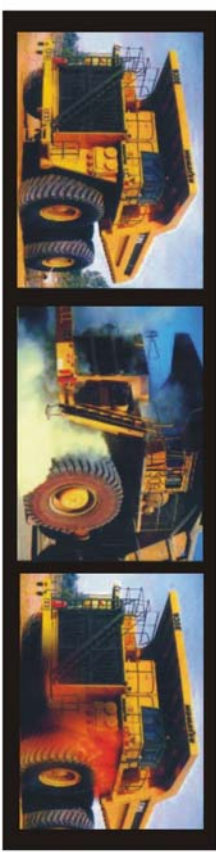
Team Power : We are young and energetic company having highly efficient team and skilled technicians who assist us in forward and backward integration with our clients and raw material suppliers they work efficiently to enhance and amend the quality of our product. Our team members dedicate their priorities towards satisfaction of our customers in this global village

Commented Infrastructure : We are proud to introduce ourselves with impeccable infrastructure We own latest technology and our distribution network is extremely superior or deliver product in time
We also have R&D department whose personnel are constantly engaged in development of fire extinguishers and fire fighting equipments in order to offer you the best quality product.

Vision : We are committed to make better-safer solution, for better world We adopt the ideals of quality, economics, reliability and trust

Devoted - Fields : 1) Manufacturing and Supply (2) Erection and installation. 3) Testing and Commissioning. 4) Fire Fighting Equipment's Turnkey Projects for Fire Protection & Detection System. Fire Alarm & Security Surveillance System (5) Fire Audit, Fire Load Etc.

AUTOMATIC FIRE DETECTION AND SUPPRESSION SYSTEM



NSIC

Designed & Manufactured By



SUN INDUSTRIAL SERVICES

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Works : Plot No. : E-44, M.I.D.C - Chandrapur, Datala Road,
Dist. : Chandrapur - 442 406 (Maharashtra) India
Phone No. : + 91 - 7172 - 287017, + 91 - 7172 - 287018, Fax : + 91 - 7172 - 287018
Email :- sunishq@gmail.com, mk@sunis.in, Website :- www.sunis.in



Introduction

Sun Industrial Services (SUNIS) is one of leading company engaged in the field of Fire Fighting & Safety in Central India.

The System

Vehicle Fire Suppression System (VFSS) is pre-engineered, fixed nozzle system consisting of two major activities: fire detection & fire suppression. In first activity fire is detected with the help of smoke & Heat detectors and the signals are given to the control panel situated in the operator's cabin and alert him by giving siren when actual fire is sensed. In fire suppression there are three major components: a container to store dry chemical extinguishing agent; a manual and/or automatic actuation device to trigger the system fitted to Nitrogen/CO2 cylinder to pressurize and discharge the fire fighting media and a delivery system consisting of Stainless Steel piping fitted with preset nozzles to carry extinguishing media (dry powder) from storage container to the fire place, or all the fire prone area.

The System is applicable for protection of all types of fire i.e. Class A (Wood, paper, Rags, etc.), Class B (Flammable liquid & gases) and Class C (energized electrical equipment) fires.

Where is the System Used-

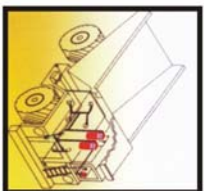
Fixed nozzle system can be used where a fire hazard is either obstructed or inaccessible. Sunis Systems are engineered to eliminate human error and delay. The systems are recommended when involvement of the entire hazard area is likely upon fire ignition and immediately suppression of fire is critical. Sunis System can greatly increase the extinguishing effectiveness of limited fire fighting manpower and reduce the need of high-level fire fighting techniques.

The Advantages-

Remote & Reachable Actuation: Since the system is designed in this manner that operator can manually actuate the system without leaving his seat and therefore no need to go near the actual fire place and take risk of life for extinguishing the fire. The choice of automatic/manual operation is also available. No need to locate the fire: since the multiple nozzles are fitted in such a manner that whenever there is a fire in whatever place in the entire machine/vehicle. The whole machine is flooded & vigorously attacked with the high quality extinguishing media (MAP/AFFF) so that fire will be immediately under control. Low cost: Sunis system are designed in this manner that cost of installation and maintenance is very low as compared to other systems available in the market. Life protection: Sunis fire detection and suppression systems are designed first and foremost to protect human life. They are so designed & installed a fire is suppressed well before it reaches the operator.

Reduce Damage and Down Time: our automatic systems detect and suppress the fire in its earliest stages, before it spreads to highly combustible areas. Thus damages is limited and equipment down time held to minimum, saving a tremendous production loss. After the fire, properly trained people, on the spot without special tools or equipment, can recharge Sunis system. This is important when the systems are frequently used and/or the equipment in remote locations.

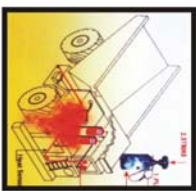
How System Work



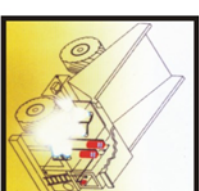
The System Work in This manner



When fire starts, the system can be activated by lowering the manual discharge button of the mechanical actuator fitted on N2/ CO2 expellant gas cartridge



In case of automatic actuation, the Heat detectors will automatically detect the fire. This causes closure of an electrical circuit which energizes the electromechanically actuator. Both manual & automatic actuation cause puncture of N2/CO2 expellant gas cartridge



The expellant N2/CO2 pressurizes and fluidizes the dry chemical extinguishing agent which is then discharged through High Pressure wire braided Hoses, to fixed nozzles

Technical Specification of Material used to form an integrated system of AFDSS

1. Media Storage Container :

Body & Neck ring	Mild Steel/Stainless Steel
Head Cap	Gun Metal/Brass /Mn PSt/
Structure	X ray /Welded
Exterior Finish in case of M.S. Body	Lead Tin Coating /Min. Signal Red Paint
Interior Finish	Tin Coating by electrolytic process
Different Capacity	50 Kgs. / 25 Kgs./ 20 Kgs. / 15 Kgs.
Working Pressure	15 Kg/cm ²
Test Pressure	30 Kg/cm ²
IS Specification	IS - 10656

2. Pressure Cylinder with Actuator:

Body & Neck ring	Mild Steel
Actuator Valve	Gun Metal/ case of Manual System -24 V Solenoid Valve with facility of manual actuating in case
Structure	Seamless
Exterior Finish	Lead Tin Coating /Min. Signal Red Paint
Interior Finish	Tin Coating by electrolytic process
Working Pressure	140 Kg/cm ²
Test Pressure	250 Kg/cm ²
Capacity	3 or 4.5 Kgs.
Filling Ratio (Kg/Ltr)	0.687
IS Specification	IS-2878
Gas	CO ₂ /N ₂

3. Detection System:

Integrated Panel Cum Hooper	SUN INDUSTRIAL SERVICES
Operating Voltage	220 VAC/24 VDC
Detectors	LHSC / Probe Heat Detector Type



Internal Hose Box



Material : Mild Steel Sheet thick 1.5 mm thick
Glass in Front
Size : (a) 750x600x250 For Keeping 02 Nos.
 (b) 600x600x250 For Keeping 01 Nos.
 (c) 450x450x250 For Keeping 01 Nos.
 (d) 900x600x450- For Keeping 01 No.
Landing Valve 02 Nos.
Warranty : 1 Year from the date of supply

Short Branch Pipe



Material : Gun Metal Grade LTB-II & Stainless Steel
Size : 63 mm.
 12 mm to 20 mm dia for ISI marked
Performance Test : Hydraulic Test: 21Kgf/cm²
Approval : ISI marked from Bureau of Indian Standards

Fire Products

Fire Suit



Fire Coupling



Material : Gun Metal LTB-II & Stainless Steel
Size : 63 mm.
Performance Test : Hydraulic Test: 21Kgf/cm²
Approval : ISI marked from Bureau of Indian Standards

Landing Valve



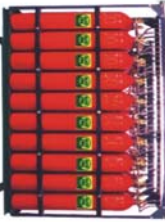
Material : Gun Metal LTB-II & Stainless Steel
Size : 63 mm.
Performance Test : Hydraulic Test: 21Kgf/cm²
 Water tightness 14kgf/cm²
 Flow test : 900 LPM at 7kg/cm²
Approval : ISI marked from Bureau of Indian Standards

Sprinklers



Pendant Sprinklers : Used mainly, where water opening, used for sprinklers in -station is concealed. The sprinklers is mounted in a discharging spray hemispherically.
Conventional sprinklers : Used either in Upright or in pendant. Positions producing a spherical pattern with part of water sprayed towards the ceiling.
Upright sprinklers : Used mainly where the water pipe line is exposed. Mounted only in upright position discharging spray hemispherically.
Sidewall sprinklers : User Mainly where the pipeline run along the wall, sprinklers forms out ward half paraboloid pattern.

Co Flooding System FM 200



Co₂ at atmospheric pressure is a colorless, odorless and electrically conductive inert gas, it has high expansion ratio which facilitates rapid discharge and allows three dimensional quick penetration in the entire hazard area. Made from premium quality components, this system's importance lies in the fact that it has high efficiency to extinguish fire by reducing the oxygen content of the protected area below the point where it can support combustion. It provides a blanket of heavy gas that reduces the oxygen content of the atmosphere to a point where combustion is not sustainable. It provides its own pressure for discharging through Valves, Pipework and Nozzles

Fire Alarm Control Panel



A fire alarm control panel is an electric panel that is the controlling component of a fire alarm system. The panel receives information from environmental sensors designed to detect changes associated with fire, monitors their operational integrity and provides for automatic control of equipment, and transmission of information necessary to prepare the facility for fire based on a predetermined sequence. There are four basic types of panels : coded panels, conventional panels, addressable panels, and multiplex systems. A fire alarm control panel is required under the building code for a majority of new commercial building construction in most countries.

SAFETY PRODUCTS, EQUIPMENTS AND HYDRANT ACCESSORIES



Fire Products

Fire Hose



A fire hose is a high - pressure used to carry water or other fire retardant (such as foam) to a fire to extinguish it. Outdoors, it is attached either to a fire engine or a fire hydrant. Indoors, it can be permanently attached to a building's standpipe or plumbing system.

Approval : ISI marked from Bureau of Indian Standards
Working Pressure : 21Kgf/cm²
Busting Pressure : 33Kgf/cm

Smoke Detector



A smoke detector or Heat Detector is a device that detects smoke, or heat typically as an indicator of fire. Commercial, industrial, and mass residential devices issue a signal to a fire alarm system, while household detectors, known as smoke alarms, generally issue a local audible and/or visual alarm from the detector itself. Most smoke detectors work either by optical detection (photoelectric) or by physical process (ionization), while others use both detection methods to increase sensitivity to smoke.

First Aid Hose Reel



Hose Reel Drum : Confirmed IS-884.
Water Flow rate : 24 lpm.
Jet Length : 6 mts Min
Working Pressure : 7kg/cm²
Test Pressure : 10.5 kg/cm²
Approval : ISI marked from Bureau of Indian Standards
Warranty : 1 year with 30 mtr Rubber Hose

LED, Glow Sign, Radium Plates

