



**PT. NAM INDONESIA**  
*Fire Protection System*

# COMPANY PROFILE

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## 2017/18

Supply, Installation, Service and Support of HDPE pipe and accessories for Portable Water and Water Supply System, Chemical Industry, Food Processing Industry, Oil and Gas and Mining Industry.

We have been helping our industrial manufacturing customers prevent fires in their production facilities, in many diverse processes and industries. Industrial Fire Prevention specializes in helping protect industrial manufacturing processes, pneumatic and mechanical conveying, and dust collection systems from combustible dust fire.

# CONTENTS

Company Overview	01
Background	02
Vision	03
Mission	04
Company Strategic	05
Scope Of Work	06
Fire Extinguisher	07
Foam System	08
Fire Alarm System	09
Gas Suppression System	10
Kitchen Fire Suppression System	11
Water Based Fire Systems	12
Pneumatic Equipment	13
Experience List	15

The team at comprises of individual who are strongly motivated to aim for the same goal; to deliver the best of capabilities for the services that we have on over. Our company culture encourages developing a proactive attitude towards all the goals that we set out to achieve.

## COMPANY OVERVIEW

PT. NORGANTARA ANDALAN MANDIRI INDONESIA is an Indonesia company whose business activity is involving in supply, instal, maintain and support high quality pneumatic and fluid control products for cement industry, chemical & petrochemical industry, food processing industry, mining industry, oil & gas industry & tyre industry. The company participates actively in goverment and private sector project. We have expanded the bussiness to cater for customers need in the installation of HDPE / steel pipe & fire protection solution.



Employees of PT. NAM INDONESIA consists of various disciplines in business administration and engineering to offer full service in three core business.

We are aware of the severe competition faced in globalization era by our clients in their respective market. PT. NAM INDONESIA is a growing up company in Indonesia involving in the project, supply and installation, service and support of HDPE pipe. With our fleet of experienced and skilled technical and project team, we are definitely the best choice and source for your partner.



Driven by Leaders who  
are driven by nothing  
less than pure passion

staff force comprises various disciplines from business administration to design, engineering, project, service and support.



### OUR OBJECTIVES

PT. NAM INDONESIA is a growing up company in Indonesia involving in three core business platforms. With our fleet of experienced and skilled technical and project team, we are definitely the best choice and source for your partner. In line with the growth in the infrastructure development increasingly rapid Indonesia, a company seeking exist need creativity, team work and thinking fledged business.



### COMPANY MESSAGE

We are aware, in line with the challenge of the business world and the conditions of competition in Indonesia at this time, to generate good jobs and quality, it is necessary that brilliant ideas, concept clear and supported by personal abilities, experience and solid team work.

## BACKGROUND

PT NAM established from the experience to deliver all forms of pneumatic solution to the customer and has expanded the core business platforms – HDPE & steel pipe installation and fire protection solution. By employing dedicated and experienced staff, maintaining standards and delivery schedules the company has managed to achieve an excellent reputation for quality, flexibility and service.

### Fire Prevention

The goal of fire prevention is to educate the public to take precautions to prevent potentially harmful fires, and be educated about surviving them. It is a proactive method of reducing emergencies and the damage caused by them.

### Fire Protection

Buildings must be constructed in accordance with the version of the building code that is in effect when an application for a building permit is made. Building inspectors check on compliance of a building under construction with the building code.

### Fire Suppression

Suppression systems have become a necessity to several industries as they help control damage and loss to equipment. Common means of detection are through heat sensors, wiring, or manual detection (depending on system selection).

## IDENTIFY FIRE & SAFETY SYSTEM DESIGN

It is vital to understand all of these components as they relate to your overall plant safety program, to help prevent and mitigate combustible dust fire in production processes, and provide the comprehensive layers of protection required by code and current best engineering practices, and also to provide the safety your company and work force deserves.



Residential properties are highly important assets in need of fire protection, most significantly the people that live,



Our modular approach to property fire protection ensures coverage throughout the building where it matters most, minimising cost, disruption and time of installation.

### PT NAM INDONESIA

The Company has design and engineering expertise in automatic fire sprinkler systems, drencher systems, hydrants and hose reels, fire alarm systems, emergency warning and intercommunication systems, gaseous suppression systems, foam suppression systems, fire extinguishers, fire doors and passive fire protection, access and egress requirements.



## OUR COMPANY VISION

**Become true partner to every business for our clients.**

- We aspire become a competitive company in the field of sales and services.
- Make their businesses more successful by choice our company.
- Achieve professional business and personal.



PT NAM INDONESIA has a reputation of being the service provider of choice in the fire protection industry. This is supported by the large number of long standing maintenance agreements the Company enjoys.

Quality Assurance are important considerations. Addressed on a site by site basis, procedures are developed, implemented and detailed in site specific plans. The Company has design and engineering expertise in automatic fire sprinkler systems, drencher systems, hydrants and hose reels, fire alarm systems, emergency warning and intercommunication systems, gaseous suppression systems, foam suppression systems, fire extinguishers, fire doors and passive fire protection, access and egress requirements.

### FIRE PROTECTION INDUSTRY

PT NAM INDONESIA is a company specialized in designing, supplying, installing, servicing and commissioning the Fire Protection Systems. All installation and service work is carried out by PT NAM qualified personnels and supported by dedicated specialist sub-contractors.



## "PROTECTING STRUCTURES - SAVING LIVES"

The way Public Structures interact with people is much more different than any other categories. Users are divided into two categories; permanent and visitors. The installations that we do for common spaces differ from those in the workspaces as the usage scenarios are different.

78% 

 22%

We provide a single point of contact service where any of the users of these institutions can directly get in touch with us for any purpose from replacing units to repair and maintenance.

## OUR MISSION

- Be the best contractor and consultant for our customers in each business industry.
- Deliver operational excellence to our customers in each business industry.
- Educate market with passion to help them grow in each business industry.

### Fire Equipment Manufacturers,

Having worked on multiple Public Infrastructure projects, we have been able to define guidelines and standards for the installation of fire protection systems for public use.

### Able to provide a solution that is both cost-efficient,

We have been able to successfully implement projects that require fitting out a brand new setup and also that which requires an upgrade of an existing system. By analysing the usage of the current system and its preparedness,



We provide complete turnkey solutions that great peace of mind to the client and their project manager. Our process and internal systems make sure that Acufire's services are seamlessly integrated into the overall project timeline.

 +525

Investing both time and money towards building a strong combination of both products and services.



# COMPANY STRATEGIC

To have high competitiveness, companies must have strategies

- Leveraging the experience and personal competencies.
- Partnerships with government and private companies to accelerate business development.
- Develop the ability of competition to improve quality and productivity of employees.
- Establish good co-operation with companies in the same

To Achieve those company strategies

PT. NAM INDONESIA provide staff from various disciplines from business, administration, design & engineering



## PT NAM INDONESIA HAS A REPUTATION

PT NAM INDONESIA has Ansul Accredited Specialist Technicians on our staff and are a licensed distributor of Ansul products.

Specialist protecting your high value assets and critical processes.

PT. NAM INDONESIA completely aware that our client satisfaction is our first priority. Our company strategic accomodate all the way to achieve goal for the guarantee that the customer will have satisfaction.





## SCOPE OF WORKS


**A**

### "Protecting Structures - Saving Lives"

We aim to overcome the constraints facing developers, from tight budgets to restricted space to limited water pressure and as such have developed a range of systems to ensure we have a solution for every problem.

**B**

### Suppression System Design and Installation

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**C**

### Inspections, Maintenance, and Repair

We are responsible for maintaining final quality of treated effluent well subject to no change in design parameters via. Furthermore, the services offered by us s are carried out by our well-trained and highly skilled technicians at the clients' sites. We are responsible to work according to the guidelines of National Fire Protection Association.

**D**

### Projects from Fire Alarms to Full Fire Suppression Systems

We provide a single point of contact service where any of the users of these institutions can directly get in touch with us for any purpose from replacing units to repair and maintenance.

In Case of  
**FIRE**

**PULL**

**PIRUL**

Pressure System



## FIRE EXTINGUISHER

PT NAM INDONESIA Fire Protection Group specialise in the design, supply, installation, commissioning and service of Fire Protection Systems.

### The system must provide record keeping in the form of an electronic event log at the control panel

All installation and service work is carried out by Premier Fire's trades and industry qualified personnel and dedicated specialist sub-contractors, NAM INDONESIA Fire Protection commenced operations 1987 and has grown in size and stature to become one of the most respected and successful fire protection companies in Indonesia.

### Wet chemical and water additives

Ensures full compliance with Standard Award and Industry Agreements and has a Certified Enterprise Bargaining Agreement in place. Occupational Health, Safety and Environment, and Quality Assurance are important considerations. Addressed on a site by site basis, procedures are developed, implemented and detailed in site

### The height limit for installation, as determined by the National Fire Protection Association (NFPA)

The Company has design and engineering expertise in automatic fire sprinkler systems, drencher systems, hydrants and hose reels, fire alarm systems, emergency warning and intercommunication systems, gaseous suppression systems, foam suppression systems, fire extinguishers, fire doors and passive fire protection, access and egress requirements,

PT NAM INDONESIA has Ansul Accredited Specialist Technicians on our staff and are a licensed distributor of Ansul products. We Have a reputation of being the service provider of choice in the fire protection industry.

# 99%

This is supported by the large number of long standing maintenance agreements the Company enjoys.

Routine testing and maintenance procedures are supported by an effective and reliable after hour's emergency service. We encourage you to experience the Premier Fire difference for yourselves and look forward to being of service to you.





## FOAM SYSTEM

A foam-water system is a special system of pipe connected to a source of foam concentrate and to a water supply.

The system uses appropriate discharge devices to control and/or extinguish fires which require a smothering and cooling agent.



### Piping systems

The piping system is connected to the water supply through a control valve that is actuated by operation of automatic detection equipment that is installed in the same areas as the sprinklers. Foam-water systems are designed to distribute a foam-water solution to a specific hazard area for fire protection,

### System foam priod,

Systems can be used for discharge of water first, then foam for a specified period, and then followed by water until manually shut off. The type and potential size of the hazard determines the number of discharge devices, type of foam concentrate, and foam-water discharge rate and duration.

### Flammable liquid,

Examples: extraction plants, aircraft hangars and areas where flammable-liquid spill fires may occur. Upon exhaustion of the foam concentrate supply, water discharge follows and continues until shut off manually.

### Requirement,

Characteristics of some flammable products may require higher densities and special foam liquid concentrates, NFPA 11 contains requirements for foam-water systems, with requirements for foam systems also found in NFPA 13, NFPA 16, NFPA 30, NFPA 409, and NFPA 418.



## FIRE ALARM SYSTEM

NAM INDONESIA Fire Alarm Technicians have received factory training from various manufacturers of fire alarm systems as well as additional certifications. Our technical staff include experienced master and journeyman electricians and degreed electronics personnel. Equipment specifically manufactured for these purposes is selected and standardized installation methods are anticipated during the design.



VES Fire Detection Systems



Fire control panel



Fire detector

VES Fire Detection Systems (a Hochiki America Company) was founded with one mission: to give dealers a comprehensive, cost-effective means of providing fire detection networks for corporate, educational, government and retail campuses of any size using 21st century technologies.

Designed and manufactured to the highest standards in a quality controlled environment and with UL and FM approvals, the Elite XT releasing panel offers outstanding value and performance for all small to medium fixed firefighting installations.

All the devices are individually addressed i.e. given a unique address and description of the area it is installed in to help identify the device. An example would be "device number 1021, Optical Smoke Detector, Finance manager's office". The customised message will be displayed on the control panel in a text format or in a graphical display alongside the visual detection zone indicators,



PT NAM INDONESIA. has been providing inspection, functional testing, and maintenance of water-based fire protection systems to commercial, industrial, government, and mercantile facilities since 1987. We expanded our services in 1990 by adding special hazards systems and in 1992 added fire alarm and detection. Most recently, we have added access control systems, fire extinguisher sales and service, and fire protection systems management programs.

Team members were asked to provide management with their input to establish our core values. NAM INDONESIA team members have developed core values using one word with a description of what each word means to them.

## GAS SUPPRESSION SYSTEMS

Gaseous fire suppression is a term to describe the use of inert gases and chemical agents to extinguish a fire. Also called Clean Agent Fire Suppression. These Agents are governed by the National Fire Protection Association (NFPA) Standard for Clean Agent Fire Extinguishing Systems – NFPA 2001 in the USA, with different standards and regulations in other parts of the world. The system typically consists of the agent,



### Novec 1230 Systems

Novec 1230 fluid is a high molecular weight material, compared with the first generation halocarbon clean agents. The product has a heat of vaporization of 88.1 kJ/kg and low vapor pressure. Although it is a liquid at room temperature it gasifies immediately after being discharged in a total flooding system. The product is ideal for use in total flooding applications, localized flooding systems, directional spray type applications and may be used in portable extinguishers for specialized applications. But in addition to the conventional methods of super-pressurization using nitrogen, Novec 1230 fluid also lends itself for use in pump applications because it is a liquid.



Systems working on a total flooding principle apply an extinguishing agent to a three dimensional enclosed space in order to achieve a concentration of the agent (volume percent of the agent in air) adequate to extinguish the fire. These types of systems may be operated automatically by detection and related controls or manually by the operation of a system actuator.

Systems working on a local application principle apply an extinguishing agent directly onto a fire (usually a two dimensional area), or into the three dimensional region immediately surrounding the substance or object on fire. The main difference in local application from total flooding design is the absence of physical barriers enclosing the fire space.

# KITCHEN FIRE SUPPRESSION SYSTEMS



The system also protects auxiliary grease extraction equipment and cooking equipment such as fryers; griddles and range tops; upright, natural charcoal, or chain-type broilers; electric, lava rock, mesquite, or gas-radiant char-broilers; and woks.

## System Description

The system is capable of automatic detection and actuation as well as remote manual actuation. Additional equipment is available for building fire alarm panel connections, electrical shutdown and/or interface, and mechanical or electrical gas line shut-off applications. The detection portion of the fire suppression system allows for automatic detection by means of specific temperature-rated alloy type fusible links, which separate when the temperature exceeds the rating of the link, allowing the regulated release to actuate. A system owner's guide is available containing basic information pertaining to system operation and maintenance. A detailed technical manual, including system description, design, installation,



## Component Description

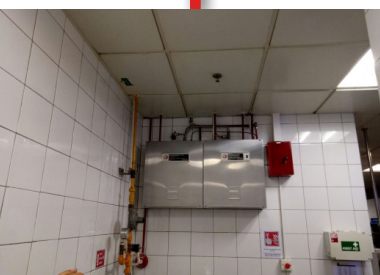
### WET CHEMICAL AGENT

– The extinguishing agent is a mixture of organic salts designed for rapid flame knockdown and foam securement of grease related fires. It is available in plastic containers with instructions for wet chemical handling and usage.

### Agent Tank

– The agent tank is installed in a stainless steel enclosure or wall bracket. The tank is constructed of stainless steel. Tanks are available in two sizes: 1.5 gallon (5.7 L) and 3.0 gallon (11.4 L). The tanks have a working pressure of 110 psi (7.6 bar), a test pressure of 330 psi (22.8 bar), and a minimum burst pressure of 660 psi (45.5 bar).

The tank includes an adaptor/tube assembly. The adaptor assembly includes a chrome-plated steel adaptor with a 1/4 in. NPT female gas inlet, a 3/8 in. NPT female agent outlet, and a stainless steel agent pick-up tube. The adaptor also contains a bursting disc seal which helps to prevent the siphoning of agent up the pipe during extreme temperature variations. Regulated Release Mechanism, ETC







# CERTIFICATE OF AUTHORIZATION

This is hereby certified that

**PT. NORGANTARA ANDALAN MANDIRI  
INDONESIA**

Having appointed the SALES AGENT for  
**HOCHIKI ASIA PACIFIC PTE LTD**

will be authorized to distribute

**VES FIRE ALARM EQUIPMENT**

in the country which the company is located

during the period of appointment.

Period of Appointment

From 1<sup>st</sup> April 2017

Till 30<sup>th</sup> September 2018

1<sup>st</sup> April 2016



Takaharu Imai  
Chief Representative  
Hochiki Asia Pacific Pte Ltd

## WATER BASED FIRE SYSTEMS

Water based suppression systems utilize the inexpensive and readily available medium of water to discharge onto flames through a normally fixed piping system. There are 4 main types of Water based Protection Systems. The hazard / risk to be protected will determine the most suitable type of system you need.



### FIRE SPRINKLER SYSTEM

Is an active fire protection method, consisting of a water supply system, providing adequate pressure and flowrate to a water distribution piping system, onto which fire sprinklers are connected.



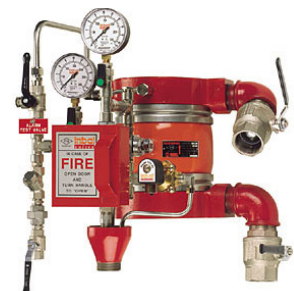
### WET PIPE SPRINKLER

Pressurized water resides in the pipe until a fire is detected by a heat-sensitive automatic sprinkler, which allows water to flow from the targeted sprinkler.



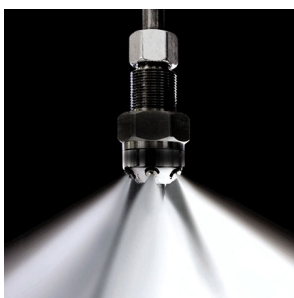
### PREACTION SYSTEMS

Preaction systems are dry pipe sprinkler systems with pressurized air in their pipes and closed sprinkler heads.



### DELUGE SYSTEMS

The deluge valve in a deluge system is tripped by the actuation of a detection system, which introduces water into the piping system.



### WATER MIST SYSTEMS

Water is converted into steam, which cools, wets and moves oxygen away from flames. The mist water droplets deplete the oxygen on the flame front, which in turn extinguishes the fire.



### DRY PIPE SPRINKLER SYSTEMS

Dry pipe sprinklers are pressurized with air, which is released upon actuation of the sprinkler. There is a delay in the discharge of water while the pressurized air escapes from the system, upon which water flows into the piping system



A wet pipe sprinkler system is fixed fire protection using piping filled with pressurized water supplied from a dependable source (either municipal or connected to a fire pump). Heat sensitive automatic sprinklers spaced and located in accordance with recognized installation standards are used to detect a fire.

## HDPE EQUIPMENT

The physical properties of HDPE can vary depending on the molding process that is used to manufacture a specific sample, to some degree a determining factor are the international standardized testing methods employed to identify these properties for a specific process. For example, in Rotational Molding, to identify the environmental stress crack resistance of a sample the Notched Constant Tensile Load Test (NCTL) is put to use.



### PIPE

#### HDPE Pipe

Within industry, piping is a system of pipes used to convey fluids (liquids and gases) from one location to another. The engineering discipline of piping design studies the efficient transport of fluid.



### HDPE FUSION EQUIPMENT

We will help you find the right fusion equipment from our fleet of pipe fusion machines and accessories depending on the pipe material, size and intended application.



### PIPE

#### Fittings

Is a leading manufacturer of HDPE butt fusion fittings, electrofusion fittings, and socket fusion fittings, valves, transitions, and HDPE fusion equipment.



### FUSION

#### Welding Tool

Is one of the most common methods for joining polyethylene & polypropylene pipe across the globe. It is a welding process used to join two different pieces of thermoplastic.



### POLY BALL

#### Valves

Valves meet ASTM D 2513 requirements, ISO 9001, and are manufactured with materials that are approved for water contact as defined by NSF



### FUSION

#### Elbow

The high quality raw material is of the newest generation of PPI and NSF listed material and is compatible for heat fusion with any hdpe pipe manufactured from a similar or like resin.



HDPE is also used for cell liners in subtitle D sanitary landfills, wherein large sheets of HDPE are either extrusion or wedge welded to form a homogeneous chemical-resistant barrier, with the intention of preventing the pollution of soil and groundwater by the liquid constituents of solid waste.

## PNEUMATIC EQUIPMENT

Pneumatic actuators also called cylinders, are the product used to provide motion and force to industrial automation applications. Linear and rotary output, they are available in all different bore sizes, stroke lengths, and styles to suit most application requirements. Norgren has a long history of producing this kind of device - an early example of a pneumatic actuator was the original Martonair air hoist.



### NFPA CYLINDERS

Norgren NFPA cylinders offer interchangeability with other manufacturers while still offering advantages unique to Norgren.



### ISO/VDMA ACTUATORS

Norgren's ISO/VDMA Actuators offer complete interchangeability with other manufacturers whilst still offering advantages unique to Norgren.



### INTEGRATED VALVE AND ACTUATOR

The unique Norgren IVAC is a complete package including pneumatic actuator, control valve, position switches and speed control.



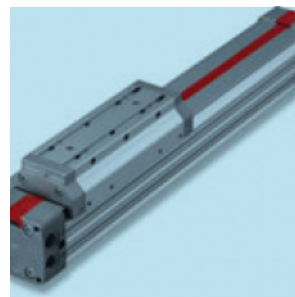
### ROUNDLINE CYLINDERS

Norgren's range of roundline cylinders are ideally suited to the lighter duty, lower force applications.



### COMPACT CYLINDERS

Industry leading range of compact cylinders that are fully interchangeable with other leading competitors.



### RODLESS ACTUATORS

Combining light weight with high strength, our aluminium extrusion with integral switch and machine mounting grooves offers great versatility.



Pneumatic systems in fixed installations, such as factories, use compressed air because a sustainable supply can be made by compressing atmospheric air. The air usually has moisture removed, and a small quantity of oil is added at the compressor to prevent corrosion and lubricate mechanical components.



## PROJECT REFERENCE LIST

Please see below for a list of some of the projects where have been successfully employed.

PT NORGANTARA ANDALAN MANDIRI have been utilised in a range of products. Here you can find a list of reference projects and links to detailed application stories.

Client Name	Scope Of Work	Year
Indofood , Tbk	Pneumatic Installation Project	2015 - 2016
Royal Darmo Hotel Jogja	Kitchen Fire Suppression Installation Project	2015 - 2016
Hotel Grand Serela Medan	Kitchen Fire Suppression Installation Project	2015 -2016
Westin Jakarta	Kitchen Fire Suppression Recharging	2015 -2016
Hotel Swiss-Bel Manado	Kitchen Fire Suppression Installation Project	2015 - 2016
Pertamina Gas Jambi	Installation HDPE Pipe forJargas	2016 - 2017
Purantara Bandara Soetta	Kitchen Fire Suppression Installation Project	Sept 2016
Indocement	Pneumatic Installation Project	2015 - 2016
IKEA BSD Tangerang	Kitchen Fire Suppression Maintenance	2016 - 2017
Goodyear	Pneumatic Installation Project	2015 - 2016
Multi Strada	Pneumatic Installation Project	2015 - 2016
Elang Perdana	Pneumatic Installation Project	2015 - 2016
Pupuk Sriwijaya Palembang	Pneumatic Installation Project	2015 -2016
Semen Padang	Pneumatic Installation Project	2015 -2016
PT. Total Indonesia	Pneumatic Installation Project	2015 -2016
PT. Ratu Gemilang Sejahtera	Solenoid for Deluge System	2016 -2017
PT. Howa Indonesia	Fire Alarm System	2016 - 2017
BP Tangguh	Pneumatic Installation Project	2015 - 2016

Using our 'tried and tested' blend of theory and practical knowledge and experience, we provide them all the knowledge, skills and qualifications that they need to design, install and maintain fire systems in a variety of environments.

# CONTACT US

PT NAM INDONESIA specialise in the design, supply, installation, commissioning and service of Fire Protection Systems. All installation and service work is carried out by Premier Fire's trades and industry qualified personnel and dedicated specialist sub-contractors.



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