

# Pump & Fire Fighting - Protection System Specialist



PANDORA  
PT. PANDORA SARANA TEKNIK



## Company Profile





## About Us

PT. Pandora Sarana Teknik was established in 2012 and has been a fast growing company focus on pump & fire fighting - protection business.

PT. Pandora Sarana Teknik put specializing in a complete Pump and Fire Fighting - Protection solution. We focus on Flood Control and high hazard fire fighting-protection and specialized risk industries such as: Government , Oil & gas plant, data centers, banking, power plants, petrochemical, and industrial plants.

To extend the services to our customer, PT. Pandora Sarana Teknik has achieved international certification:

**ISO 9001: 2015 & ISO  
14001: 2015  
and  
ISO 45001: 2018**

# VISION MISSION



## Vision

"LIFE SAFETY AND PROPERTY PROTECTION"

## Mission

Achieve customer satisfaction by delivering high quality products, on time schedule project, proper engineering and excellent services.





# Scope of Work

## 02 Supply

World class product with international approval (UL Listed, FM Approved, Lloyd's Register, DNV, ABS.)

## 03

### Installation Testing and commissioning, and services Maintenance

Experienced technician team and high standard of installation work and on-time project schedule.

## 01

### Design and Engineering

International and National Standard Design, customized solution designed.



# Systems and Products



## Water Based Systems :

Hydrant & Sprinkler Systems

Water Spray Systems

Deluge Valves

Fire Fighting Equipments

Etc

FM-200 (HFC-227ea) Easy Flow System (25bar)



FM-200 (HFC-227ea) Piston Flow System (25bar)



## Gas Suppression Systems :

FM200 Dupont

CO<sub>2</sub>

Novec 1230 Dupont

## Our Brands



# Systems and Products



## Detection & Alarm Systems :

### Conventional & Intelligent Systems

Detectors, Modules

Alarm Devices

Etc



## Foam Systems :

Foam Concentrates

Foam Proportioner, Bladder Tanks

Discharge Devices

Etc



# Our Brands





# Systems and Products

**MV**

## Vertical Mixed Flow Pumps

- Capacity Up to 60000 m<sup>3</sup>/h
- Total Head up to 250 m
- Pull out design available (Custom Engineered pumps with higher capacities available)
- API 610 latest edition available (VS-1 type)



**AV**

## Vertical Axial Flow Pumps

- Capacity Up to 60000 m<sup>3</sup>/h
- Total Head up to 10 m per stage
- Pull out design available (Custom Engineered pumps with higher capacities available)
- API 610 latest edition available (VS-3 type)



**CVP-NA**

## Concrete Volute Pumps

- Capacity Up to 105000 m<sup>3</sup>/h
- Total Head up to 35 m
- Temperature up to 50° C
- Casing with Pre-Fabricated Concrete Parts or Steel Liner available
- Metallic Parts Pull Out Design



**AVS**

## Submersible Axial Flow Pumps

- Capacity Up to 25000 m<sup>3</sup>/h
- Total Head up to 10 m

**MVS**

## Submersible Mixed Flow Pumps

- Capacity Up to 13000 m<sup>3</sup>/h
- Total Head up to 20 m



# Systems and Products

**AS, ASN,  
ASN-E,  
NDS, SIRET**

## **Axially Split Casing Horizontal & Vertical Pumps**

- Capacity Up to 15000 m<sup>3</sup>/h
- Total Head up to 240 m
- Max. Operating Pressure up to 25 bar
- Temperature up to 120° C



**TA, CM,  
NPM,  
TERMA, RDT**

## **Process (End Suction) Pumps**

- Capacity Up to 2000 m<sup>3</sup>/h
- Total Head up to 250 m
- Max. Working Pressure 50 bar
- Heavy Duty design, acc API-610 latest edition available (OH-1 type)



**RDC**

## **Horizontal Process Double Flow Pumps**

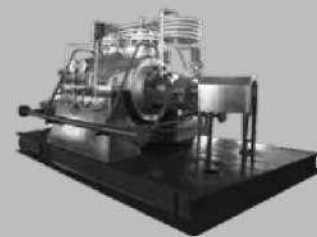
- Capacity Up to 2200 m<sup>3</sup>/h
- Total Head up to 320 m
- Max. Working Pressure 40 bar
- Temperature up to 350 °C
- Heavy Duty design, acc API-610 latest edition available (BB-2 type)



**MM, MT,  
MET,  
MD, OLT**

## **Multistage High Pressure Centrifugal Pumps**

- Capacity Up to 1000 m<sup>3</sup>/h
- Total Head up to 2250 m
- Max. Working Pressure 250 bar
- Temperature up to 200 °C
- Heavy Duty design, acc API-610 latest edition available (BB-4, BB-5 types)



**NAx,  
BRATES**

## **End Suction Mixed Flow Pumps**

- Capacity Up to 15000 m<sup>3</sup>/h
- Total Head up to 40 m
- Temperature up to 120° C
- Available in Horizontal & Vertical Arrangement



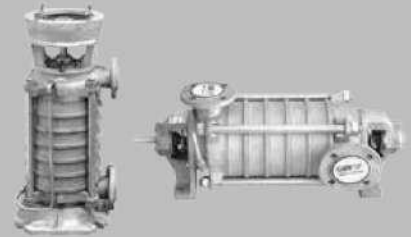


# Systems and Products

## MS, MS-E

### Centrifugal Multistage Pumps

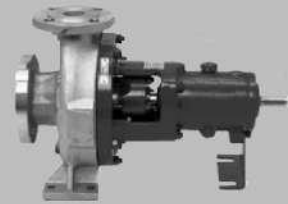
- Capacity Up to 550 m<sup>3</sup>/h
- Total Head up to 350 m
- Max. Casing Pressure up to 40 bar
- Temperature -20° C up to 140° C



## MDP

### End Suction Pumps according to ISO 5199 (DIN24256)

- Capacity up to 1600 m<sup>3</sup>/h
- Head up to 160 m
- Temperature up to 140° C
- Working pressure up to 16 bar



## DP-BLOCK IL-N

### Centrifugal Mono-block Single Stage Pumps, Single Stage In-line Pumps

- Capacity Up to 300 m<sup>3</sup>/h
- Total Head up to 90 m
- Max. Working Pressure 10 bar
- Temperature up to 140° C



## LDP, LDP-X, NA Configuration VD

### End Suction Vertical Pumps

- Capacity up to 2500 m<sup>3</sup>/h
- Head up to 150 m
- Temperature up to 140° C
- Working pressure up to 16 bar



## LDP, LDP-X, NA Configuration VW

### End Suction Vertical Pumps for Wet Installation

- Capacity up to 1000 m<sup>3</sup>/h
- Head up to 100 m
- Temperature up to 70° C
- Working pressure up to 16 bar
- API 610 latest edition available (VS-4 type)



# Systems and Products

## LDP, LDP-X, NA

### End Suction Pumps according to EN733 (DIN24255)

- Capacity up to 550 m<sup>3</sup>/h
- Head up to 100 m

### Oversized End Suction Pumps

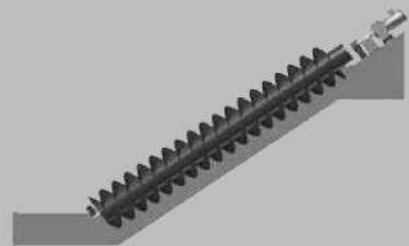
- Capacity up to 2500 m<sup>3</sup>/h
- Head up to 150 m
- Temperature up to 140° C
- Working pressure up to 16 bar



## ARCHIMEDEAN

### Archimedean Screw Pumps

- Capacity Up to 6 m<sup>3</sup>/sec
- Total Head up to 12 m
- Temperature up to 50° C
- Inclination from 30° to 38°



## CP

### Condensate Extraction Pumps

- Capacity Up to 10000 m<sup>3</sup>/h
- Total Head up to 400 m
- Special first stage for low NPSHr
- Mixed Flow for high capacities
- Radial Flow for high head
- API 610 latest edition available (VS-6 type)



## SP

### Sewage Pumps

- Capacity up to : 15000 m<sup>3</sup>/h
- Total Head up to : 80m
- Non clogging single or double and vortex type impeller



## DWP, MA

### Vertical Deep Well Pumps

- Capacity Up to 600 m<sup>3</sup>/h (standard construction)
- Total Head up to 260 m
- Setting 150 m
- Bowl Sizes 6" – 12" (bigger sizes as optional)
- Speed up to 3600 RPM
- API 610 latest edition available (VS-1 type)





# Design and Engineering

PT. Pandora Sarana Teknik has a team of experienced system designers comprising of mechanical and electrical for pump & fire fighting - protection engineers.





# Project Management

PT. Pandora Sarana Teknik has several project management teams, each team comprising of project manager, supervisor, and site manager. Our project manager is experience in large industrial projects according to stringent requirement of the oil, gas, Government, Petrochemical and power generations industries.

The project manager is the client's main point of contact for the duration of the project, from the initial kick-off meeting through to commissioning and handover stage.



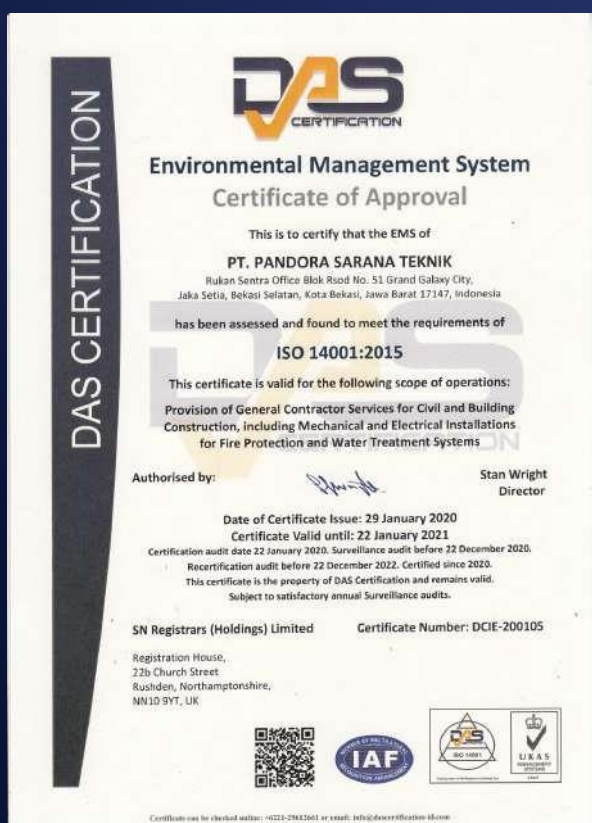
## Commisioning and Services





# Company Certification

We have earned some of international certification on construction service in order to establish our company to the world class company, including:



## Oil & Gas

<b>Project Name</b>	Fire Protection System for Cruide Oil Tank – Year 2014
<b>Owner / Client</b>	PT. Pertamina EP Tanjung
<b>Scope</b>	Supply & Commissioning of Fire Protection System ( Fire Hydrant & Foam System)

<b>Project Name</b>	Fire Fighting Equipment – Year 2014
<b>Owner / Client</b>	PT. Pertamina UPMS
<b>Scope</b>	Supply Fire Hydrant & Foam System

<b>Project Name</b>	Fire Fighting Equipment – Year 2015
<b>Owner / Client</b>	PT. Pertamina RU Balongan
<b>Scope</b>	Supply Foam Trailer Unit

<b>Project Name</b>	Fire Protection Equipment – Year 2016
<b>Owner / Client</b>	PT. Petrochina International (Kuningan Office-Kalijapat-Cileungsi)
<b>Scope</b>	Maintenance Fire Alarm, Fire Suppression, Fire Extinguisher

<b>Project Name</b>	Fire Suppression System – Year 2016
<b>Owner / Client</b>	PT. Petrochina International Kuningan Office
<b>Scope</b>	Supply, Erection & Commissioning of Fire Alarm & Fire Suppression System

<b>Project Name</b>	Fire Fighting Equipment – Year 2015
<b>Owner / Client</b>	PT. Pertamina EP Lirik
<b>Scope</b>	Supply Fire Hydrant & Foam System

<b>Project Name</b>	Fire Fighting Equipment for Cruide Oil Tank, Electrical Room – Year 2015
<b>Owner / Client</b>	PT. Pertamina ONWJ BOB SIAK Pekanbaru Site
<b>Scope</b>	Supply & Commissioning of Fire Protection System ( Fire Alarm System, Fire Suppression FM 200, Fire Hydrant & Foam System)

<b>Project Name</b>	Mobile Cepu Fire Fighting Equipment – Year 2015
<b>Owner / Client</b>	PT. Tripatra Engineering
<b>Scope</b>	Supply Fire Hydrant



## Government

Project Name	Flood Control Mobile Pump Dinas Sumber Daya Air DKI Jakarta Year 2020
Owner / Client	DINAS SDA PEMPROV DKI JAKARTA
Scope	Supply & Commissioning Flooding Control (Pompa Pengendalian Banjir)

Project Name	Flood Control Submersible Pump SUDIN SDA Jakarta Pusat Year 2020
Owner / Client	SUDIN SDA Jakarta Pusat
Scope	Supply & Commissioning Flooding Control (Pompa Pengendalian Banjir)

Project Name	Pipa Kolom for Submersible Pump SUDIN SDA Jakarta Utara – Year 2022
Owner / Client	SUDIN SDA Jakarta Utara
Scope	Supply & Commissioning Flooding Control (Pompa Pengendalian Banjir)

Project Name	Flood Control Oil Coller Pump SUDIN SDA Jakarta Utara Year 2022
Owner / Client	SUDIN SDA Jakarta Utara
Scope	Supply & Commissioning Flooding Control (Pompa Pengendalian Banjir)

Project Name	Flood Control Submersible Pump SUDIN SDA Jakarta Utara Year 2023
Owner / Client	SUDIN SDA Jakarta Utara
Scope	Supply & Commissioning Flooding Control (Pompa Pengendalian Banjir)

Project Name	Pemasangan Pintu Air SUDIN SDA Jakarta Utara – Year 2024
Owner / Client	SUDIN SDA Jakarta Utara
Scope	Supply & Commissioning Flooding Control (Pompa Pengendalian Banjir)

Project Name	Flood Control Mobile Pump SDA BBWS PUPR Palu – Year 2024
Owner / Client	PT. DATUKARA TRIMULTI
Scope	Supply & Commissioning Flooding Control (Pompa Pengendalian Banjir)

## *Mining, Mineral Processing Plant & Power Plant*

<b>Project Name</b>	Fire Suppression System for Electrical Room Switch Gear – Year 2014
<b>Owner / Client</b>	PT. Nusa Tambang Pratama Kalimantan Site
<b>Scope</b>	Supply, Erection & Commissioning of CO2 Suppression System

<b>Project Name</b>	Foam System for Solar Storage Tank – Year 2016
<b>Owner / Client</b>	PT. Kideco Jaya Agung Kalimantan Site
<b>Scope</b>	Supply Mobile Foam System

<b>Project Name</b>	Fire Fighting Equipment for Solar Storage Tank & Transformer – Year 2013
<b>Owner / Client</b>	PT. Indonesia Power Bali
<b>Scope</b>	Supply, Erection & Commissioning of Fire Pump, Foam System, Deluge System

<b>Project Name</b>	Fire Fighting Equipment for Transformer PT PLN PLTU Ombilin – Year 2015
<b>Owner / Client</b>	PT. Alstom Grid
<b>Scope</b>	Supply, Erection & Commissioning of Fire Alarm Detection & Deluge System

<b>Project Name</b>	Fire Hydrant, Fire Monitor & Sprinkler Spray System at PLTD Merauke, Sorong, Timika, Manokwari, Wamena, Nabire – Year 2016
<b>Owner / Client</b>	PT. PLN (Persero) Wilayah Papua
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Public Address Paging System & Monitor Display – Year 2016
<b>Owner / Client</b>	PT. PLN (Persero) PUSHARLIS KLENDER
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant System – Year 2017
<b>Owner / Client</b>	PT. PLN (Persero) PUSHARLIS KLENDER
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant System – Year 2017
<b>Owner / Client</b>	PT. PLN (Persero) PUSHARLIS SURABAYA
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant System – Year 2018
<b>Owner / Client</b>	PT. PLN (Persero) PUSHARLIS SEMARANG
<b>Scope</b>	Supply, Erection & Commissioning



<b>Project Name</b>	Fire Hydrant System at PLTD Sentawar – Year 2018
<b>Owner / Client</b>	PT. PLN (Persero) UP3 SAMARINDA
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant System at Gardu Induk Kota Baru Pontianak – Year 2018
<b>Owner / Client</b>	PT. PLN (Persero) AP2B Sistem Kalimantan Barat
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant & Foam System at Gardu Induk Simangkok– Year 2019
<b>Owner / Client</b>	PT. PLN (Persero) UIP3BS UPT PEMATANG SIANTAR
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant System at PT PLN (Persero) UP3 BTS, UP3 BTU & Gudang Curug – Year 2019
<b>Owner / Client</b>	PT. PLN (Persero) UID Banten Tangerang
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Alarm System at PT PLN (Persero) ULP Anyer, ULP Cilegon – Year 2019
<b>Owner / Client</b>	PT. PLN (Persero) UP3 Distribusi Banten Utara Serang
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant & Foam System at Gardu Induk Sunyaragi – Year 2019
<b>Owner / Client</b>	PT. PLN (Persero) UIT JBT UPT CIREBON
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant System PLN UP3 Lokasi ULP Anyer & Gudang Sempu – Year 2022
<b>Owner / Client</b>	PT. PLN UID UP3 Banten Utara
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant System PLN UP3 Lokasi ULP Cilegon & ULP Cikande – Year 2022
<b>Owner / Client</b>	PT. PLN UID UP3 Banten Utara
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Penggantian dan Perbaikan Proteksi Fire System – Year 2023
<b>Owner / Client</b>	PT. PLN UIT JBB Gandul
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Alarm System – Year 2023
<b>Owner / Client</b>	PT. PLN (Persero) UID UP3 Majalaya
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Alarm System - Year 2023
<b>Owner / Client</b>	PT. PLN (Persero) UID UP3 Indramayu
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Alarm System – Year 2023
<b>Owner / Client</b>	PT. PLN (Persero) UID Gunung Putri
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Alarm System - Year 2023
<b>Owner / Client</b>	PT. PLN (Persero) UID UP3 Garut
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant System & Sprinkler Kantor UP3 Gunung Putri dan Gudang – Year 2024
<b>Owner / Client</b>	PT. PLN (Persero) UID UP3 Gunung Putri
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant Sytem Kantor UP3 Garut – Year 2024
<b>Owner / Client</b>	PT. PLN (Persero) UID UP3 Garut
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Sprinkler Sytem di Gudang Lamarin – Year 2024
<b>Owner / Client</b>	PT. PLN (Persero) UID UP3 Lamarin
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Alarm System Kideco Project Kalimantan – Year 2024
<b>Owner / Client</b>	PT. TRIPATRA ENGINEERS AND CONSTRUCTORS
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Hydrant Sytem & Fire Alarm System Tanjung Enim – Year 2024
<b>Scope</b>	Supply, Erection & Commissioning
<b>Owner / Client</b>	PT. Bukit Asam Tbk

## Industry, Commercial Building & Contracting

<b>Project Name</b>	Public Address Paging System for site plan – Year 2015
<b>Owner / Client</b>	PT. Sumiden Serasi Wire Product Cibinong
<b>Scope</b>	Supply, Erection & Commissioning of Public Address Paging System

<b>Project Name</b>	Foam System – Year 2012
<b>Owner / Client</b>	PT. SUJ Cilegon
<b>Scope</b>	Supply & Commissioning of Foam Water System

<b>Project Name</b>	Fire Alarm System – Year 2014
<b>Owner / Client</b>	PT. Dankos Farma Pulogadung
<b>Scope</b>	Supply, Erection & Commissioning of Fire Alarm System

<b>Project Name</b>	Fire Alarm System – Year 2014
<b>Owner / Client</b>	PT. Hempel Indonesia Bekasi
<b>Scope</b>	Supply, Erection & Commissioning of Fire Alarm System

<b>Project Name</b>	Fire Alarm & Fire Suppression System for Data Center Depkom info – Year 2015
<b>Owner / Client</b>	PT. Abhimata Citra Abadi
<b>Scope</b>	Supply, Erection & Commissioning of Fire Alarm & Fire Suppression System

<b>Project Name</b>	Fire Alarm & Fire Suppression System for Data Center – Year 2015
<b>Owner / Client</b>	PT. Sinergy Media Bandung
<b>Scope</b>	Design, Supply & Commissioning of Fire Alarm & Fire Suppression System

<b>Project Name</b>	Fire Fighting System – Year 2015
<b>Owner / Client</b>	Sekolah Tinggi Ilmu Pelayaran Marunda Jakarta
<b>Scope</b>	Supply, Erection & Commissioning of Fire Pump, Foam System, Dry Chemical System

<b>Project Name</b>	Fire Alarm & Fire Suppression System for MRI Room – Year 2015
<b>Owner / Client</b>	RSAB Harapan Kita Tomang
<b>Scope</b>	Supply, Erection & Commissioning of Fire Alarm & Suppression System



<b>Project Name</b>	Fire Suppression System FM200 for Data Center – Year 2016
<b>Owner / Client</b>	PT. Indo Internet Jakarta
<b>Scope</b>	Contract Maintenance FM200 for Data Center

<b>Project Name</b>	Fire Suppression System FM200 for Data Center -Year 2016
<b>Owner / Client</b>	PT. Bumitama Gunajaya Agro Jakarta
<b>Scope</b>	Contract Maintenance FM200 for Data Center

<b>Project Name</b>	Boiler System
<b>Owner / Client</b>	PT. Central Proteina Prima Surabaya – Year 2015
<b>Scope</b>	Supply, Installation & Commissioning Boiler System

<b>Project Name</b>	Fire Alarm System at Hempel Paint
<b>Owner / Client</b>	PT. Deluge Engineering Construction – Year 2018
<b>Scope</b>	Supply, Erection & Commissioning

<b>Project Name</b>	Fire Alarm System - Year 2024
<b>Owner / Client</b>	PT Niro Ceramic Nasional Indonesia
<b>Scope</b>	Supply, Erection & Commissioning



PANDORA

## **PT. PANDORA SARANA TEKNIK**

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## **WORKSHOP**

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