



PT. GERBANG SARANABAJA

Design and Build, Fabrication and Construction of Steel Structure,
Pressure Vessel, Boiler, and Heat Exchanger

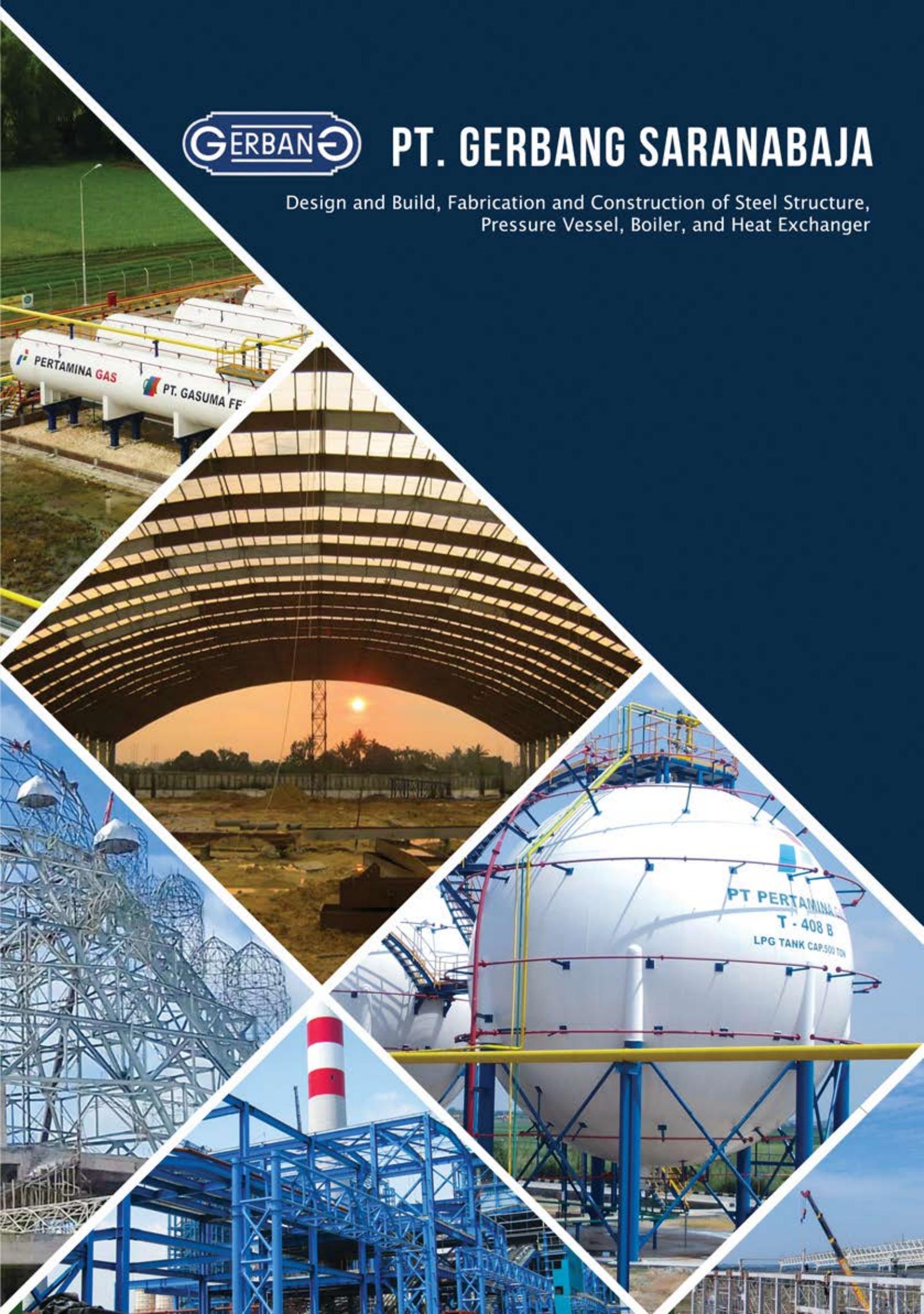


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OVERVIEW



Aluinanto Sandjaya (President Director)

Since 1976, the company has started its activities as one man business, serving steel structure projects in Indonesia under name of CV. Jaya Raya. Grown through the years, the company changed its name into PT. GERBANG SARANABAJA. It was established on February 18, 1992 with the goal: to be a partner of the first choice in delivery of integrated steel structure works and construction services.

Our Annual Capacity of fabrication is more than 15.000 ton of steel structure. In order to meet our customer's needs and expectations, we step by step expand our workshop area and facilities. Nowadays, we are one of the foremost in the field of steel structure fabricator and construction in the country.

Within a quarter century of our existence, our commitments are proven in adding sustained value to our customers. Most of our customers have been with us for more than five years with an imposing level of repeat order.

Our culture of innovation, professionalism, tenacity, and spirit are the foundation of this ongoing success. We are awarded the ISO 9001 certification on May 27, 2002 as an acknowledgement of our culture and imprinted international standards in our consistency in providing high services to our customers.

In 2003 we have developed our business on Pressure Vessel, Boiler, and Heat Exchanger. With the same culture, we are awarded with the "U", "U2" and "S" Stamp on August 12, 2004. These certificates appoint us as an authorized company to use the indicated Symbols of The American Society of Mechanical Engineer (ASME) for the scope of certain activities in accordance with applicable rules of the ASME Boiler and Pressure Vessel code.

In 2010, we have developed our business on Repairing. The "R" Stamp certificate is awarded to us on August 11, 2010. This certificate gives us the authorization to metallic repair and/or alternation at the certain location and extended for field repair and/or alternations controlled by this location.

Company Objective

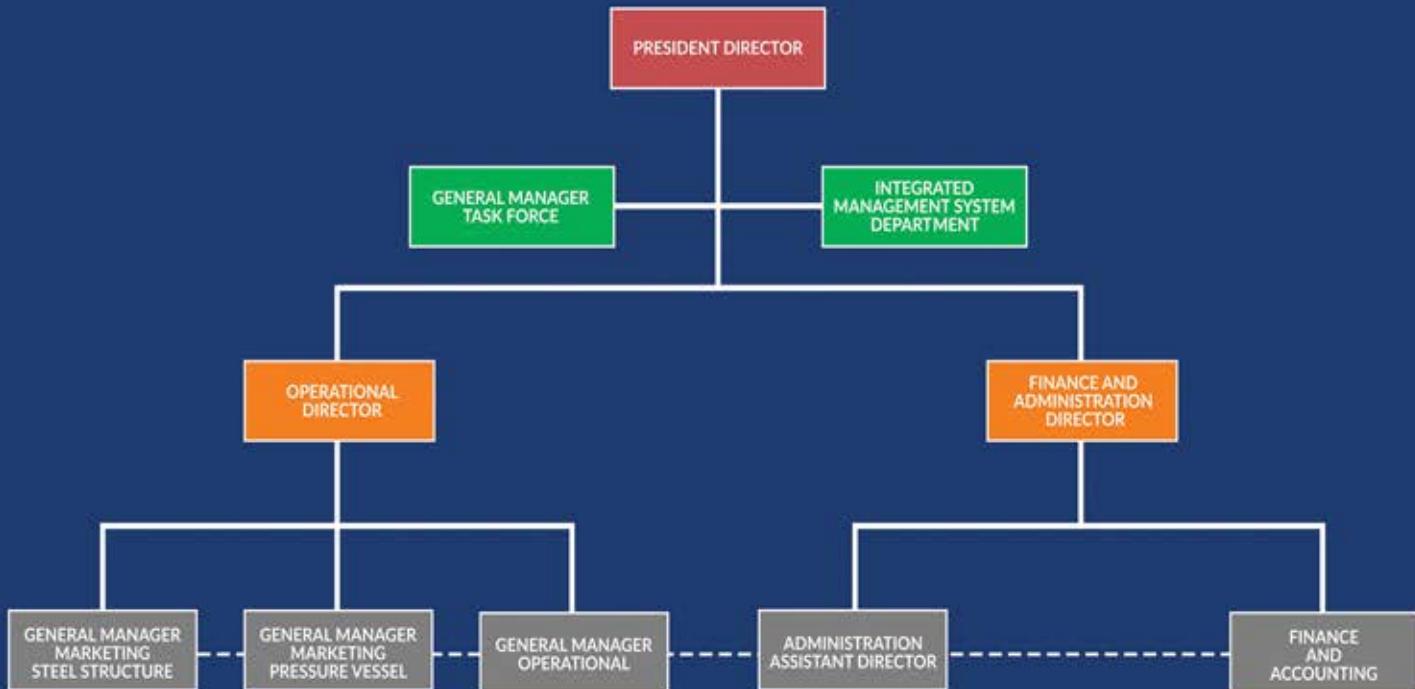
Our company objective is customer satisfaction, supported by our experienced design engineers, striving to add values, and exceed expectations.

Through technological innovations, continual improvements, our experiences, highly dedicated and motivated peoples, we are committed for the best achievements.



MANAGEMENT & ORGANIZATION CHART

PT. Gerbang Saranabaja is an organization where the people are proud to be in the construction industry, equipped with well managed facilities and latest technology. It's a place where all staffs can grow and perform their level best and continue to aim for excellence.



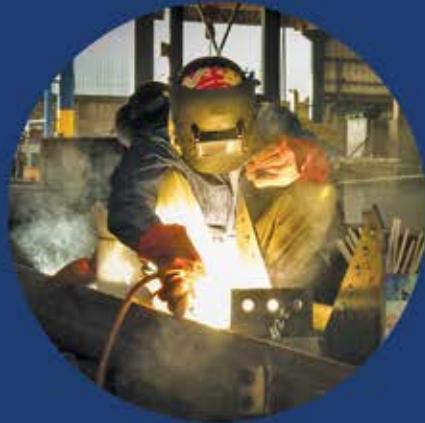
PEOPLE

Our over-growing human resources development is the most important assets, because these people are the driving force of the whole workshop and plant facilities.



Behind the desk:

Coordinating internal teamwork and preparing planning and controlling process to achieve timely completion, efficient, and smooth operation.



Behind the mask:

Emphasizing accuracy, precision, and efficiency in performing the dimensional, cutting, assembling, welding, and handling.



Behind the load:

Achieving zero defect and ensuring the accurate execution of specified requirements in accomplishing the fabrication, sandblasting, painting, and installation.

SCOPE OF BUSINESS

Design and Build on Steel Buildings

- > Pre-Engineered Building (PEB) System
- > Conventional Steel Building System

Steel Structure: Bridge & Towers

- > Fabrication
- > Project Management
- > Construction

Oil & Gas Facilities:

- > Pressure Vessel
- > Storage Tank
- > Heat Exchanger
- > Piping
- > Spherical Tank
- > Boiler & Air Cooler, etc.

ENGINEERING STRENGTH

- > Experienced and Professional Engineers
- > Fully Computerized and Value Networked
- > Developed Design and Detailing Software
 - Flexibility in design to multinational and local codes
 - Comprehensive design calculations
 - Detailed and categorized bill of material
 - Complete detailed drawings for approval
 - Construction (erection) drawings

SERVICES



PLANNING



ENGINEERING



FABRICATION



NON DESTRUCTIVE TEST (NDT)



AUTOMATIC BLASTING



PAINTING



PACKING



DELIVERY



ERCTION OF STEEL STRUCTURE



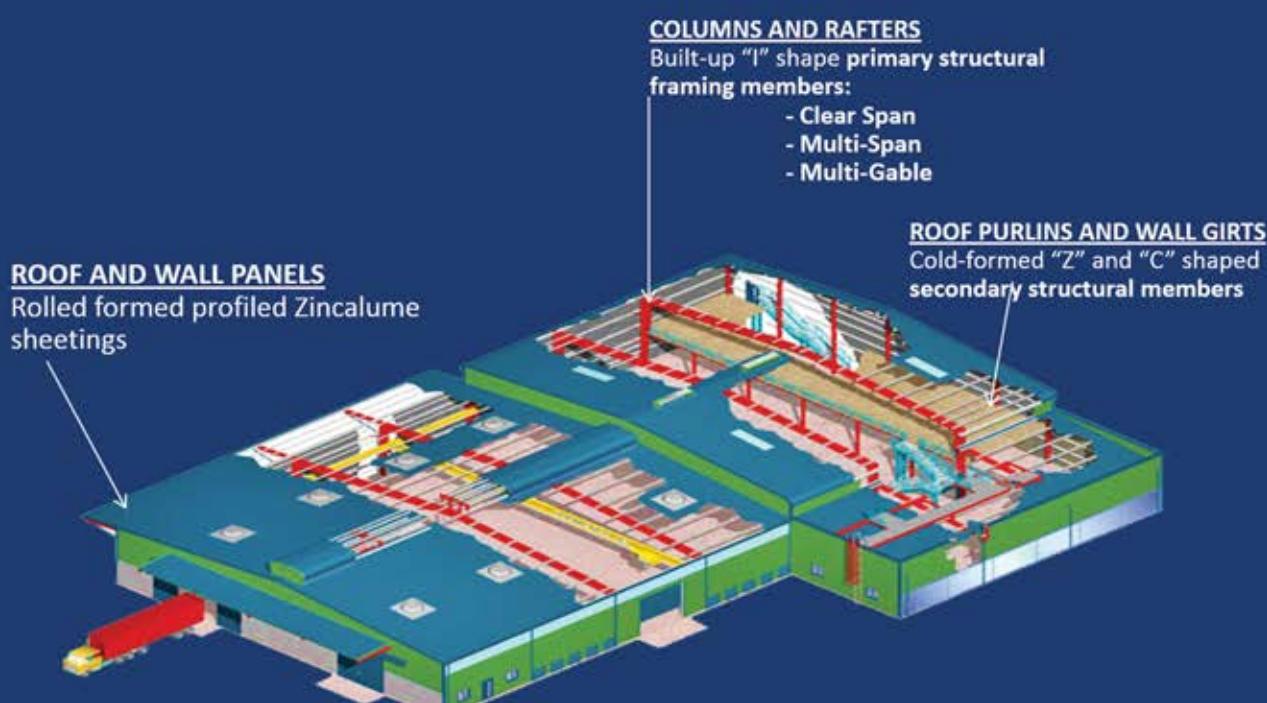
ERCTION OF VESSEL

PEB SYSTEM

DESIGN CODE

PT. Gerbang Saranabaja applies:

- SNI new code, Indonesian Standard Code
- MBMA (Metal Building Manufacturers Association) - For design parameters
- AISI (American Iron and Steel Institute) - For cold formed sections
- AISC (American Institute of Steel Construction) - For built up sections
- AWS (American Welding Society) - For welding works
 - British Standards
 - Euro-Code
 - IBC (International Building Code)
 - Other domestic codes (Egyptian, Indian, Australia, etc.)

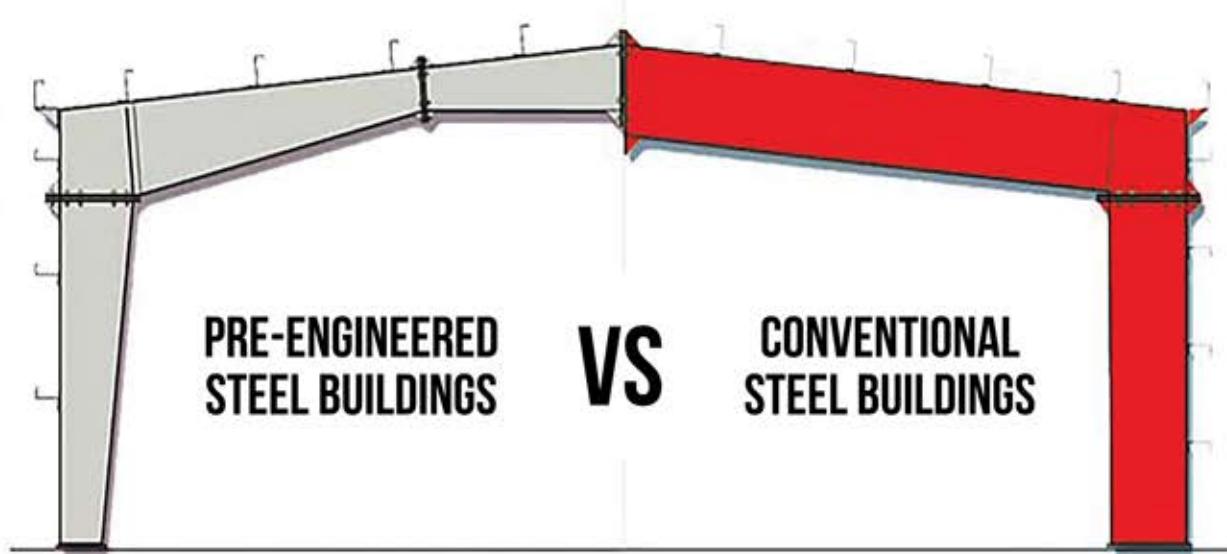


APPLICATIONS: Customized Buildings:

Factories, steel mills, fertilizer plants, warehouse, and aircraft hangars:

- Low rise building
- Spanning up to 100 meters

WHAT'S ON "PRE-ENGINEERED BUILDINGS VALUE"



Pre-Engineered steel building built-up frames are designed to be tapered and webs often have variable depth and thicknesses.

The frame geometry matches the shape of the internal stress diagram, thus minimizing material wastage and reducing total weight.

CONVENTIONAL
STEEL BUILDINGS

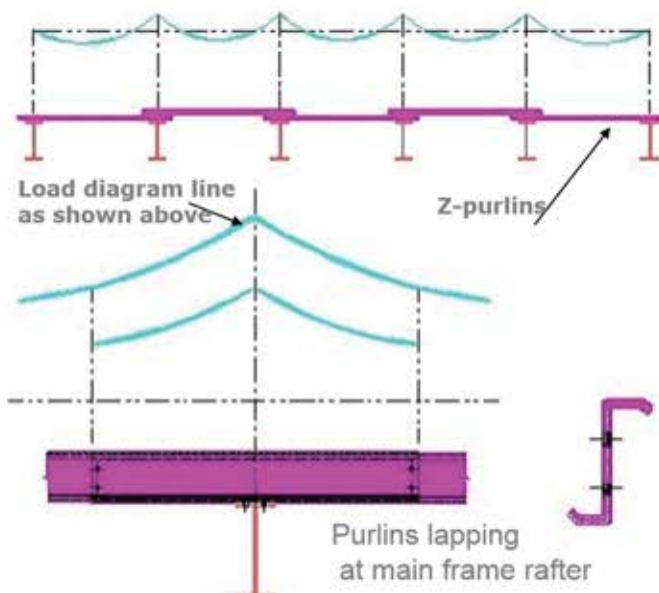
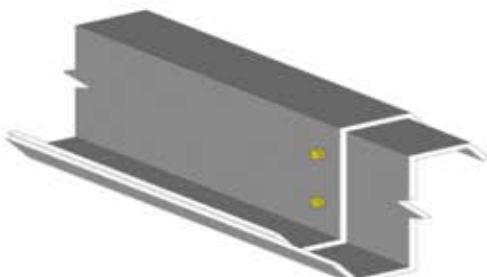
Conventional steel uses straight members designed for the maximum internal stress in the member.

The shaded area shows parts of the member which are over-designed and in excess of design requirements.

ENGINEERING CONCEPT

The secrets of Pre-Engineered Steel Buildings designs - SECONDARY MEMBERS.

More savings are achieved by nesting Z-shaped purlins allowing them to act as continuous members along the length of the building.



CERTIFICATION

PT. Gerbang Saranabaja implement the ISO 9001 and ASME certification as an acknowledgement of our culture and imprinted international standards in our consistency in providing of high service to our customer.



Certificate of Registration

This is to certify that the
Quality Management System
of

PT. GERBANG SARANA BAJA,
Jl. Raya Tipar Cakung KM. 3,9,
Sukapura, Cilincing,
North Jakarta, Indonesia

Has been independently assessed and is
compliant with the requirements of:

ISO 9001:2015

For the following scope of activities:

Fabrication, Construction & Installation of steel structure and pressure
vessel, boiler, heat exchanger, air cooler, tank, aluminum melting
furnace and over head crane girder

Certificate Number: 1710844 A

| | |
|---|------------------|
| Initial Registration Date | 08 June 2017 |
| Issue Date | 08 June 2017 |
| 1 st Surveillance on or before | 07 December 2017 |
| 2 nd Surveillance on or before | 07 June 2018 |
| 3 rd Surveillance on or before | 07 December 2018 |
| 4 th Surveillance on or before | 07 June 2019 |
| 5 th Surveillance on or before | 07 December 2019 |
| Recertification Due on or before | 07 May 2020 |
| Certificate Expiry Date | 07 June 2020 |

(subject to the company maintaining its system to the required standard)

Authorised Signatory



This certificate is the property of ACM Limited and shall be returned immediately on request.

ISO 9001



Certificate of Registration

This is to certify that the
Environmental Management System
of

PT. GERBANG SARANABAJA,
Jl. Raya Tipar Cakung KM. 3,9,
Sukapura, Cilincing,
North Jakarta, Indonesia

Has been independently assessed and is
compliant with the requirements of:

ISO 14001:2015

For the following scope of activities:

Fabrication, Construction & Installation of steel structure and pressure
vessel, boiler, heat exchanger, air cooler, tank, aluminum melting
furnace and over head crane girder

Certificate Number: 1710844 B

| | |
|---|------------------|
| Initial Registration Date | 08 June 2017 |
| Issue Date | 08 June 2017 |
| 1 st Surveillance on or before | 07 December 2017 |
| 2 nd Surveillance on or before | 07 June 2018 |
| 3 rd Surveillance on or before | 07 December 2018 |
| 4 th Surveillance on or before | 07 June 2019 |
| 5 th Surveillance on or before | 07 December 2019 |
| Recertification Due on or before | 07 May 2020 |
| Certificate Expiry Date | 07 June 2020 |

(subject to the company maintaining its system to the required standard)

Authorised Signatory

This certificate is the property of ACM Limited and shall be returned immediately on request.

ISO 14001



Certificate of Registration

This is to certify that the
Occupational Health and Safety Management System
of

PT. GERBANG SARANA BAJA,
Jl. Raya Tipar Cakung KM. 3,9,
Sukapura, Cilincing,
North Jakarta, Indonesia

Has been independently assessed and is
compliant with the requirements of:

OHSAS 18001:2007

For the following scope of activities:

Fabrication, Construction & Installation of steel structure and pressure
vessel, boiler, heat exchanger, air cooler, tank, aluminum melting
furnace and over head crane girder

Certificate Number: 1710844 C

| | |
|---|------------------|
| Initial Registration Date | 08 June 2017 |
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Authorised Signatory

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OHSAS 18001

CERTIFICATE OF
AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

PT. Gerbang Saranabaja
Pressure Vessel Division
Jl. Raya Tipar Cakung, Km 3.9
Sukapura-Cilincing
Jakarta 14140
Indonesia

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: June 6, 2016
EXPIRES: June 6, 2019
CERTIFICATE NUMBER: 34,728

Richard Rutherford
Board Chair, Conformity Assessment

Joseph L. Lomax
Director, Conformity Assessment

CERTIFICATE OF
AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

PT. Gerbang Saranabaja
Pressure Vessel Division
Jl. Raya Tipar Cakung, Km 3.9
Sukapura-Cilincing
Jakarta 14140
Indonesia

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location

AUTHORIZED: June 6, 2016
EXPIRES: June 6, 2019
CERTIFICATE NUMBER: 34,729

Richard Rutherford
Board Chair, Conformity Assessment

Joseph L. Lomax
Director, Conformity Assessment



ASME U

CERTIFICATE OF
AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

PT. Gerbang Saranabaja
Pressure Vessel Division
Jl. Raya Tipar Cakung, Km 3.9
Sukapura-Cilincing
Jakarta 14140
Indonesia

SCOPE:
Manufacture and assembly of power boilers at the above location and field sites controlled by the above location.

AUTHORIZED: June 6, 2016
EXPIRES: June 6, 2019
CERTIFICATE NUMBER: 53,453

Richard Rutherford
Board Chair, Conformity Assessment

Joseph L. Lomax
Director, Conformity Assessment



ASME S

THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS

Certificate of Authorization



This is to certify that

PT. Gerbang Saranabaja
Pressure Vessel Division
Jl. Raya Tipar Cakung, Km 3.9
Sukapura-Cilincing
Jakarta 14140
Indonesia

is authorized to use the "R" Symbol in accordance with the provisions of the National Board Inspection Code and NB-413, Accreditation of "R" Repair Organizations.

The scope of this Authorization is limited to:

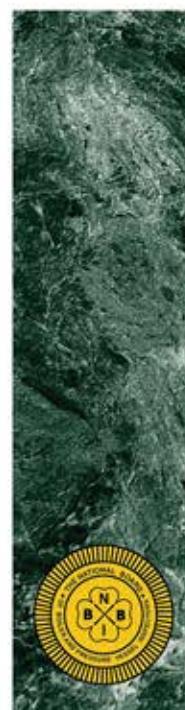
Metallic
Repair and Alterations
At
Shop and Field Locations

Certification Number: 10190

Issue Date: June 6, 2016
Expiration Date: August 12, 2019

Executive Director

D. D. Rutherford



ASME R



WORKSHOP & FACILITIES



Occupying over 3 hectares of land, we manage and develop our own workshop. In order to provide best services to our customers, we are equipped with software and hardware related to steel structure and pressure vessels fabrication.

In fabrication, we use machine tools, CNC flame and plasma cutting machines, forming machines, semi automatic and full automatic SAW, FCAW welding machines, and SMAW. In rust protection, we are equipped with trucks, trailers, and mobile cranes.

All of these facilities are used to support production and installation by assuring quality, accuracy, efficiency, and safety.

AREA UNDER ROOF

| | | | |
|-----------------------------------|------------------------|-----------------|-------------------------|
| - Office Area | : 2.500 m ² | - Painting Area | : 10.750 m ² |
| - Steel Structure Production Area | : 9.000 m ² | - Packing Area | : 150 m ² |
| - Pressure Vessel Production Area | : 4.300 m ² | | |
| - Warehouse Area | : 2.500 m ² | OPEN AREA | : 6.900 m ² |
| - Material Stockyard | : 3.300 m ² | | |

ENGINEERING TECHNOLOGY

We use the latest technology to ensure speed and accuracy in making an engineering design, as follow: AutoCAD and TEKLA-Structure 3D model design and detailing, Graitec, Bentley Staad Pro, PV Elite, Compress Codeware, Ametank.



AutoCAD

AMETank
Field Erected and Shop Built Storage Tanks
Engineering Application Software



PV Elite



COMPRESSCODEWARE®
Code Specialists



AUTOMATIC CNC DRILLING & SAWING LINE

Size of the maximum I-beam can be processed:

1015 mm x 450 mm x 12000 mm

Unit : 1 Unit

Model : Ficep Excalibur 10-1003 DEB



AUTOMATIC SHOT BLASTING AND PAINTING

Size : 1800mm x 800mm x 12000mm

Unit : 1 Unit

Model : Shandong XQ6920

Productivity : Steel Plate 1-2.5m/minute

Profiles 1-2m/minute



COMBINE CNC PLATE PROCESSING CENTRE

Size of the maximum plate can be processed:

80mm x 2540 mm x 12000 mm

Unit : 1 Unit

Model : Ficep Gemini HP25

Character : CNC



CNC PLATE PUNCHING LINE

Size of the maximum plate can be processed:

500 mm x 1500 mm x 20 mm

Unit : 1 Unit

Model : Ficep P83

Character : CNC



NC DRILLING MACHINE

Size of the maximum plate can be processed:

1200mm x 2400 mm x 80 mm

Unit : 1 Unit

Model : ZK-5550

Character : CNC Drilling Machine

Dia. Max : 50 mm



CNC OXYCUTTING MACHINE MULTITORCHES

Cutting Torch : 9 - Flame Cutting Torch

Cutting Size : W 3.5 m x L 12 m

Unit : 2 Unit

Character : - High speed productivity

- No cutting deflection

- Wide and long plate
cutting size



AUTOMATIC SHOT BLASTING AND PAINTING

Size : 1800mm x 800mm x 12000mm

Unit : 1 Unit

Model : Shandong Kaitai XQ6925

Productivity : Steel Plate 1-2.5m/minute
Profiles 1-2m/minute



Z PURLIN FORMING MACHINE

Size : 2.300x10.000 mm
Unit : 1 Unit
Model : WLFZ100-350
Character : Manual Operated



ROLLING PLATE MACHINE

Size : - 70 x 3000 mm
- 35 x 3000 mm
- 16 x 2000 mm
Unit : 1 Unit each
Model : W11S
Character : NC Operated



PROFILE ROLLING MACHINE

Profile Rolling Machine W24 S x 400 for maximum pipe 10
Unit : 1 Unit
Character : NC Operated



HYDRAULIC PRESS MACHINE

Size Outside Diameter: 4000 x 40mm
Unit : 1 Unit
Cap : 1000 T
Character : Manual Operated



FLANGING MACHINE

Size Outside Diameter: 4000 x 28mm
Unit : 1 Unit
Character : Manual Operated



SAW COLUMN WELDING MACHINE

Size of shell Outside Diameter: 4000 mm

Unit : 2 Unit

Character : Manual Operated



HEAD BEVELING

Size Outside Diameter: 3500 x 750

Unit : 1 Unit

Character : Manual Operated



AUTO SUBMERGED ARC WELDING

Size : 1200 x 30000

Unit : 2 Unit

Model : Gantry



BUILT UP LINE STRAIGHTENING

Built up line straightening machine for width 200-800 mm and thickness 6-40 mm and web minimum 250-1600 mm.

Unit : 2 Unit



RADIAL DRILL MACHINE

Size Maximum of Drilling 50 mm

Unit : 3 Unit

Character : Manual Operated

STEEL STRUCTURE PROJECT



BIODIESEL TARJUN

Location : Tarjun, Kalimantan Selatan
Client : PT. Paramita Bangun Sarana
Year : 2013



NEW FACTORY PT. SUGIURA INDONESIA

Location : Karawang, Jawa Barat
Client : PT. Indonakano
Year : 2012



MASJID 99 KUBAH MAKASSAR

Location : Makassar, Sulawesi Selatan
Client : PT. Fatimah Indah Utama
Year : 2017



PLTU-3 BANTEN TRESTLE TOWER

Location : Banten, Jawa Barat
Client : Shandong Electric Power Company
Year : 2009



PT. SGI INDONESIA

Location : Cikarang, Jawa Barat
Client : PT. Jaya Obayashi
Year : 2012



HPPM NEW FACTORY

Location : Karawang Timur, Jawa Barat
Client : PT. Takenaka Indonesia
Year : 2013



SARI ROTI

Location : Gresik, Jawa Timur
Client : PT. Nippon Indosari Corpindo Tbk.
Year : 2018



SOFTEX INDONESIA

Location : Karawang
Client : PT. Tatamulia Nusantara Indah
Year : 2018



JAKARTA MASS RAPID TRANSIT

Location : Jakarta
Client : PT. Tokyu Construction Indonesia
Year : 2017



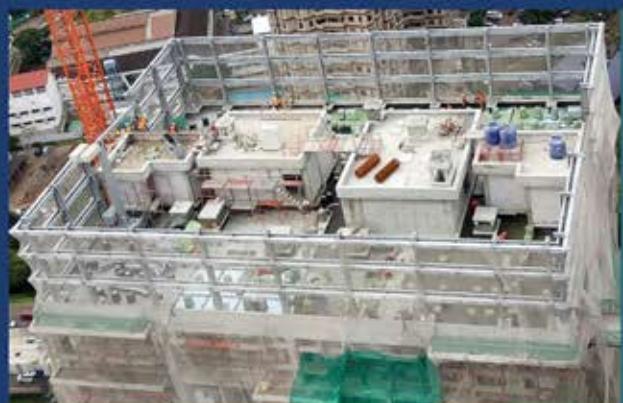
CONVEYOR BRIDGE

Location : Babelan, Bekasi, Jawa Barat
Client : PT. Silkar National
Year : 2017



HEAD RACE TUNNEL SUPPORT

Location : Toba Samosir, Sumatera
Client : PT. Woori Technic Abadi
Year : 2017



BRAND APARTMENT

Location : Jakarta
Client : PT. Jaya Obayashi
Year : 2017



PT. METRO PEARL INDONESIA

Location : Purwakarta, Jawa Barat
Client : PT. Citra Karsa Dinamika
Year : 2016



FACTORY PT. MAXXIS INTERNATIONAL INDONESIA

Location : Deltamas, Cikarang, Bekasi
Client : PT. SMCC Utama Indonesia
Year : 2016



P&G SDC BUILDING

Location : Karawang, Jawa Barat
Client : PT. Procter & Gamble Indonesia Tbk.
Year : 2016



FACTORY PT. KOBE BOGA UTAMA

Location : Tangerang, Jawa Barat
Client : PT. Kobe Boga Utama
Year : 2016



GEREJA KATOLIK ST. ANDREAS KIM TAE GON

Location : Kelapa Gading, Jakarta
Client : Gereja Katolik St. Andreas
Kim Tae Gon
Year : 2016



PT. TETRA PAK NEW BUILDING

Location : Cibitung, Jawa Barat
Client : PT. Citra Karsa Dinamika
Year : 2015



P&G HC BUILDING

Location : Karawang, Jawa Barat
Client : PT. Procter & Gamble Indonesia Tbk.
Year : 2014



PLTGU BABELAN

Location : Babelan, Bekasi, Jawa Barat
Client : PT. Silkar National
Year : 2014



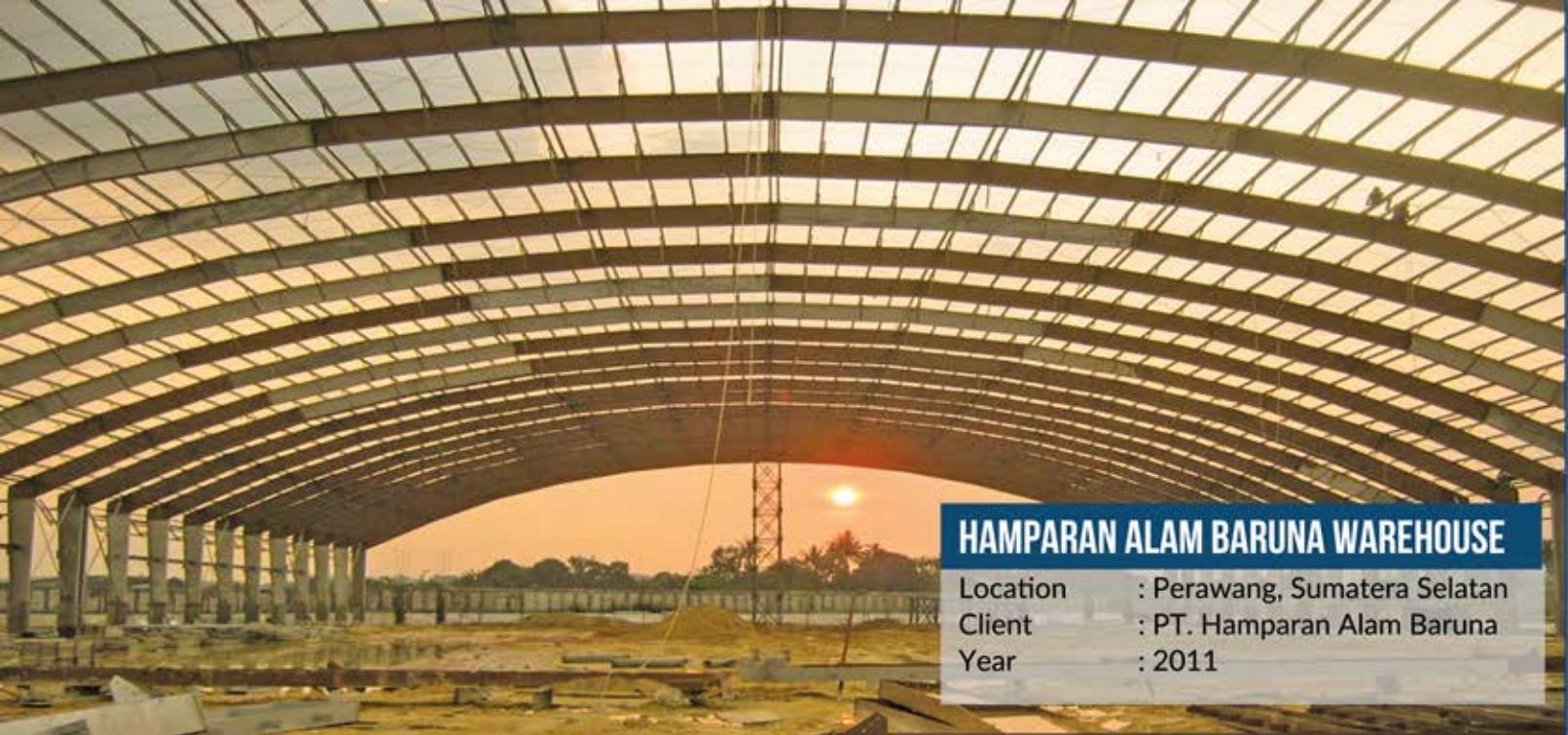
CONVEYOR PLTU 3 BANTEN

Location : Banten, Jawa Barat
Client : Shandong Electric Power Company
Year : 2009



FRACTINATION & PHYSICAL REFINERY

Location : Cilegon, Banten, Jawa Barat
Client : PT. Selago Makmur Plantation
Year : 2014



HAMPARAN ALAM BARUNA WAREHOUSE

Location : Perawang, Sumatera Selatan
Client : PT. Hamparan Alam Baruna
Year : 2011



REFINERY & FILLING WAREHOUSE

Location : Marunda, Jakarta Utara
Client : PT. Paramita Bangun Sarana
Year : 2013



TECHNOPARK NEW FACTORY

Location : Karawang, Jawa Barat
Client : PT. Surya Cipta Swadaya
Year : 2013



COCA-COLA

Location : Cibitung, Jawa Barat
Client : PT. Leighton Contractors Indonesia
Year : 2012



POWER PLANT BATURAJA 2X10 MW

Location : Baturaja, Sumatera Selatan
Client : PT. Bakti Nugraha Yuda Energy
Year : 2012



PT. KATSHUSIRO INDONESIA FACTORY

Location : Cibitung, Jawa Barat
Client : PT. SMCC Utama Indonesia
Year : 2012



VDC - BMW

Location : Jakarta
Client : PT. Cipta Selaras
Year : 2012



PT. PUNINAR PACIFIC FACTORY

Location : Cakung, Bekasi, Jawa Barat
Client : PT. Nusa Raya Cipta
Year : 2011



EQUIPMENT & PIPERACK

Location : Cilegon, Banten, Jawa Barat
Client : PT. SMCC Utama Indonesia
Year : 2011



GARUDA WAREHOUSE

Location : Cikarang, Jawa Barat
Client : PT. ICI Paint Indonesia
Year : 2011



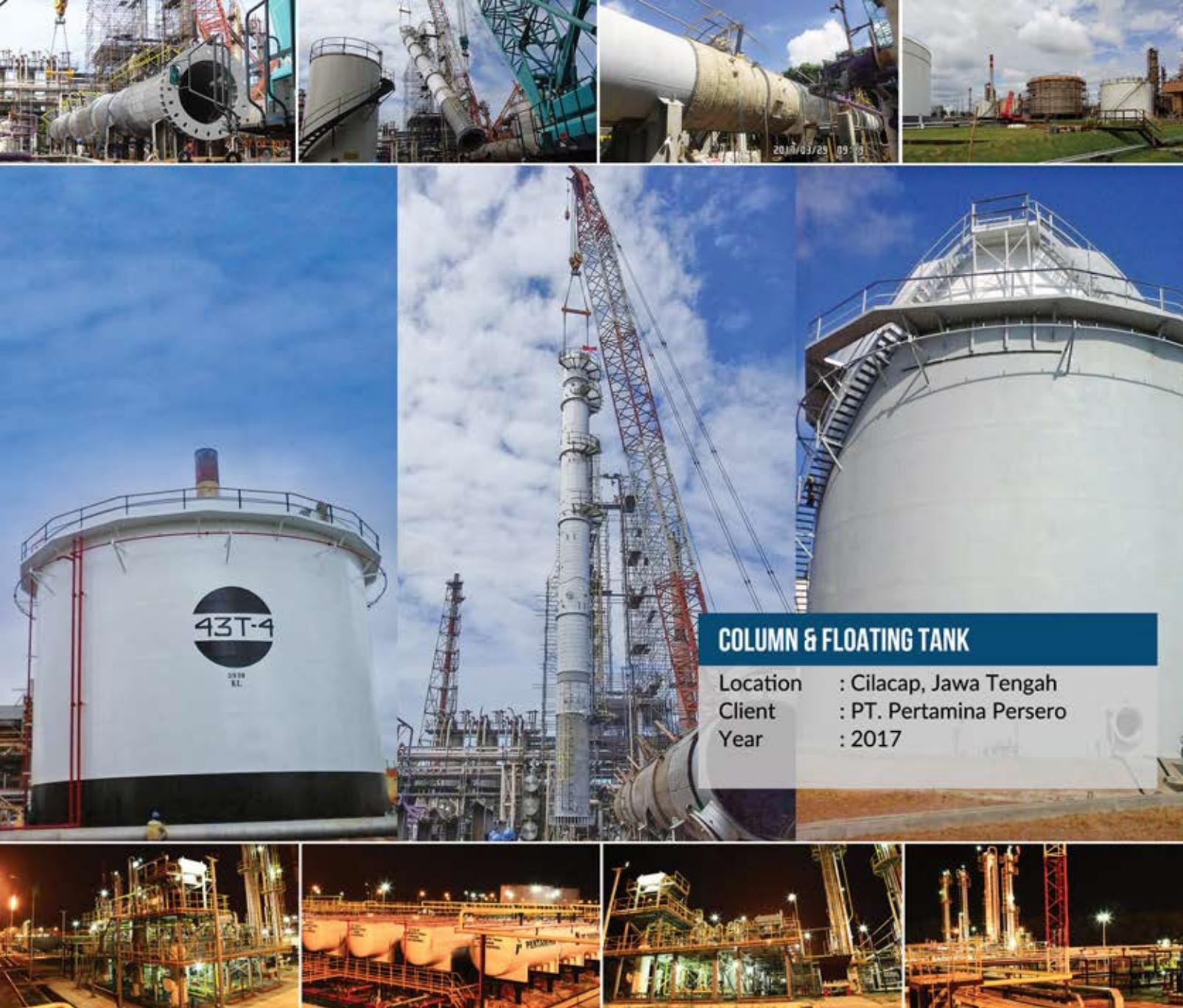
POWER PLANT (PLTU BANTEN)

Location : Banten, Jawa Barat
Client : Shandong Electric Power Company
Year : 2009



PRESSURE VESSEL PRODUCT





LPG PLANT

Location : Tuban, Jawa Timur
Client : PT. Gasuma Federal Indonesia
Year : 2011





PLANT TAMBUN

Location : Tambun, Jawa Barat
Client : PT. Odira Energi Persada
Year : 2012

CONDENSATE RECOVERY FACILITIES

Location : Tambun, Jawa Barat
Client : PT. Odira Energi Persada
Year : 2012



MSFGU TUBAN

Location : Tuban, Jawa Timur
Client : PT. Gasuma Federal Indonesia
Year : 2013



TRANSPORT LPG TANK

Location : Garut, Jawa Barat
Client : PT. Chevron Geothermal
Year : 2009



LPG MINI PLANT - SPHERICAL TANK CAP. 500T

Location : Pondok Tengah
Client : PT. Yudhistira Energy
Year : 2010



STORAGE TANK FOR CPO

Location : Marunda, Jakarta Utara
Client : PT. Paramita Bangun Sarana
Year : 2013



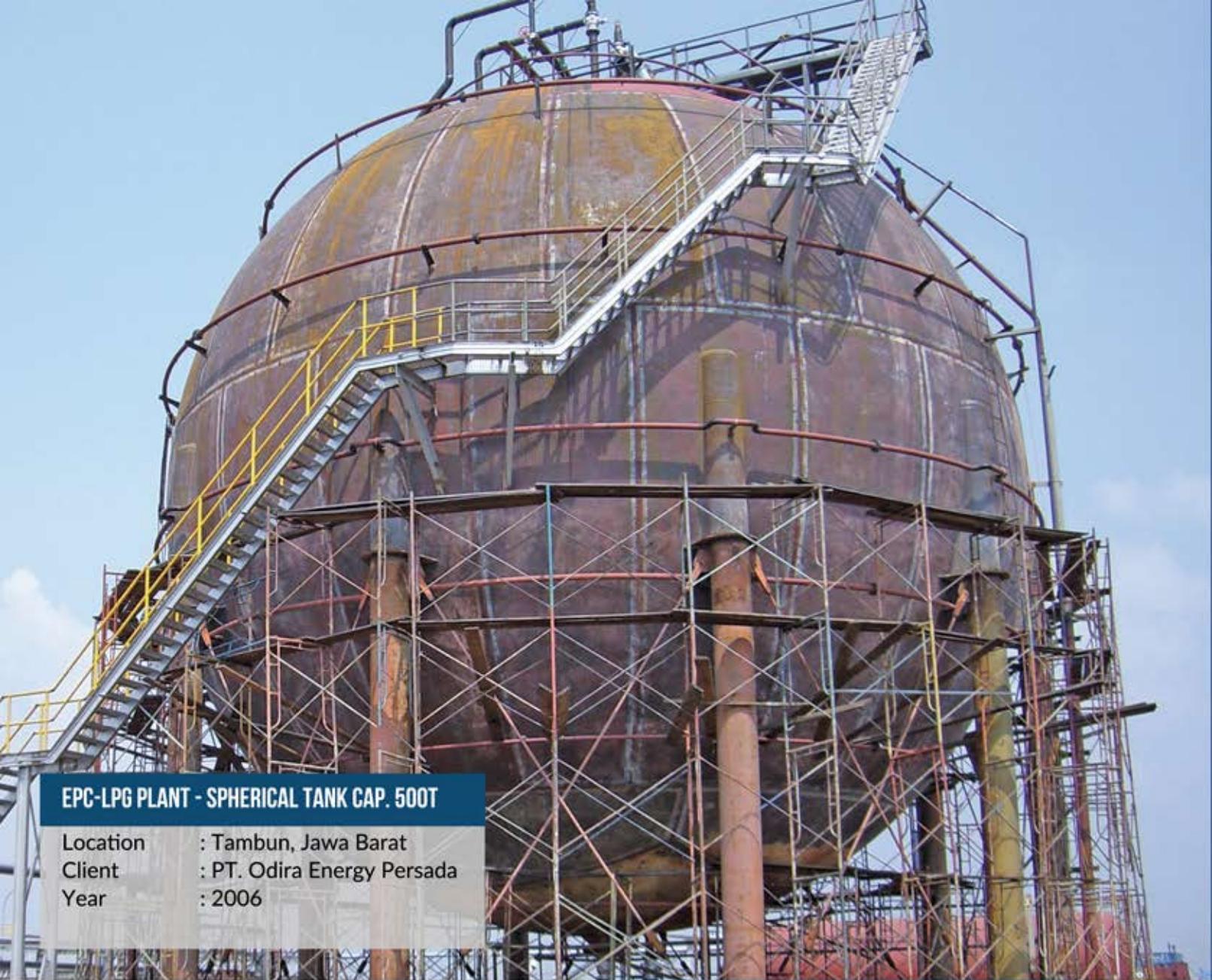
GAS SEPARATOR CAP. 300MMSCFD

Location : Palembang, Sumatera Selatan
Client : PT. Torindo Utama Sakti
Year : 2014



STEAM SCRUBBER

Location : Cilegon, Jawa Barat
Client : PT. Selago Makmur Plantation
Year : 2014





GAS METERING SYSTEM

Location : Sorong, Papua
Client : PT. Duta Instrument Alfa Sakti
Year : 2014



STEAM SEPARATOR

Location : Marunda, Jakarta Utara
Client : PT. Buana Nitannindo Gas
Year : 2014



BULK CEMENT TANK

Location : Gresik, Jawa Timur
Client : PT. Halliburton Indonesia
Year : 2007



CHILLER PACKAGE

Location : Tambun, Jawa Barat
Client : PT. Odira Energy Persada
Year : 2006



NITROGEN COOLER EXCHANGER

Location : Pertamina
Client : PT. Gaspro Sentraco
Year : 2014



FABRIKASI BODEM

Location : Workshop GSB
Client : PT. Grand Cartec
Year : 2015



INFRASTRUCTURE FACILITY PRODUCTS
GANTRY CRANE/GIRDER



OUR CLIENTS



PT SMCC UTAMA
INDONESIA



PT. Silkar National



MURINDA



PT. CITRA KARSA DINAMIKA



PT. KAJIMA INDONESIA



GENERAL CONTRACTOR



INDUSTRI &
KONSTRUKSI



PT. JAYA OBAYASHI
GENERAL CONTRACTOR



PT. PP-Taisei INDONESIA CONSTRUCTION



Engineering and Construction



PLATINUM
CERAMICS INDUSTRY



PENTA OCEAN
CONSTRUCTION CO. LTD.
五洋建設



SAS



PT. GASPRO SENTRACO



PGAS SOLUTION
action for excellence



PROJECT REFERENCE

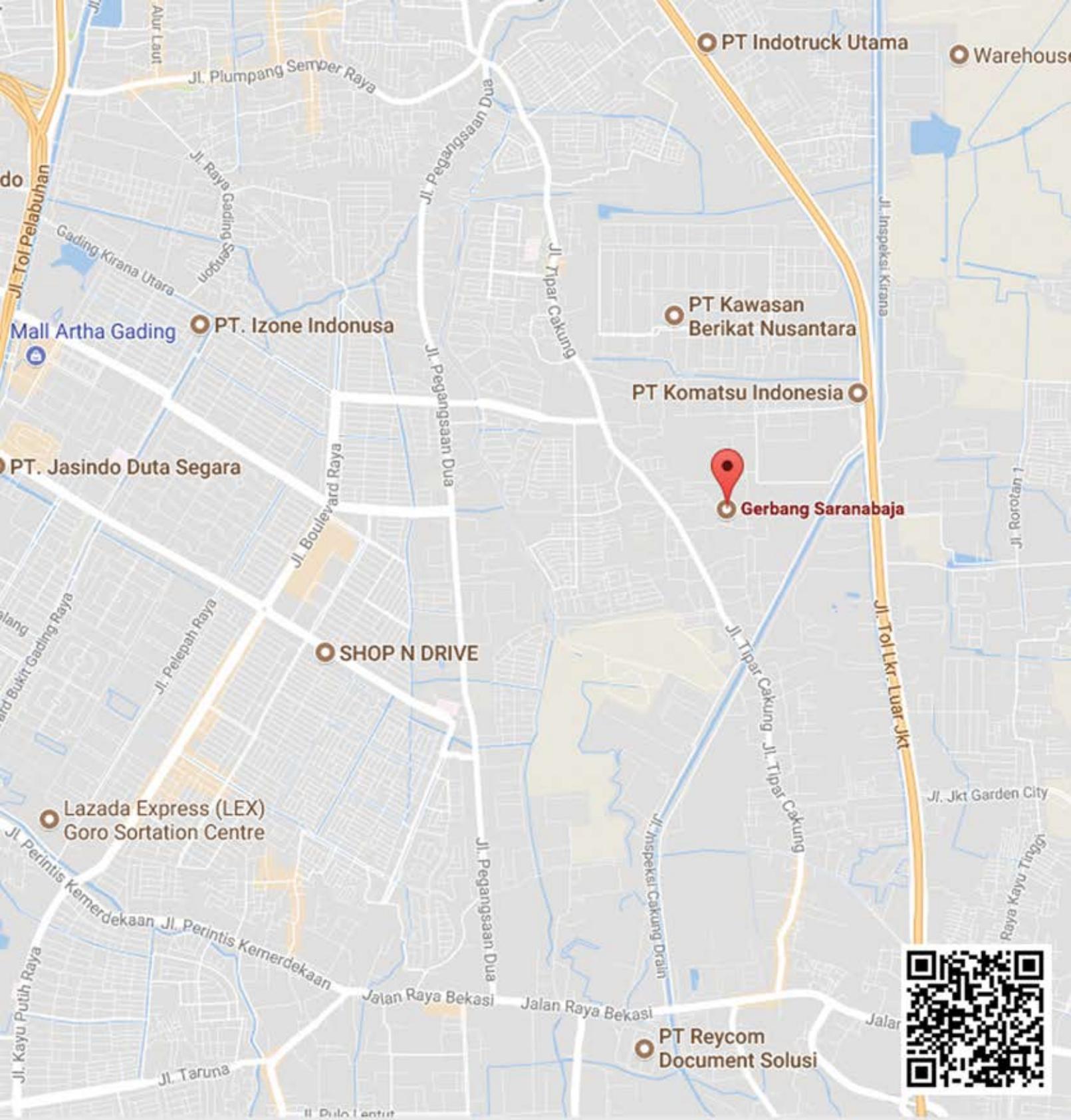
STEEL STRUCTURE WORKS

| NO | CLIENT | PROJECT | LOCATION | TONNAGE | YEAR |
|----|-------------------------------------|---|-------------|---------|------|
| 1 | PT. SMCC Utama Indonesia | Additional Work PT. Maxxis International Indonesia | Cikarang | 606 | 2017 |
| 2 | PT. Cipta Baja Trimatra | Gudang MMP Blok AE3 | Jakarta | 597 | 2017 |
| 3 | PT. Modern Widya Technical | OKI Mill Project – Tissue Machine Hall | Palembang | 650 | 2017 |
| 4 | PT. Paramita Bangun Sarana | Tissue Culture Phase II | Bogor | 500 | 2017 |
| 5 | PT. Kobe Boga Utama | Kobe Steel Structure | Tangerang | 520 | 2016 |
| 6 | PT. Tokyu Construction Indonesia | Jakarta Mass Rapid Transit | Jakarta | 1.862 | 2016 |
| 7 | PT. Citra Karsa Dinamika | Shoes Factory PT. Metro Pearl Indonesia | Purwakarta | 744 | 2016 |
| 8 | PT. Danwoo Steel Sejati | Shoes Factory | Brebes | 500 | 2016 |
| 9 | PT. SMCC Utama Indonesia | New Factory PT. Maxxis International Indonesia | Cikarang | 3.050 | 2016 |
| 10 | PT. Silkar National | Conveyor Bridge PT. Cikarang Listrindo | Bekasi | 525 | 2016 |
| 11 | PT. SLP Internusa | Warehouse PT SLP Internusa | Karawang | 794 | 2015 |
| 12 | PT. Paramita Bangun Sarana | Biodiesel Plant | Bekasi | 2.332 | 2015 |
| 13 | PT. Procter & Gamble Indonesia Tbk. | Warehouse Center PT. P&G | Karawang | 1.228 | 2015 |
| 14 | Penta Ocean Construction Co., Ltd. | Pipe Rack PT. Asahimas Chemical | Cilegon | 800 | 2015 |
| 15 | PT. Paramita Bangun Sarana | Golden Chemical Renewable | Lubuk Gaung | 1.220 | 2015 |
| 16 | PT. Paramita Bangun Sarana | Biodiesel Tarjun Phase IV | Kal Sel | 952 | 2014 |
| 17 | PT. Paramita Bangun Sarana | Tarjun Phase IV | Kal Sel | 1.408 | 2014 |
| 18 | PT. Murinda Iron Steel | Nutrifood | Cibitung | 514 | 2014 |
| 19 | PT. Procter & Gamble Indonesia Tbk. | P&G Production Building | Karawang | 1.280 | 2014 |
| 20 | PT. Leighton Contractors Indonesia | Evoluzione Tyres Indonesia Moto Plant | Subang | 800 | 2014 |
| 21 | PT. Bluescope Lysaght Indonseia | PT. JFE Galvanizing Indonesia | Cibitung | 800 | 2014 |
| 22 | PT. Silkar National | Cikarang Listrindo - Coal Fired Power Plant | Bekasi | 578 | 2014 |
| 23 | PT. Leighton Contractors Indonesia | Coca-Cola Warehouse | Semarang | 604 | 2014 |
| 24 | PT. Incasi Raya Group | PT. Selago Makmur Plantation - Physical Refinery | Cilegon | 1.053 | 2013 |
| 25 | PT. Jaya Obayashi | GA Shop - PT. Isuzu Astra Motor Indonesia | Karawang | 1.089 | 2013 |
| 26 | PT. Samudra Teknindo Hydraumatic | PT. Indonesia International Expo | Serpong | 900 | 2013 |
| 27 | PT. Platinum Ceramics Industry | Warehouse PT. Platinum Ceramic Industri | Karawang | 803 | 2013 |
| 28 | PT. Paramita Bangun Sarana | New Warehouse Marunda Refinery Plant | Bekasi | 1.389 | 2013 |
| 29 | PT. Takenaka Indonesia | HPM New Factory | Karawang | 664 | 2013 |
| 30 | PT. Surya Cipta Swadaya | Technopark New Factory | Karawang | 817 | 2013 |
| 31 | PT. Cipta Selaras | VDC BMW | Jakarta | 677 | 2012 |
| 32 | PT. Bluescope Lysaght Indonseia | Coca-Cola Warehouse | Cibitung | 1.159 | 2012 |
| 33 | PT. Jaya Obayashi | PT. SGI Indonesia | Cikarang | 684 | 2012 |
| 34 | PT. SMCC Utama Indonesia | Factory & Office PT. Katsushiro Indonesia | Cibitung | 606 | 2012 |
| 35 | PT. Bakti Nugraha Yuda Energy | PLTU Baturaja 2 x 10 MW - Main Power | Baturaja | 1.328 | 2012 |
| 36 | PT. Murinda Iron Steel | PT. Gudang Garam | Kediri | 510 | 2011 |
| 37 | PT. Nippon Shokubai Indonesia | PT. Nippon Shokubai Indonesia | Cilegon | 2.060 | 2011 |
| 38 | PT. Hamparan Alam Baruna Indonesia | Gudang Pupuk | Perawang | 914 | 2011 |
| 39 | PT. Nusa Raya Cipta | Factory PT. Puninar Pacific | Cakung | 850 | 2011 |
| 40 | PT. Ciptamega Arief Sejati | Factory PT. San Fang Indonesia | Cikande | 1.172 | 2010 |
| 41 | PT. Cipta Selaras | PDC Danau Sunter Extension Astra International Daihatsu | Jakarta | 1.243 | 2010 |
| 42 | Shandong Electric Power Company | Power Plant PLTU Banten | Banten | 7.407 | 2009 |
| 43 | PT. Gunung Garuda | Power Plant | Lampung | 1.100 | 2009 |

PROJECT REFERENCE

PRESSURE VESSEL WORKS

| NO | CLIENT | PROJECT | YEAR |
|----|---|---|------|
| 1 | PT. Yerry Primatama Hosindo | Gasoline Filter | 2017 |
| 2 | PT. Paramita Bangun Sarana | Silencer Outside Diameter : 844mm x 1000mm | 2017 |
| 3 | PT. Duta Instrument Alfa Sakti | Dry Gas Filter 24", 16", 8" | 2017 |
| 4 | PT. Inako Persada | Air Receiver Tank (Utility Air Tank), Piping, and Skid | 2017 |
| 5 | PT. Star Energy Geothermal (Wayang Windu) LTD | Atmospheric Test Separator | 2017 |
| 6 | PT. Industri Kompresor Indonesia | Retubing Heat Exchanger | 2017 |
| 7 | PT. Duta Instrument Alfa Sakti | Meter Tube 18" SCH XS - ANSI 300 | 2017 |
| 8 | PT. Sarana Samudra Raksa | Light Buoy SW240-E & Pile Beacon 5M | 2017 |
| 9 | PT. Rizky Anugerah Engineering | Air Receiver Tank | 2017 |
| 10 | CV. Sarana Samudra Raya | Shallow Water Light Buoy (SW-240E), Galvanized Pile Beacon 10M & 7.5M | 2017 |
| 11 | PT. Sarana Samudra Raksa | Galvanized Pile Beacon 10M x 7.5 M | 2017 |
| 12 | PT. Anugerah Mortar Abadi | Silo 4 x 70 M3 | 2017 |
| 13 | PT. Duta Instrument Alfa Sakti | Metering System 16" - ANSI 300# SCH 40 | 2017 |
| 14 | PT. Trimitra Wisesa Abadi | Bare Vessel Filter (Cap. 6 T)/Boiler | 2017 |
| 15 | PT. Citra Dua Sejati | Air Tank Cap. 60 Gallons | 2017 |
| 16 | PT. Dwigasindo Abadi | Acetylene Purifier Tank | 2017 |
| 17 | PT. Fedsin Rekayasa Pratama | Bare Vessel Degasser Vessel & Hydrocyclone | 2016 |
| 18 | PT. Gaspro Sentraco | Propane Heater | 2016 |
| 19 | PT. Draco Internasional | Bare Vessel Scrubber 16" - 150# | 2016 |
| 20 | PT. Tetra Pak Stainless Equipment | Skirt Silo 120.000 L - 3 Unit | 2016 |
| 21 | PT. Vastorindo Djaya Semesta | Menara Astra Firetank | 2016 |
| 22 | PT. Trimitra Wisesa Abadi | Thermal Oil Heater | 2016 |
| 23 | PT. Pertamina (Persero) RU IV Cilacap | Column 91C403 & Floating Tank 43T4 with Accessories | 2016 |
| 24 | PT. Petrotec Rekayasa Dinamika | Skid & Instrument Air Compressor Package (Air Receiver Tank) | 2016 |
| 25 | PT. Inako Persada | Bare Vessel Air Instrument Tank | 2016 |
| 26 | PT. Duta Instrument Alfa Sakti | Gas Filter - Petrochina Bare Vessel Scrubber 6" - 300# - 2 Units | 2016 |
| 27 | PT. Paramita Bangun Sarana | Vessel Tank (9 Unit) Tank Gaung Oleochemical - Block 2 Dumai | 2016 |
| 28 | PT. Buana Nittanindo Gas | Propane Transport Tank Cap. 10 Ton | 2016 |
| 29 | PT. Dwi Mutiara Sejahtera | Hydrogen Tank Cap. 25 M3 | 2016 |
| 30 | PT. Kimia Yasa | Tangki Cap. 4 Ton - ST 415 | 2015 |
| 31 | CV. Sarana Samudra Raya | Mooring Buoy Diameter 2600mm Outside Diameter x 1900mm | 2015 |
| 33 | PT. Gunanusa Utama Fabricators | PHE WMO EPSC1 Project - Vessel 12 Unit | 2015 |
| 34 | PT. Pertamina (Persero) RU IV Cilacap | Tank 43T102 | 2015 |
| 35 | PT. Torindo Utama Sakti | Gas Scrubber Pertamina Gas - Cirebon - Semarang - Tanjung Priok | 2015 |
| 36 | CV. Sarana Samudra Raya | Shallow Water Light Buoy (SW-240E) | 2015 |
| 37 | PT. Alam Bersemi Sentosa | "Second Stage Separator" Fabrication Test/Production Separator | 2015 |
| 38 | PT. Adiguna Shipbuilding & Engineering | Air Receiver Tank | 2015 |
| 39 | PT. Trimitra Wisesa Abadi | Boiler Cap. 5 Ton | 2015 |
| 40 | PT. SAS International | Gas Metering System 6" - ANSI 600# | 2015 |
| 41 | PT. Citra Dua Sejati | Knock Out Drum | 2015 |
| 42 | PT. Pertamina (Persero) RU II Dumai | Liquid Seal Drum C/W Accessories at Area 915 Oil Movement | 2015 |
| 43 | PT. Yudhistira Energy | Propane Condenser C/W | 2015 |
| 44 | PT. Ramai Jaya Abadi | Storage Tank - 3 Unit | 2015 |



PT. GERBANG SARANABAJA

Design and Build, Fabrication and Construction of Steel Structure,
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