



ABOUT WIKAIKON

PT Wijaya Karya Industri & Konstruksi (WIKAIKON) is a subsidiary of PT Wijaya Karya (Persero) Tbk which has businesses in the fields of Steel Fabrication, Plastic, Pressing & Casting (PPC) and Construction Heavy Equipment.



VISION & MISSION

VISION

"To be a **trusted partner** in the **sustainable** Steel Fabrication and Automotive Components Sector."

MISSION

- To ensure profitability that supports sustainable business growth.
- To build trust through quality, product innovation, and excellent services.
- To collaborate with stakeholders in creating added value.
- To uphold good corporate governance while promoting environmental sustainability.
- To develop unique competencies to achieve a competitive advantage.

CORPORATE VALUE

• Amanah

We uphold the trust given

• Kompeten

We continue to learn and develop capabilities

• Harmonis

We care for each other and value differences

• Loyal

We are dedicated and prioritize the interests of the nation

• Adaptif

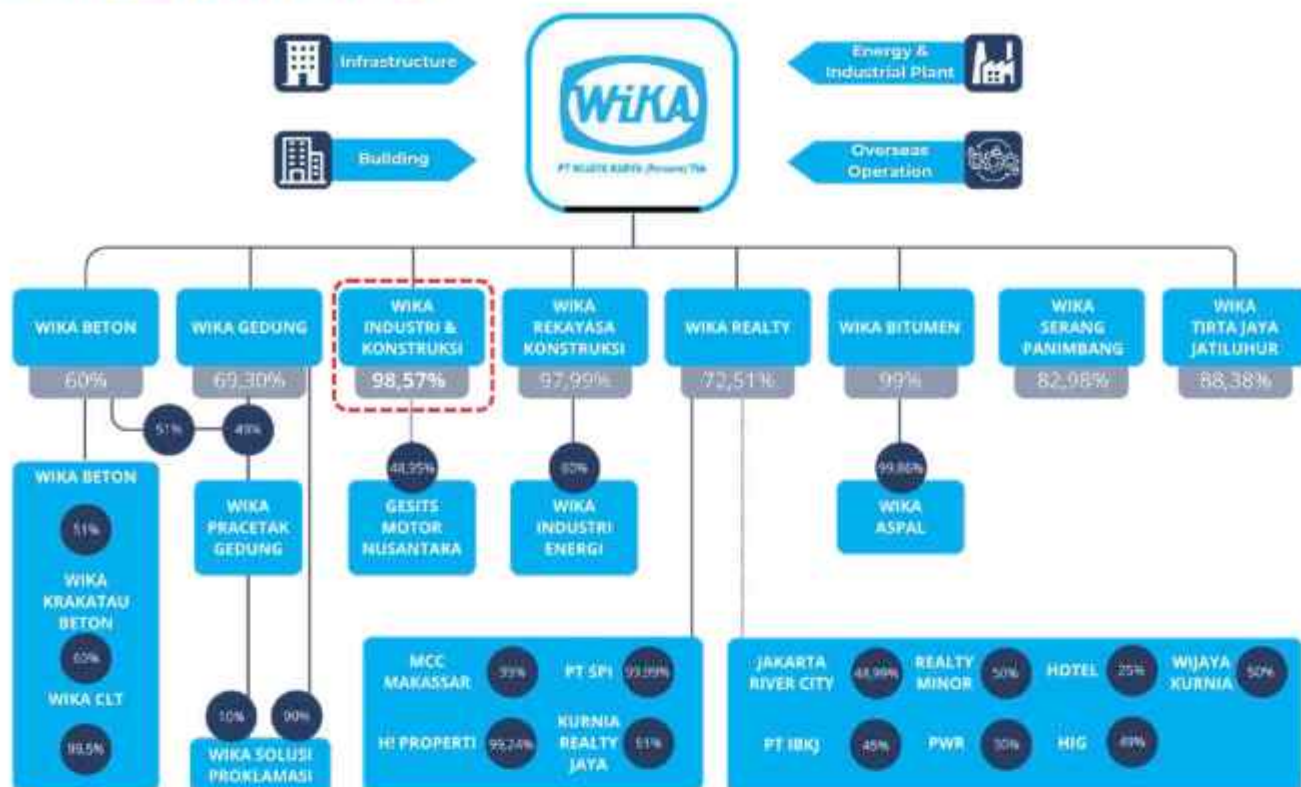
We continue to innovate and are enthusiastic in driving or facing change

Kolaboratif

- We build synergistic cooperation

WIKA GROUP

BUSINESS PORTOFOLIO



BUSINESS PORTOFOLIO

Our main products and services are implemented and developed in an integrated manner which is grouped into 3 (three) business sectors, namely:



OPERATION AREA

Head Office
Factory
Airport
Harbour

: Wika Tower II, Lantai 10 Jl. D.I. Panjaitan Kav 10. Cipinang Cempedak, Jakarta Timur
: Bogor & Majalengka
: Soekarno-Hatta International, Halim Perdana Kusuma, Kertajati, Husein Sastranegara
: Cilegon, Tanjung Priok, Cirebon, Patimban



WIKAIKON FACTORY

**PLASTIC, PRESSING
& CASTING FACTORY**



Jln. Raya Narogong KM 26, Cileungsi, Kab. Bogor



Total Area :
± 2 Ha

Workshop Area

- Pressing product : 1.448 Ton
- Plastic & Painting : 138 Ton
- Aluminium Casting : 1.827 ton
- Cathodic Protection : 998 Ton



Plastic



Pressing



Casting



Cathodic Protection



Bogor Location

MAJALENGKA STEEL FABRICATION FACTORY



Total Area
± 30 Ha

Workshop Area

- Length : 500 m'
- Width : 5 x 25 m'
- Production Lines : 4 lines
- Painting Line : 1 line

Production Capacity 65.000 Ton per year

Jln. Raya Cirebon-Bandung KM 31, Desa Cisambeng, Kec. Palasah, Kab. Majalengka

STOCKYARD AREA

RAW MATERIAL 1/1 Ha
FINISH GOOD 2/3 Ha

PRODUCTION LINE

6 LINES

PAINTING LINE

1 LINE

WELDED BEAM	PRODUCTION LINE 1	BLASTING PAINTING
PLATE CUTTING	PRODUCTION LINE 2	
PROFL CUTTING	PRODUCTION LINE 3	
PLATE WORK	PRODUCTION LINE 4	
	PRODUCTION LINE 5	

Production Line 1



Production Line 2



Production Line 3



Production Line 4



Production Line 5



Masterpiece Product, UNIBRIDGE

The reamer machine is used specifically for processing WIKAIKON.



MAJALENGKA HEAVY EQUIPMENT WORKSHOP



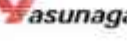
Majalengka Location

Jln. Raya Cirebon-Bandung KM 31, Desa Cisambeng, Kec. Palasah, Kab. Majalengka

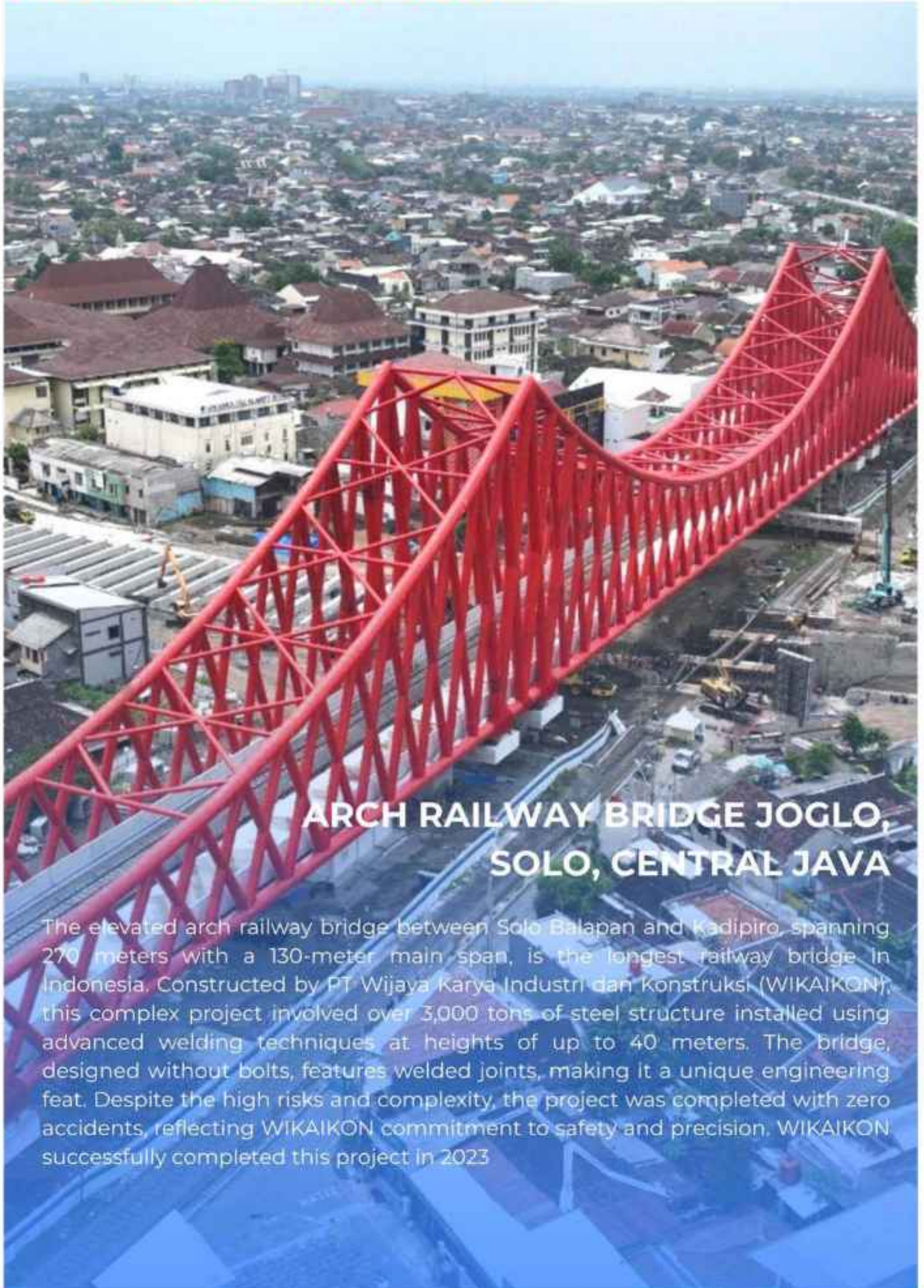
CERTIFICATE



CUSTOMER

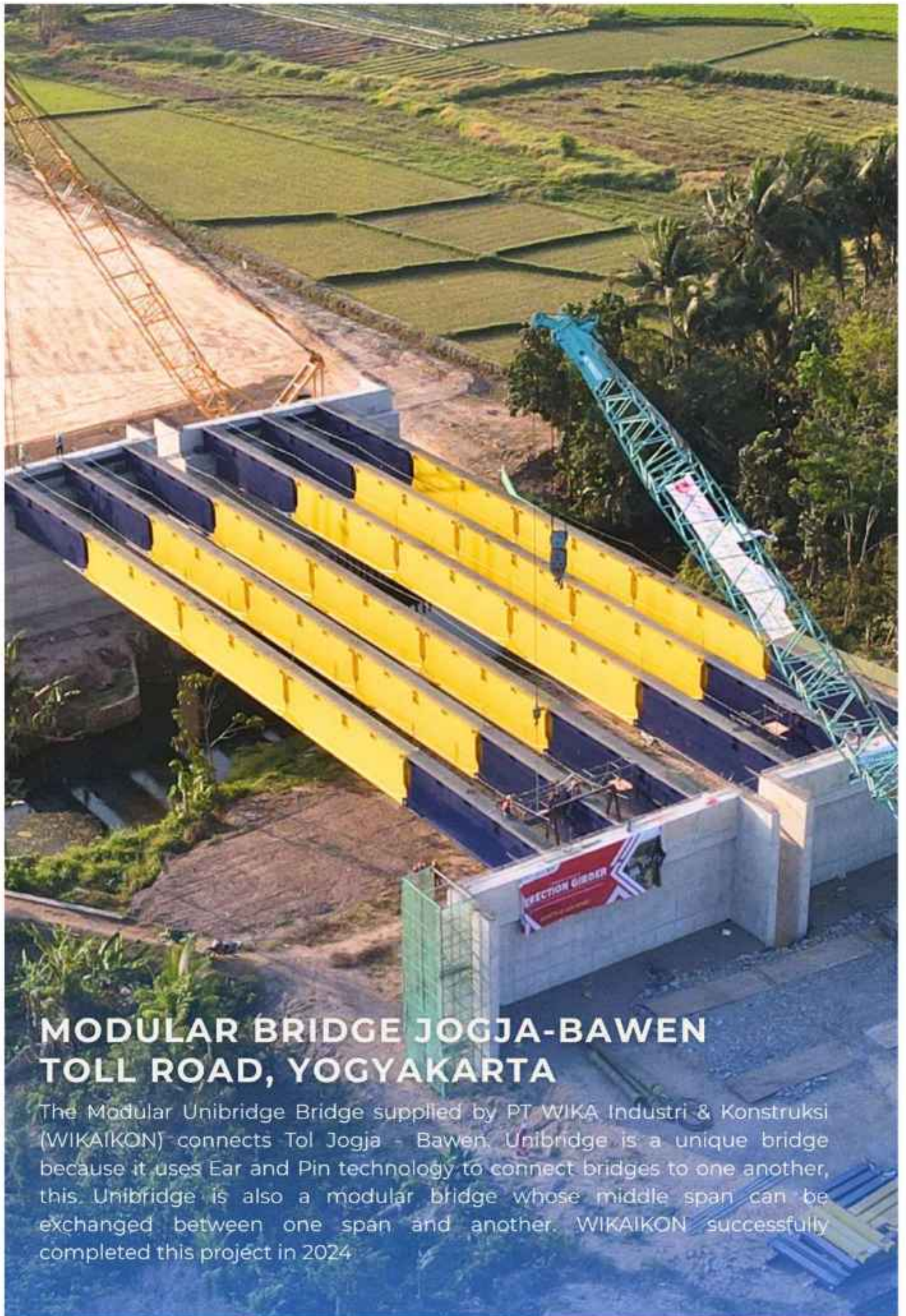
Project Owner	   
In Collaboration with	      
Industrial & Mining	                    
Transportation & Logistics	       
Otomotif	                
Electronic	   

OUR EXPERIENCE



ARCH RAILWAY BRIDGE JOGLO, SOLO, CENTRAL JAVA

The elevated arch railway bridge between Solo Balapan and Kadipiro, spanning 270 meters with a 130-meter main span, is the longest railway bridge in Indonesia. Constructed by PT Wijaya Karya Industri dan Konstruksi (WIKAIKON), this complex project involved over 3,000 tons of steel structure installed using advanced welding techniques at heights of up to 40 meters. The bridge, designed without bolts, features welded joints, making it a unique engineering feat. Despite the high risks and complexity, the project was completed with zero accidents, reflecting WIKAIKON's commitment to safety and precision. WIKAIKON successfully completed this project in 2023.



MODULAR BRIDGE JOGJA-BAWEN TOLL ROAD, YOGYAKARTA

The Modular Unibridge Bridge supplied by PT WIKAI Industri & Konstruksi (WIKAIKON) connects Tol Jogja - Bawen. Unibridge is a unique bridge because it uses Ear and Pin technology to connect bridges to one another, this Unibridge is also a modular bridge whose middle span can be exchanged between one span and another. WIKAIKON successfully completed this project in 2024.

OUR EXPERIENCE

BRIDGE

STEEL BOX GIRDER



Dawuan Junction Toll Road - West Java



Fly Over Aloha Project - East Java



Jalan Tol Ancol Timur - Pluit (Elevated) Harbour Road II



Jogja Bawen Toll Road - Central Java



APMS Soekarno Hatta International Airport Project - Banten



Jakarta Cikampek II Toll Road Project

UNIBRIDGE



Teluk Lamong Port Access Project - East Java



Manado Bitung Toll Road - North Sulawesi



Padang Pekanbaru Toll Road Project - West Sumatra



Munna Creek, Brisbane Australia
Balintawak and Alabang, Philippines

WE
EXPORT
UNIBRIDGE

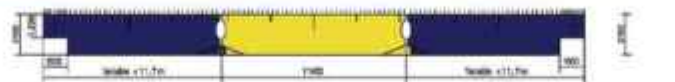
STEEL COMPOSITE BRIDGE – MODULAR TYPE

(STEEL COMPOSITE BRIDGE MODULAR TYPE)

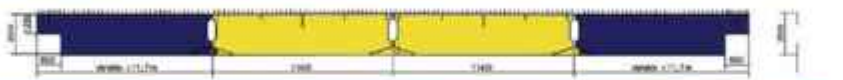


Modular Steel Composite Bridge is the latest innovation developed by PT Wijaya Karya Industri & Konstruksi, designed in collaboration with Matiere, France. The structure consists of modular segments connected using an Ear & Pin system, enabling faster, more precise, and efficient installation. Although each girder is relatively lightweight, it maintains a high nominal capacity through the use of high-strength steel materials and advanced fabrication technology.

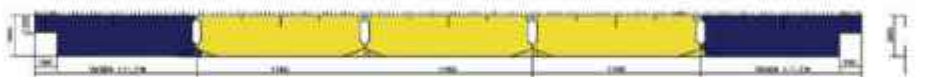
UB215 - SPAN LENGTH FROM 27 METER TO 34 METER



UB250 - SPAN LENGTH FROM 38 METER TO 45 METER

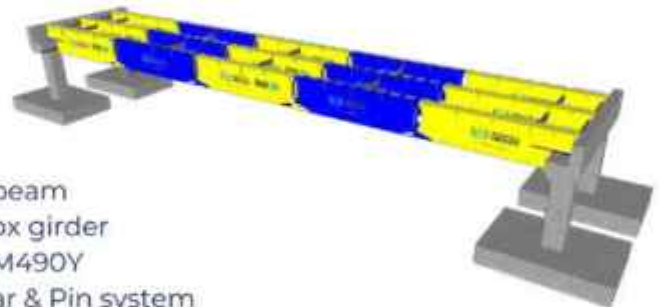


UB280 - SPAN LENGTH FROM 49 METER TO 56 METER



STRUCTURAL CHARACTERISTICS

1. Girder Length	: Girder Length: 35–57 m
2. Structural Type	: Structural Type: Simple beam
3. Structural Form	: Structural Form: Steel box girder
4. Plate Material	: Plate Material: SM570, SM490Y
5. Segment Connection	: Segment Connection: Ear & Pin system
6. Finishing	: Finishing: Painting protection system in accordance with ISO 12944

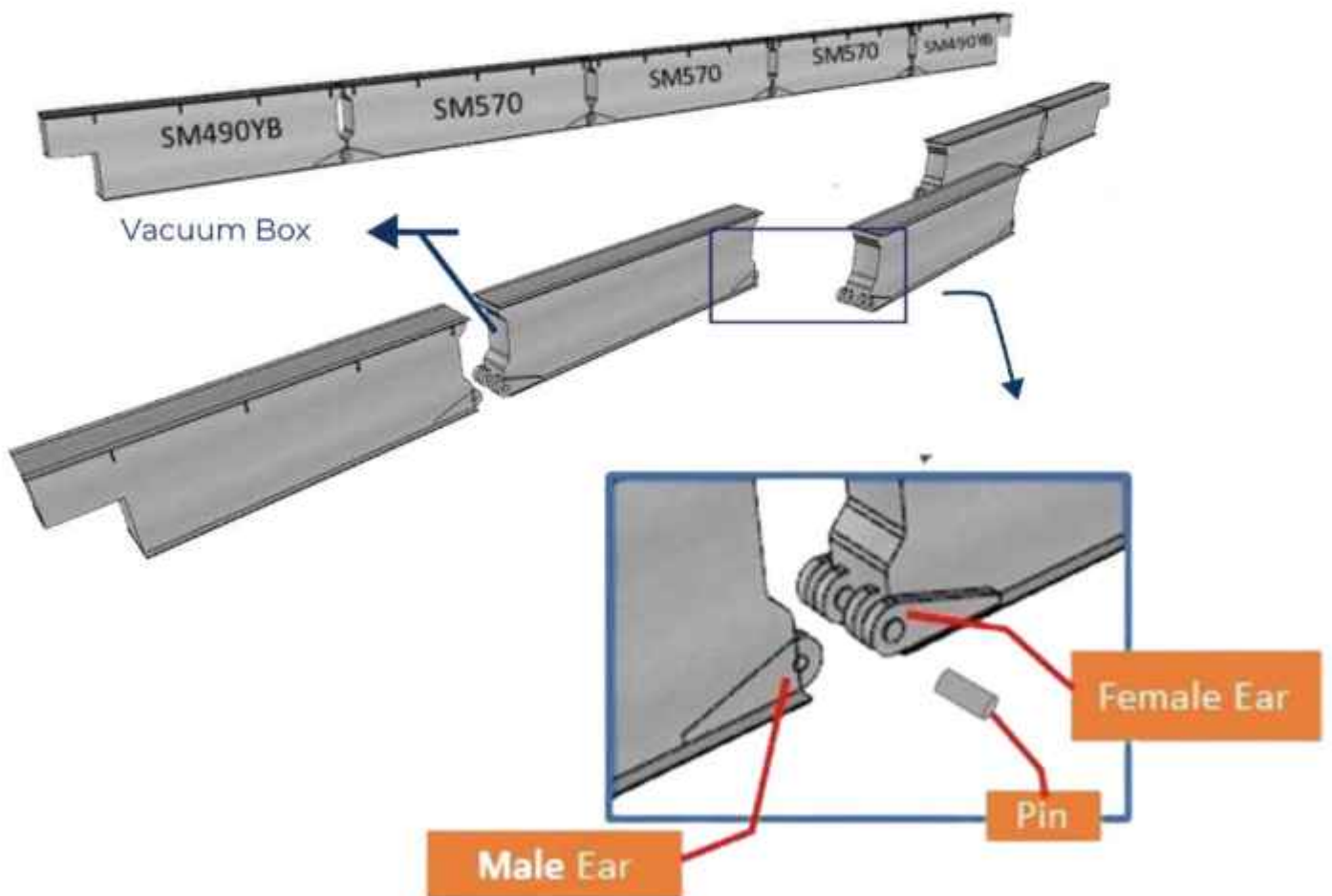


DESIGN STANDARDS

• SNI 1725-2016	: Bridge Loading
• AASHTO LRFD	: Bridge Design Specifications

ADVANTAGES OF THE MODULAR STEEL COMPOSITE BRIDGE

- Lower steel ratio ($\pm 280 \text{ kg/m}^2$)
- Lightweight structure with better performance against seismic effects
- Vacuum box segments, preventing corrosion
- Lighter upper structure
- Faster ground assembly and installation
- Simpler erection equipment required



TRUSS BRIDGE



MIP - South Sumatra



Benenain Malaka, East Nusa Tenggara



Merah Putih AGM - Amandit, South Kalimantan



Cisumdawu Toll Road - West Java



Cislih Bridge Project - Banten



Tulleng, Aler Regency, NTT

ARCH BRIDGE



Sosrodilogo Bridge - East Java



Tumbang Samba Bridge - Central Kalimantan



Soge Pacitan Bridge - East Java

RAILWAY BRIDGE



Double Track Railway - Central Java



WTT100 - Central Java



WTT - Central Java



Joglo Railway Elevated - Central Java



Wonokromo - East Java



Balasted - South Sumatra

SUSPENSION BRIDGE



Asimetris Suspension Bridge Span 60 - Banten



Asimetris Suspension Bridge Span 42



Trial Assembly - Majalengka Steel Factory

I GIRDER BRIDGE



Purworeja Sedayu Bridge



Fabrication Processes

STEEL STRUCTURE

INDUSTRIAL BUILDING



Coal Sheds PLTU 2x50 MW - Central Sulawesi



Smelter Freeport Indonesia - East Java



Amonium Nitrat Factory - East Kalimantan



Matindok - Central Sulawesi



Conveyor Indocement Plant - West Java



Warehouse Pelindo 2 - West Sumatra



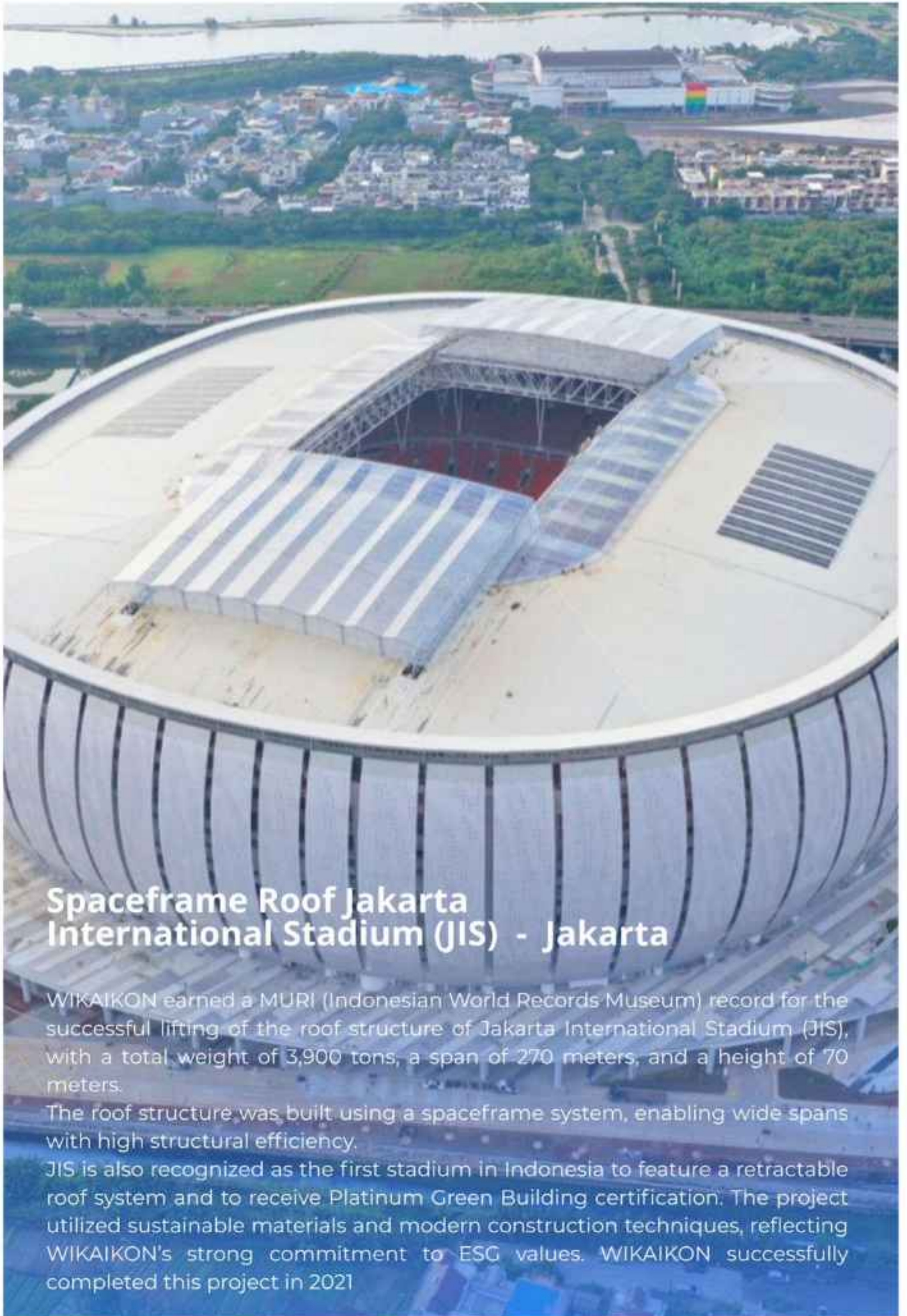
Hopper Chute Smelter Feronike Kolaka
Southeast Sulawesi



PEB 60m span structure without central support
Smelter Feronike Kolaka - Southeast Sulawesi



Park Building Rorotan - DKI Jakarta



Spaceframe Roof Jakarta International Stadium (JIS) - Jakarta

WIKAIKON earned a MURI (Indonesian World Records Museum) record for the successful lifting of the roof structure of Jakarta International Stadium (JIS), with a total weight of 3,900 tons, a span of 270 meters, and a height of 70 meters.

The roof structure was built using a spaceframe system, enabling wide spans with high structural efficiency.

JIS is also recognized as the first stadium in Indonesia to feature a retractable roof system and to receive Platinum Green Building certification. The project utilized sustainable materials and modern construction techniques, reflecting WIKAIKON's strong commitment to ESG values. WIKAIKON successfully completed this project in 2021.



Power Plant 850 MW - Central Java



Mobile Conveyor PLTU Suralaya - Banten



P10 Debottlenecking Indocement Plant - West Java

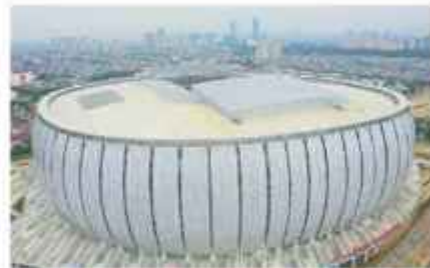
HIGH RISE & COMMUNITY BUILDING



Terminal Main Building Syamsudin Noor Airport - South Kalimantan



Terminal Main Building Sultan Hasanuddin International Airport - South Sulawesi



Space Frame Roof Jakarta International Stadium - Jakarta



Karawang High Speed Rail Station - West Java



LRT Halim Station - Jakarta



Halim High Speed Rail Station - Jakarta

TOWER

TRANSMISSION TOWER



Tower 150 KV



Tower 500 KV



Tower Production Line

MECHANICAL



Dryer Plant P3/4 Indocement



Coal Reclaimer - Krakatau POSCO



Barge Unloader - Central Sulawesi

PLATE WORK



Avtur Tank 17.000 KL - Banten



Tank 2 x 40.000 KL Pertamina - Central Java



**Water Tank 4.000 KL Pertamina
Boyolali - Central Java**



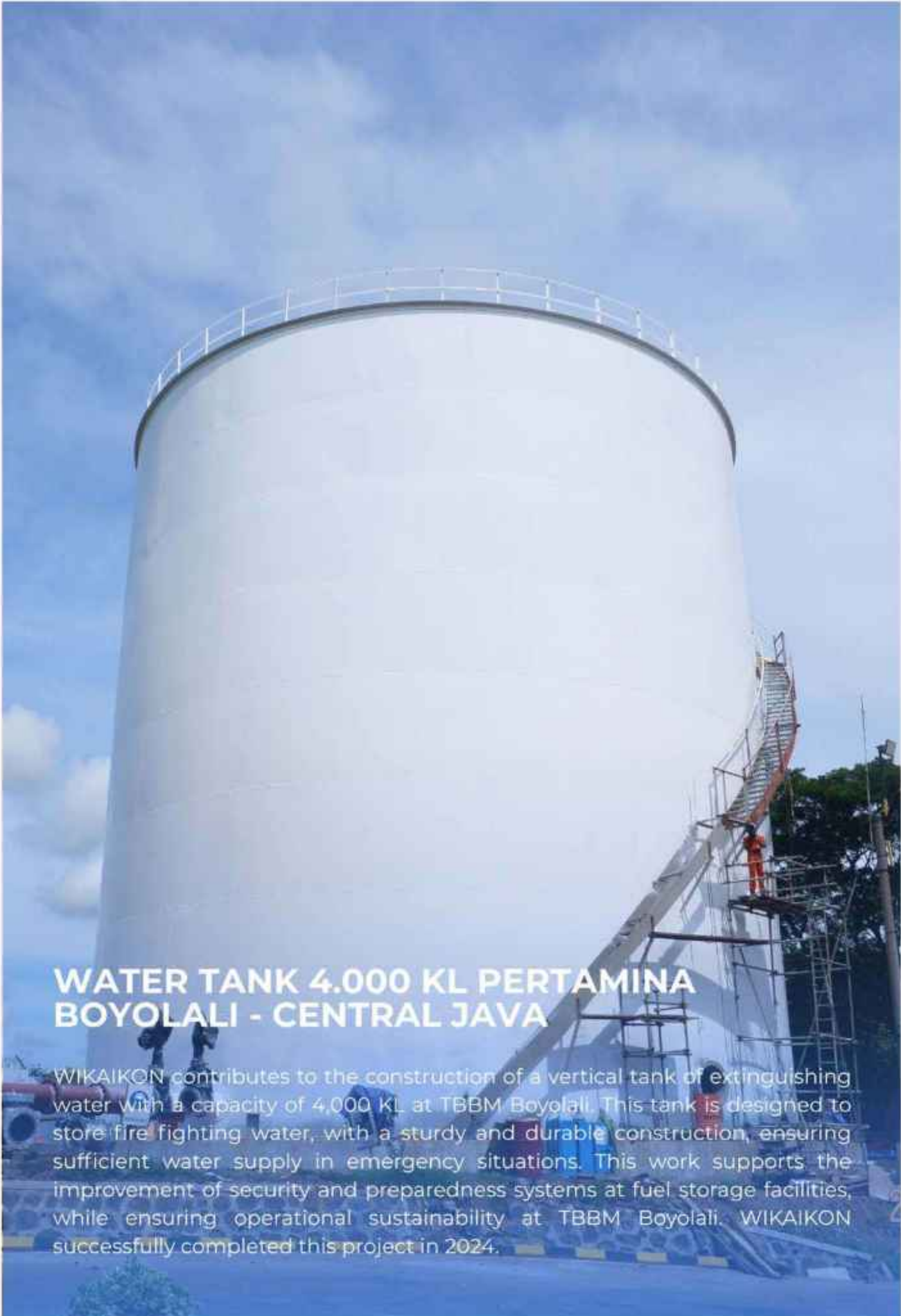
Pen Stock - South Sumatra



Tank 2 x 10.000 KL Pertamina - West Sumatra

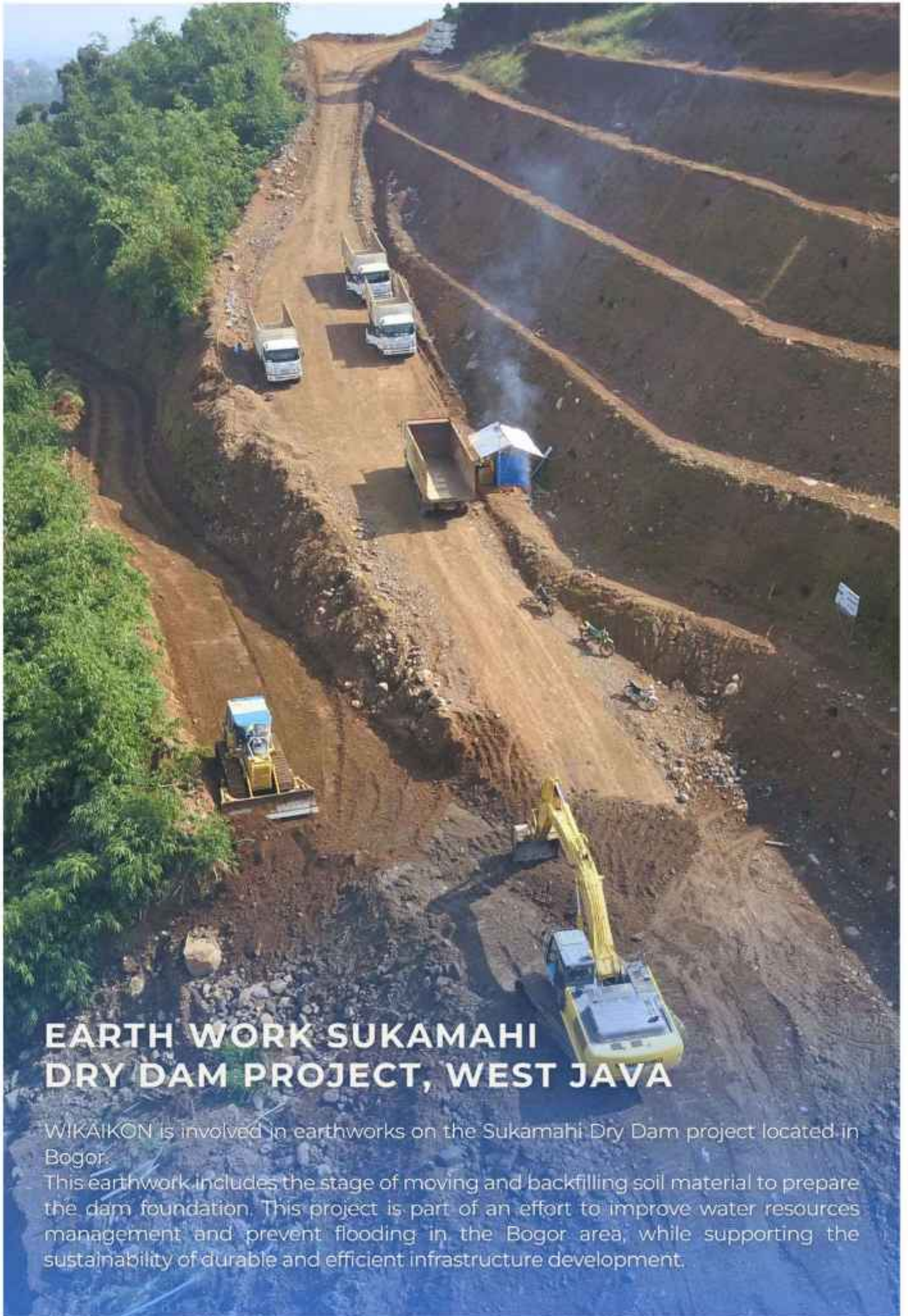


Air Dryer - South East Sulawesi

A large, white, cylindrical vertical water tank is the central focus of the image. It is surrounded by a complex network of metal scaffolding. A worker in an orange safety suit is visible on the scaffolding, working on the tank's exterior. The tank has a metal railing at the top. The background is a clear blue sky with some light clouds. The overall scene is one of industrial construction.

WATER TANK 4.000 KL PERTAMINA BOYOLALI - CENTRAL JAVA

WIKAIKON contributes to the construction of a vertical tank of extinguishing water with a capacity of 4,000 KL at TBBM Boyolali. This tank is designed to store fire fighting water, with a sturdy and durable construction, ensuring sufficient water supply in emergency situations. This work supports the improvement of security and preparedness systems at fuel storage facilities, while ensuring operational sustainability at TBBM Boyolali. WIKAIKON successfully completed this project in 2024.



EARTH WORK SUKAMAHI DRY DAM PROJECT, WEST JAVA

WIKAIKON is involved in earthworks on the Sukamahi Dry Dam project located in Bogor.

This earthwork includes the stage of moving and backfilling soil material to prepare the dam foundation. This project is part of an effort to improve water resources management and prevent flooding in the Bogor area, while supporting the sustainability of durable and efficient infrastructure development.

EARTH WORK

DAM & TOLL ROAD



East Side of Jalan Sumbu Kebangsaan
Project - Ibu Kota Nusantara



Toll Road Access Patimban
Project - West Java



Land Development Smelter Kolaka
Project - South East Sulawesi



Sukamahi Dam Project - West Java



Cisumdawu Toll Road Project - West Java



Kuwil Dam Project - North Sulawesi



Wellpad Project - East Kalimantan



Toll Serpong Balaraja Project - Banten



Cipanas Dam Project - West Java



Excavator



Dozer



Compactor



Crawler Crane



Launcher Gantry



Loader Crane



Wheel Loader



Motor Grader



Mobile Crane



Dump Truck



EP88M
(General Mining Machine)



Water Tank Truck



Stone Crusher



Trailer & Self Loader



General Equipment

CASTING PARTS

Car Component



Pipe Intake



Pipe Intake



Water Outlet



Water Inlet



Housing Sub Assy
Water Outlet



Pipe Sub Assy
Intake



Pipe Sub Assy Water
Inlet



Bracket Outer Mirror



Stiffener Block



Cover Oil Pump



Cylinder Head Cover



Gear Case TF

Non-Otomotif

Motorbike Component



Arm Suspension



Assy Front/Rear
Wheel



Handle Seat L/R



Rear Pulley

Electrical Component



Suspension Clamp



Xceed II Housing S



Xceed S Housing



Cabinet Led

PLASTIC

Electrical Component



Front Shield



Battery Partition



Buffer Chain Touch
Defense



Cover Comp Engine
Sprocket



Case Chain

PAINTING

Non-Otomotif



Xceed II Housing S



Xceed S Housing

Motorbike Component



Handle Pillion



Cover Chain

PRESSING & ASSEMBLING

Car Component



Bracket Adjuster Plate



Washer Flywheel



Tank Sub Assy

Motorbike Component



Frame Chassis

ELECTRIC MOTORCYCLE PARTS



Front Shield
(ABS) Front Motorcycle cover, paired with a head-light holder



Front Side Cover L/R
(ABS) Front motorcycle body



Rear Side Cover L/R
(ABS) Rear motorcycle body



Top Front Cover
(ABS) Front Motorcycle head cover



Tail Cover
(ABS) Upper rear motorcycle body



Keel
(ABS) Lower front motorcycle body



Front Fender
(ABS) Front Wheel Cover



Headlight Holder
(PP Copolymer) Motorcycle mini lamp holder



Tag Seat Cover
(PP Copolymer) Rear hood cover



Cover Shield
(PMA Acrylic) Front head cover



Inner Shield & Back Shield
(PP Copolymer) The front center of the motorcycle body, paired with the front side cover



Rider Platform
(PP Copolymer) Footrest



Battery Box
(PP Copolymer) Place for battery pack



Rear Under Seat
(PP Copolymer) Battery box/PP Copolymer cover



Rear Fender
(PP Copolymer) Rear wheel cover



Battery Partition
(PP Copolymer) Separator between the battery compartment



Cover Controller
(PP Copolymer) Controller cover, paired with battery box



Bottom Seat
(PP Copolymer) Seat post/bike



License Support
(PP Copolymer) For rear plate number



Extension License
(PP Copolymer) License support extension



Rear Bottom
(PP Copolymer) Lower rear body cover, holder for rear side cover



Bracket License Support
(SPHC) Sticks the License support to the chassis frame



Assy Rear Wheel
(Assembling) Supports or rear motor legs



Assy Front Wheel
(Assembling) Supports or front motor legs



Bracket Lamp L & R
(ABS) Fastening the headlight with the holder



Handle Seat RL
(ADCU) Holders for passenger, gear, and grip



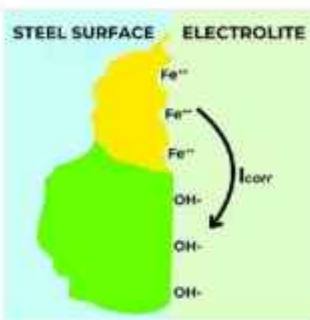
Rear Pulley
(ADCU) Transmission or belt rear gear drive

CATHODIC PROTECTION

WIKA brand Cathodic Protection System by PT Wijaya Karya Industri & Konstruksi, has been established since 1994. Armed with experience Manufacturing Design, Installation, Commissioning and Maintenance of the entire range of Sacrificial Anodes (SACP), Impressed Current Cathodic Protection (ICCP) and other corrosion prevention methods, as well as supported by experienced metallurgists and cathodic technicians certified by the Corrosion Association Indonesia (INDOCOR), WIKA anode products are able to reach all of Indonesia.

Corrosion is a decrease in the quality of metal and its properties that occur naturally due to interactions with the surrounding electrolyte environment. Corrosion occurs as a result of the reaction electrochemistry between different potential zones on the metal surface. Corrosion control is mainly used for cathodic protection in submerged areas and buried metal surface.

The cathodic protection system is achieved when all metal surfaces are converted into cathodic zones by passing a protective current (ICP) using a galvanic anode (SACP) or counter current (ICCP). The Corrosion Reaction on each surface can be described as follows:



IN ANODA: $\text{Fe} \rightarrow \text{Fe}^{2+} + 2e^-$
Oxidation Reaction Occurs Metal Corrosion

I_{corr} : Corrosion current flows from Anode to Cathode through electrolyte media

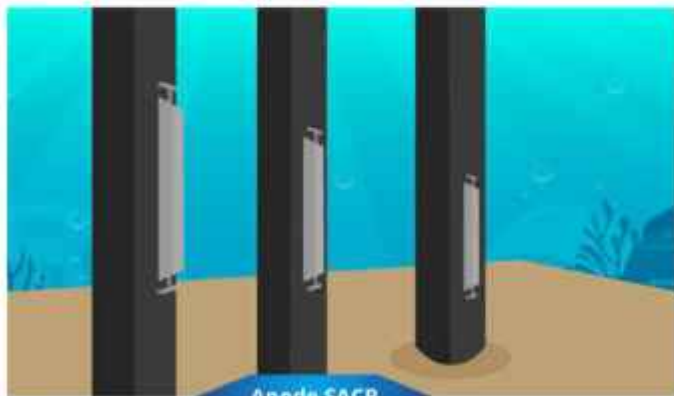
IN CATODA: $2\text{H}_2\text{O} + \text{O}_2 + 4e^- \rightarrow 4\text{OH}^-$
Reduction Reaction Occurs Metal Not Corroded

SACRIFICIAL ANODE

The Sacrificial Anode (SACP) system uses the protection current from the Sacrificial Anode to suppress the flow of corrosion current.

IMPRESSED CURRENT

The Countercurrent System (ICCP) provides the flow of electric current through a DC discharge from an anode that is powered by an External DC (Rectifier Trafo).



TYPES OF ANODE COMPOSITION

METAL ELEMENTS	ALUMINUM ANODE	ZINC ANODE
Zinc (Zn)	2.0 ~ 6.0	Remainder
Indium (In)	0.015 ~ 0.05	~
Cadmium (Cd)	~	0.025 ~ 0.15
Plumbun / Lead (Pb)	~	0.006 (max)
Iron (Fe)	0.12 (max)	0.005 (max)
Silicone (Si)	0.05 ~ 0.20	0.125 (max)
Cooper (Cu)	0.01 (max)	0.005 (max)
Aluminium (Al)	Remainder	0.10 ~ 0.50
Other	0.02 (max)	~
PERFORMANCE ANODE		
Current Capacity (Ah/kg)	2500 ~ 2700	750 ~ 780
Consumption Rate (Kg/A.Year)	3.1 ~ 3.3	11.1 ~ 11.5
Current Efficiency (%)	83 ~ 90	95 ~ 98
Open Circuit Potensial by Ag/AgCl (mV)	-1050 ~ -1100	-1030 ~ -1050

ALUMINIUM ANODES FOR JETTY



ALUMINIUM ANODES FOR FIXED PLATFORM OFFSHORE



ALUMINIUM ANODES FOR SHIP



ALUMINIUM ANODES BRACELET TYPE FOR UNDER WATER PIPE LINE AND JETTY



MAGNESIUM ANODE FOR UNDERGROUND PIPE LINES



ZINC ANODES FOR SHIP



HDPE JACKETING OR COMPOSITE WRAPPING FOR SPLASH ZONE PROTECTION





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Majalengka Steel Factory

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Desa Cisambeng, Kec. Palasah,
Kab. Majalengka



PPC Factory Bogor

Jln. Raya Narogong KM 26, Cileungsi,
Kab. Bogor



Heavy Equipment Workshop

Jln. Raya Cirebon-Bandung KM 31,
Desa Cisambeng, Kec. Palasah,
Kab. Majalengka