PT PARTONO FONDAS ENGINEERING CONSULTANT (PAF) was established in 1986 by Dr.Ir. FX Supartono with the objective of serving as a professional consultant in civil engineering and its related works such as structure design, study, supervision, quality assurance, instrumentation, structural health monitoring system, as well as for the survey and geotechnical investigation. In 2016 PAF had been acquired by PCG (Profabril Consulplano Gestão), a leading Portuguese Engineering Consulting Firm based in Lisbon, Portugal and has its subsidiaries in Brazil, Macau, Hong Kong, Bahrain, Saudi Arabia, Algeria, Angola, Mozambique. PAF with its core business in designing many iconic bridges and structures in Indonesia combined with PCG’ strength in designing many international projects ranging from harbours to airports, railways, highways, and Metro to industrial projects across the continents, form a solid engineering consultancy firm of multi disciplinary professional staff committed to delivering our clients outstanding engineering services.

### Structure Design and Engineering
- Structure design for commercial buildings, industrial buildings, cement plants, long-span bridges, harbours, and other infra-structures
- Structural reliability analysis and evaluation
- Independent Review Check (IPC)
- Construction Engineering
- Structure repair and strengthening design

### Structural Health Monitoring and Instrumentation
- Instrumentation services for foundation and super-structure
- Structural Health Monitoring for Large Buildings and Long-span Bridges

### Study
- Feasibility study
- Value engineering
- Site survey

### Harbour and Airport Facilities
- Field supervision
- Quality control and quality assurance on the construction work
- Concrete quality control
- Evaluation for concrete behavior
- Concrete model analysis

### Geotechnical
- Soil-Structure Interaction Analysis
- Long-term Settlement Analysis for Highrise Building
- Soil stability analysis
- Soil dynamic analysis
- Soil improvement analysis and design
About the Group

Originated from Profabril Group since 1963, PCG Portuguese Consulting Group has been delivering engineering services in Portugal and later expanding worldwide. PCG has established branch offices, subsidiaries and associated companies in Brazil, Angola, Algeria, Mozambique, Bahrain, Saudi Arabia, Macau, Hong Kong and Indonesia.

PCG provides consultancy services for every stage of the project cycle:

- Planning and Project Identification Studies
- Engineering Studies and Design
- Project and Construction Management
- Production and Industrial Management
- Technical and Consultancy Assistance
- Turnkey contracts in Industry and Energy

<table>
<thead>
<tr>
<th>PCG Services</th>
<th>Countries</th>
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<tbody>
<tr>
<td>Transportation engineering - roads, bridges, tunnels, ports, airports, terminals, railway stations, airports, light and heavy industrial engineering. Civil engineering - buildings, urban infrastructure, PEM.</td>
<td>Portugal, Mozambique, Algeria, Angola, Indonesia</td>
</tr>
<tr>
<td>Major engineering structures (bridges, viaducts, tunnels, ports), STIP, WWTP, shipyards, transportation engineering, motorways, highways, marinas, railways, Urban planning.</td>
<td>Portugal and Brazil</td>
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<tr>
<td>Industrial projects in renewable energy and environment. Turnkey projects.</td>
<td>Portugal</td>
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<tr>
<td>Project management, supervision and inspection. Marine and river works, hydraulic works, buildings, transport and special structures.</td>
<td>Portugal, Angola, Mozambique, Cape Verde and Equatorial Guinea</td>
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<tr>
<td>Environmental studies and planning, monitoring, management and environmental quality and environmental technologies.</td>
<td>Portugal, Angola and Mozambique</td>
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<td>Outdatabases of software and international standards.</td>
<td>Portugal</td>
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<tr>
<td>Infrastructures projects.</td>
<td>Brazil</td>
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<tr>
<td>Industrial projects, steel mills, mining.</td>
<td>Brazil</td>
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<tr>
<td>Technology and engineering services.</td>
<td>Brazil</td>
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<tr>
<td>Transportation and industrial engineering.</td>
<td>Bolivia</td>
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<tr>
<td>Industrial projects, urban infrastructure and ports.</td>
<td>Bahrain</td>
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<tr>
<td>Operational holding in Asia for industrial projects, infrastructures, energy and environment.</td>
<td>Hong Kong</td>
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<tr>
<td>Urban infrastructures and transportation engineering (airports, ports, tunnels, bridges, viaducts and railways).</td>
<td>Hong Kong</td>
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<td>International financial holding.</td>
<td>Hong Kong</td>
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<tr>
<td>Special projects in Asia.</td>
<td>Hong Kong</td>
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<tr>
<td>Start up in renewable energy, waste to energy, infrastructure (roads, buildings, ports and airports), light and heavy industry.</td>
<td>Indonesia</td>
</tr>
<tr>
<td>Commercial buildings, industrial buildings, cement plants, deep-sea ports, harbours, and other infrastructure.</td>
<td>Indonesia</td>
</tr>
<tr>
<td>Urban infrastructures and transportation engineering (airports, ports, tunnels, bridges, viaducts and railways). Public and private buildings, hotels, hospitals and transportation terminals.</td>
<td>Malaysia</td>
</tr>
<tr>
<td>Engineering, supervision of construction.</td>
<td>Malaysia</td>
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</tbody>
</table>
Office and Commercial Buildings

- ASABRI Building, East Jakarta: Structure Design
- The Accent Apartment Building in Bintaro, Tangerang: Independent Review Checker
- Hangar 4 Garuda Maintenance Facilities, Soekarno Hatta International Airport: Independent Review Checker
- Tenggarong Madya Stadium, Independent Review Checker for the Membrane and Steel Structure
- Transit Hotel at Terminal 2 Soekarno-Hatta Airport, Cengkareng: Structural Strengthening Design & Evaluation
- Dunia Fantasi at Taman Impian Jaya Ancol: Structure design for Ramashinta Building (post-fired rehabilitation)
- Water Jumping Circuit Building in Dunia Fantasi, Taman Impian Jaya Ancol: Structure design
- Dunia Fantasi at Taman Impian Jaya Ancol: Structure design for upgrading of Istana Boneka
- Dunia Fantasi Ancol, North Jakarta: Reliability Study and Strengthening Design for Halilintar, Maxima Stage
Continent Hypermarket (now Carrefour, Pluit): Design for beam and column strengthening (1999)


- Green Bay, North Jakarta, Soil-structure interaction and settlement analysis
- Continent Hypermarket (now Carrefour, Pluit): Design for beam and column strengthening
- Indomaret Ukanik 2 Building in Bitung, Tangerang: Civil work design & supervision
- IPEKA School Buildings at Grand Wisata, Bekasi: Structure Design
- Indogrosir Supermarket and Warehouse in Pekanbaru, Riau: Civil work design and supervision
- Rajawali Royal Apartment in Palembang: Independent Review Checker
- Jember Stadium, East Java: Independent Review Checker
- Bintaro Exchange Building, Bintaro: Review Checker for Basement Slab
- Harapan Kita Hospital (RSAB Harapan Kita), Jakarta: Design for Extension of Clinic Building, Concrete Quality Analysis
- Tarumanagara University, Jakarta: Repair on the basement and collonade of Campus II
- Indokomas Office Building, Pulogadung: Structural design
- Plaza Town House in West Ancol, North Jakarta: Repair and rehabilitation
- Fired Rehabilitation for King Plaza in Pasar Baru, Central Jakarta
- Lion Super Indo Warehouse in Cikarang: Strengthening Design for Building Floor
- Garuda Maintenance Facilities, Cengkareng: Concrete Quality Control
Indogrosir Wholesale Center: Architecture, Structure, Mechanical Electrical Design (2011)

Indomaret Distribution Center in Tangerang: Architecture, Structural, Mechanical & Electrical Design and Supervision (2011)


Dunia Fantasi at Taman Impian Jaya Ancol: Structure design for Ramashinta Building (post-fired rehabilitation, 2012)
Industrial Buildings

- Indarung VI Cement Plant CE-I Package Civil Design & Supervision work in Padang, West Sumatera, which contain the following area:
  - Raw Mill Feed Department
  - Raw Mill Department
  - Exhaust Gas Conditioning Department
  - Cyclone Preheater & Kiln Department
  - Clinker Cooler Department
  - Clinker Storage Department
  - Raw Coal Handling Department
  - Coal Mill Department

Raw Mill, Gas Conditioning, Cyclone Preheater, Raw Meal Silo
Kiln and Clinker Cooler


Clinker Cooler, Clinker Storage, Off Standard Clinker Silo and Coal Mill

- Design for complete civil structures and supervision for Tonasa V Cement Plant (whole plant civil work) in South Sulawesi (capacity of 2.5 million ton/year) including belt conveyors, transport galleries and harbour facilities
- Semen Padang Grinding Plant in Dumai: Design Check & Supervision
- Water Management Design for Indarung VI Cement Plant, PT. Semen Padang, West Sumatera: Detailed Design.
- Water Source Study for Indarung VI Cement Plant, Semen Padang: Detailed Study.
- Semen Padang Indarung V, West Sumatera: Design and supervision for Cyclone Preheater, Cement Mill, CF Silo, Unburnt Clinker Silo, Clinker Transport, etc.
- Design of structural repairs for Cement Padang's buildings due to 2009 strong earthquake in West Sumatera
Cement Silos 1 to 8 at Semen Padang Indarung III C:

Cement Mill (Semen Padang Indarung V): Structure design (1996)
Semen Padang Indarung V, 2 x 17000 ton Cement Silo (Teluk Bayur): Structure Design
Tonasa V Limestone Storage: Structure design & supervision (2009)

Silo repair for Semen Padang Indarung V (2010)

2 x 17000 ton Cement Silo (Teluk Bayur): Structure design (1996)

Clinker Storage (Semen Tonasa): Structure design (2009)

Main Sub-Station (Semen Tonasa): Architecture & structure design (2009)

Cyclone Preheater and CF Silo (Semen Padang Indarung V): Structure design (1996)

Central Control Room (Semen Tonasa): Architecture & structure design (2009)

2 x 17000 ton Cement Silo (Teluk Bayur): Structure design (1996)

Clinker Storage (Semen Tonasa): Structure design (2009)

Silo repair for Semen Padang Indarung V (2010)
- Semen Padang Packing Plant in Lampung: Design Check and Supervision
- Bosowa Cement Silo in Balik-papan: Detailed Engineering Design
- Bosowa Cement Silo in Mataram: Detailed Engineering Design
- Semen Baturaja Optimalization II, South Sumatera: Design and supervision for Clinker Storage, Raw Meal Silo, Coal Drying and Grinding, Grate Cooler, Gypsum Unloading, etc.
- Design Checking and Supervision for the first Phase Cement Padang Packing Plant in Dumai
- Cement Gresik Packing Plant in Ciwandan, Banten: Foundation deformability control and monitoring
- Design Checking and Supervision for Cement Padang Packing Plant in Ciwandan, Banten
- Design Checking and Supervision for Cement Padang Packing Plant in Malahayati, Aceh
- Cement Packing Plant and Cement Silo in Pulau Baai, Bengkulu: Detailed design.
- Turmenbashi Center Crude Oil Transit Terminal, Turkmenistan: Civil Work Basic Design and Tender Documents for EPC Construction Work
- Marine Oil Terminal Project, Poti, Tbilisi, Georgia
- Serpong Water Treatment Plant (capacity of 3 m3/second): Architecture and civil work design
- Design for Sepatan Water Treatment Plant in Tangerang, Banter (water treatment reservoir and back wash & sludge tank)
- Palm Fruit’s Loading Platform, South Sumatera: Structural analysis and strengthening design for main beams
- Structural expertise for Clinker Storage Dome, Semen Padang Indarung V
- Liquid Petroleum Gas Project, Chittagong, Bangladesh
- Alsthomindo Factory Extension, Jakarta: Structural design
- GRC Factory for Unindo (GEC Alsthom) in Klender, East Jakarta: Structure design
- Structural and Mechanical/Electrical reliability analysis and verification for 29 BPSP Buildings, Block A to H in Jakarta Industrial Estate Pulogadung, East Jakarta
- Sonoco Indonesia Factory Extension, Gunung Putri, West Java
- L’Oreal Storage Building Extension
- Fired Rehabilitation for BPSP Industrial Building in Pulogadung
- Structural expertise for Kaltim Methanol in Bontang, East Kalimantan
- SDY-1 Polyester Flament Yarn Building, Tangerang
- Unindo Office Building Extension, Klender: Structure design
- Control Building for Perusahaan Gas Negara in Jambi: Civil Work Design
- Structural design for Cement Silo, Teluk Bayur
- Semen Padang Cement Silos 1, 2, 3, 4 in Indarung, West Sumatera: Leakage and Waterproofing Repair Work (total repair surface: 11400 m2)
- BSA Cement Silo, Tanjung Priok: Structural Strengthening and Repair
Semen Baturaja Optimization II (Sumatera): Structure design and supervision (1997)


Clinker Storage (Semen Baturaja): Structure design (1997)

Cement Packing Plant in Dumai: Structure design and supervision (2014)

Clinker Storage Dome (Semen Padang): Structural expertise & proof checking (1996)

Coal Storage (60 meters, Semen Baturaja): Structure design and supervision (1997)
Bridges, Underpass and Roads

- Concept Design of Sunda Strait Bridge. Main span: 2016 m & 1224 m with span of viaduct 150 m
- Concept Design of Balikpapan Bay Bridge between Balikpapan and Penajam. Main span: 450 m, total length: 6.4 km
- Basic Design for Viaduct of Sunda Strait Bridge (span: 150 m, total length: 21 km)
Sunda Strait Viaduct: Concept Design (2012)

Balikpapan Bay Bridge (main span: 450 m, total length 6.4 Km): Concept Design (2014)

Balang Island Cable Stayed Bridge (main span: 402 m) Detailed Engineering Design (2012)

Above: Balang Island Cable Stayed Bridge Structure Design
Right: Balang Island Cable Stayed Bridge Pylon Typical Cross Section
- Design and supervision for Grand Wisata Cable Stayed Overpass, Bekasi Timur, West Java. Main span: 81 m
- Design for Tulur Aji Jejangkat Cable Stayed Bridge, West Kutai, East Kalimantan (main span: 340 m)
- Design for Cisadane Cable Stayed Bridge, Serpong, West Java. Main span: 2 x 100 m
- Construction Engineering for Kelok 9 Balance Cantilever Bridge in West Sumatera
- Construction Engineering and Deflection Control for Soekarno Cable Stayed Bridge in Manado, North Sulawesi (main span: 2 x 120 m)
- IPC (Independent Proof Check) for Mahkota II Cable Stayed Bridge in Samarinda, East Kalimantan (main span: 350 m)
Mahkota II Cable Stayed Bridge (Samarinda): Independent Proof Check (IPC) for Bridge Structure (2006)

Soekarno Cable Stayed Bridge in Manado: North Sulawesi: Construction Engineering (2011 – 2015)

Summarecon Ahmad Yani Flyover (Bekasi): Structure Redesign (2012)

- Design for Mahakam Ulu Steel Arch Bridge (main span: 200 m)
- Checking Design for Lemah Ireng II Bridge, Semarang–Solo Toll Road
- Bogor Lake Side Bridge: Design Structure
- Basic design for Jakarta Elevated MRT structures and foundation (Lebak Bulus – Blok M)
- Design for Sangkulirang Bridge at Sangatta, East Kutai, East Kalimantan
- Bus Rapid Transit Project of PT. Summarecon Agung in Bekasi: Design Structure
- Wind Tunnel Test for Melak Cable Stayed Bridge (main span: 340 m) in cooperation with Tongji University in Shanghai, China
- Design for Megamal Bridge, Pluit, North Jakarta
- Haji Terminal at Soekarno-Hatta Airport, Cengkareng: Design and supervision for Bridge, Underpass, and Access Road
- Proof Checking for redesigned structure of Balang Island Arch Bridge in East Kalimantan
- Highway Fly-over 950 meters in Daan Mogot Interchange, West Jakarta
- Highway Fly-over 600 meters in Tangerang By-pass Crossing, West Java
- Highway Fly-over 450 meters in Rawa Buaya, West Jakarta
- Toll Road Study for Balikpapan-Samarinda-Bontang, East Kalimantan
- Design of highway bridge for toll road Semarang – Bawen, Central Jawa
- Bina Ria Bridge, Ancol: Structural Analysis and Strengthening Design
- Bintang Mas Bridge at Ancol, Jakarta
Balang Island Cable Stayed Bridge (main span: 402 m):
Detailed Engineering Design (2012)

Wind Tunnel Test for Balang Island Bridge (2013)


Tulur Aji Jejangkat Cable Stayed Bridge (Kutai Barat) Progress per February 2016

Short Span Balang Bridge (Balikpapan) (2006)
- Summarecon Ahmad Yani Flyover (Bekasi): Structural Proof Checking & Redesign
- IPC (Independent Proof Check) and Redesign for Ahmad Yani Balance Cantilever Flyover at Bekasi, West Java (main span: 130 m)
- Basic Design for Teluk Balikpapan Suspension Bridge in Balikpapan, East Kalimantan (main span: 810 m)
- Detailed Design for Long-span Balang Island Cable Stayed Bridge. Main span: 402 m
- Wind Tunnel Test for Balang Island Bridge
- Design for Balang Island Arch Bridge (main span: 3 x 105 m concrete arches)
- IPC (Independent Proof Check) for Mahakam 4 Bridge in Samarinda, East Kalimantan (total length: 400 m, main span: 220 m)
- Design for Cable Stayed Bridge at Batu Lubang, Center Tapanuli, North Sumatera (span: 62 m)
Terminal Haji (Soekarno-Hatta Airport):
Design for Underpass, Bridge, and Access Road (2002)

Megamal Bridge (Pluit Jakarta):  
Structure Design (1996)

Sangkulirang Bridge (East Kutai, 480 meters):  

Mahakam 4 Bridge in Samarinda, East Kalimantan:
Independent Proof Checked (2012)

Terminal Haji (Soekarno-Hatta Airport):
Design for Underpass, Bridge, and Access Road (2002)

Wind Tunnel Test for Melak Cable Stayed Bridge (cooperation with Tongji University, Shanghai) (2007)
Harbour and Airport Facilities

- Construction Quality Assurance for 30000 DWT Citranusa New Jetty in Batam, East Sumatera
- Marine Oil Terminal Project, Poti, Tbilisi, Georgia: Foundation design and geotechnical field supervision
- Turkmenbashi Crude Oil Transit Terminal, Turkmenistan: Foundation design and geotechnical supervision & analysis
- Marine Harbour for Coal Exploration in Tanjung Batu: Structure design
- Dolphin Structure for Ampera Bridge in Palembang
- Supervision for Biringkassi New Cement Jetty, Pangkep, South Sulawesi
- Coal Port in Bukit Asam, South Sumatera Reclamation in Samudera Beach, Padang: Design and Survey
- Ancol Reclamation: Structural Design
- Unloading Dock of Samarinda Combine Cycle Power Plant, East Kalimantan (Seismic Structure Design)
- Tarahan Coal Harbour, Bandar Lampung: Design and Supervision for extension to 80,000 DWT
- 40,000 DWT Marine Harbour of DST-DSB in Teluk Bayur, West Sumatera: Design for Strengthening and Supervision
- PLTU II Suralaya Harbour, Banten: Structural Verification and Repair
- Marine Harbour for Cement Unloading in Pulau Baai, Bengkulu: Structure design
- New Extension-Rehabilitation of Concrete Harbour 1 in Teluk Bayur, West Sumatera
- Cement Harbour for Packing Plant in Dumai: Structure Design and Supervision for Jetty, Trestle, and Dolphins
- Packing Plant of PT. Semen Indonesia at Banyuwangi Harbour, East Java: Supervision
- Cement Harbour for Packing Plant in Dumai, Riau: Strengthening
- Gresik Harbour in East Java: Design Structure
- Pertamina Jetty Harbour Phase II in Dumai, Sumatera: Structure design
- Cement Harbour for Packing Plant in Banyuwangi: Review & Strengthening Design
- Cement Harbour for Packing Plant in Tarahan, Lampung: Structure Design
- Muara Baru Port in North Jakarta: Structural Design
- ex-IAS Apron at Soekarno-Hatta Airport, Cengkareng: Structural strengthening
- Static Loading Test by Boeing 747-400 on the ex-IAS Apron, Soekarno-Hatta Airport (Cengkareng)
- Cross Taxiway E-F at Soekarno-Hatta Airport, Cengkareng: Structural Safety Analysis, Strengthening Design, Concrete Quality Test, Supervision
- Terminal 2D, E, F at Soekarno-Hatta Airport, Cengkareng: Strengthening for Landslide Concrete Barrier
- Settlement analysis for runway and apron of Kualanamu New Airport in Medan, North Sumatera


Soekarno-Hatta International Airport Existing Airplane Crossing Strength Evaluation (2016)

Soekarno-Hatta Airport ex-IAS Apron: Design for structure strengthening (2005)
Power Plants

- Phase III Add-on Combined Cycle Power Plant (PLTGU) in Cikarang Listrindo, Bekasi: Turbine Hall, Admin Building, etc
- AIC Diesel Power Plant (100 MW) in Bawen, Semarang
- Main Water Channel for Kuranji Hydro Power Plant, Padang
- Paokmotong Electrical Diesel Power Plant in Lombok
- Diesel Power Plants at Pulau Baai, Palu, Pekanbaru, Banjarmasin, Samarinda, etc.
- Gresik CCPP (PLTGU), East Java: Control Buildings for Sawahan, Gresik, Perak, Surabaya Barat, and Kenjeran
- Water Intake Facility and Boilers Foundation in Cikarang Listrindo, Bekasi
- Switching Station for Kedungombo Hydro Power Plant, Central Java
- Tanjung Priok CCPP (PLTGU), Jakarta: Control Building
- GIS 500 kV in Kembangan, West Jakarta
- GIS 500 kV in Suralaya, West Java
Pekanbaru Diesel Power Plant (Sumatera): Structure design and supervision (1989)


Kuranji Hydro Power Plant: Water channel structure design & landslide strengthening (2001)
Survey and Geotechnical

Soil Investigation (92 borings of 30 meters each), covering area of 36 Ha, for Pulau K Reclamation Project in Jaya Ancol, North Jakarta (2014 – 2015).

- Soil Investigation (92 borings of 30 meters each), covering area of 36 Ha, for Pulau K Reclamation Project in Jaya Ancol, North Jakarta
- Soil Investigation for Bus Rapid Transit Project of PT Summarecon Agung, Bekasi
- Marine Oil Tank in Natanebi, Georgia: Foundation design
- Grand Wisata Cable Stayed Bridge, Bekasi: Geotechnical investigation and foundation design
- Tenggarong Airport, Kutai Kartanegara, East Kalimantan
- Kuranji Hydro Power Plant, Sumatera: Land slide analysis and protection design
- Sudirman Super-Block Central Business District, Jakarta
- Geo-instrumentation for Bank International Indonesia Tower, Jakarta
- Geo-instrumentation for Museum Bank Indonesia in Jakarta Kota
- Geo-instrumentation for Cement Gresik’s Packing Plant in Ciwandan
- VWSG instrumentation for Menara Gelora Senayan (for bored piles)
- Break Water Structure in East Ancol, North Jakarta
- Reclamation Project for Pantai Bagus in Ancol, Jakarta
- Ancol Beach Development Project, Jakarta
- Reclamation Project at Ancol, Jakarta
- Main Water Channel Project, East Ancol
- Golf Driving Range Ancol Block E-5, North Jakarta
- Soil investigation for Cement Gresik’s Packing Plant in Ciwandan
- Seismic Shock Test on Sheet Piles in Tenggarong, East Kalimantan
- Preliminary Design for Tank’s Oil Foundation in Turkmenistan
- Bundaran Landmark - Ancol, North Jakarta
- Gatot Subroto Fly-over and Sub-station
- 30,000t Silo Indocement in Tanjung Priok
- Kalimalang Bridge, Bekasi
- Adisucipto Fly-over, Yogyakarta
- Mahakam Bridge Interchange, Samarinda, East Kalimantan
- PLN 150 kV High Voltage Transmission Towers in Cawang – Bekasi
- Semen Padang Silo and Packing Plant in Ciwandan and Aceh
- Muara Baru Port in North Jakarta Reclamation in Samudera Beach, Padang, West Sumatera
- Shipyard in Batam: Hydro-oceanographic and Geotechnical Investigation
- Batavia City Apartment, Jakarta
- Migas Building in Jl. Thamrin, Jakarta
- Metropolitan Condominium, Bekasi
- French Embassy, Jakarta
- Kuningan Mall in Kuningan, Jakarta
- Extension of Kartika Plaza Hotel in Kuta, Bali : Soil Improvement
- Senggigi Hotel in Lombok
- Merak Office Building in Merak, West Java
- Lippocity in Cempaka Putih, Jakarta
- Ring Road III and Mahakam Bridge I Project, Samarinda
**Telecommunication**

- 275kV Electrical Transmission Line for 36 sites in Lubuk Linggau – Bangko, Jambi
- Trans-Sulawesi Extension and Expansion Telecommunication Towers in Luwuk – Ambon
- Trans-Sulawesi Telecommunication Towers in Ujung Pandang - Pagal
- GSM Mobile Telephone Towers (over 200 towers/stations) in Java and Bali
- Trans-Sumatera Microwave Link
- Cross-Sumatera Microwave Link
- Jakarta Police Communication Tower
- Indonesian Police Communication Towers in Medan, Denpasar, and Ujung Pandang
- Telecommunication Tower in Golo Sengang, Flores

**Instrumentation**

- Geo-instrumentation for BII Tower in Jakarta
- Pile Driving Monitoring for PT Semen Gresik Packing Plant in Ciwandan-Banten
- Bank Indonesia Museum Elevation Monitoring
- Bali Mandara Highway Monitoring Instrumentation

**Others**

- Conceptual Study for Indonesian Concrete Bridge Design Code
- Conceptual Study for Indonesian Steel Bridge Design Code
- Regional Transportation Planning (Tatrawil) of East Kalimantan
- Taman Impian Jaya Ancol, Ancol, North Jakarta: West Enterance Development Project