

## PT. CIPTA SOLUSI ANDALAN- COMPANY PROFILE



PT. Cipta Solusi Andalan (CiSA) is a flow solution company. We build our nation by providing the most reliable flow solution to our clients. We are exclusive/sole distributor of Crane ChemPharma-Energy products for whole Indonesia territories (valves, actuators, air operated pumps and peristaltic pumps, plastic lined pipes & fittings, expansion joints, and flexible hoses).

Our main clients are in Oil & Gas, Power Generations, Chemicals & Petrochemicals (included Fertilizer and Pulp & Paper), Mining, General Industry, and Water Treatments.

### CISA CORE CAPABILITIES

- ) Supply of Quality Valves for Fluid Handling|
- ) Repair and Servicing of Valves|
- ) Valve Assessment and Condition Reporting|
- ) Painting to Industry Standards |
- ) Valve Modifications (material changes)|
- ) Fitment of Actuators and other Accessories|
- ) Fabrication and Machining of Adaptors and Brackets|
- ) Management and Documentation of complex Valve supply projects|



## PRODUCTS

CiSA represents all Crane Chempharma-Energy products in Indonesia consist of valves, actuators, air operated pumps and peristaltic pumps, plastic lined pipes & fittings, expansion joints, and flexible hoses.

Our prestigious brand and trade name portfolio includes **Crane, Xomox, Saunders, Pacific Valves, Stockham, Duo-Chek, Noz-Chek, Krombach, Flowseal, Center Line, Jenkins, Aloyco, Triangle, Chapman**, and Crane Service Centers.

## SERVICES

- ] Technical advice on valve and material selection]
- ] Valve condition assessment]
- ] Hydrostatic Testing]
- ] Blasting and Painting to Oil Industry User requirements]
- ] Repairs and parts replacement]
- ] Material Modifications]
- ] Fitment of accessories such as by-passes and brackets]
- ] Actuation – Electric, Pneumatic, Hydraulic]
- ] Non Destructive Examinations – PT, MT, UT, RT]
- ] Gas Testing]

## PRINCIPAL COMPANY - CRANE CO.

Crane Co. is a diversified manufacturer of highly engineered industrial products with a substantial presence in a number of focused niche markets. With approximately 11,000 employees working together in five business segments across 25 countries, Crane generated 2011 net sales of \$2.5 billion. We are dedicated to integrity and honest dealings in all that we do.

**Financial Strength** - Crane has a strong financial position, giving us the capacity to participate in large supply contracts and to continue strategic acquisitions. At the end of 2011, cash equalled \$245 million, and the ratio of net debt to net capitalization was 13%.

**Business Segments** – Crane has five strong business segments. By growing these segments while continuing to implement integrated business system we are continuing to create value for all stakeholders in our Company – customers, employees, suppliers and shareholders.

**The Fluid Handling Division** is the largest business segment and the one to which Crane Energy Flow Solutions belongs. It is a global provider of industrial fluid control solutions for critical applications where engineered solutions are vital.

**Crane** was founded in Richard Teller Crane in **1855** and continues to hold true to the principles of the day.



"I am resolved to conduct my business in the strictest honesty and fairness; to avoid all deception and trickery; to deal fairly with both customers and competitors;

to be liberal and just toward employees and to put my whole mind upon the business."

**R.T. Crane, July 4, 1855**

### **PT. CIPTA SOLUSI ANDALAN CERTIFICATIONS**

#### **Quality Management System:**

**ISO 9001:2015** Certificate No. QMS-01707 Exp.16/04/2023

#### **Environmental Management System:**

**ISO 14001:2015** Certificate No. EMS-01707 Exp. 16/04/2023

#### **Occupational Health & Safety Management System:**

**OHSAS 45001:2018** Certificate No. QHS-01707 Exp.16/04/2023

### **WARRANTY COMMITMENT**

Should any Crane products be defective due to faulty workmanship or materials within 12 months of the date of commissioning of plant, or 18 month from the date of invoice, whichever period first expires, PT. Cipta Solusi Andalan with fully support by Crane undertakes to repair or replace such goods (at our option) free of charge.

The liability of the Company shall be limited to the repair and/or reissue of such goods which are demonstrated to be defective and the Company shall be not liable for any other damages or expenses.

## USER PROFILE

CiSA not only supplies CRANE valves for general use but also offers specialty valves from within the **Crane Valve Group** and authorized third party suppliers for special applications that may require exotic body materials such as Duplex, various grades of Stainless Steels, Low and High Temperature alloys or superior corrosion resistance.

Our valves are thus designed to serve various applications and are widely used in many industrial applications including:

- ) Petroleum Industries including: Production|Refining Storage Distribution Fire services|
- ) Petrochemical Industries|
- ) Electric Power Generation plants|
- ) Chemical Industries|
- ) Pulp and Paper Industries|
- ) Fertilizer Industries|
- ) Palm Oil and other Agricultural processing|
- ) Mining Industries|
- ) Commercial Construction Industries|
- ) Biofuels Production|
- ) Marine application - ship builders and operators|

## Abbreviated Customer List

Crane products installed based can be found in many high profile clients including the following:

- |                                      |                               |                                        |
|--------------------------------------|-------------------------------|----------------------------------------|
| ) Amerada Hess                       | ) Petrokimia Gresik           | ) Smart Group                          |
| ) Chevron Pacific Indonesia          | ) PetroChina                  | ) Sarulla Operation Limited            |
| ) Chandra Asri                       | ) Perusahaan Gas Negara (PGN) | ) Mitsubishi Chemicals                 |
| ) ConocoPhillips Indonesia           | ) Polysindo                   | ) BASF                                 |
| ) Indorama Petrochemical             | ) Pupuk Kujang Fertilizer     | ) Sulfindo                             |
| ) Medco                              | ) Pupuk Iskandar Muda         | ) Merak Energy                         |
| ) Amman Minerals                     | ) Pupuk Sriwidjaya            | ) Pembangkit Jawa Bali Indonesia Power |
| ) OKI Pulp&Paper                     | ) Pupuk Kaltim                | ) Geo Dipa Energi                      |
| ) Pertamina Refineries               | ) Premier Oil                 | ) Santos Jaya Abadi                    |
| ) Pertamina Marketing & Distribution | ) Rekayasa Industries         | ) Jawa Manis                           |
| ) Pertamina EP                       | ) Riau Andalan Pulp&Paper     | ) Sugar Labinta                        |
| ) Pertamina Geothermal Energy        | ) Asia Pulp & Papers Group    | ) Sarulla Operation Limited            |
|                                      | ) Wilmar Group                | ) Amman Minerals Nusa Tenggara         |

## Project Reference List

In addition to regular MRO sales, Crane has provided valves for many large and complex projects as well as contracted repair services. A selection of projects follows. Dollar Values have been altered due to client confidentiality arrangements.

| Year | User                    | Project Name and Contractor                     | Value (USD) |
|------|-------------------------|-------------------------------------------------|-------------|
| 1996 | LNG – BONTANG           | EKSPANSION LNG Train G, <b>Chiyoda/IKPT</b>     | 4,150 K     |
| 1997 | PERTAMINA BALIKPAPAN    | Expansion Plant Project                         | 1,400 K     |
| 1997 | PERTAMINA UP CILACAP    | Expansion Refinery Plant UP IV CILACAP          | 700 K       |
| 1997 | PERTAMINA UP DUMAI      | Trunk Line Project                              | 1,100 K     |
| 1997 | CALTEX                  | Purchase Order                                  | 1,200 K     |
| 1998 | CALTEX                  | Purchase Order                                  | 1,400 K     |
| 1999 | CALTEX                  | Central Gathering System-10, <b>Chiyoda</b>     | 1,500 K     |
| 1999 | GULF RESOURCES          | Kakap Gas compression Platform, <b>Petrosea</b> | 700 K       |
| 1999 | PERTAMINA KARANG AMPEL  | Blanket & Consignment Purchase                  | 250 K       |
| 1999 | YPF – MAXUS             | Repair & Recondition Job                        | 50 K        |
| 1999 | KONDUR PERTROLEUM       | Repair & Recondition Job                        | 50 K        |
| 1999 | PERTAMINA Pabum Sibayak | Repair & Recondition Job                        | 50 K        |
| 2000 | PERTAMINA UP CILACAP    | Maintenance Project                             | 150 K       |
| 2000 | CALTEX                  | Wellhead Injectors Project, <b>Kvaerner</b>     | 350 K       |
| 2001 | CALTEX                  | Central Gathering System – 5, <b>Meta Epsi</b>  | 250 K       |
| 2001 | UNOCAL THAILAND         | North Pailin Platform, <b>PT. J.R McDermott</b> | 500 K       |
| 2001 | GULF RESOURCES          | Sumpal Gas Project, <b>Hyundai</b>              | 50 K        |
| 2001 | KODECO ENERGY           | Gas Compressor, <b>Adiguna</b>                  | 100 K       |
| 2001 | PERTAMINA UP DUMAI      | Water Injection Project                         | 200 K       |
| 2001 | GULF RESOURCES          | Suban Gas Project, <b>Hyundai</b>               | 1,200 K     |
| 2001 | BP                      | Pagerungan, <b>Petrosea</b>                     | 120 K       |
| 2002 | CONOCO                  | Belanak Construction, <b>PT. J.R McDermott</b>  | 100 K       |
| 2002 | PETROGRES               | NH3 Tank Construction, <b>Rekayasa Industri</b> | 150 K       |
| 2002 | CALTEX                  | Duri Expansion Construction,                    | 50 K        |

| Year | User                    | Project Name and Contractor                                            | Value (USD) |
|------|-------------------------|------------------------------------------------------------------------|-------------|
| 2002 | TOTALFINAELF            | Offshore Gas Platform Peciko 3, <b>PT. J.R. McDermott</b>              | 150 K       |
| 2002 | CALTEX                  | Wellhead Injectors, <b>Kvaerner</b>                                    | 100 K       |
| 2003 | MEDCO                   | LPG Kaji Plant, <b>Citra Panji Manunggal</b>                           | 300 K       |
| 2003 | CONOCOPHILIPS           | South Jambi Gas Gathering & Pipeline, <b>Tripatra</b>                  | 350 K       |
| 2003 | CALTEX                  | CVC Cooler, <b>Natuna Engineering</b>                                  | 150 K       |
| 2003 | CALTEX                  | Telisa, <b>Natuna Engineering</b>                                      | 150 K       |
| 2003 | CONOCOPHILIPS           | Block 'B' Platform, <b>Technip</b>                                     | 100 K       |
| 2003 | NISCONI                 | Tanker Ship                                                            | 100 K       |
| 2003 | PERTAMINA BALONGAN      | Refamping Balongan, <b>Timas</b>                                       | 150 K       |
| 2003 | PERTAMINA UPDN 3        | Rewulu Teras, <b>Meta Epsi</b>                                         | 350 K       |
| 2003 | PERTAMINA SUBANG        | CO2 Removal, <b>Rekayasa Industri</b>                                  | 50 K        |
| 2004 | TOTALFINAELF            | Onshore Peciko 4 / EPSC 3, <b>Punj Lloyd</b>                           | 500 K       |
| 2004 | KUFPEC                  | Bula Ambon Platform, <b>Ceria Worley</b>                               | 100 K       |
| 2004 | UNOCAL INDONESIA        | Attaka Platform Project, <b>Petrosea</b>                               | 250 K       |
| 2004 | PERTAMINA BALIKPAPAN    | Tank Boiler, <b>Truba Jurong</b>                                       | 100 K       |
| 2004 | PERTAMINA BALONGAN      | Blue Sky, <b>Rekayasa Industri</b>                                     | 100 K       |
| 2004 | PERTAMINA BALONGAN      | MOV Blue Sky, <b>Rekayasa Industri</b>                                 | 300 K       |
| 2004 | PERTAMINA DOH SUMBAGSEL | Gas Pipelining & Booster, <b>Rabana</b>                                | 100 K       |
| 2004 | PERTAMINA CIREBON       | Tambun – Cilamaya Pipeline, <b>Elnusa</b>                              | 100 K       |
| 2004 | PETROKIMIA GRESIK       | Phosphoric Acid & Sulfuric Acid Plants, <b>Yasa Industri Nusantara</b> | 250 K       |
| 2004 | PERTAMINA CIKAMPEK      | Gas Pipeline, <b>Barata</b>                                            | 100 K       |
| 2004 | TOTALFINAELF            | Senipah, <b>KM Automation</b>                                          | 250 K       |
| 2004 | UNOCAL                  | Santan Degaser, <b>Promatcon</b>                                       | 150 K       |
| 2004 | UNOCAL                  | Santan Desander, <b>Arindo</b>                                         | 150 K       |
| 2004 | PERTAMINA CIKARANG      | Gas Pipelining, <b>Rabana</b>                                          | 100 K       |

| Year | User                              | Project Name and Contractor                                           | Value (USD) |
|------|-----------------------------------|-----------------------------------------------------------------------|-------------|
| 2004 | PERTAMINA DOH SUMBAGUT            | Gas Pipelining Serang Phase 1, <b>Dwisatu (DMB) and Surya Besindo</b> | 200 K       |
| 2005 | RANHILL MALAYSIA                  | Melut Basin, <b>Profab Batam</b>                                      | 350 K       |
| 2005 | RANHILL MALAYSIA                  | Melut Basin, <b>Offshore Peninsular Malaysia</b>                      | 100 K       |
| 2005 | EXSPAN                            | Gas Filter, <b>Sanggar Sarana Baja</b>                                | 100 K       |
| 2005 | PETROCHINA                        | Pressure Vessel, <b>Sanggar Sarana Baja</b>                           | 50 K        |
| 2005 | UNOCAL                            | Makasar Project                                                       | 200 K       |
| 2005 | PREMIER OIL                       | West Lobe Platform, <b>Nisconi</b>                                    | 550 K       |
| 2005 | UNOCAL                            | Blanket Purchase Order                                                | 750 K       |
| 2005 | PT. BADAQ LNG                     | Maintenance                                                           | 300 K       |
| 2005 | UNGGUL INDAH CAHAYA               | Maintenance For Revamp Plant                                          | 80 K        |
| 2005 | UNOCAL                            | Melahin Project                                                       | 180 K       |
| 2005 | TIP TAMBUN                        | Gas Pipeline, <b>Yokogawa</b>                                         | 80 K        |
| 2005 | CONOCOPHILLIPS                    | Suban Phase 2, <b>Thiess Contractors</b>                              | 1,250 K     |
| 2005 | KUFPEC (INDONESIA) LTD            | Hazop – Seram Island, <b>Kufpec &amp; Ceria Worley</b>                | 200 K       |
| 2006 | AMERADA HESS                      | Offshore Ujung Pangkah – <b>Raga Perkasa</b>                          | 200 K       |
| 2006 | CNOOC                             | Zelda Field - <b>Arindo</b>                                           | 150 K       |
| 2006 | PGN (STATE-OWNED GAS)             | SSWJ II – <b>Punj Lloyd</b>                                           | 150 K       |
| 2006 | PT. BADAQ LNG                     | Boiler, <b>Sugico</b>                                                 | 100 K       |
| 2006 | PERTAMINA CILACAP                 | Boiler, <b>Meta Epsi</b>                                              | 100 K       |
| 2006 | KONDUR PETROLEUM                  | Water Treatment, <b>Promatcon</b>                                     | 50 K        |
| 2006 | CONOCOPHILLIPS                    | Hangtuah Metering, <b>Sarku Engineering</b>                           | 300 K       |
| 2006 | EMP KANGEAN                       | Tanjung Jati Platform, <b>Petromel</b>                                | 50 K        |
| 2006 | EMP KANGEAN                       | Pagerungan & Sepanjang Platforms, <b>Binaguna</b>                     | 100 K       |
| 2006 | PGN (STATE-OWNED GAS DISTRIBUTOR) | SSWJ II Onshore Facility – <b>Rekayasa Industri</b>                   | 50 K        |
| 2006 | PTT CHEMICAL PUBLIC CO. LTD       | TOC Plant 1 Debottleneck, <b>Sheden Uhde</b>                          | 300 K       |

| Year | User                                     | Project Name and Contractor                                                         | Value (USD) |
|------|------------------------------------------|-------------------------------------------------------------------------------------|-------------|
| 2007 | PremierOil                               | Anoa Platform Upgrade, <b>Gearindo</b>                                              | 450 K       |
| 2007 | CONOCOPHILLIPS                           | North Belut FPSO. <b>Nisconi</b>                                                    | 300 K       |
| 2007 | CONOCOPHILLIPS                           | North Belut FPSO. <b>Technip</b>                                                    | 200 K       |
| 2007 | CONOCOPHILLIPS                           | Matak Island, <b>Timas</b>                                                          | 100 K       |
| 2007 | Pertamina Geothermal                     | Kamojang, <b>Rekaya Industri</b>                                                    | 300 K       |
| 2007 | SANTOS                                   | Process Vessel, <b>Nanindah Mutiara Shipyard Indonesia &amp; Pulau Kencana Raya</b> | 100 K       |
| 2007 | ExxonMobil Expl & Prod (M) Inc, Malaysia | Maintenance                                                                         | 250 K       |
| 2007 | ONGC, India                              | Off-Shore Platforms, <b>IKL</b>                                                     | 500 K       |
| 2007 | Kodeco Energy                            | Off-Shore Platforms                                                                 | 100 K       |
| 2007 | Oleo Chemical                            | Fatty Acid, <b>Nubika Jaya</b>                                                      | 100 K       |
| 2007 | Trans Gas Indo (PGN)                     | Bojonegara, <b>IKL</b>                                                              | 100 K       |
| 2007 | Chevron Pacific Indonesia                | Balam, <b>Bina Rasano Engineering</b>                                               | 100 K       |
| 2008 | Trans Gas Indo (PGN)                     | Jabung Gas Booster, <b>MMC Malaysia</b>                                             | 1,200 K     |
| 2008 | Amerada Hess                             | On-Shore Ujung Pangkah, <b>Tripatra</b>                                             | 2,000 K     |
| 2008 | Serica (Salamander), UK                  | Kambuna Off-Shore Platform                                                          | 1,100 K     |
| 2008 | Star Energy                              | Wayang Windhu II, <b>Rekayasa</b>                                                   | 500 K       |
| 2009 | Santos                                   | Oyong process skids, <b>PecTech</b>                                                 | 150 K       |
| 2009 | Mobil Cepu Ltd                           | Banyu Urip Early Production, <b>MAN Ferrostaal</b>                                  | 500 K       |
| 2009 | Newmont Nusa Tenggara                    | Batu Hijau Dewatering, <b>Gunanusa Engineers</b>                                    | 500 K       |
| 2010 | Premier Oil                              | Gajah Baru, <b>Saipem</b>                                                           | 150 K       |
| 2010 | Pertamina - Talisman                     | Jambi Merang Development, <b>Tripatra</b>                                           | 3,000 K     |
| 2010 | Orica Bontang                            | KNI Bontang, <b>Rekayasa</b>                                                        | 150 K       |
| 2011 | Pertamina Geothermal                     | Hulu Lais Kota Mobagu Steam Well Test, <b>Paradise Perkasa</b>                      | 100 K       |
| 2011 | Pertamina Gas                            | Perta-Samtan Gas, <b>Tripatra</b>                                                   | 1,000 K     |
| 2011 | ConocoPhillips Indonesia                 | Dayung Tie-In, <b>IKPT</b>                                                          | 150 K       |
| 2011 | ConocoPhillips Indonesia                 | Suban Bypass, <b>IKPT</b>                                                           | 250 K       |

| Year | User                            | Project Name and Contractor                | Value (USD) |
|------|---------------------------------|--------------------------------------------|-------------|
| 2011 | Pertamina Balikpapan            | SWS, <b>JGC Indonesia</b>                  | 100 K       |
| 2012 | Murphy Oil Sarawak              | Bintulu Onshore Receiving, <b>PFCE</b>     | 1,000 K     |
| 2012 | ExxonMobil Malaysia             | Tapis Q, <b>Transwater</b>                 | 100 K       |
| 2012 | ConocoPhillips Indonesia        | Suban 12, <b>Sarku Engineering</b>         | 250 K       |
| 2012 | ConocoPhillips Indonesia        | Sumpal 9, <b>Rexaudia</b>                  | 200 K       |
| 2012 | Pertamina Geothermal            | Ulubelu Geothermal Steam, <b>IKPT</b>      | 700 K       |
| 2012 | Pertamina Distribution Balongan | Pipes Modification, <b>Patra Teknik</b>    | 150 K       |
| 2012 | ExxonMobil Malaysia             | Tapis EOR, <b>Rahmat Dagangan</b>          | 1,100 K     |
| 2012 | ConocoPhillips Indonesia        | Sumpal Expansion, Punj Lloyd               | 1,200 K     |
| 2012 | PTTE Thailand                   | PTTE Thailand, <b>Total Flow</b>           | 221 K       |
| 2012 | Java Gas Indonesia              | Manyar Gresik, <b>Mitra Teknik Persada</b> | 46 K        |
| 2012 | Mobil Cepu                      | Banyu Urip EPC-2, <b>Outsourcindo</b>      | 635 K       |
| 2012 | Mobil Cepu                      | Banyu Urip EPC-2, <b>IKPT</b>              | 309 K       |
| 2012 | ConocoPhillips Indonesia        | Suban 2, <b>Outsourcindo</b>               | 252 K       |
| 2012 | ConocoPhillips Indonesia        | Suban Expansion, <b>Korama Makmur</b>      | 43 K        |
| 2012 | ConocoPhillips Indonesia        | Suban, <b>Nira Murni</b>                   | 28 K        |
| 2012 | Pertagas                        | Pertagas, <b>JO Wika-Rabana</b>            | 19 K        |
| 2012 | Pertamina Geothermal            | Patuha Geothermal, <b>JFEEI</b>            | 265 K       |
| 2012 | Pertamina Geothermal            | Patuha Geothermal, <b>JFEEI</b>            | 84 K        |
| 2013 | ConocoPhillips Indonesia        | Suban Condensate, <b>Wijaya Karya</b>      | 172 K       |
| 2013 | ExxonMobil Malaysia             | Tapis Q, <b>Cmeis Engineering</b>          | 54 K        |
| 2013 | ConocoPhillips Indonesia        | MOV Suban Condensate, <b>Wijaya Karya</b>  | 18 K        |
| 2013 | Tangguh LNG Operation           | Tangguh LNG, <b>BP Indonesia</b>           | 652 K       |
| 2013 | PGN                             | Labuhan Maringgai, <b>Rekayasa</b>         | 64 K        |
| 2013 | Java Gas Indonesia              | Manyar Gresik, <b>Cahaya Multi</b>         | 59 K        |
| 2013 | Petronas Carigali               | Kepodang, <b>McDermott</b>                 | 600 K       |

| Year | User                          | Project Name and Contractor                                               | Value (USD) |
|------|-------------------------------|---------------------------------------------------------------------------|-------------|
| 2013 | Krohne Oil & Gas              | Wandoan APLNG, <b>Solin Technologies</b>                                  | 23 K        |
| 2013 | Petronas Carigali             | Bukit Tua, <b>Technip</b>                                                 | 66 K        |
| 2013 | Petronas Carigali             | Bukit Tua, <b>Duraquipt Cemerlang</b>                                     | 16 K        |
| 2013 | CNOOC                         | Cnooc, <b>Paradise Perkasa</b>                                            | 93 K        |
| 2013 | Salamander                    | Kerendan, <b>Process Group</b>                                            | 26 K        |
| 2013 | Petronas Carigali             | Kepodang, <b>Process Group</b>                                            | 20 K        |
| 2013 | Pertamina EP                  | PPGJ Gundih, <b>IKPT-Adhikarya</b>                                        | 67 K        |
| 2013 | Wilmar Nabati Indonesia       | Wilmar, <b>Waskita Niagaprima</b>                                         | 22 K        |
| 2013 | Pertamina – Medco E & P       | Senoro, <b>Tripatra</b>                                                   | 22 K        |
| 2013 | Pertamina EP                  | Pertamina Balongan, <b>Timas</b>                                          | 227 K       |
| 2013 | Star Energy                   | Wayang Windu, <b>Atamora</b>                                              | 65 K        |
| 2013 | ConocoPhillips                | Suban Condensate, <b>Wijaya Karya</b>                                     | 46 K        |
| 2013 | BP Tangguh                    | Tangguh LNG, <b>BP Berau</b>                                              | 79 K        |
| 2013 | Pertamina Reg. V Surabaya     | Pertamina Reg. V                                                          | 22 K        |
| 2013 | Pertamina EP Sangatta asset 5 | Manifold Gathering station 1 & 2 asset Sangatta, <b>Jasa Kita Bersama</b> | 43 K        |
| 2013 | BOC Indonesia                 | BOC, <b>Rizki Pratama</b>                                                 | 25 K        |
| 2013 | Pertamina TBBM Boyolali       | Rewulu, <b>Karya Mitra Taruna</b>                                         | 37 K        |
| 2013 | BOC Indonesia                 | BOC, <b>Rizki Pratama</b>                                                 | 30 K        |
| 2013 | Pertamina EP                  | Pertamina Pangkalan Susu, <b>Dirgantara</b>                               | 91 K        |
| 2013 | Kondur Petroleum              | Kondur BOB, <b>Surya Manikam</b>                                          | 272 K       |
| 2013 | Pertamina Talisman            | Grissik Metering, <b>Suluh Ardhi</b>                                      | 195 K       |
| 2014 | Pertamina EP Asset 2          | Gas Scrubber, <b>Promatcon</b>                                            | 25 K        |
| 2014 | Pertamina EP                  | PPGJ Gundih, <b>Jo IKPT-Adhi Karya</b>                                    | 21 K        |
| 2014 | Petronas                      | Kepodang, <b>Mcdermott</b>                                                | 18 K        |
| 2014 | Pertamina-Medco               | Senoro SDV, <b>Tripatra</b>                                               | 110 K       |
| 2014 | Perta Arun Gas                | Arun, <b>Citra Graha Makmur</b>                                           | 1,057 K     |
| 2014 | Pertamina-Medco               | Senoro, <b>Samsung Engineering</b>                                        | 129 K       |
| 2014 | IRPC Public Limited           | UHV, <b>SK Engineering</b>                                                | 23 K        |

| Year | User                       | Project Name and Contractor                                      | Value (USD) |
|------|----------------------------|------------------------------------------------------------------|-------------|
| 2014 | Pertamina UPMS 3 Jakarta   | Grease Plant, <b>Timas</b>                                       | 103 K       |
| 2014 | CNOOC                      | Cnooc, <b>Raga Perkasa</b>                                       | 35 K        |
| 2014 | PUSRI                      | Tie In MS Existing, <b>Timas</b>                                 | 55 K        |
| 2014 | Pertamina-Medco            | Jetty Topside Senoro, <b>Raga Perkasa</b>                        | 81 K        |
| 2014 | Pertamina EP               | Pondok Makmur, <b>Paradise Perkasa</b>                           | 67 K        |
| 2014 | Pertamina EP               | Pondok Makmur, <b>Atamora</b>                                    | 192 K       |
| 2014 | Pertamina DPPU Kualanamu   | Bandara Kualanamu, <b>Permata Abadi</b>                          | 335 K       |
| 2014 | Pertamina IV Cilacap       | Pertamina, <b>Karya Mitra</b>                                    | 82 K        |
| 2014 | PLN Gresik & Lombok        | Gas Metering PLN Gresik, <b>Control Systems</b>                  | 175 K       |
| 2014 | Eni Muara Bakau            | Jangkrik, <b>Saipem</b>                                          | 81 K        |
| 2014 | OKI Pulp & Paper           | OKI, <b>Keystone</b>                                             | 101 K       |
| 2015 | Riau Andalan Pulp & Paper  | Pulp & Paper, <b>Mahkota Katubindo</b>                           | 76 K        |
| 2015 | OKI Pulp & Paper           | OKI, <b>Keystone</b>                                             | 294 K       |
| 2015 | Pertamina Surabaya         | Pembangkit Listrik, <b>Pembangkitan Jawa Bali</b>                | 18 K        |
| 2015 | Pertamina EP               | Matindok, <b>Process Group</b>                                   | 26 K        |
| 2015 | Pertamina Dumai            | Open Acces RU II Dumai, <b>Krakatau</b>                          | 196 K       |
| 2015 | Eni Muara Bakau            | Jangkrik, <b>Prosernat</b>                                       | 80 K        |
| 2015 | OKI Pulp & Paper           | OKI, <b>Keystone</b>                                             | 671 K       |
| 2015 | OKI Pulp & Paper           | OKI, <b>Keystone</b>                                             | 194 K       |
| 2015 | Energi Sejahtera Mas       | Energy Sejahtera Mas, <b>Victorindo</b>                          | 124 K       |
| 2015 | PLN Enjiniring             | CNG Bangkanai, <b>Multi Teknik Abadi</b>                         | 123 K       |
| 2015 | Pertamina EP Asset 2       | Trunkline Gas Pendopo-Prabumulih, <b>Sharon Makmur Sejahtera</b> | 124 K       |
| 2015 | Pertamina DPPU Soeta       | Cengkareng 3, <b>WIKA</b>                                        | 880 K       |
| 2015 | BP Tangguh                 | NCDC Project, <b>WIKA</b>                                        | 38 K        |
| 2015 | Pertamina RU V Balikpapan  | Pertamina RU V, <b>Wanda Putri</b>                               | 70 K        |
| 2015 | Newmont Nusa Tenggara      | Tangaloka Project, <b>Newmont</b>                                | 213 K       |
| 2015 | Pertamina RU V Balikpapan  | Pertamina RU V, <b>Wanda Putri</b>                               | 64 K        |
| 2016 | Pertamina MOR VII Makassar | Pertamina MOR VII, <b>Nusa Citra</b>                             | 54 K        |

| Year | User                          | Project Name and Contractor                                     | Value (USD) |
|------|-------------------------------|-----------------------------------------------------------------|-------------|
| 2016 | Pertamina EP Asset 5          | Pertamina EP Asset 5 Fiel Bunyu, <b>Sharon Makmur Sejahtera</b> | 148 K       |
| 2016 | Pertamina MOR VII Makassar    | Pertamina MOR VII, <b>MJPL</b>                                  | 85 K        |
| 2016 | Pertamina EP                  | Paku Gajah Project, <b>Suluh Ardi Engineering</b>               | 490 K       |
| 2016 | OKI Pulp & Paper              | OKI, <b>Keystone</b>                                            | 209 K       |
| 2016 | Semen Padang                  | Semen Padang, <b>Wahanakarsa</b>                                | 82 K        |
| 2016 | Pertamina EP                  | Paku Gajah Project, <b>Suluh Ardi Engineering</b>               | 37 K        |
| 2016 | Wijaya Karya                  | WIKA, <b>Mitra Galperti</b>                                     | 111 K       |
| 2016 | Petrokimia Gresik             | Petrokimia Ammonia, <b>Mitra Galperti</b>                       | 29 K        |
| 2016 | Chevron Riau                  | Petapahan Tank, <b>Wahanakarsa</b>                              | 354 K       |
| 2016 | Pertamina MOR II Palembang    | DPPU Sultan Thaha Project, <b>Permata Abadi</b>                 | 72 K        |
| 2016 | Pertamina Teluk Kabung Padang | Pertamina Teluk Kabung Project, <b>MJPL</b>                     | 55 K        |
| 2016 | Pertamina MOR VII Makassar    | Pertamina Jastek, <b>Nusacitra</b>                              | 54 K        |
| 2016 | Pertamina RU V Balikpapan     | Check&Gate, <b>Wanda Putri</b>                                  | 275 K       |
| 2016 | Perta Arun                    | LNG Filling Station Arun, <b>Citra Graha Makmur</b>             | 151 K       |
| 2017 | Pertamina MOR VII Makassar    | Donggala Project, <b>PBAS</b>                                   | 169 K       |
| 2017 | Pertamina MOR VII Makassar    | Donggala Project, <b>PBAS</b>                                   | 98 K        |
| 2017 | Medco E&P Indonesia           | Kelsri Project, <b>Abemas</b>                                   | 739 K       |
| 2017 | Medco E&P Indonesia           | Kelsri Project-Check Valve, <b>Abemas</b>                       | 89 K        |
| 2017 | Pertamina MOR VII Makassar    | Pertamina DPPU Sepinggan, <b>BBB</b>                            | 122 K       |
| 2017 | Medco E&P Indonesia           | Block A Project, <b>Recon Sarana Utama</b>                      | 43 K        |
| 2017 | Pertamina MOR V Surabaya      | Pertamina MOR V, <b>PBAS</b>                                    | 35 K        |
| 2019 | Sarulla Operation Limited     | NIL Site, Sarulla                                               | 400K        |
| 2019 | BASF                          | Cigar Plant, Merak                                              | 500K        |
| 2019 | Amman Minerals Nusa Tenggara  | Pump Station & Tank Water                                       | 800K        |
| 2020 | BASF                          | Butadiene Spherical Tank                                        | 600K        |
| 2020 | Geodipa Geothermal            | Geodipa Dieng                                                   | 700K        |

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To obtain further information on profile, products, services and download literature please visit our company website [www.cisa.id](http://www.cisa.id) or contact us directly.