

COMPANY PROFILE



PT. CENTRA REKAYASA ENVIRO

ENGLISH VERSION

Updated: July 2024



Centra Rekayasa Enviro

PT. Centra Rekayasa Enviro

Engineering Solutions for Our Environment, Industry and Community

www.cr-enviro.com



OUR TEAM MEMBER

WHO WE ARE

LEADERSHIP



DIMAS SATYA LESMANA S.T., M.B.A.
PRESIDENT DIRECTOR

dimas@cr-enviro.com
 0811-110-3650



IR. DEDE IRSAD M.M.B.A.T.
OPERATIONAL DIRECTOR

dede.irsad@cr-enviro.com
 0811-2060-180



IR. HARI RACHMAT
SALES & ENGINEERING DIRECTOR

hari.rachmat@cr-enviro.com
 0812-2122-6727



MAX WILLIAM LAWENDATU S.E.
FINANCE & HR DIRECTOR

max.lawendatu@cr-enviro.com
 0812-2122-6727

TEAM MEMBER

06

Engineer

05

Admin

02

Drafter

10

Helper

06

Welder

05

Support



VISION & MISSION

CORPORATE VISION.

Think global and act local.

PT. Centra Rekayasa Enviro has a vision to be a world class company that professional and reliable in the field of Environmental Engineering and Renewable Energy with sustainable growth and capable of creating comprehensive job employment in the entire region where our company operates.

CORPORATE MISSION.

To provide the best products and services to our customers by providing clean renewable energy and engineering solutions for the environment, industry and the community around us.

CORPORATE CORE VALUES



Our core values is the heart of our organization. We operated and taking action and decision based on our corporate core values.

Below is our three core values which represent our initial company name C-R-E:

- **C – Continuous Development and Improvement**
- **R – Right First Time**
- **E – Effective and Efficient Through Reliable Management System and Excellent Team Work**



WHO ARE WE

CONNECTING YOUR BUSINESS TO THE RESOURCES YOU NEED

PT Centra Rekayasa Enviro is a fully owned private EPCI enterprise based in Bandung and have the core business in Environmental Engineering, Waste Engineering, Waste to Energy, Civil Mechanical and Electrical Engineering, Pipeline Integrity, Operation and Maintenance Service, Trading and Consulting.

We provide integrated services backed up by excellent teamwork and committed with customer success.

PT. Centra Rekayasa Enviro has a vision to be a world class company that professional and reliable in the field of Environmental Engineering and Renewable Energy with sustainable growth and capable of creating comprehensive job employment in the entire region where our company operates.

Our mission is to provide the best products and services to our customers by providing engineering solutions for the environment, industry and the community around us.



SCOPE OF SERVICES



PT Centra Rekayasa Enviro is an ISO 9001:2015 Certified Company and a fully owned private EPCI enterprise based in Bandung and have the core business in providing high quality environmental and waste management equipment.

Our scope of service:

- **EPCI & Fabrication**
- **Civil Mechanical Electrical Engineering**
- **Environmental Engineering**
- **Waste Engineering**
- **Waste to Energy**
- **Operation and Maintenance**
- **Consulting**
- **Trading**

ENGINEERING SERVICES



ENGINEERING AND FABRICATION SERVICES

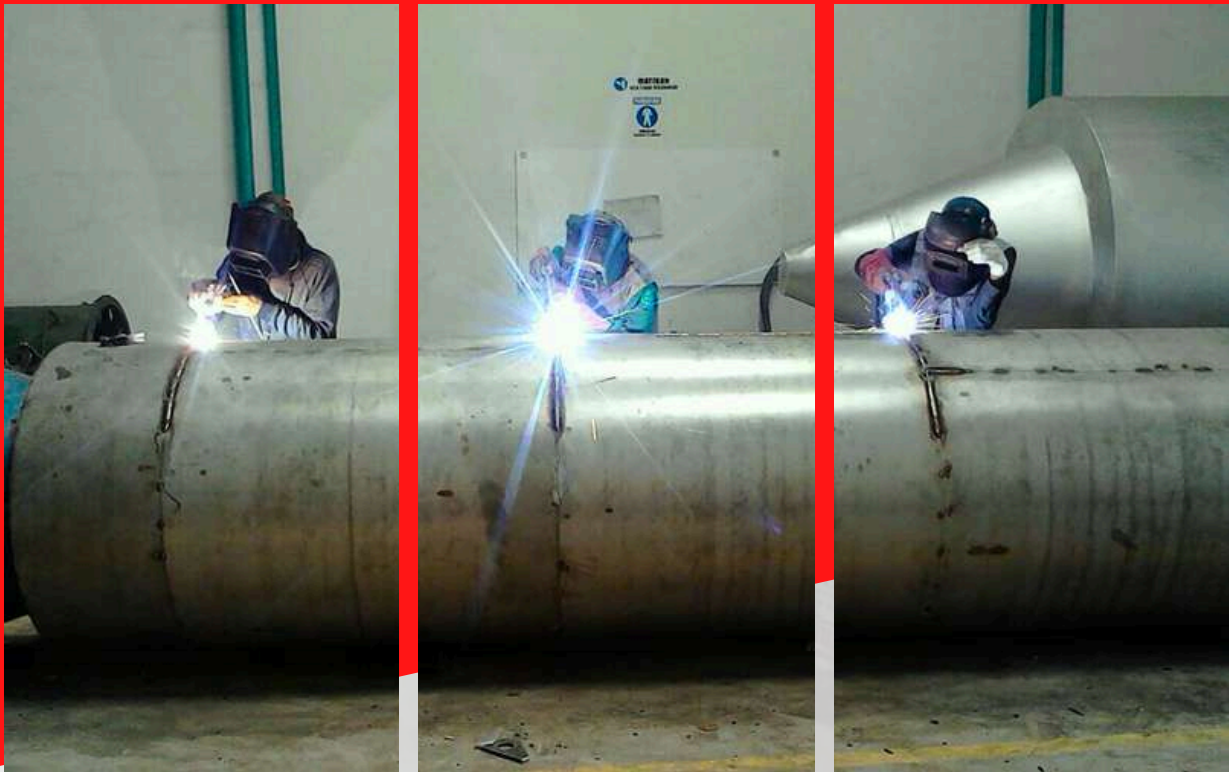
We can assist your organization to develop a sustainable and practical engineering and fabrication service which could make improvement program that will deliver real change within and improve how resources are managed.

ENGINEERING SERVICES

Our Engineering division will provide our client with the most sophisticated resources for clients requirement. Which includes:

- Basic Concept and Business Plan (BP)
- Feasibility Study (FS)
- Site Plan (SP)
- Detailed Engineering Design (DED)

FABRICATION SERVICES



WASTE EQUIPMENT FABRICATION SERVICES

With the fabrication as one of our service, we provide the following solutions for Environmental and Waste Engineering solutions:

- Waste Water Treatment Plant (WWTP) using latest technology such as Electrocoagulation (EC), Carbon Filter, Reverse Osmosis, Bacterial and Chemical Treatment etc
- Incinerator Fabrication and Installation including it's operation and maintenance services.
- Shredder and Crusher
- Column Distillation
- Etc

INTEGRATED SOLUTIONS

CONNECTING YOUR BUSINESS TO THE RESOURCES YOU NEED

Providing a sustainable engineering and energy solutions is a complex part of PT. Centra Rekayasa Enviro commitment. Backed up with excellent team work and comprehensive experience, we provide world class services to all of our customer requirement.

Our Commitment:

Customer Success and Full Traceability

Our Services includes:

- Development and Fabrication of Waste Management System
- Equipment such as Waste Water Treatment Plant, Incinerator,
- Crusher, Shredder, Solvent Distillation, etc
- Risk Assessment and Mitigation of Waste
- Auditing for Compliance with Local and International Law
- Pipeline Integrity services
- Consulting for Waste Management
- Training for Manpower
- Staffing and Outsourcing





TUV ISO 9001:2015 Certificate



CERTIFICATE

Management System as per
ISO 9001 : 2015

In accordance with TÜV NORD Indonesia procedures, it is hereby certified that

PT. CENTRA REKAYASA ENVIRO

Head Office : Jl. Mekar Agung, Ruko Taman Mekar Agung No. 42,
Mekar Wangi, Bojongloa Kidul, Bandung,
Jawa Barat 40237 - Indonesia

Workshop : Kawasan Industri Deprima Terra Blok E1 No. 11,
Jl. Sapan No. 1A, Tegalluar, Bojongsoang, Bandung
Jawa Barat 40287 - Indonesia



applies a management system in line with the above standard for the following scope

**Engineering, Procurement, Construction and Installation (EPCI)
Services and Fabrication**

Certificate Registration No. 16 00 A 19007
Audit Report No I-A19007/2019

Valid until 2022-01-06
Initial Certification 2019-01-07

TÜV NORD Indonesia Certification Body
TÜV NORD Group

Jakarta, 2019-01-07

This certification was conducted in accordance with the TÜV NORD Indonesia auditing and certification procedures and is subject to regular surveillance audits.

PT TÜV NORD Indonesia, Perkantoran Hijau Arkadia Tower F 7th floor, Jl. Let. Jend. T.B Simatupang Kav. 86, Jakarta Selatan 12520



TÜV NORD GROUP

150391

ID 19005 CA





**ADVANCED
SMART INCINERATOR
TECHNOLOGY**



THE MOST ADVANCED INCINERATOR TECHNOLOGY IN INDONESIA

Setting the Standard in Incinerator & Thermal Equipment



CRE is a leading manufacturer and installer of incinerator equipment in Indonesia.

Our high quality incineration equipment products offer solutions for managing domestic, hazardous and medical waste and our reputation of innovation and manufacturing excellence is recognized through numerous awards.



In response to the challenge of achieving consistently high performance against an ever tighter regulation in the incineration industry, more professionals and customers trust CRE to deliver on our promise to set the standard in incineration and thermal equipment in Indonesia.

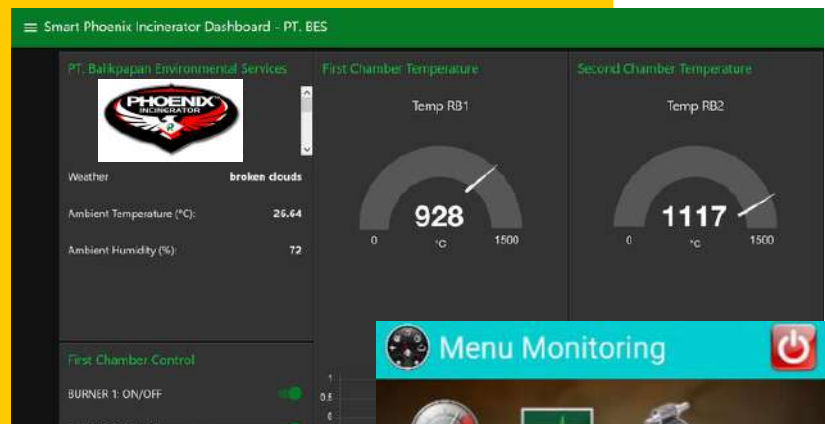
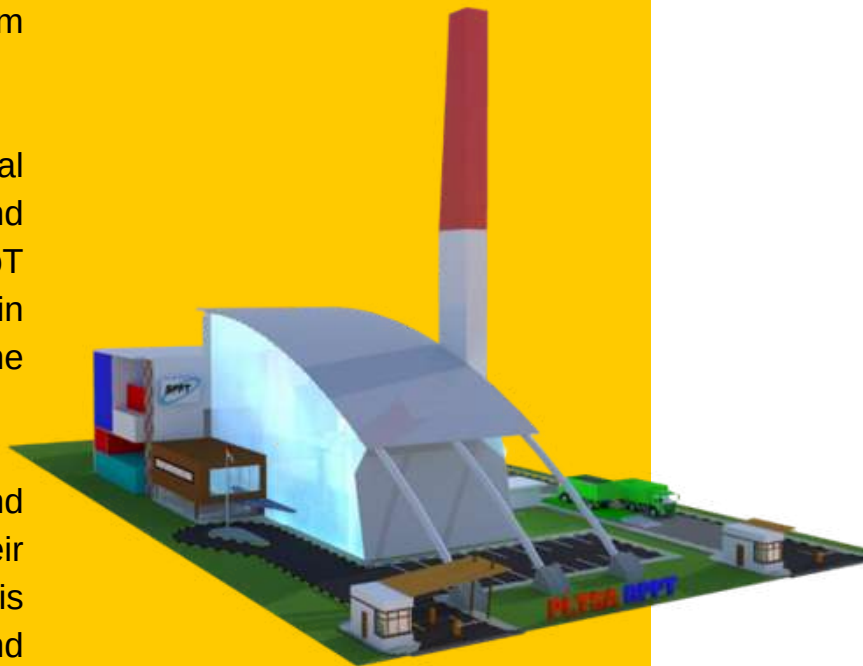
HIGH PERFORMANCE AND SMART!

Phoenix Incinerator™

Our Phoenix Incinerator is a high performance, robust and equipped with the latest SMART technology, which we embed an Internet of Things (IoT) system in each of our product.

The advancement of IoT within thermal incinerator equipment is lead by CRE, and we are the first company that is using IoT in all of our equipment to help the client in managing, controlling and using the equipment.

By applying IoT, customer can control and monitor their equipment simply using their mobile phone. The incinerator apps is designed to help the clients in viewing and generating reports as per requirement made by the customers.



01

IOT READY

03

ROBUST

02

APPS READY

04

HIGH PERFORMANCE



android





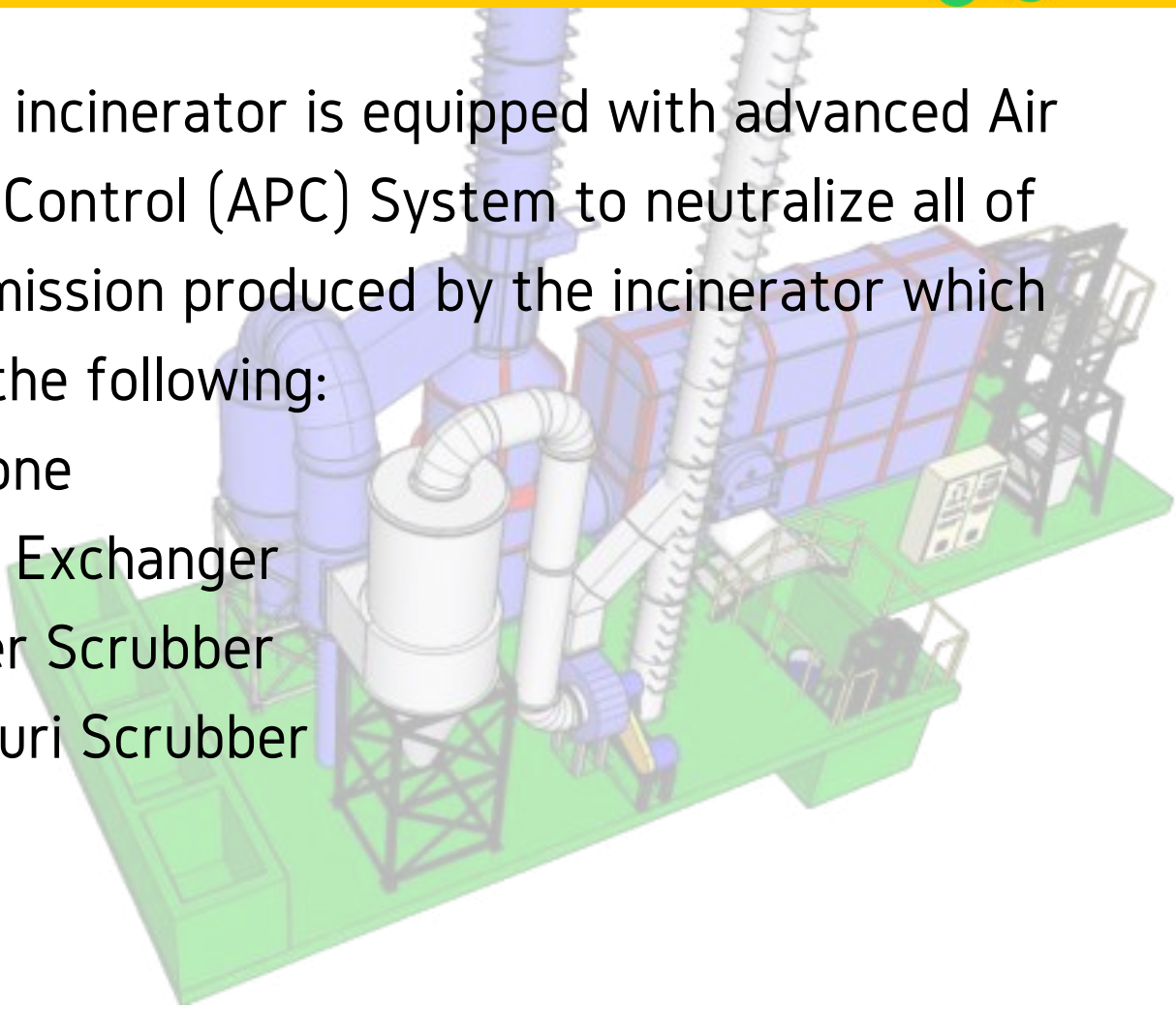
ADVANCED AIR POLLUTION CONTROL

NEUTRALIZED THE AIR EMISSION UP TO MICROSCOPIC LEVEL AND COMPLIANCE WITH REGULATION.

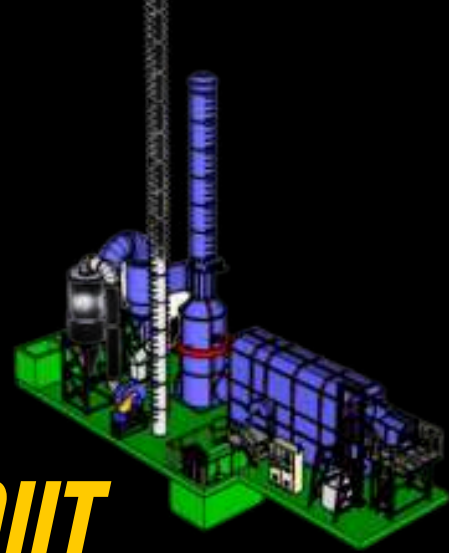


All of our incinerator is equipped with advanced Air Pollution Control (APC) System to neutralize all of the air emission produced by the incinerator which includes the following:

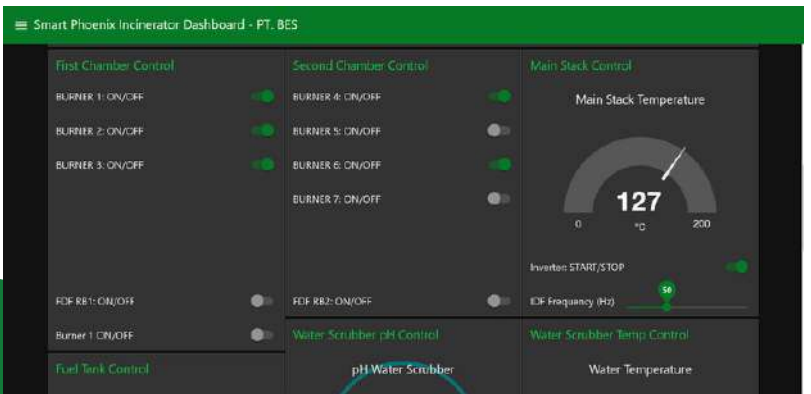
- Cyclone
- Heat Exchanger
- Water Scrubber
- Venturi Scrubber



TYPICAL MEDICAL AND B3 WASTE INCINERATION LAYOUT



Dashboard Control System



IoT - Android Apps Ready



GREEN
TECH



KLHK Approval. Green Technology Registration.



KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN
SEKRETARIAT JENDERAL

Gedung Manggala Wanabakti, Jalan Gatot Subroto
Jakarta 10270, Kotak Pos 6505
Telepon : 5730191, Faximile : 5738732

Nomor : S. 172/SETJEN/SLK/STD-2/2/2020
Lampiran : 1 (satu) berkas
Hal : Registrasi Teknologi Ramah Lingkungan
"Incinerator type Reciprocating Grate"

24 Februari, 2020

Yth.
Direktur PT Centra Rekayasa Enviro
Ruko Taman Mekar Agung No:42
Komplek Istana Taman Mekar Wangi
Jl. Moh. Toha, Bandung
Jawa Barat



Menindaklanjuti surat Saudara No : 002/CRE/I/2020 tertanggal 21 Januari 2020, perihal Surat Perpanjangan Registrasi Teknologi Ramah Lingkungan "Incinerator type Reciprocating Grate", bersama ini disampaikan bahwa:

1. Merujuk:
 - a. Undang-undang Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup, Pasal 63 ayat 1 butir v bahwa Pemerintah mengkoordinasikan, mengembangkan, dan menyosialisasikan pemanfaatan teknologi ramah lingkungan hidup;
 - b. Peraturan Menteri Negara Lingkungan Hidup No:22 Tahun 2009 tentang Tata Laksana Registrasi Kompetensi Bidang Lingkungan.
 - c. Peraturan Menteri Lingkungan Hidup No: 2 Tahun 2014 tentang Pencantuman Logo Ekolabel.
 - d. Keputusan Sekretaris Jenderal Kementerian Lingkungan Hidup dan Kehutanan Nomor: SK.5/SETJEN/SLK/STD.2/2/2019 tanggal 4 Februari 2019 tentang Komite Teknis Verifikasi Teknologi Ramah Lingkungan.
 - e. SNI 14034 -2017 : Manajemen Lingkungan – Verifikasi Teknologi Lingkungan.
2. Berdasarkan butir satu di atas, permohonan perpanjangan registrasi Alat Incinerator untuk Limbah Medis dan Sampah (Limbah Padat Domestik) **type "Reciprocating Grate"** telah disetujui dengan nomor registrasi : **020/TRL/Reg-2/KLHK**, dan masa berakhir nomor registrasi berlaku dalam jangka waktu 3 (tiga) tahun.
3. Dengan dikeluarkannya surat registrasi teknologi ramah lingkungan ini, maka surat registrasi teknologi ramah lingkungan dengan nomor S.347/SETJEN/SLK/SET.I/3/2017 tanggal 20 Maret 2017 dinyatakan sudah tidak berlaku.

Demikian disampaikan, atas perhatian Saudara diucapkan terimakasih.

Sekretaris Jenderal,

Dr. Ir. Bambang Hendroyono, M.M
NIP. 19640930 198903 1 001

Tembusan Yth:

1. Menteri Lingkungan Hidup dan Kehutanan (sebagai laporan);
2. Direktur Jenderal Pengelolaan Sampah, Limbah dan Bahan Berbahaya dan Beracun, KLHK;
3. Direktur Pengembangan Penyehatan Lingkungan pemukiman, Ditjen Cipta Karya, Kementerian



CRE-100



Centra Rekayasa Enviro

CONTACT US:

PT. Centra Rekayasa Enviro

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@crenviro

@CREnviro

Centra Rekayasa Enviro

PHOENIX INCINERATOR™
CRE-100 SOLID AND LIQUID INCINERATOR

Applications:

Domestic, Medical and Hazardous Waste
Solid and Liquid Waste

Temperature range:

Primary Chamber 800 - 1000 C
Secondary Chamber 1000 - 1200 C

Capacity:

100 kg/hours

Air Pollution Control:

Water Scrubber and Cyclone System

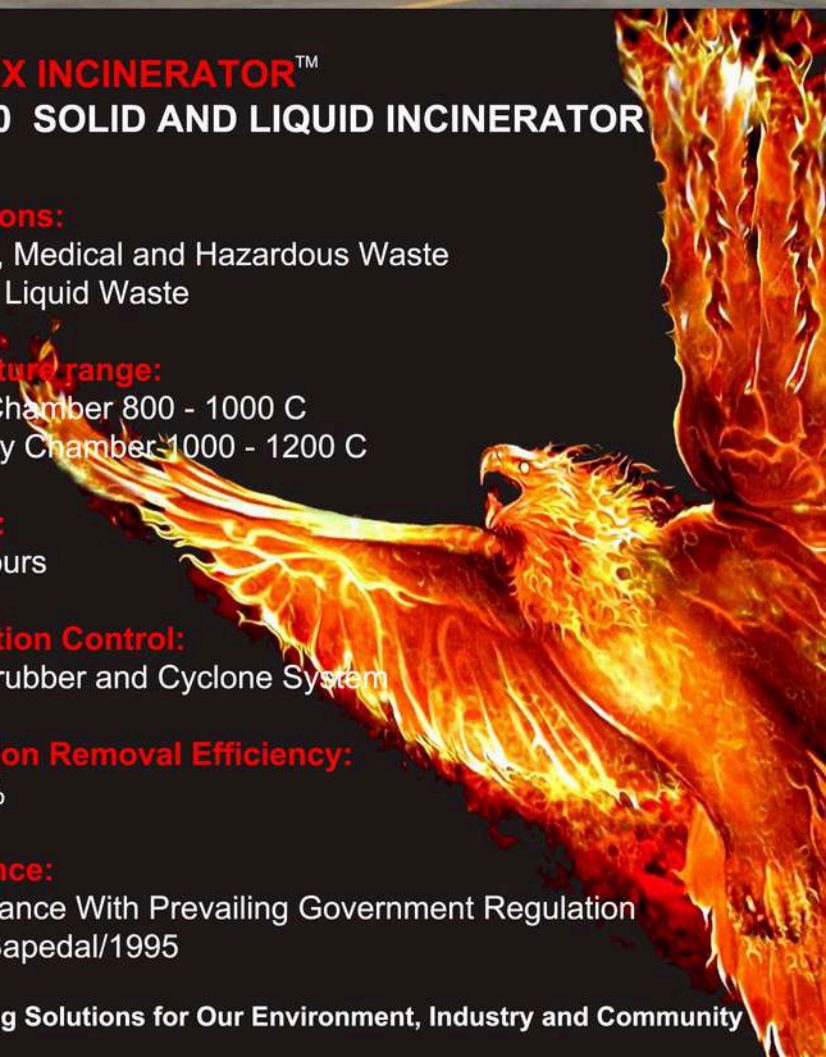
Destruction Removal Efficiency:

99.9999%

Compliance:

In Accordance With Prevailing Government Regulation
Kep. 03/Bapedal/1995

Engineering Solutions for Our Environment, Industry and Community



INCINERATOR GENERAL SPECIFICATION

PT. CENTRA REKAYASA ENVIRO



GENERAL SPECIFICATION	Reciprocating Kap. 100 Kg/Jam
Merk	Phoenix Incinerator
Type	CRE-100
Kapasitas	100 Kg/Jam
Jenis Limbah	Limbah Domestik/Limbah Padat Medis/Limbah B3
Ruang Bakar Utama	2.6 M3
Ruang Bakar Kedua	1.9 M3
Meşin Burner (Pembakar)	2 Unit
Meşin Blower (Injector Udara)	2 Unit
Jenis Bahan Bakar	Solar/Gas
Konsumsi Bahan Bakar	30 Liter/jam
Kebutuhan Tegangan Listrik	220 v/ 380 v/ 50 Hz
Kebutuhan Daya Listrik	10 KW
Temperatur Ruang Bakar	Primary chamber 800 C - 1000 C, Secondary Chamber 1000 C - 1200 C
Waktu Tinggal Gas	>2 detik
Efisiensi Pembakaran	99,99%
Efisiensi Penghancuran dan Penghilangan (DRE)	99,9999%
Uji Dioxin Furan (Std min: <0.1 ng/nm3)	Pass
Indikator Temperatur	Digital thermocontrol
Kontrol Panel	PLC
Kapasitas Bahan Bakar	500 Liter
Sistem Pengumpan Limbah	Ram Feeder
Badan Meşin Utama	Mild Steel
Refractory material	SK 34 & SK 36 Bata Api dan C - 15 Castable cement
Bahan Penahan Panas (Isolator)	Insulation brick/ Ceramic Fiber/Rockwool/Glasswool
Spesifikasi Cerobong	1200 mm x 300 mm, Stainless Steel
Tinggi Cerobong (dari permukaan tanah)	14 meter
Lubang Pengambilan Uji Emisi	8 DE/2 DE
Fasilitas Pendukung Pengambilan Uji Emisi	Tangga dan Platform yang dilengkapi pengaman
Ukuran Dimensi Keseluruhan	9 m x 6 m x 2.5 m
Berat Meşin Keseluruhan	5 ton
Jenis Air Pollution Control (APC)	Water Scrubber dan Cyclone System



PHOENIX INCINERATOR™ CRE-300 SOLID AND LIQUID INCINERATOR

Applications:

Domestic, Medical and Hazardous Waste
Solid and Liquid Waste

Temperature range:

Primary Chamber 800 - 1000 C
Secondary Chamber 1000 - 1200 C

Capacity:

300 kg/hours

Air Pollution Control:

Water Scrubber and Cyclone System

Destruction Removal Efficiency:

99.9999%

Compliance:

In Accordance With Prevailing Government Regulation
Kep.03/Bapedal/1995

Engineering Solutions for Our Environment, Industry and Community



Centra Rekayasa Enviro

CONTACT US:

PT. Centra Rekayasa Enviro

Office:
Jl. Taman Mekar Agung, Ruko No. 42,
Istana Mekar Wangi, Bandung,
Indonesia 40237

Workshop:
Kawasan Industri De Prima Terra Blok E1-11,
Jalan Raya Sapan, Bojongsoang - Bandung,
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Centra Rekayasa Enviro



INCINERATOR GENERAL SPECIFICATION

PT. CENTRA REKAYASA ENVIRO



GENERAL SPECIFICATION	Reciprocating Kap. 300 Kg/jam
Merk	Phoenix Incinerator
Type	CRE-300
Kapasitas	300 kg/jam
Jenis Limbah	Limbah Domestik/Limbah Padat Medis/Limbah B3
Ruang Bakar Utama	6.7 M3
Ruang Bakar Kedua	7.1 M3
Meşin Burner (Pembakar)	5 Unit
Meşin Blower (Injector Udara)	2 Unit
Jenis Bahan Bakar	Solar/Gas
Konsumsi Bahan Bakar	75 Liter/jam
Kebutuhan Tegangan Listrik	220 v/ 380 v/ 50 Hz
Kebutuhan Daya Listrik	15 KW
Temperatur Ruang Bakar	Primary chamber 800 C - 1000 C, Secondary Chamber 1000 C - 1200 C
Waktu Tinggal Gas	>2 detik
Efisiensi Pembakaran	99,99%
Efisiensi Penghancuran dan Penghilangan (DRE)	99,9999%
Uji Dioxin Furan (Std min: <0.1 ng/nm ³)	Pass
Indikator Temperatur	Digital thermocontrol
Kontrol Panel	PLC
Kapasitas Bahan Bakar	1000 Liter
Sistem Pengumpan Limbah	Bucket Lift & Ram Feeder
Badan Meşin Utama	Mild Steel
Refractory material	SK 34 & SK 36 Bata Api dan C - 15 Castable cement
Bahan Penahan Panas (Isolator)	Insulation brick/ Ceramic Fiber/Rockwool/Glasswool
Spesifikasi Cerobong	1200 mm x 300 mm, Stainless Steel
Tinggi Cerobong (dari permukaan tanah)	30 meter
Lubang Pengambilan Uji Emisi	8 DE/2 DE
Fasilitas Pendukung Pengambilan Uji Emisi	Tangga dan Platform yang dilengkapi pengaman
Ukuran Dimensi Keseluruhan	8.7 m x 10 m x7.8 m
Berat Meşin Keseluruhan	12 ton
Jenis Air Pollution Control (APC)	Water Scrubber dan Cyclone System

CRE-500



CONTACT US:

PT. Centra Rekayasa Enviro

Office:
Jl. Taman Mekar Agung, Ruko No. 42,
Istana Mekar Wangi, Bandung,
Indonesia 40237

Workshop:
Kawasan Industri De Prima Terra Blok E1-11,
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 Centra Rekayasa Enviro



PHOENIX INCINERATOR™ CRE-500 SOLID AND LIQUID INCINERATOR

Applications:

Domestic, Medical and Hazardous Waste
Solid and Liquid Waste

Temperature range:

Primary Chamber 800 - 1000 C
Secondary Chamber 1000 - 1200 C

Capacity:

500 kg/hours

Air Pollution Control:

Water Scrubber and Cyclone System

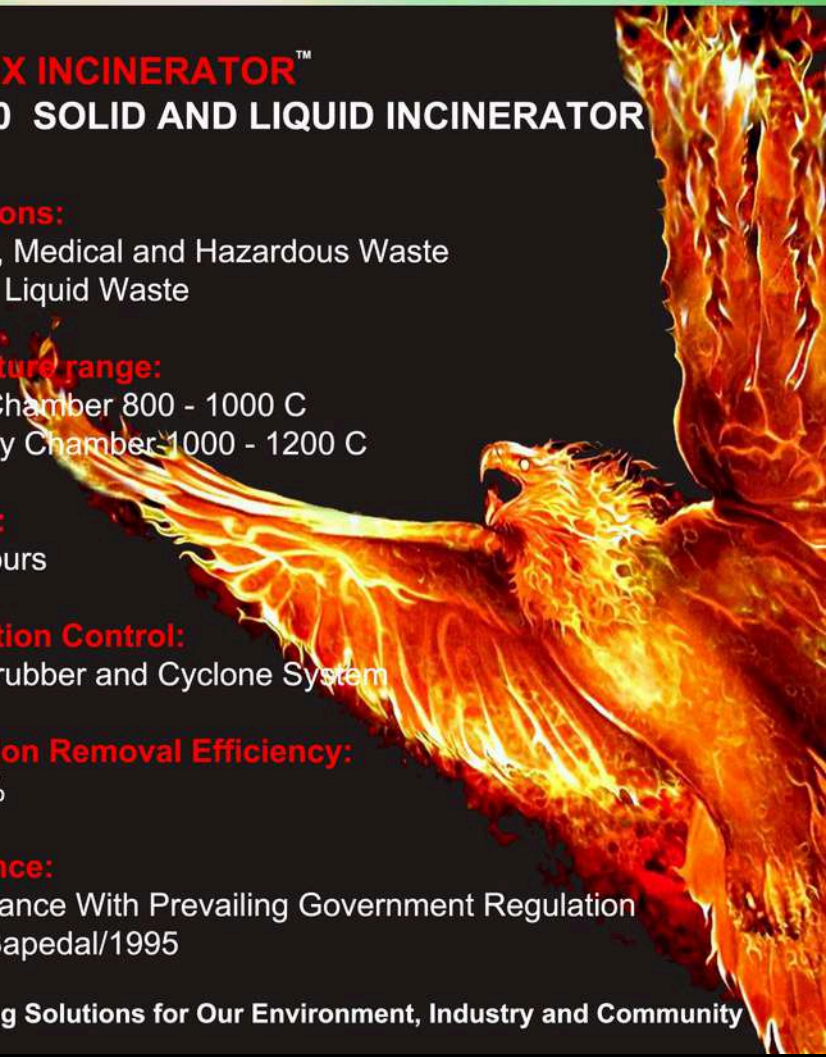
Destruction Removal Efficiency:

99.9999%

Compliance:

In Accordance With Prevailing Government Regulation
Kep. 03/Bapedal/1995

Engineering Solutions for Our Environment, Industry and Community



INCINERATOR GENERAL SPECIFICATION

PT. CENTRA REKAYASA ENVIRO



GENERAL SPECIFICATION	Reciprocating Kap. 500 Kg/jam
Merk	Phoenix Incinerator
Type	CRE-500
Kapasitas	500 Kg/Jam
Jenis Limbah	Limbah Domestik/Limbah Padat Medis/Limbah B3
Ruang Bakar Utama	8 M3
Ruang Bakar Kedua	8.5 M3
Meşin Burner (Pembakar)	7 Unit
Meşin Blower (Injector Udara)	2 Unit
Jenis Bahan Bakar	Solar/Gas
Konsumsi Bahan Bakar	95 Liter/jam
Kebutuhan Tegangan Listrik	220 v/ 380 v/ 50 Hz
Kebutuhan Daya Listrik	20 KW
Temperatur Ruang Bakar	Primary chamber 800 C - 1000 C, Secondary Chamber 1000 C - 1200 C
Waktu Tinggal Gas	>2 detik
Efisiensi Pembakaran	99,99%
Efisiensi Penghancuran dan Penghilangan (DRE)	99,9999%
Uji Dioxin Furan (Std min: <0.1 ng/nm3)	Pass
Indikator Temperatur	Digital thermocontrol
Kontrol Panel	PLC
Kapasitas Bahan Bakar	1000 Liter
Sistem Pengumpan Limbah	Bucket Lift & Ram Feeder
Badan Meşin Utama	Mild Steel
Refractory material	SK 34 & SK 36 Bata Api dan C - 15 Castable cement
Bahan Penahan Panas (Isolator)	Insulation brick/ Ceramic Fiber/Rockwool/Glasswool
Spesifikasi Cerobong	1200 mm x 300 mm, Stainless Steel
Tinggi Cerobong (dari permukaan tanah)	30 meter
Lubang Pengambilan Uji Emisi	8 DE/2 DE
Fasilitas Pendukung Pengambilan Uji Emisi	Tangga dan Platform yang dilengkapi pengaman
Ukuran Dimensi Keseluruhan	20 m x 7 m x 9 m
Berat Meşin Keseluruhan	16 ton
Jenis Air Pollution Control (APC)	Water Scrubber dan Cyclone System



ADVANCED WASTE WATER TREATMENT ELECTROCOAGULATION SMART TECHNOLOGY



android



ADVANCED WASTE WATER TREATMENT



NEUTRALIZED THE WASTE WATER AND WATER OUTLET IS COMPLIANCE WITH KLHK AND LOCAL REGULATION.

Electrocoagulation (EC), also known as shortwave electrolysis, is a technique used for water treatment, wastewater treatment, industrial treated water, and hospital wastewater.

Electrocoagulation technology based on electricity to remove inefficient contaminants by screening, microbiology or processing systems with chemicals, such as oil emulsions, hydrocarbons from petroleum, suspended solids, and heavy metals without the use of chemicals.

The working principle of electrocoagulation (EC) is the process of destabilizing suspended and emulsified contaminants in aqueous media using an electric current.

Advantages of EC processes:


- Lower processing costs
- Land requirement is relatively less and small
- Almost does not require additional chemicals
- Able to process various types of liquid waste
- Sludge produced is less
- The hazard and risk of working is very small
- The processing time is faster

KRITERIA	MEKANIKAL FILTRASI	BIOREMEDIASI	BAHAN KIMIA	ELEKTRO KOAGULASI
HASIL	TIDAK EFEKTIF	TIDAK EFEKTIF	MODERAT EFEKTIF	SANGAT EFEKTIF
HARGA	MODERAT EFEKTIF	MODERAT EFEKTIF	TIDAK EFEKTIF	SANGAT EFEKTIF
KEMUDAHAN OPERASIONAL	TIDAK EFEKTIF	MODERAT EFEKTIF	TIDAK EFEKTIF	SANGAT EFEKTIF
KEMUDAHAN PERAWATAN	TIDAK EFEKTIF	MODERAT EFEKTIF	TIDAK EFEKTIF	SANGAT EFEKTIF
OIL REMOVAL	MODERAT EFEKTIF	MODERAT EFEKTIF	SANGAT EFEKTIF	SANGAT EFEKTIF
TSS REMOVAL	MODERAT EFEKTIF	TIDAK EFEKTIF	SANGAT EFEKTIF	SANGAT EFEKTIF
METAL REMOVAL	TIDAK EFEKTIF	TIDAK EFEKTIF	MODERAT EFEKTIF	SANGAT EFEKTIF

GREEN
TECH



KLHK Approval. Green Technology Registration.

**KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN**
SEKRETARIAT JENDERAL
Gedung Manggala Wanabakti, Jalan Gatot Subroto
Jakarta 10270, Kotak Pos 6505
Telepon : 5730191, Faximile : 5738732

17 Juni 2020


Nomor : S. 592/SETJEN/SLK/STD.2/6/2020
Lampiran : 1 (satu) berkas
Hal : Registrasi Teknologi Ramah Lingkungan
Instalasi Pengolahan Air Limbah Elektrokoagulasi

Yth.
Direktur PT Centra Rekayasa Enviro
Ruko Taman Mekar Agung No:42
Komplek Istana Taman Mekar Wangi
Jl. Moh. Toha, Bandung



Sehubungan dengan surat Saudara No : 002/CRE/IV/2020 tertanggal 14 April 2020, perihal Surat Perpanjangan Registrasi Teknologi Ramah Lingkungan "Instalasi Pengolahan Air Limbah Elektrokoagulasi", bersama ini disampaikan bahwa:

- Merujuk:
 - Undang-undang Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup, Pasal 63 ayat 1 butir v bahwa Pemerintah mengkoordinasikan, mengembangkan, dan menyosialisasikan pemanfaatan teknologi ramah lingkungan hidup;
 - Peraturan Menteri Negara Lingkungan Hidup No:22 Tahun 2009 tentang Tata Laksana Registrasi Kompetensi Bidang Lingkungan.
 - Peraturan Menteri Lingkungan Hidup No: 2 Tahun 2014 tentang Pencantuman Logo Ekolabel.
 - Keputusan Sekretaris Jenderal Kementerian Lingkungan Hidup dan Kehutanan Nomor: SK.5/SETJEN/SLK/STD.2/2/2019 tanggal 4 Februari 2019 tentang Komite Teknis Verifikasi Teknologi Ramah Lingkungan.
 - SNI 14034 -2017 : Manajemen Lingkungan – Verifikasi Teknologi Lingkungan.
- Berdasarkan butir satu di atas, permohonan perpanjangan registrasi Instalasi Pengolahan Air Limbah Elektrokoagulasi merk "ELECTRIC EEL" telah disetujui dengan nomor registrasi : **023/TRL/Reg-2/KLHK**, dan masa berakhir nomor registrasi berlaku dalam jangka waktu 3 (tiga) tahun.
- Dengan dikeluarkannya surat registrasi teknologi ramah lingkungan ini, maka surat registrasi teknologi ramah lingkungan dengan nomor S.638/SETJEN/SLK/SET.1/6/2017 tanggal 2 Juni 2017 dinyatakan sudah tidak berlaku.

Demikian disampaikan, atas perhatian Saudara diucapkan terimakasih.

Sekretaris Jenderal,

Dr. Bambang Hendroyono, M.M
NIP. 1950090301989031001

Tembusan Yth:
1. Menteri Lingkungan Hidup dan Kehutanan (sebagai laporan);
2. Direktur Jenderal Pengendalian Pencemaran dan Kerusakan Lingkungan, KLHK.





ELECTRIC EEL - ELECTROCOAGULATION WWTP CONTAMINANT REMOVAL SYSTEM

Applications:

Domestic, Medical and Hazardous Waste Liquid Waste

Benefit:

- Less processing fee (monthly cost)
- Land requirement is relatively small
- Proses is simple, effective and efficient
- There is virtually no need of chemical materials
- Able to process various types of liquid waste
- Less sludge generated from the process
- Risk of workmanship is relatively small
- Faster processing time
- Registered as Eco Label (Green technology) by KLHK Indonesia

Capacity:

Customized as per customer requirement

Application in the Industry:

Oil and Gas, Mining, Automotive, Petrochemical, Hospitals, etc

Engineering Solutions for Our Environment, Industry and Community



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Centra Rekayasa Enviro

Experience List - Portofolio



2010
PT. Desa Air Cargo, Batam
Hazardous Waste Treatment Plant
ECR Capacity 24 M³/day

2010
PT. Tenang Jaya Sentosa, Karawang
Hazardous Waste Treatment Plant
ECR Capacity 48 M³/day

2012
PT. Putra Restu Ibu Abadi, Mojokerto
Hazardous Waste Treatment Plant
ECR Capacity 48 M³/day

PETRO CHEMICAL INDUSTRY
• Removal of efficiency pollutant >90%

TEXTILE INDUSTRY
• Removal of efficiency pollutant >90%

FOOD and beverage industry
• Removal of efficiency pollutant >95%

2014
PT. Sanyo Jaya Component, Depok
Electrical Component Industry
ECR Capacity 800 M³/day

2014
PT. Futami Food, Bogor
Bottled Tea and Soft Drink Industry
ECR Capacity 250 M³/day

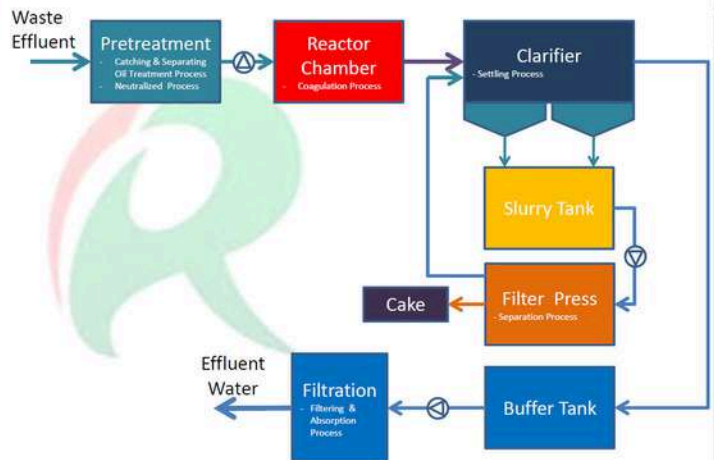
2014
PT. Suzuki Indomobil Motor Indonesia, Jakarta
Automotive Industry
ECR Capacity 200 M³/day

2015
PT. Akebono Astra Brake Indonesia, Jakarta
Automotive Spare Parts Industry
ECR Capacity 300 M³/day

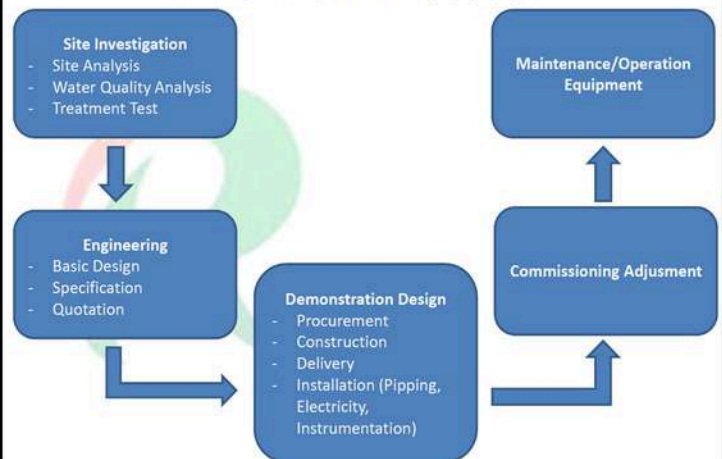
Perbandingan Teknologi IPAL:

KRITERIA	MEKANIKAL FILTRASI	BIOREMEDIASI	BAHAN KIMIA	ELEKTRO KOAGULASI
HASIL	TIDAK EFEKTIF	TIDAK EFEKTIF	MODERAT EFEKTIF	SANGAT EFEKTIF
HARGA	MODERAT EFEKTIF	MODERAT EFEKTIF	TIDAK EFEKTIF	SANGAT EFEKTIF
KEMUDAHAN OPERASIONAL	TIDAK EFEKTIF	MODERAT EFEKTIF	TIDAK EFEKTIF	SANGAT EFEKTIF
KEMUDAHAN PERAWATAN	TIDAK EFEKTIF	MODERAT EFEKTIF	TIDAK EFEKTIF	SANGAT EFEKTIF
OIL REMOVAL	MODERAT EFEKTIF	MODERAT EFEKTIF	SANGAT EFEKTIF	SANGAT EFEKTIF
TSS REMOVAL	MODERAT EFEKTIF	TIDAK EFEKTIF	SANGAT EFEKTIF	SANGAT EFEKTIF
METAL REMOVAL	TIDAK EFEKTIF	TIDAK EFEKTIF	MODERAT EFEKTIF	SANGAT EFEKTIF

WWTP EC Flow Process



EPC Main Process



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Portfolio Pekerjaan

PT. Akebono Brake Astra Indonesia, sebuah perusahaan patungan antara Akebono Brake Industry Co., Ltd. dari Jepang dan PT Astra Otoparts Tbk dari Indonesia, sedang membangun pabrik baru di Kawasan Industri KIIC Karawang. Perusahaan ini dikenal sebagai produsen terkemuka komponen rem otomotif yang mengutamakan kualitas dan inovasi. Langkah strategis ini diambil untuk meningkatkan kapasitas produksi dan memenuhi permintaan pasar domestik maupun ekspor.



Untuk mendukung pabrik baru tersebut, PT. Centra Rekayasa Enviro (CRE) telah menerima pekerjaan untuk pengadaan sistem pengolahan air limbah (Waste Water Treatment Plant - WWTP) berbasis Elektrokoagulasi dengan kapasitas 7 m³/jam dan WWTP Kimia dengan kapasitas 16 m³/jam, sistem pengolahan air limbah domestik (Sewage Treatment Plant - STP), dan sistem Reverse Osmosis (RO) dengan kapasitas 6 m³/jam untuk proses daur ulang air limbah mereka.



Proyek ini merupakan langkah strategis PT. Akebono Brake Astra Indonesia dalam meningkatkan kapasitas produksi dan memenuhi permintaan pasar yang terus berkembang. Dengan kerjasama ini, PT. Centra Rekayasa Enviro berharap dapat berkontribusi secara signifikan dalam mendukung keberlanjutan dan efisiensi operasional pabrik baru mereka di KIIC Karawang.



PARTIAL EXPERIENCE LIST

- Kementerian Lingkungan Hidup dan Kehutanan (KLHK) Indonesia
- RSUD Patrol, Jawa Barat
- RSUD Ciawi, Bogor
- RSUD Rembang, Jateng
- RS Banjarmasin Siaga, Kalsel
- RS ST Carolus Borromeus, Kupang
- PT. Akebono Astra Indonesia, Jakarta & Karawang
- PT. Andhika Makmur Persada (AMP), Bogor
- PT. Tenang Jaya Sejahtera (TJS), Karawang
- PT. Bintangmas Cahaya Internasional (BCI), Serang
- PT. Harapan Baru Sejahtera Plastik (HBSP), Karawang
- PT. Arah Environmental Indonesia (ARAH), Solo
- PT. Triguna Pratama Abadi (TPA), Karawang
- PT. Putera Restu Ibu Abadi (PRIA), Mojokerto
- PT. Multi Hanna Kreasindo Tbk (MHK), Bekasi
- PT. Horas Miduk (HM), Sukabumi
- PT. Selamat Sempurna Tbk (ADR Group), Banten
- PT. Sumatera Deli Lestari Indah (SDLI), Medan
- PT. Purwakarta Jaya (PJ), Purwakarta
- PT. BS Jaya (BSJ), Cirebon
- PT. Global Enviro Nusa (GEN), Semarang
- PT. Balikpapan Environment Services (BES), Balikpapan
- PT. Istaka Karya Tbk (IK), Cirebon
- PT. Adhi Karya Tbk (BUMN), Medan
- PT. Jasa Medivest, Bandung
- PT. Kapur Beunghar Abadi, Sukabumi



PARTIAL EXPERIENCE LIST

- PT. Jatim Maju Jaya - PT. Pratama Jatim Lestari (BUMD), Mojokerto, Jatim
- PT. Pertamina Hulu Rokan (PHR, Riau)
- Universitas Padjajaran, Bandung
- British Petroleum (BP) Berau Ltd, Papua
- Petrogas (Basin) Ltd, Papua
- PT. Istaka Karya (Persero)
- PT. KAI Indonesia (Persero), Balai Yasa, Yogyakarta
- PT. Prasadha Pamunah Limbah Industri (PPLI), Bogor
- PT. Darma Henwa, Malinau Coal Site Project, Kaltara
- PT. LX International (LG Korea Group), Jakarta
- PT. Futami Food & beverages, Sukabumi
- PT. Harya Dewa, Purwokerto
- PT. jalan Hijau, Jakarta
- PT. Nasional Hijau Lestari (BUMN), Jakarta
- PT. Pengelola Limbah Kutai Kertanegara, Kaltim
- PT. PLN Operasional Riau, Pekanbaru
- PT. Raja Gudang Mas, banten
- PT. Wahana Pamunah Limbah Industri, Banten
- PT. Sanyo Jaya Komponen, Depok
- PT. Johnson Home Hygiene Products, Jakarta
- PT. Sumatera Deli Lestari Indah, Medan
- PT. Suzuki Indomobil, Jakarta



PROJECT GALLERY

Practical Experience
You Can Depend On



Project Name: Heat Exchanger
Type: Water Based System
Scope: Engineering Design, Fabrication and Installation
Year Installed: 2011
Customer: Hazardous Waste Treatment Plant
Location: East Kalimantan



Project Name: Incinerator Operation and Maintenance
Type: Rotary Kiln System
Capacity: 1000 Kg per Hour
Scope: Operation Maintenance and Improvement
Year Installed: 2013
Customer: Hazardous Waste Treatment Plant - East Kalimantan



Project Name: WWTP Electro Coagulation
Type: Batch System
Capacity: 200 meter cubic per day
Scope: Engineering Design, Fabrication and Installation
Year Installed: 2012
Customer: Food and Beverage Industry, West Java



Project Name: Hazardous Waste Incinerator
Type: Reciprocating System
Capacity: 300 Kg per Hour
Scope: Engineering Design, Fabrication and Installation
Year Installed: 2013
Customer: Hazardous Waste Treatment Plant - East Java



Project Name: WWTP Electro Coagulation
Type: Continuous System
Capacity: 12 Meter Cubic per Hour
Scope: Engineering Design, Fabrication and Installation
Year Installed: 2015
Customer: Automotive and Spare Parts Industry - Astra Group, Jakarta

CONTACT US



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