

PROJECT REFERENCE



PREMIUM

Equipment & Engineering

With our premium experience,

PREMIUM gives you premium service and serves premium quality.



FORSTAFILTERS
Self Cleaning Water Filters



Innovative Design for Efficient and
Reliable Filtration Systems



VOLUTE



PROJECT REFERENCE

UF & RO for Brackish water treatment with Capacity of 24,000 m³/d



**Wellgrow
Industrial Estate Project**



**Chachoengsao province,
Thailand**

PROJECT REFERENCE

UF & RO for Brackish water treatment with Capacity of 24,000 m³/d



Wellgrow Industrial Estate Project

Chachoengsao province, Thailand

PROJECT REFERENCE

Potable Water Treatment Modification from Surface water
with capacity 4,000 m³/d



อรรถดี มีประโยชน์

Dairy Plus Co., Ltd ***Nakornsawan province, Thailand***

PROJECT REFERENCE

Potable Water Treatment from Surface water with capacity 4,000 m³/d



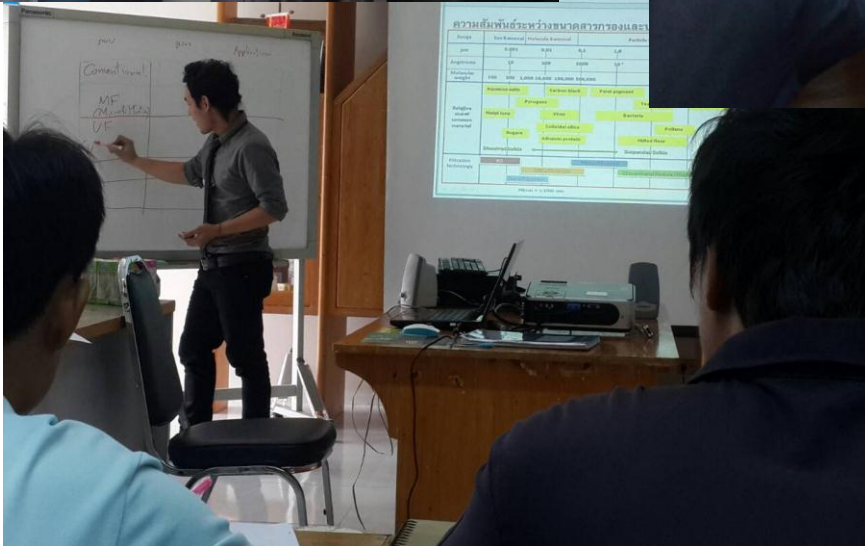
Dairy Plus Co., Ltd, Nakornsawan province, Thailand



อโรบดี สปริง

PROJECT REFERENCE

Potable Water Treatment Modification from Surface water : Training day



Dairy Plus Co., Ltd
Nakornsawan province,
Thailand



PROJECT REFERENCE

Potable Water treatment for Process capacity 720 m3/d



AB Food & Beverage (Thailand) Co.,Ltd

Samutprakarn province, Thailand

PROJECT REFERENCE

Potable Water Treatment from Surface Water with Capacity of 24 m³/hr



Chanthaburi Global Trade Co., Ltd

Chanthaburi province, Thailand

PROJECT REFERENCE

Forsta Automatic Self Cleaning (Replacement Sand filter) with Capacity of 120 m³ / hr



Premium Equipment & Engineering Co. , Ltd.

46 Moo 14 Bangchan Industrial Estate., Serithai Road., Minburi, Bangkok 10510 Thailand. Tel.
(02) 919-8900, (02) 906-3300-1, (02) 517-9437-40 Fax. (02) 517-9437
(Engineering) Email : premium@premium.co.th



K.C.E. Electronics Co., Ltd (Public)

Bangkok, Thailand

KCE
ELECTRONICS
Public Company Limited.

PROJECT REFERENCE

RO Water Treatment with capacity 12 m3/hr



Dairy Plus Co., Ltd
Nakornsawan province, Thailand



PROJECT REFERENCE

Seawater RO system for Potable water capacity 600 m³/d



Bali Island, Indonesia

PROJECT REFERENCE

RO Water Treatment with Capacity of 6 m³/hr



Thai Cane Paper Public Co., Ltd
Kanchanaburi province, Thailand



Thai Cane Paper Public Company Limited

PROJECT REFERENCE

RO Water Treatment with Capacity of 5 m³/hr



Chanthaburi Global Trade Co., Ltd

Chanthaburi province, Thailand

PROJECT REFERENCE

RO water treatment for Milk Process capacity 360 m3/d



**Dairy Farming Promotion
Organization of Thailand
(D.P.O.)**

Sukhothai province, Thailand



PROJECT REFERENCE

WasteWater Treatment Expansion By Membrane Bio Reactor(MBR)



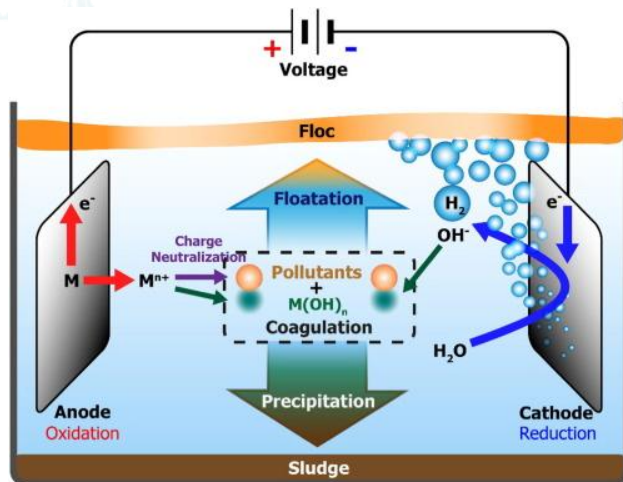
Colgate®

Colgate-Palmolive (Thailand) Co., Ltd

Chonburi province, Thailand

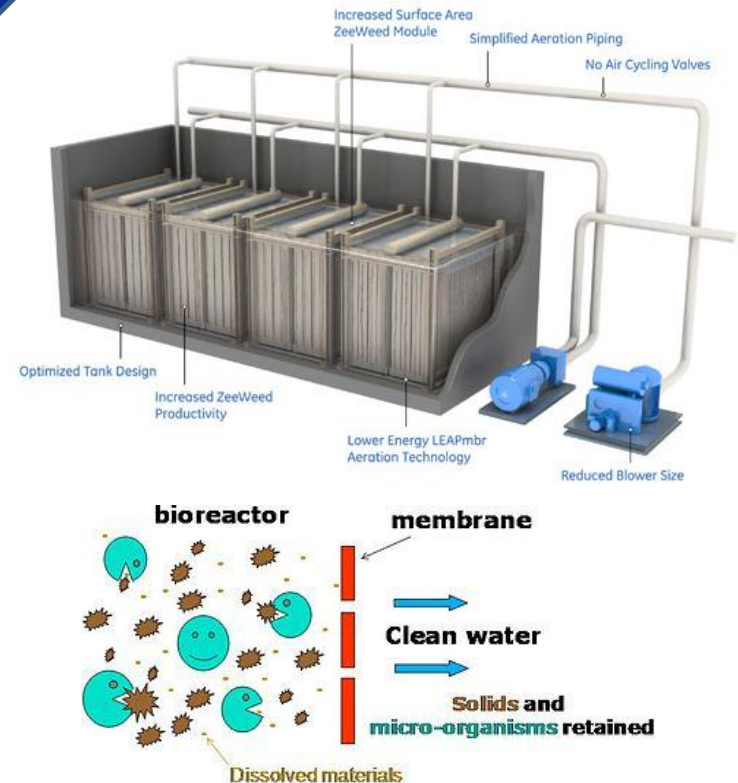
PROJECT REFERENCE

EC & MBR WasteWater Treatment with Capacity of 500 m³/d



Electrocoagulation reactor

MEMBRANE BIO REACTOR



Colgate-Palmolive (Thailand) Co., Ltd

Chonburi province, Thailand



PROJECT REFERENCE

MBR WasteWater Treatment with Capacity of 500 m³/d



Colgate-Palmolive (Thailand) Co., Ltd

Chonburi province, Thailand



PROJECT REFERENCE

Wastewater Treatment with Capacity of 10 m³ / hr



Chan Wanich Security Printing Co., Ltd

Samutprakarn, Thailand



เครื่องรีดตะกอน Sludge Dewatering Press

Screw Dewatering Machine

ส่วนปล่อยตะกอนแห้ง
Outlet Dewatered Cake



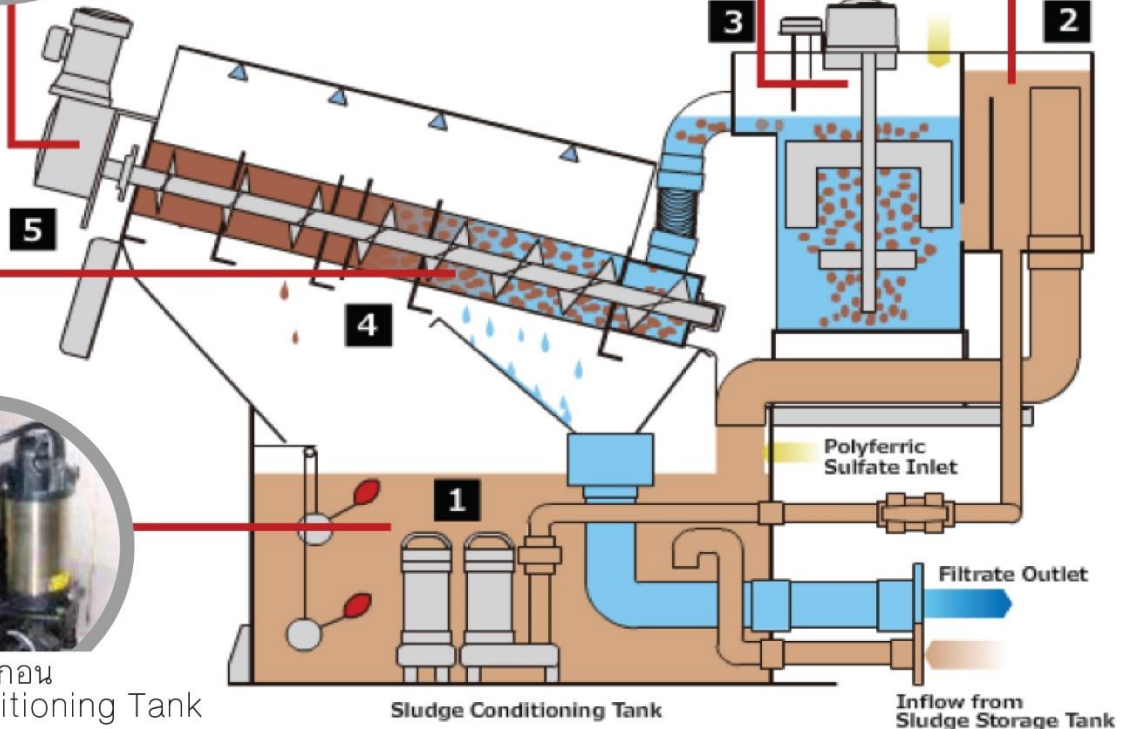
ถังก่อมวลตะกอน
Flocculation Tank



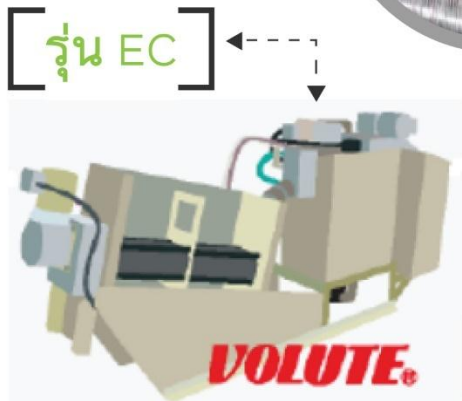
ถังควบคุมอัตราการไหล
Flow Control Tank



ส่วนรีดตะกอน
Cylinder Unit



ถังปรับสภาพตะกอน
Sludge Conditioning Tank



PROJECT REFERENCE

Volute Dewatering Screw Press



Colgate-Palmolive (Thailand) Co., Ltd

Chonburi province, Thailand



PROJECT REFERENCE

Drinking water production system with semi automatic filling machine
Capacity 10000 bottles per day



4th Army Support Commands

Thung Song District , Nakhon Si Thammarat Province , Thailand



NPI
WATER STORAGE TANK

PERMASTORE®
TANKS & SILOS

CST

ถังเก็บน้ำแบบประกอบ Water Storage Tank

Imported from Europe



ถังเก็บน้ำแบบประกอบ

Water Storage Tank

NPI
WATER STORAGE TANK



การประปาส่วนภูมิภาค
Provincial Waterworks Authority

- ถังเหล็กชุบกัลวาไนซ์
- ใช้แผ่นรองรับน้ำ Enpex FPP (Flexible Poly popy lene) หนา 0.75 มม. มีน้ำหนักเบา มีความยืดหยุ่นสูง ทนทานต่อรังสี UV
- เป็นถังแบบประกอบ ไม่มีรอบเชื่อม อายุการใช้งานมากกว่า 50 ปี
- สามารถใช้เก็บน้ำดิบ น้ำประปา น้ำดื่ม หรือน้ำสำหรับดับเพลิง น้ำเพื่อการเกษตร
- ติดตั้งง่าย สะดวก รวดเร็ว คุ่มค่าในการใช้งานสูง
- มีตั้งแต่ขนาด 2,000 ลิตร - 2,500,000 ลิตร สามารถเลือกใช้ งานตามความต้องการและขนาดของพื้นที่ได้



PROJECT REFERENCE

Water Storage Tank Capacity of 252 m³



*Civicon Engineer 2001
Co., Ltd*

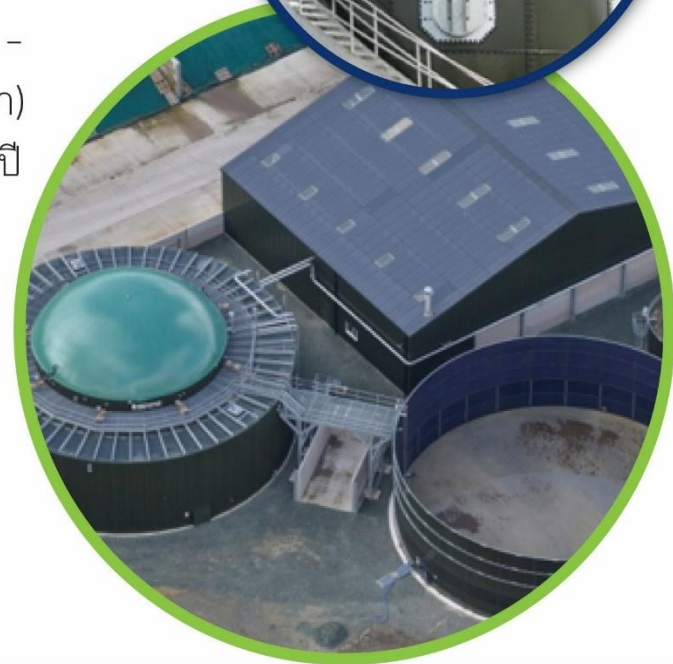
*Petchaburi province,
Thailand*



ถังเก็บน้ำแบบประกอบ Water Storage Tank



- ถังเหล็กเคลือบ FUSION®1100V โดยเคลือบแบบ Glass - Fused - to - Steel (ตรวจเช็คการเคลือบผิวทุกแผ่น 100% ด้วย กระแสไฟฟ้า)
- เป็นถังแบบประกอบ ไม่มีรอยเชื่อม อายุการใช้งานมากกว่า 50 ปี
- สามารถใช้กับงานน้ำอุปโภค / บริโภค สำหรับดับเพลิง น้ำเสีย รวมไปถึงของเหลวที่มีความเป็นกรด / ด่างสูง (pH 1-14) และงานไบโอแก๊ส
- ติดตั้งง่าย สะดวก รวดเร็ว คุ่มค่าในการใช้งานสูง
- มีตั้งแต่ขนาด 13,000 - 9,370,000 ลิตร สามารถเลือกใช้ตามความต้องการและขนาดของพื้นที่ได้



BENEFITS



Faster

- ✓ Standard components shipped to site, factory coated and ready to assemble.
- ✓ More Economical
- ✓ Excluding special jack, only basic tools are required for tank assembly.
- ✓ No welding required on-site.
- ✓ No sand blasting required on-site.
- ✓ ***Rapid Assembly by factory trained crew = Low Construction Cost***






Better

- ✓ Structural integrity guaranteed in design and fabrication.
- ✓ Factory coated in controlled environment.
- ✓ Easy to clean.
- ✓ ***Long life with low maintenance.***
- ✓ Easy to retrofit additional equipment.
- ✓ No condensate traps in the cover systems thus limiting internal corrosion.

Safer

- ✓ Tank walls are assembled and jack-raised into position.
- ✓ No work on open scaffolding or lift



COMPARISONS	CST TANK	CONCRETE TANK	WELDED TANK
<p>1. Installation time</p>	<ul style="list-style-type: none"> Fast installation by jack system. 	<ul style="list-style-type: none"> Used many scaffolding and time for concrete uniform that always delay. 	<ul style="list-style-type: none"> Used scaffolding and crane for installation not to fast. 
<p>2. Material quality</p>	<ul style="list-style-type: none"> Sectional coated steel sheets undergo an ISO 9001 controlled factory testing regime ensuring guaranteed quality on site. Product consistency worldwide. Certified and traceable quality procedures. 	<ul style="list-style-type: none"> Concrete quality is dependent on variables such as humidity, concrete batch plant location to site, site applied coating ability, site contamination, etc. 	<ul style="list-style-type: none"> No coating panel anymore that why cheaper than bolted and concrete tank. 

COMPARISONS	CST TANK	CONCRETE TANK	WELDED TANK
3. Limited season	<ul style="list-style-type: none"> Can installed for all season even rainy day that haven't effect on installation time. 	<ul style="list-style-type: none"> Rainy weather. 	<ul style="list-style-type: none"> Rainy weather.
4. Safety	<ul style="list-style-type: none"> No need hot work. No need working at heights. No need paint (Minimal environmental construction site impact). 	<ul style="list-style-type: none"> Working at height. Painting after installation already. 	<ul style="list-style-type: none"> Hot work. Working at height. Painting after installation already. 
5. Shipping on site	<ul style="list-style-type: none"> Sectional coated steel tanks are flat packed, crated, containerized and shipped in standard shipping containers. Delivery is simple, quick, and easy (even to remote locations). 	<ul style="list-style-type: none"> Shipment of concrete requires many trucks, many deliveries and Specialist pumping equipment. Expense, time delays and site location logistic issues. 	<ul style="list-style-type: none"> The tank sheets will be shipped by the big vehicle with many deliveries because it to be fabricated on construction site. 

6. Lifetime

- Sectional coated steel has a tough corrosion resistant finish.
- Minimal maintenance, no extra cost after installation.
- **Lower life cycle cost.**



7. Expansion & Relocation

- Bolted tank can be designed to be expandable **100%**
- Additional capacity if required in future.
 - Possible to re-location (dismantle & rebuilt)
 - Years after installation, ancillaries/ connection can be added.



- Overtime concrete may corrode.
- Maintenance, more costs after installation.
- Carbon dioxide from air can react with the calcium hydroxide in concrete to form calcium carbonate. This process is called **carbonation**. **Carbonation** has two effects: it increases mechanical strength of concrete, but it also decreases alkalinity, which is essential for corrosion prevention of the reinforcement steel.
- **Higher life cycle cost.**



- One in place, concrete is **"SET IN STONE"**



- Base steel connect between panel by welded method and paint
- Need to maintenance every few year such a painting, corrosion by rust.
- **High life cycle cost**



- Most of steel tank always corrosion, rusted and lose form that cannot to reuse them for relocation and expansion.



PROJECT REFERENCE



Water Storage Tank Capacity of 3,000 & 2,000 m³



Provincial Waterworks Authority

**Chachoengsao & Prachinburi province,
Thailand**



7. EGAT (CU) BIOGAS

(Thap Sakae, Prachuap Khiri Khan province)



- Job Description** : Civil work
- Technology** : Completely Stirred Tank Reactor and Modified Covered Lagoon
- Completion** : 2016



9. REDBULL DISTILLER (KAMPHAENG PHET)

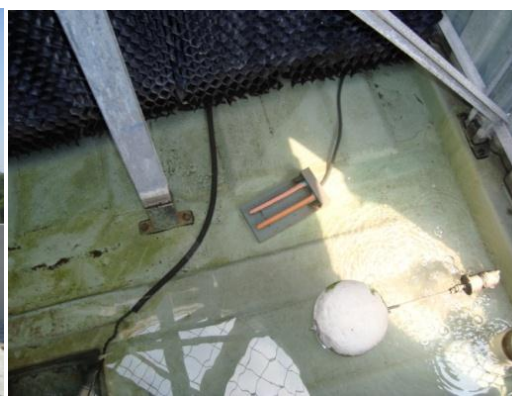




AquaMAG

Non-Chemical for Cooling Tower

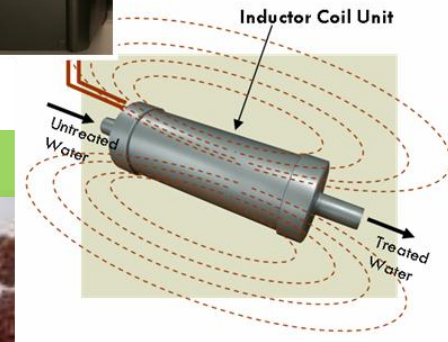
	Chemical	AquaMAG
Scale & Corrosion control	By chemicals such as Phosphate and Nitrite	By ULF treatment
Bacteria, Slime & Algae control	By biocide or toxic chemicals such as Chlorine or Bromine!	By nano M+ technology



ลักษณะตะกอนเมื่อใช้ AquaMAG



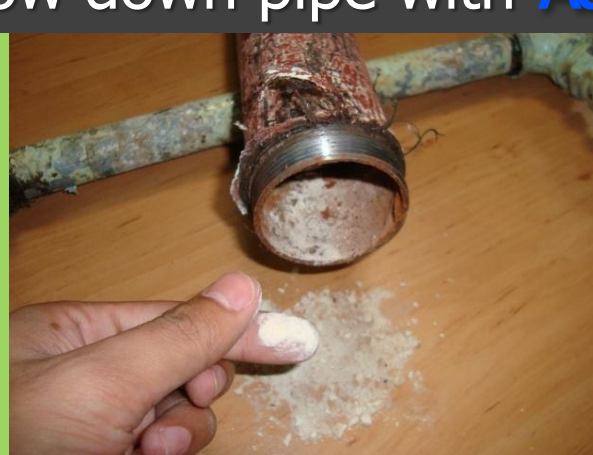
Magnetite generator built in the descaler



Descaler with AquaMAG treatment



Soft scale in blow down pipe with AquaMAG treatment





Fe_3O_4 สนิมดำ



Top



Bottom



Fe_3O_4

เชื้อแบคทีเรีย $\leq 100,000$ CFU/ml
(ค่ามาตรฐาน)





United Analytical Engineering Consultant Co., Ltd.
 11/11 Moo 11, Sukhumvit Road, Bangkok, Bangkok, Thailand
 Tel: 02-766-0283 Fax: 02-766-0284
 E-mail: uac@uac-consulting.com

ANALYSIS REPORT

CUSTOMER NAME : E COSMETIC (THAILAND) CO., LTD.

ADDRESS : 18/30 BANGKOK RANGKUNWONG 1 SURKUNWAT 103 ROAD, BANGKOK, PHRANGKONG, BANGKOK 10262

TEL : 02-2534 1754 FAX: 02-2534 1755

SAMPLING SOURCE : CAR FAN BUILDING OF SUKUMVITRAI AIRPORT

SAMPLE TYPE : COOLING WATER

SAMPLING DATE : NOVEMBER 20, 2010

SAMPLE TIME : 13:30 HOUR

SAMPLING METHOD : STERILE TECHNIQUE

SAMPLING BY : LINE

ANALYST NO. : LAP7251010

RECEIVED DATE : NOVEMBER 22, 2010

ANALYTICAL DATE : NOVEMBER 22, DECEMBER 13, 2010

REPORT NO. : L7R072510

RESULT 1

PARAMETER	UNIT	METHOD OF ANALYSIS	COOLING WATER	REMAINAL ACTION
applied to be	CFU/L	CULTURE TECHNIQUE	NOT FOUND	NOT FOUND
SAMPLE CONDITION BOTTLE (CLOSURE) TYPE STORAGE			W/FLY CLEAN	

REMARK : ANNOUNCEMENT OF THE DEPARTMENT OF HEALTH CODE OF PRACTICE FOR THE CONTROL OF LEGIONELLA BACTERIA IN COOLING TOWERS IN THAILAND (2004) REMIND ACTION FOR LEGIONELLA BACTERIA CONTAMINATION

(1) IF LEGIONELLA BACTERIA IS DETECTED IN THE COOLING TOWER, THE OWNER MANAGEMENT OF THE PREMISES ON THE BUILDING CONTAMINATION/CONTAMINATION SHALL PROVIDE THE MEASURE TO SOLVE WARNING BY THE WARNING LEVELS OF LEGIONELLA BACTERIA CONTAMINATION (LEGIONELLA AS FOLLOWING)

(A) IF LEGIONELLA BACTERIA IS COUNTED LESS THAN VALUE GRATED (COLONY FORMING UNIT), IT SHALL BE PROTECTED THAT MAINTENANCE PRACTICES MAY NOT BE SATISFACTORY AND SHALL ADVISE TO IMPROVE MAINTENANCE PROGRAMME, MONITOR AND FOLLOW-UP

(B) IF LEGIONELLA BACTERIA IS COUNTED AT THE LEVEL OF VALUE GRATED AND LESS THAN 1,000,000 CFU/LM/L, IT SHALL BE PROTECTED THAT POTENTIALLY INADEQUATE SITUATION OR SHALL ADVISE LETTER TO WARNING LETTER TO BE EVALUATE MAINTENANCE PROCEDURES INCLUDING CLEANING, WATER DISINFECTION PROCEDURE, REJECT, WATER MONITOR AND FOLLOW-UP

(C) IF LEGIONELLA BACTERIA IS COUNTED TO 1,000,000 CFU/LM/L AND MORE, IT SHALL BE SERIOUS CONSIDER TO SHUT DOWN THE SYSTEM IMMEDIATELY, DISCONTINUATION, CLEAN AND DISINFECT, MONITOR AND FOLLOW-UP

CONJECT Legation by of COOLING WATER FROM COOLING TOWER SHALL BE COMPLIED WITH THE ANNOUNCEMENT.

Papanyan T.
 (MISS PATTANAPORN THUMMANE)
 UNIT MANAGER

Wattana P.
 (MISS WITTANAPORN PATTANATERRAGAL)
 TECHNICAL MANAGER

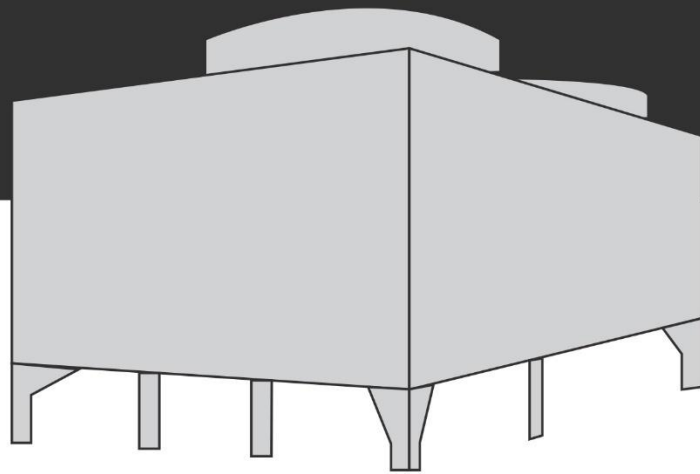
Wattana P.
 (MISS WITTANAPORN ATTJATARNATANG)
 LEGATIONARY SUPERVISOR

ANALYST NO. : LAP7251010
 RECEIVED DATE : NOVEMBER 22, 2010
 ANALYTICAL DATE : NOVEMBER 22, DECEMBER 13, 2010
 REPORT NO. : L7R072510

DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL.

REPEATED ANALYSIS REQUEST TO SUBMITTER SAMPLE

ลักษณะการติดตั้ง AquaMAG



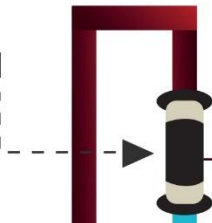
Cooling Tower



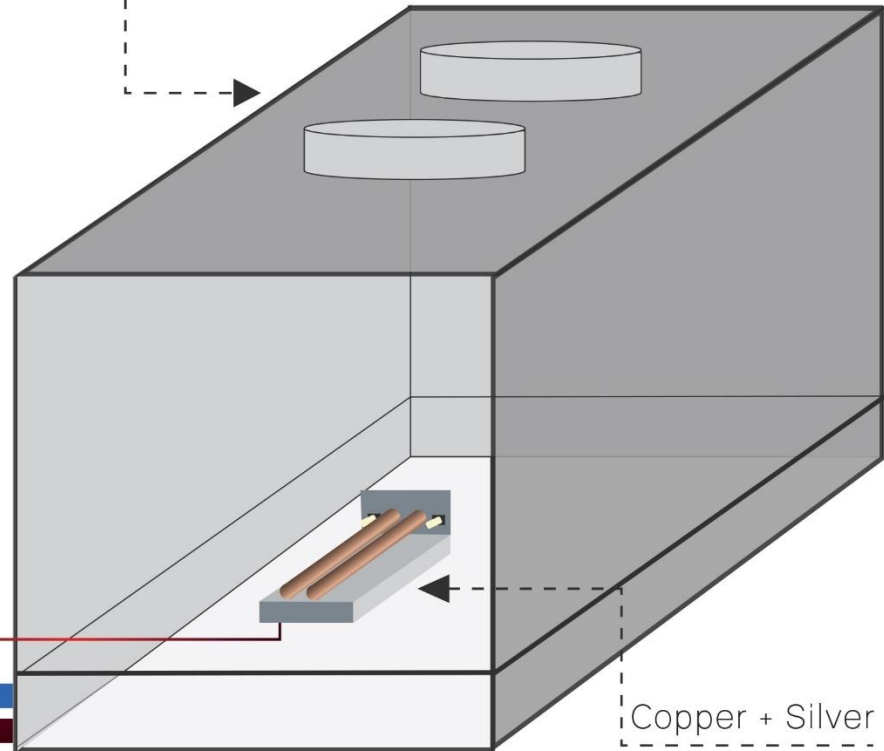
Control panel



Inductor coil



CDS
CDR

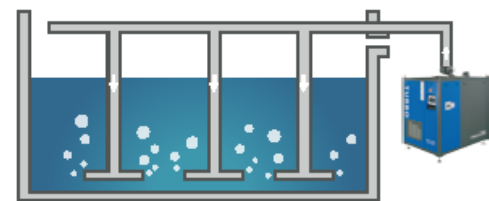


Copper + Silver
Electrode




Side Stream System

NAMWON TURBOONE

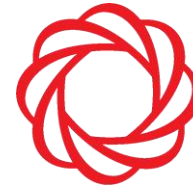
Turbo Blower



■ High Energy Saving

Distinction	Roots Blower 135HP	Multiplying gear-type Speed-increasing multi-stage turbo	TB 100-0.6
			
Principle	Volumetric type	Centrifugal type	Centrifugal type
Power transmission	V-belt	Booster gear	High-speed serial motor
Discharge pressure	0.6 bar	0.6bar	0.6 bar
Discharge flow	70m ³ /min	70m ³ /min	70m ³ /min
Output	102kW	90kW	75kW
Noise (@1m)	95~110 dB	85 dB	Less than 80dB
Vibration	Severe	Some	Non-vibration
Lubricant	Necessary	Necessary	Unnecessary
Useful life	10 years	5 to 10 years	Semi-permanent

DUST COLLECTOR



PREMIUM
Equipment & Engineering





EGAT

Power for Thai Happiness



DE-DUSTING 00PC65 อาคาร ZS.3

EGAT แม่เมาะ



การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย



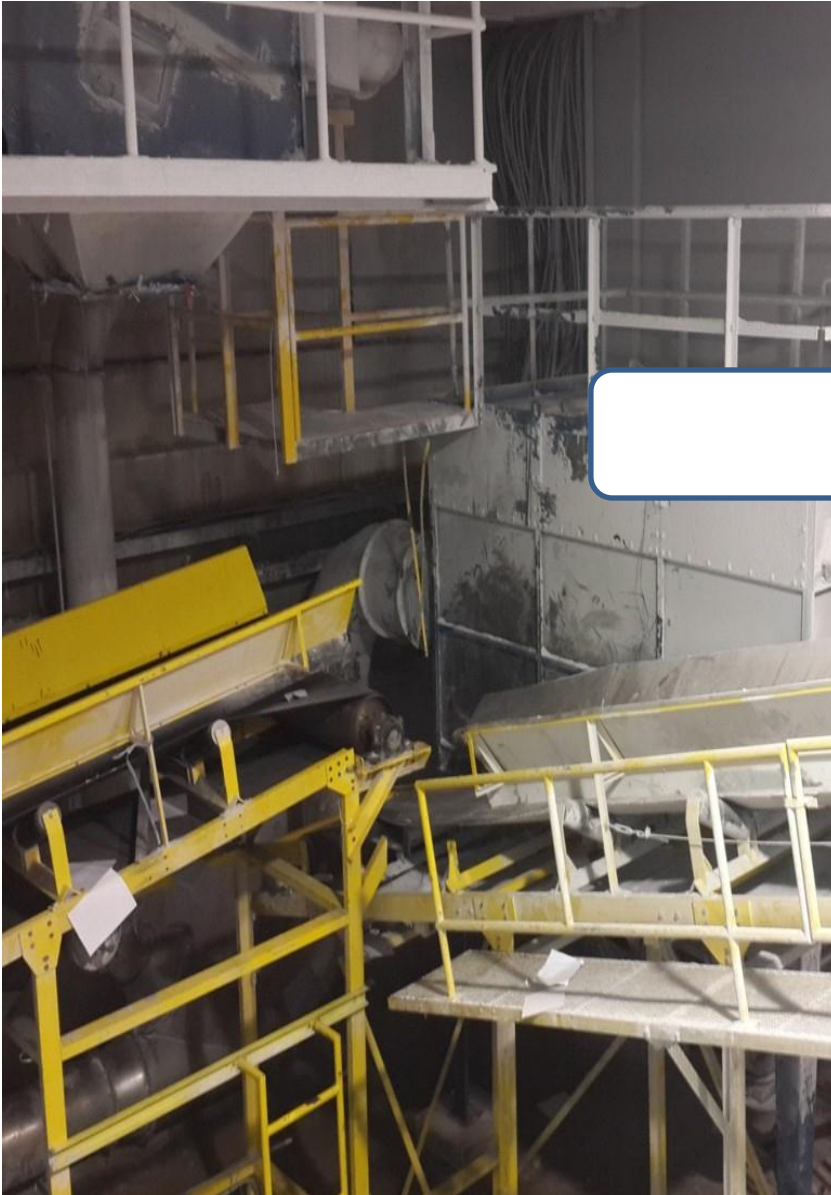






Better World Green
Public Company Limited





DUST COLLECTOR



HONGSA POWER



โครงการออกแบบและก่อสร้างถังไซโลบรรจุมอลต์ ขนาด 600 ตัน จำนวน 5 ใบ

Project: โรงงานผลิตสุรามอลต์ (จ.กำแพงเพชร)

Owner: บริษัท สุรากระทิ้งแดง (1988) จำกัด



ภาพระหว่างการก่อสร้าง ถึง SILO จำนวน 5 ใบ



MALT INTAKE & SILO 600 TON
PROJECT

SKY WALK ON TOP SILO



MALT INTAKE & SILO 600 TON
PROJECT

TRUCK DUMP & INTAKE



MALT INTAKE & SILO 600 TON
PROJECT

DRUM SIVE (FL.6)



MALT INTAKE & SILO 600 TON
PROJECT

AIR COMPRESSOR



MALT INTAKE & SILO 600 TON
PROJECT



DUST COLLERTOR

MALT INTAKE & SILO 600 TON
PROJECT







PREMIUM
Equipment & Engineering



บริการดีหน้าประทับใจ สร้างความมั่นใจให้กับผู้ใช้บริการ
โดยทีมงานเซอร์วิสระดับชำนาญการ

ENVIRONMENT DEPARTMENT

 : <http://www.premium.co.th>
 : info@premium.co.th
 : 02-906-3148
 : 02-919-9300 , 02-919-8900

PROJECT REFERENCE

