

# SIAM KUBOTA Corporation ( Amata City Plant )

## 1. Outline

<b>Address</b>	Amata City Industrial Estate 700/867 Moo 3, T.Nonggaka, A.Panthong, Chonburi 20160, Thailand
<b>Number of employees</b>	1,189
<b>Site area</b>	323,200 m <sup>2</sup>
<b>Establishment day</b>	2 August 2010
<b>ISO14001 certification date</b>	27 September 2012
<b>Site overview</b>	Manufacturing and sales of Tractors, Combines harvesters and Rotary



## 2. Products

### Main products



Combine Harvester



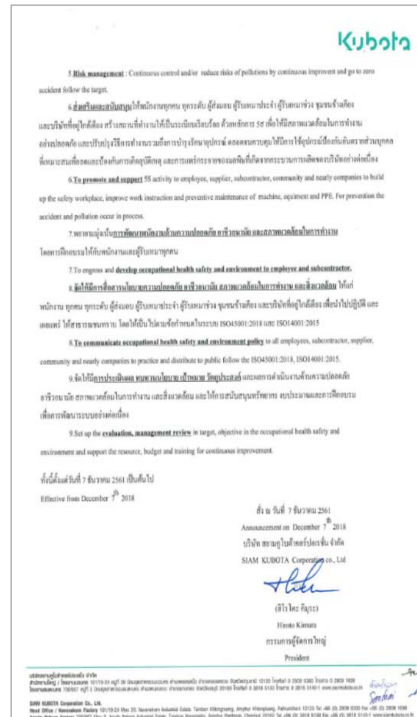
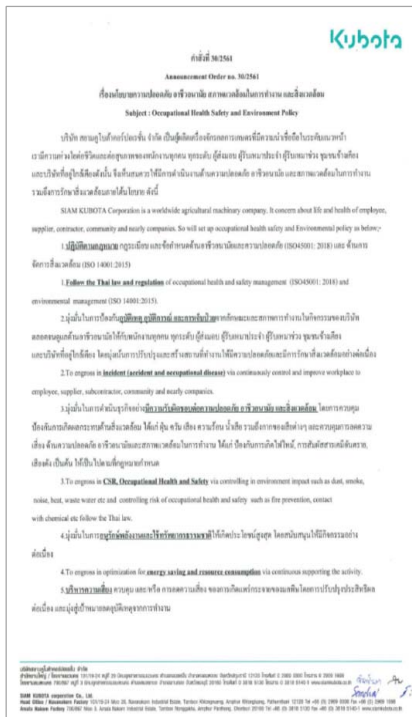
Tractor



Rotary

## 3. Occupational Health Safety and Environment Policy

1. Follow the Thai law and regulation of occupational health safety management (ISO 45001:2018) and Environmental Management (ISO 14001:2015)
2. To engross in incident (accident and disease) via continuously control and improve workplace to employee, supplier, subcontractor, community and nearby companies)
3. To engross in CSR, Occupational Health and Safety via controlling in environment impact such as dust, smoke, noise, heat, wastewater, etc and controlling risks of occupational health and safety such as fire prevention, contact with chemical etc follow the Thai law.
4. To engross in optimization for energy saving and resource consumption via continuous supporting the activity.
5. Risk Management : Continuous control and/or reduce risks of pollutions by continuous improvement and go to zero accident follow the target.
6. To promote and support 5S activity to employee, supplier, subcontractor, community and nearby companies to build up the safety workplace, improve work instruction and preventive maintenance of machine, equipment and PPE. For prevention the accident and pollution occur in process.
7. To engross and develop occupational health safety and environment to employee and subcontractor
8. To communicate occupational health safety and environment policy to all employee, subcontractor, supplier, community and nearby companies to practice and distribute to public follow the ISO45001:2018, ISO14001:2015.
9. Set up the evaluation, management review the target, objective in the occupational health safety and environment and support the resource, budget and training for continuous improvement



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## 4.Environmental performance data (Jan. 2018 to Dec. 2018)

<b>Used amount of energy</b>	Crude oil equivalent KL	4,983
<b>Used amount of water</b>	thousand m <sup>3</sup>	135

<b>CO<sub>2</sub> emission*</b>	tons CO <sub>2</sub> e	10,201
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\*CO<sub>2</sub> emissions from energy sources.

Air Pollutant measurement results				
Main smoke and soot generation facilities		Drying furnaces		
	Unit	Control content	Control value	Maximum measured
SOx	ppm	Concentration control	60	<1.3
NOx	ppm	Concentration control	200	<3.8
Particulate	mg/m <sup>3</sup> N	Concentration control	320	5

<b>Amount of discharge water</b>	thousand m <sup>3</sup>	123	
<b>Amount of pollutant in discharge water</b>	COD	tons	15
	Nitrogen	tons	-
	Phosphorus	tons	-

Water pollutant measurement results				
		unit	Control value	Maximum measured
Public water areas	pH	-	-	-
	BOD	mg/L	-	-
	COD	mg/L	-	-
	Nitrogen	mg/L	-	-
	Phosphorus	mg/L	-	-
	Hexavalent chromium	mg/L	-	-
	Lead	mg/L	-	-
	COD, total emission control	kg/day	-	-
	Nitrogen, total emission control	kg/day	-	-
	Phosphorus, total emission control	kg/day	-	-
Sewerage lines	pH	-	5.5 ~ 9.0	7.3 ~ 7.9
	BOD	mg/L	500	70
	COD	mg/L	750	167
	SS	mg/L	200	69

<b>Waste discharge</b>	tons	746
<b>Recycling ratio</b>	%	100.0%

<b>VOC emission</b>	tons	87
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## 5.Environmental Topics

- Energy Saving**
1. Change LED Steet Light
  2. Change LED High Bay in Factory (Tracor and Combine)
  2. Change LED Fluorescence
  4. Install oven shadow mash at Paint D (new Painting Line)
  5. Install Solar Roof
  6. Set Standard on-off machine at Water Treatment and Wastewater Treatment Plant
  7. Control Air Leak
- Water Reduction**
8. Install pump to supply brine water for gardening
- VOC Reduction and Chemical Control**
9. Reduce Paint Loss at paint C
  10. Improvement chemical Cabinet all SKCA and FGL
- Waste Reduction**
11. Separate Recycle waste from General waste
  12. Treament leak test from machine line in WWT

### Energy Saving Project

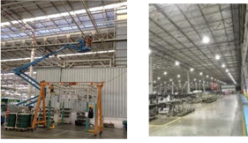
**Change LED Street Light**



**Result**

Energy Saving	32,850	kWh/Y
CO <sub>2</sub> Reduction	17.15	Ton CO <sub>2</sub> /Y

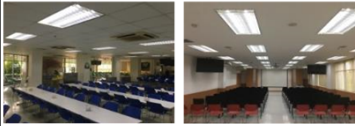
**Change LED High Bay in Factory (Tracor and Combine)**



**Result**

Energy Saving	235,885	kWh/Y
CO <sub>2</sub> Reduction	123.12	Ton CO <sub>2</sub> /Y

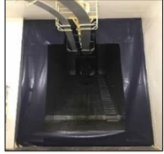
**Change LED Fluorescence**



**Result**

Energy Saving	55,328	kWh/Y
CO <sub>2</sub> Reduction	28.88	Ton CO <sub>2</sub> /Y


**Install heat blocking wall at inlet and outlet of paint oven**



**Result**

Energy Saving (Natural Gas)	895	m <sup>3</sup> /Y
CO <sub>2</sub> Reduction	1.98	Ton CO <sub>2</sub> /Y

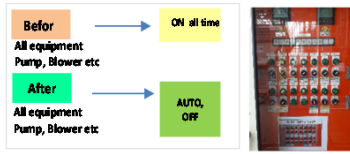
**Solar Roof (535.8 kW)**



**Result**

Energy Saving	697,905	kWh/Y
CO <sub>2</sub> Reduction	364.26	Ton CO <sub>2</sub> /Y


**Set standard on-off machine at WT&WWT**



**Result**

Energy Saving	29,317	kWh/Y
CO <sub>2</sub> Reduction	15.3	Ton CO <sub>2</sub> /Y

**Control air leak**

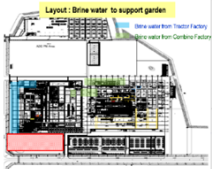


**Result**

Energy Saving	79,534	kWh/Y
CO <sub>2</sub> Reduction	41.51	Ton CO <sub>2</sub> /Y

### Water Saving Project

**Install pump to supply brine water for gardening**




**Result**

Water Saving	3,587	m <sup>3</sup> /Y
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### VOC Reduction and Chemical Control Project

**Reduce Paint Loss at Paint C**



**Result**

VOC reduction	34,208	kg VOC/Y
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**Improvement Chemical cabinet all SKCA and FGL**



**Result**

Expired Chemical Reduction	600	kg/Y
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### Waste Reduction Project


**Separate Recycle waste from General waste**



**Result**

Waste Reduction	44	Ton/Y
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**Treatment leak test from machine line in WWT**



**Result**

Waste Reduction	58	Ton/Y
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# SIAM KUBOTA Corporation ( Amata City Plant )

## 6.Environmental Communication

1. SKC 40 years to make a good to social "Painted School Buildings and Fan Donation"
2. SKC 40 years to make a good to social "Painted School Buildings"
3. SKC 40 years to make a good to social "Make a salt lick for elephants"
4. SKC 40 years to make a good to social "Reforestation"
5. AMATA BEST Waste Management Award
6. SKC 40 years to make a good to social "Make a salt lick for elephants"
7. SKC 40 years to make a good to social "Check Dam and Reforestation"
8. SKC 40 years to make a good to social "Mangrove Forestation"

**SKC 40 years to make a good to social  
"Painted School Buildings and Fan Donation"**



**Organizer** : SH & RX Department  
**Event Name** : SKC 40 years to make a good to social ( Environmental Volunteering )  
**Content** : Painted School Buildings and Fan Donation  
**Place** : Chonburi  
**Date** : 10-Jun-18  
**Participants** : 52 persons

**SKC 40 years to make a good to social  
"Painted School Buildings"**



**Organizer** : Part Logistic Department  
**Event Name** : SKC 40 years to make a good to social ( Environmental Volunteering )  
**Content** : "Painted School Buildings"  
**Place** : Chonburi province  
**Date** : 14-Jul-18  
**Participants** : 43 Person

**SKC 40 years to make a good to social  
"Make a salt lick for elephants"**



**Organizer** : Inspection Department  
**Event Name** : SKC 40 years to make a good to social ( Environmental Volunteering )  
**Content** : Make a salt lick for elephants  
**Place** : Ratchaburi Province  
**Date** : 3-Jun-18  
**Participants** : 35 persons

**SKC 40 years to make a good to social  
"Reforestation"**




**Organizer** : HR  
**Event Name** : SKC 40 years to make a good to social ( Environmental Volunteering )  
**Content** : Reforestation  
**Place** : Nakorn Nayok Province  
**Date** : 5-May-18  
**Participants** : 100 persons

**AMATA BEST Waste Management Award**



**Organizer** : Amata Facility  
**Event Name** : AMATA BEST Waste Management Award  
**Content** : Encourage company to implement efficient waste management by adopting the 3R rule: Reduce, Reuse, Recycle.  
**Place** : Chonburi province  
**Date** : 13-Feb-18  
**Participants** : 87 Company

**SKC 40 years to make a good to social  
"Make a salt lick for elephants"**



**Organizer** : L Tractor Department  
**Event Name** : SKC 40 years to make a good to social ( Environmental Volunteering )  
**Content** : Make a salt lick for elephants  
**Place** : Chachoengsao province  
**Date** : 2-Jun-18  
**Participants** : 27 persons

**SKC 40 years to make a good to social  
"Check Dam and Reforestation"**



**Organizer** : PU Division  
**Event Name** : SKC 40 years to make a good to social ( Environmental Volunteering )  
**Content** : Check Dam and Reforestation  
**Place** : Saraburi Province  
**Date** : 14-Jul-18  
**Participants** : 25 persons

**SKC 40 years to make a good to social  
"Mangrove Forestation"**



**Organizer** : B Tractor and Part Department  
**Event Name** : SKC 40 years to make a good to social ( Environmental Volunteering )  
**Content** : Mangrove Forestation  
**Place** : Chonburi Province  
**Date** : 8-Jul-18  
**Participants** : 25 persons