

SIAM KUBOTA Corporation (Navanakorn)

1. Outline

Address	101/19-24 Moo 20, Khlongnueng, Khlongluang, Pathumthani
Number of employees	1597 (Dec, 2019)
Site area	80,000 m ²
Establishment day*	Aug/2010
ISO14001 certification date	Feb/2003 (recertificated Feb/2020)
Site overview	Diesel Engine, Power Tiller & PEM Manufacturing and sales of tractors, combines harvesters, horizontal diesel engines and power tillers, and sales of construction machinery

*Date of merger between The Siam Kubota Industry Co., Ltd. and Siam Kubota Tractor Co., Ltd.



2. Products

Main products



Diesel Engine



Power Tiller

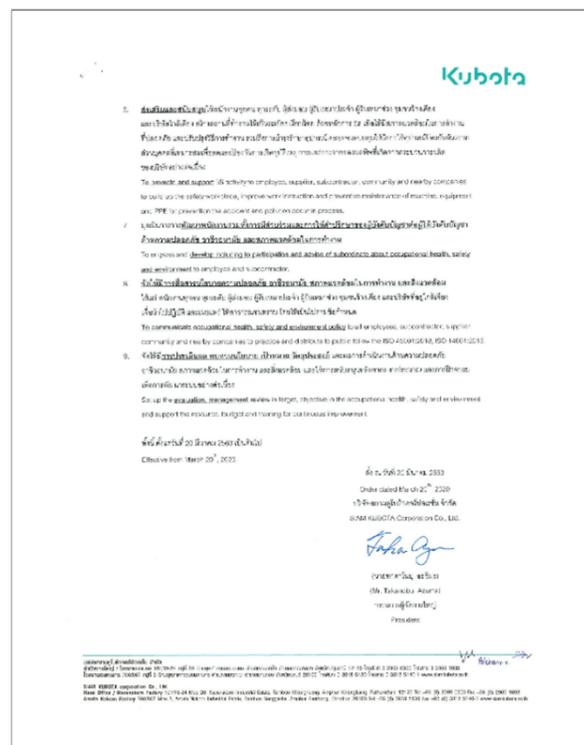
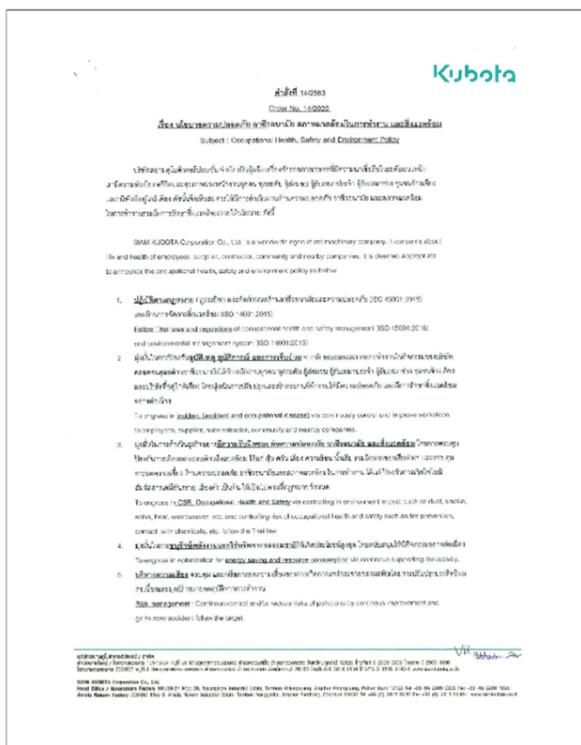


PEM

3. Environmental policy

1. Follow the Thai laws and regulations of occupational health and safety management (ISO 45001:2018) and environmental management system (ISO 14001:2015).
2. To engross in incident (accident and occupational disease) via continuously control and improve workplace toto employees, supplier, contractor, 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 risk of occupational health and safety such as fire prevention, contact with chemicals, etc. follow the Thai law.
4. To engross in optimization for energy saving ane 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, equiment and PPE for prevention the accident and pollution occur in process.
7. To engross and develop including tp participation and advise of subordinate about occupational health, safety and environment to employee and subcontractor.
8. To communicate occupational health, safety and environment policy to all employees, subcontractor, supplier, community and nearby companies to practice and distribute to public follow the ISO 45001:2018, ISO 14001:2015.
9. Set up the evaluation, management review in target, objective in the occupational health, safety and environment and support the resource, budget and training for continuous improvement.

Environmental policy



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4.Environmental performance data (Jan. 2019 to Dec. 2019)

Used amount of energy	Crude oil equivalent KL	1,164
Used amount of water	thousand m ³	16
CO ₂ emission*	tons CO ₂ e	2,208

*CO₂ emissions from energy sources.

Air Pollutant measurement results				
Main smoke and soot generation facilities		QA Test Run		
	Unit	Control content	Control value	Maximum measured
SOx	ppm	Concentration control	475	1.0
NOx	ppm	Concentration control	100	6.0
Particulate	mg/m ³	Concentration control	120	7.57

Amount of discharge water	thousand m ³	13	
Amount of pollutant in discharge water	COD	ton / year	2.3
	Nitrogen	ton / year	0.2
	Phosphorus	ton / year	-

Water pollutant measurement results (Data 2018)				
		unit	Control value	Maximum measured
Public water areas	pH	-	6.0 ~ 9.0	7.9
	BOD	mg/L	20	5
	COD	mg/L	120	40
	Nitrogen	mg/L	100	2
	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	-	6.0 ~ 9.0	6.6
	BOD	mg/L	450	686*
	COD	mg/L	600	1,326*
	SS	mg/L	500	264

Waste discharge	tons	111
Recycling ratio	%	100%
VOC emission	tons	12

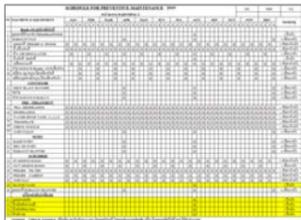
* Note :BOD and COD exceeded the agreed values with the industrial park, but the water was treated below the regulatory standard before discharge.

Immediate corrective action : by (1) Cleaning oil separator immediately (2) Setting check sheet
 (3) Increase the frequency of Preventive Maintenance (PM) (4) Increase efficiency of oil separator 1 unit.

Remark: Wastewater of SKCN from 3 systems 1) Wastewater Treatment System 2) Septic Tanks 3) Oil Separator

1) Wastewater Treatment

Plan



Photo



Work instruction & Check Sheet



2) Septic Tanks

PM Plan (Approval by SHE Manager all times)



Photo



Work instruction & Check Sheet



3) Oil Separator

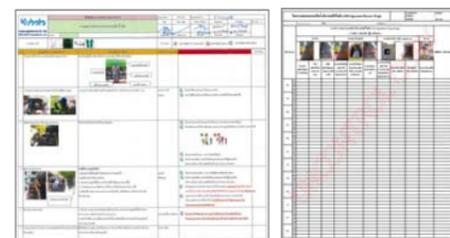
PM Plan (Approval by SHE Manager all times)



Photo



Work instruction & Check Sheet



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5.Environmental Topics

5.1 Energy Consumption Reducing Activity

1) LED Changing at High bay 400 W to 90 W Total 472 Units



Energy saving 460,908 Kwh/year
TON CO2 reducing 240.6 TON

2) Fluorescence Changing from T8 to LED (28 W to 13 W) Total 9,230 units



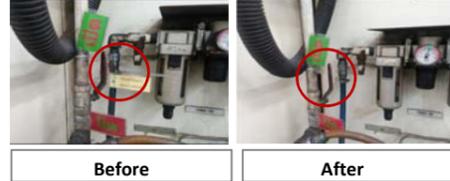
Energy saving 436,117 Kwh/year
TON CO2 reducing 227.6 TON

3) Motor Hydraulic Energy Saving Total 4 units



Energy saving 2,476 Kwh/year
TON CO2 reducing 1.3 TON

4) Air Leak improvement (Target 5% Actual 8.18 %)



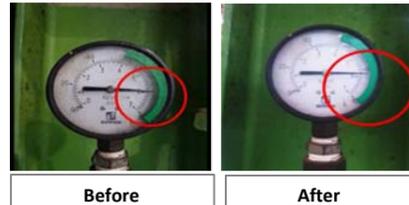
Energy saving 16,575 Kwh/year
TON CO2 reducing 7.8 TON

5) Reduce washing temperature from 50°C to 40°C at Crank Case Line



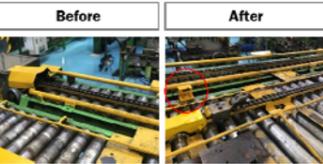
Energy saving 35,195 Kwh/year
TON CO2 reducing 18.4 TON

6) Air Pressure Reducing from 6.0 bar to 5.8 bar (Completed)



Energy saving 19,820 Kwh/year
TON CO2 reducing 9.4 TON

7) Install sensor to detect workpiece at Test run line



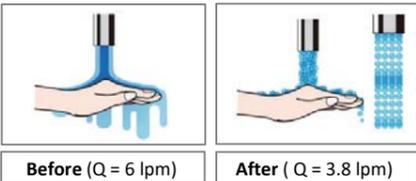
Energy saving 20,269 Kwh/year
TON CO2 reducing 10.6 TON

5.2 Water Consumption Reducing Activity

1) Change Type of Water Tap to Aerator Type



Water saving 1,700 m3/year
Cost Saving 34,000 THB/Year



2) Saving Water Consumption by increase awareness of employee



5.3 Other Activites of Environment



Drying waste water sludge
Reduce waste 1.46 tons/year



Improvement Oil Separator No.4 of SKCN
Improve oil separator to control oil & grease parameter not exceed standard



Install Chemical spill cabinet

Install 13 units

6.Environmental Communication

Promote to Reduce plastic bag and plastic glass 1st



Content : Training to reduce plastic bag and plastic glass
Place: Pathumthani (Khun Ying Som Chin Temple)
Participants: 79 persons

Promote to Reduce plastic bag and plastic glass 2nd



Content : Training to reduce plastic bag and plastic glass
Place: Pathumthani (Phuet Nimit Temple)
Participants: 156 persons

Plant Tree and Floral



Content : Plant tree and floral
Place: KMAX (Pathumthani)
Participants: 30 persons

KUBOTA Volunteer to Soil Conservation



Content : Make organic fertilizer
Place: Pathumthani
Participants: 154 persons