Data on KUBOTA Group Overseas Production Sites 2020 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*	stablishment 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 sale construction machinery		



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

2.Products



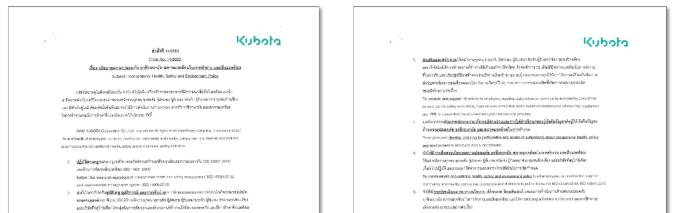
3 .Environmental policy

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



ຜູ້ເພັ່ງໃນການກຳເວີນຮູກີການກາ<mark>ນີ້ການເວັນນີ້ການການກ່ານການການການເປັນເປັນໃນແຜນໄດ້ ແພວເຊັ່ນແວກັນ</mark> ໃນພາກການສູນ ມີສະກັບການໃຫຍ່ແຫ່ນຮະເພັກເພີ້ແຮວອົມເປັນຕໍ່ ຊົບກວັນ ທີ່ສະຫານສ້ານແນ້້າເຮັນ ແລ້ວການອາຍະນັກການການສື່ນກິກການສະຫາຊາມ ระดงวามเรื่อง วิทมงวามประกภัย อารีวรหาเมียนกะสวกหลวยก็รมไปมาหว่างาน ได้แก้ได้งกับกามให้ไหม้ สมนักสารเหลีย์ประกะ เรื่องคำ เป็นกัน ให้เป็นไปพระที่กฎหมายกำระเด

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ษ์หนี้ ตั้งเสร้าสี่ 20 มีนาคม 2563 เป็นสันไป Effective from March 20², 2023 ตั้ง ณ.วันที่ 21 มีนาคม 2553 Order claired March 20¹⁰, 2020 17ศักราชการอยู่ในป่างคริปตอส์ม จำกัด SIAM KUBCTA Corporation Co., Ltd Faha az (นายทาสาใน, อะชิมะเ (Mr. Takanobu Azuma : ກາວທາວຜູ້ຈັດການໂຮະ) Bicrams unicenses (demonitande sente alternation) (consense en laterna rejé de langer menu man dinamanan in constanten instanten (constante de sent laternation) (conseil rejé à l'auger reconsense d'accourse d'accourse (consent della finite) à della finite della finite de sentembre sont SAN UNREX expendencing, IM Hann Dierz Nammener hanny Vortreich bez 20 Kanarzon inkubil Gaza, Terbon Okrymang, Anglen Könzglung, Fatureten 1916 No.-46 (b) 1000 (200 No.-46 (p) 2000 1000 Andre Kölung Registry (1906 Mars), Andre Materia Ferle, Darten Sangela, Jupite Faturet, Darten 2010 No.-45 (b) 2000 (200 No.-46 (p) 2000 1000) Andre Kölung Registry (1906 Mars), Andre Materia Ferle, Darten Sangela, Jupite Faturet, Darten 2010 No.-45 (b) 2000 (200 No.-46 (p) 2000 1000) Andre Kölung Registry (1906 Mars), Andre Kalen Materia Ferle, Darten Sangela, Jupite Faturet, Darten 2010 No.-45 (b) 2000 (200 No.-46 (p) 2000 (200

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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				
*CO ₂ emissions from energy sources.				
Air Pollutant measurement results				

UnitControl contentControl valueMaximum mSOxppmConcentration control4751.0NOxppmConcentration control1006.0Particulatemg/m³Concentration control1207.57	1	Main smoke and soot generation facilities		QA Test Run		
SOx ppm control 475 1.0 NOx ppm Concentration control 100 6.0 Particulate mg/m ³ Concentration 120 7.57		Unit	Control content	Control value	Maximum measured	
NOx ppm Concentration control 100 6.0 Particulate mg/m ³ Concentration 120 7.57	SOx	nnm	Concentration	475	1.0	
NOx ppm 100 6.0 Particulate mg/m ³ Concentration 120 7.57	00%	pp://	control	110	1.0	
Particulate mg/m ³ Concentration 120 7.57		nnm	Concentration	100	6.0	
Particulate mg/m ³ 120 7.57	NOX	ppin	control	100	0.0	
control 120 7.57	Deuties late	ma/m^3	Concentration	100	7 57	
	Particulate	mg/m	control	120	1.51	

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

Water pollutant r	measurement results (Data	2018)			
			unit	Control value	Maximum measured
	рН		-	6.0 ~ 9.0	7.9
	BOD		mg/L	20	5
	COD		mg/L	120	40
	Nitrogen		mg/L	100	2
Public water	Phosphorus		mg/L	-	-
areas	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	-	-
	рН		-	6.0~9.0	6.6
Souverage lines	BOD		mg/L	450	686*
Sewerage lines	COD		mg/L	600	1,326*
SS		mg/L	500	264	
Wa	iste discharge	tons	1	11	1
	Recycling ratio %			0%]
V	OC emission	tons	1	2	1

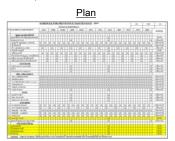
* Note :BOD and COD exceeded the agreed values with the industrial park, but the water was treated below the regulatory standard before discharge.

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



<u>Photo</u>



Work instruction & Check Sheet



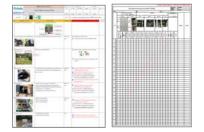
2) Septic Tanks PM Plan (Approval by SHE Manager all times)



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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			The second statistic data					

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5.Environmental Topics

- 5.1 Energy Consumption Reducting Activity
- 1) LED Changing at High bay 400 W to 90 W Total 472 Units



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

2,476 Kwh/year

1.3 TON

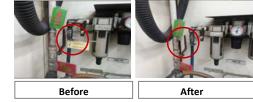
2) Fluorescense Changing from T8 to LED (28 W to 13 W) Total 9,230 units



Energy saving 436,117 Kwh/year

TON CO2 reducing 227.6 TON

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



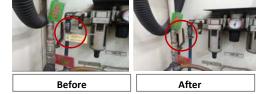
16,575 Kwh/year Energy saving

Energy saving

3) Motor Hydraulic Energy Saving Total 4 units



Energy saving TON CO2 reducing



TON CO2 reducing

7.8 TON

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



Energy saving TON CO2 reducing

18.4 TON

35,195 Kwh/year

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

Before

TON CO2 reducing

19,820 Kwh/year 9.4 TON

7) Install sensor to detect workpiece at Test run line



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

5.2 Water Consumption Reducting Activity

1) Change Type of Water Tap to Aerator Type



Water saving Cost Saving



2) Saving Water Comsumption by increase awareness of employee

After



5.3 Other Activites of Environment



Before (Q = 6 lpm)

Drying waste water sludge

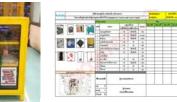
Reduce waste 1.46 tons/year

After (Q = 3.8 lpm)



Impovement Oil Separator No.4 of SKCN

Impove 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



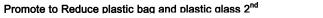
Content :	Training to reduce plastic bag and plastic glass
Place:	Pathumthani (Khun Ying Som Chin Temple)
Paticipaints:	79 persons

Plant Tree and Floral





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





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

KUBOTA Volunteer to Soil Conservation



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