



**BANGKOK CaO CO.,LTD**

**QuickLime**

**[www.bkkcao.com](http://www.bkkcao.com)**

# **BANGKOK CaO Co.,LTD.**

**Established in 1995**

**Operating a business producing Calcium Oxide  
lime or Quick Lime.**

**For more than 29 years, there are currently 2  
lime production plants.**

**Production capacity 450 tons of lime/day**

- Factory 1, production capacity 300 tons of lime/day**
- Factory 2, production capacity 150 tons of lime/day**

# **BANGKOK CaO Co.,LTD.**

- **In 1996, Kiln #1 production began at Factory 1, production capacity 150 tons of lime/day.**
- **In 2009, Kiln #2 production began at Factory 2 with a total production capacity of 300 tons of lime/day.**
- **In 2022, Kiln #3 production began at Factory 1, with a total production capacity of 450 tons of lime/day.**

# Factory 1

34/1 Moo 4 Tharue-Phaphuttabat Rd. Tambol Phukrang Amphur Phaphuttabat Saraburi 18120





# Factory 2

24/2 Moo 11 Tambo Huipawai Amphur Phaphuttbat Saraburi 18120



## Solar Cell 550 KW



- **Factory 1**



- **Factory 2**



## **Only one company that using fuel oil as fuel**



• **Factory 1**



• **Factory 2**

# Production Process

## Raw Material

**Limestone ( $\text{CaCO}_3$ ) 2"- 4" Inches**



**Materials Control**



# Production Process

## Check Limestone Quality at Mining

1 time / week



Materials Control

# Production Process

## Process of Limestone



**Mining**



**Crushing & Operation**



**Logistics**

**Materials Control**



# Production Process

## Inspect at Stone mill

2 times / week





# Production Process

## Inspect at plant



- **Quality Department inspect before pouring Limestone 2 times/day**



- **Limestone stock about 100,000 tons**

# Production Process

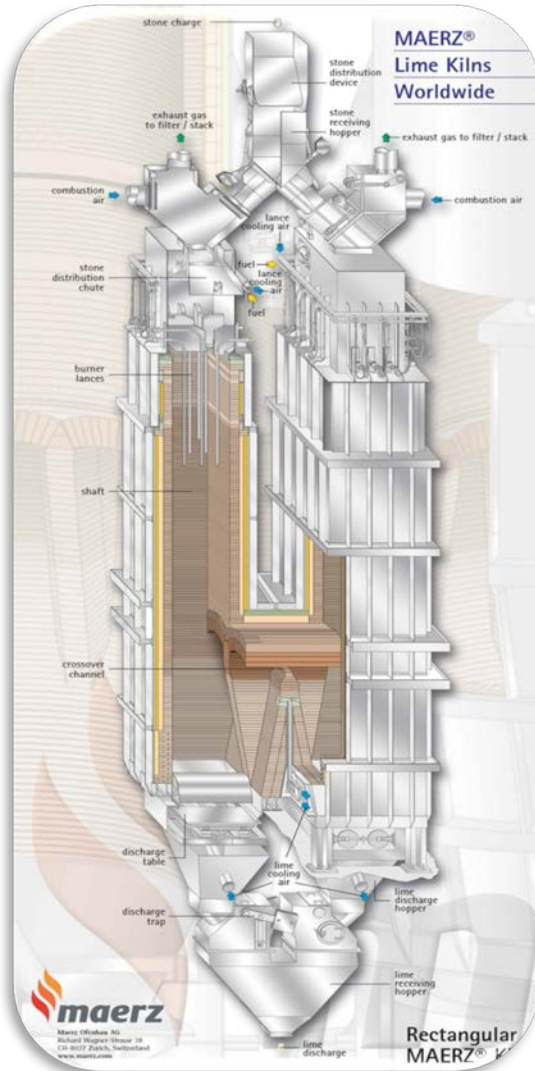
## Screen Limestone before in Process





# Production Process

## “MAERZ Lime Kilns”

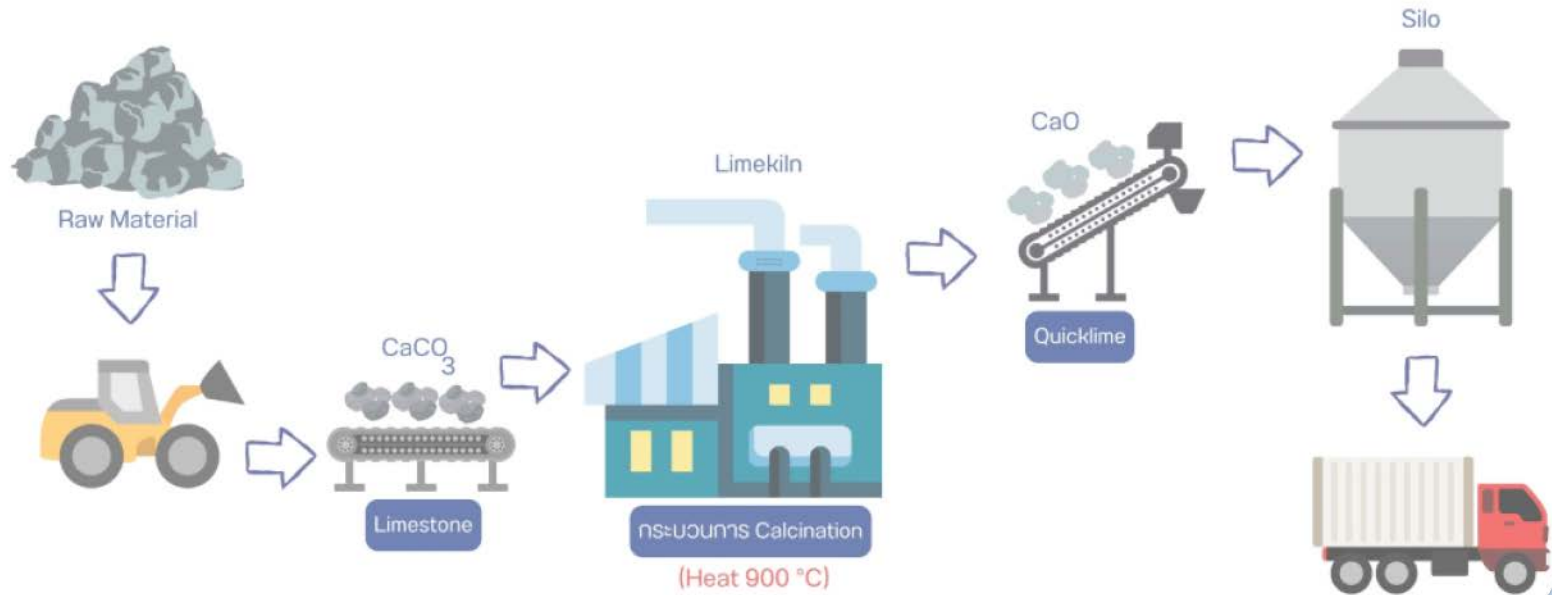




# Production Process

## Main Process Of Quicklime

### Process of Quicklime



**Capacity of Lime Kilns 164,000 Tons/year**

# Production Process



- **Staff screen quality products before storage in Silo**



- **Install Magnetic screen to detect metal before storage in Silo**

# Production Process

## Storage in Silo

- **Factory 1 : 9 Silo**



**4,500 Tons**

- **Factory 2 : 2 Silo**



**2,000 Tons**

**Quality Control**



# Production Process

## Quality Control of Quicklime CaO



Quality Control

# ปูนขาวหรือแคลเซียมออกไซด์ (Calcium Oxide)

CHEMICAL PROPERTIES	UNIT	ปูนก้อน	ปูนก้อน	ปูนเกล็ด		ปูนผง	
		LUMP LIME 2" - 4"	LUMP LIME 1"	AGGREGATE 0 - 5 มม.		GRINDING LIME	
		Normal gade	Normal gade	Normal gade	Premium gade	Normal gade	Premium gade
Calcium Oxide (CaO)	%	90 - 93	90 - 93	90 - 93	> 94.0	90 - 93	> 95.0
Magnesium Oxide (MgO)	% (max)	1.5	1.5	1.5	1	1.5	1
Carbon Dioxide (CO <sub>2</sub> )	% (max)	2.5	2.5	2.5	1.5	2.5	1.5
Silicon Dioxide (SiO <sub>2</sub> )	% (max)	1	1	1	1	1	1
Aluminium Oxide (Al <sub>2</sub> O <sub>3</sub> )	% (max)	0.4	0.4	0.4	0.4	0.4	0.4
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )	% (max)	0.1	0.1	0.1	0.1	0.1	0.1
Sulfur (S)	% (max)	0.1	0.1	0.1	0.1	0.1	0.1
Acid Insoluble	% (max)	2	2	2	2	2	2
Loss On Ignition	% (max)	4	4	4	2	4	1.5
Reactivity, T60	Minutes	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4
Water Insoluble Content	% (max)	5	5	5	5	5	5
Bulk Density	g/ml	1.25 - 1.30	0.80 - 1.25	0.80 - 1.20	0.80 - 1.20	0.80 - 1.20	0.80 - 1.20
pH		12	12	12	12	12	12
Particle Size		0 - 100 mm.	0 - 35 mm.	0 - 5 mm.	0 - 5 mm.	100 - 200 Mesh	100 - 200 Mesh
Shelf Life	days	60	60	60	60	60	60

## Product Size



- **Lump Lime Size 0 – 100 mm.**



- **Lump Lime Size 0 – 25 mm.**

## Logistics





## Product Size



- **Aggregate Size 0 – 5 mm.**



- **Grinding Quick Lime  
100 Mesh – 325 Mesh**

## Logistics



# Certification / Verification

**ISO 9001:2015**

**THAILAND INSTITUTE OF SCIENTIFIC AND  
TECHNOLOGICAL RESEARCH (TISTR)**



**HALAL**

**THE CENTRAL ISLAMIC COUNCIL  
OF THAILAND**



**Green industry**



# Application

## Industrial fields

- Iron & Steel Industry
- Pulp & Paper Industry
- Chemicals Industry
- Construction Industry
- Non-Ferrous Industry
- Plastic & Rubber Industry

## Agricultural fields

- Sugar
- Aquatic

## Environment fields

- Waste Water Treatment





## Marketing



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