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Inquiry data sheet 1/5

All points marked with * are required

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General country information

Are private companies allowed to create their own electricity in your country?*	☐ yes ☐ no
Do official subsidies exist in your country?	☐ yes ☐ no
Is an Emission Trading System implemented in your country?	☐ yes ☐ no

Cement Company Details

Country Name* _____

Company Name* _____

Factory (Plant) Name* _____

Address* _____

Altitude of the Plant* ___ meters

Contact person Name* _____

E-Mail* _____

Tel/Fax* _____

Operation Data

Production* ton/y _____

Production (Future Plan) ton/y _____

Raw Material (Limestone) Consumption ton/y _____

Moisture Content (Average)* ___ %

Fuel Consumption cal/ton-cl _____

Fuel (Coal and/or Oil) ton/y _____

Moisture Content (Average)* ___ %

Power Consumption Electricity kWh/ton-cement _____
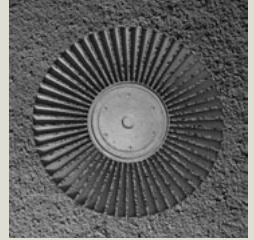
Unit Price of Energy Electricity* Euro/kWh _____

Fuel (Coal and/or Oil) Euro/ton-coal/oil _____

Connection to grid* ☐ yes ☐ no

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Site Condition

**Ambient Temperature
(Max./Ave./Min.)*** — °C Max. | Ave. | Min.

**Relative Humidity
(Max./Ave./Min.)*** — % Max. | Ave. | Min.

**Wet bulb temperature
(Ave.)** — °C

Make-up water availability* — t/h

Roughly 80t/h is required for 5,000t/d kiln in case of cooling tower system.
If owner could not perpare enough make-up water, air cooled condenser is adopted.

☐ Cooling tower system   ☐ AirCooled Condenser

Electrical Condition

Electrical power source	Rated voltage	AC MV VOLTAGE *Above35KV*	AC LV VOLTAGE *Above1KV-35KV or less*
Nominal system voltage (*1)*		KV	KV
Rated frequency*	Hz		

*1 IEC 60034 shall be applied for frequency fluctuation

**Existing cement plant
(factory)** — Total electric power consumption — Wz | KW

Please attach the existing single line and impedance map.

Location — Please attach the existing cement plant arrangement drawing marked with the location of below building.

☐ New TG building   ☐ Electrical room for WHRP house power supply

☐ Exisiting electrical room   ☐ Existing operation room

Cement Plant

	No.	1	2	3
Kiln No.				
Year of Construction	Year			
Name of Plant Manufacturer				
Clinker Production Capacity*	Ton / Day			
Number of Pre-Heater Stage				
Operating Condition*	Days / Year			

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PH Boiler Design Particulars *Part 1*

Number of string*			
PH Gas Flow/total string*	Nm³/h ~	~	~
(Just after Pre-Heater)*	Average		
PH Gas Flow / A string*	Nm³/h ~	~	~
PH Gas Flow / B string*	Nm³/h ~	~	~
PH Gas Pressure* (Just after Pre-Heater)	mH₂OG		
PH Gas Temperature*	°C ~	~	~
(Just after Pre-Heater)*	Average		
PH Gas temp. / A string*	°C ~	~	~
PH Gas temp. / B string*	°C ~	~	~

PH Gas Composition
(Just after Pre-Heater)

N₂	Vol %	CO	Vol %
O₂	Vol %	SO₂	ppm
H₂O	Vol %	Cl	ppm*
CO₂	Vol %		

If alternative fuel is used, there should be some Cl in the gas.

Dust Content*
(Just after Pre-Heater)   g / Nm³

Gas for raw material drying from	PH or GCT or IDF	PH or GCT or IDF	PH or GCT or IDF
Min. gas for raw material drying	Nm³/h or Am³/h		
Min. gas for raw material drying	°C		

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Waste Heat Recovery

Inquiry data sheet **4/5**
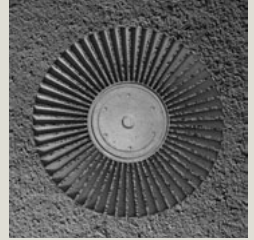
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All points marked with * are required

PH Boiler Design Particulars *Part 2*

Gas for Fuel drying from	PH or AQC	PH or AQC	PH or AQC
Gas for Fuel drying	Nm³/h or Am³/h		
Gas for Fuel drying	°C		
Gas for _____ drying	Nm³/h or Am³/h		
Gas for _____ drying	°C		

Alkali Bypass Line

If owner considers to use waste heat gas of Alkali Bypass. Please add the information.

Gas Flow*	Nm³/h or Am³/h ~	~	~
(Just after Pre Heater)*	Average		

Pressure (Just after Pre Heater)	mmH₂OG	

Gas Temperature*	°C ~	~	~
	Average		

Gas Composition

N$_2$	Vol %	CO	Vol %
O$_2$	Vol %	SO$_2$	ppm
H$_2$O	Vol %	Cl	ppm*
CO$_2$	Vol %		

Dust Content*	g / Nm³	

Allowable min. gas temp. after boiler*	°C	
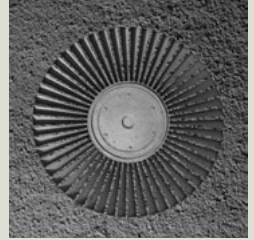
AQC (Clinker Cooler) Boiler Design Particulars

AQC Gas Flow*   Nm³/h   ~   ~   ~

(tail gas from AQC)*   Average

AQC Gas Pressure
(tail gas from AQC)   mmH₂OG

AQC Gas Temperature*   °C   ~   ~   ~

                                                           Average

**Allowable minimum gas
temp. after AQC boiler
(in front of EP)***   °C

Dust Content*   g/Nm³

Drawings

Please send the following drawings.

○ **Single line diagram**

○ **Plant Layout**

○ **Flow diagram of cement plant**

For Evalutation About Your Data

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Mail back to **cement@siemens.com** or fax **+49 (0) 9131-728 100** or send to

Siemens AG
Industry Solutions Cement
Werner-v.-Siemens-Str. 65
91052 Erlangen
Germany

**Send the
document**