



L.V INTERNATIONAL CO., LTD.

QUESTIONNAIRE

FOR

ROLLER PRESS / BALL MILL GRINDING

(RAW / COAL / CEMENT MILL)

Date	:	
Customer Name	:	
Address	:	
Contact Person	:	

L.V International Company Limited

No.9/148 14th Floor UM Tower, Ramkhamhaeng Road, Suanluang, Suanluang, Bangkok 10250. THAILAND.

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No.	Question	Unit	Answer
	<p><u>PLANT SITE AND KILN</u></p> <p>+ Altitude, meter above sea level + Kiln capacity average + No. of stage of SP + Kiln exhaust gas temperature + Type of cooler + Operation days per year</p>	<p>m t/d - °C - d/y</p>	
1	<p><u>TYPE OF MILL</u></p> <p>+ Maker Name + Mill Dimensions + No. of compartments + Drying chamber + Roller press</p>	<p>mm - yes / no yes / no</p>	
2	<p><u>YEAR OF INSTALLATION</u></p>		
3.	<p><u>CAPACITY IN TPH</u></p> <p>+ Raw / Cement / Slag / Others (If cement infirm cement type and component) + Present production and fineness + Guarantee production and fineness by main supplier</p>	<p>t/h (Dry) μR % Blaine t/h (Dry) μR % Blaine</p>	
4	<p><u>MILL MOTOR DETAILS</u></p> <p>+ Mill Speed + No. of Chambers + Drying Chamber + Liner Thickness + Grinding Media * No. 1 Compartment * No. 2 Compartment + Grinding Media Quantity * No. 1 Compartment * No. 2 Compartment</p>	<p>RPM yes or no mm ∅ mm ∅ mm ton ton</p>	
5	<p><u>MILL MOTOR AND GEAR REDUCER DETAILS</u></p> <p>+ Mill motor power installed (Nameplate) + Actual Power Consumption + Mill Driving Type + Type of gear reducer</p>	<p>kW kW kW</p>	

6	<u>BUCKET ELEVATOR FEEDING TO SEPARATOR</u> + Type + Operating (tph) + Design (tph) + Driving motor (installed)	t/h t/h kW		
7	ROLLER PRESS / PREGRINDER + Maker + Size + Present capacity + Roller Diameter + Roller Width + Roller Speed + Feed Rate + Hydraulic Pressure + Motor Power installed (Nameplate) + Power consumption + External circulation system	t/h mm mm RPM t/h Bar kW kWh/t yes / no		
8	<u>CIRCULATING AIR FAN-1</u> + Gas / Air Flow Rate + Pressure + Temp. of Gas handled at inlet + Speed + Speed Range	m ³ /hr mbar °C RPM RPM	Design	Operating
9.	<u>MOTOR FOR ABOVE</u> + Maker + Frame Size + Installed Power + Actual Power Consumption	kW kW		
10	<u>CIRCULATING AIR FAN-2</u> + Gas / Air Flow Rate + Pressure + Temp. of Gas handled at Inlet + Speed + Speed Range	m ³ /hr mbar °C RPM RPM	Design	Operating

No.	Question	Unit	Answer	
11	<u>MOTOR FOR ABOVE</u> + Maker + Frame Size + Installed Power + Actual Power Consumption	kW kW		
12	<u>MILL VENTILATION FAN</u> + Gas / Air Flow Rate + Pressure + Temp. of Gas handled at Inlet + Speed + Speed Range	m ³ /hr mbar °C RPM RPM	Design	Operating
13	<u>MOTOR FOR ABOVE</u> + Maker + Frame Size + Installed Power + Actual Power Consumption	kW kW		
14	<u>SEPARATOR VENT FAN-1</u> + Gas / Air Flow Rate + Pressure + Temp. of Gas handled at Inlet + Speed + Speed Range	m ³ /hr mbar °C RPM RPM	Design	Operating
15	<u>MOTOR FOR ABOVE</u> + Maker + Frame Size + Installed Power + Actual Power Consumption	kW kW	Design	Operating

16	<u>SEPARATOR VENT FAN-2</u> + Gas / Air Flow Rate + Pressure + Temp. of Gas handle at Inlet + Speed + Speed Range		Design	Operating
		m ³ /hr mbar °C RPM RPM		
No.	Question	Unit	Answer	
17	<u>MOTOR FOR ABOVE</u> + Maker + Frame Size + Installed Power + Actual Power Consumption	kW kW		
18	<u>FEED DETAILS</u> + Size of Feed + Moisture in Feed (Max. & Min.) + Feed Consumption <ul style="list-style-type: none"> • Low Grade Limestone • High Grade Limestone • Additive – 1 • Additive – 2 + Material Grindability factor (Bond / Index / HG / kWh/t)	mm % % %		
19	<u>OPERATING DATA</u> + Mill capacity and fineness + Mill Inlet Pressure + Mill Outlet Pressure + Mill Outlet Volume + Separator Exit Volume + ΔP Across Separator + Amount of grinding media <ul style="list-style-type: none"> I. compartment II. compartment + Mill motor consumption + Mill circulation + Roller press circulation	t/h, R %, Blaine mBar mBar m ³ /hr m ³ /hr mBar t x size mm t x size mm kW t/h t/h		

20	<u>SPECIFIC POWER CONSUMPTION</u> + Roller Press + Mill Drive + Circulating Air Fan + Mill Vent Fan + Separator + Aux + Total	kWh/t kWh/t kWh/t kWh/t kWh/t kWh/t kWh/t		
No.	Question	Unit	Answer	
21	<u>CLASSIFIER DETAILS</u> + Type + Size + Speed Range + Classifier Operating + Exit Gas / Air Volume	RPM RPM m ³ /hr	No. 1	No. 2
22	<u>MOTOR FOR ABOVE</u> + Maker + Frame Size + Installed Power + RPM Range + Actual Power Consumption	kW RPM kW		
23	<u>CLASSIFIER GEARBOX DETAILS</u> + Maker + Size + Ratio + Type + Safety factor	kW		
24	<u>SPECIFIC GRINDING MEDIA CONSUMPTION</u> + I Compartment + II Compartment			
25	<u>LIMITATIONS TO ENHANCE MILL PRODUCTION</u>			

26	<u>ELECTRIC AND CONTROL</u> + Cycle + High Tension + Low Tension	Hz Voltage for more than kW Voltage for less than kW					
No.	Question	Unit	Answer				
27	<u>PREFERRED BENEFIT</u> (give priority from 1 to 4, 1 is highest priority) Production increase : Residue improvement : Power saving : Less vibration:						
28	<u>PARTICLE SIZE DISTRIBUTION</u>						
	PARTICLE SIZE (Micron)	SEPARATOR - 1		SEPARATOR - 2			
		Feed	Product	Rejects	Feed	Product	Rejects

DRAWINGS REQUIRED

- + **EQUIPMENT FLOW SHEET**
- + **PROCESS FLOW SHEET**
- + **MILL DEPT. GENERAL ARRANGEMENT DRAWINGS**
- + **MILL GA DRAWINGS**
- + **CLASSIFIER DETAIL DRAWINGS**
- + **SPECIFICATION FOR ALL EQUIPMENT**
- + **FAN CHARACTERISTIC CURVES**