



L.V INTERNATIONAL CO., LTD

QUESTIONNAIRE

FOR

VERTICAL CEMENT MILL

Date	:	
Customer Name	:	
Address	:	
Contact Person	:	

L.V International Co., Ltd.

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

No.	Question	Unit	Answer
	<p><u>PLANT SITE AND KILN</u></p> <p>+ Altitude, meter above sea level + Kiln capacity average + Type of cooler + Kiln operation days per year</p>	<p>M t/d - d/y</p>	
1	<p><u>TYPE OF MILL</u></p> <p>+ Name of original mill supplier + Mill size + Mill table diameter + No. of rollers + Roller diameter x width + Mill external circulation system + Dam Ring Height</p>	<p>m - mm yes/no mm</p>	
2	<p><u>YEAR OF INSTALLATION</u></p>		
3.	<p><u>CAPACITY IN TPH</u></p> <p>+ Type of cement product Kind of material</p> <p>+ Present production</p> <p>+ Production guaranteed by supplier and fineness</p> <p>+ Average production (last 12 months) and fineness</p> <p>+ Max production (last 12 months) and fineness (after exchanging rollers to new one)</p> <p>+ Min. production (last 12 months) and fineness (before exchanging worn-out rollers to new one)</p>	<p>t/h (Dry) Blaine 45 μ %</p> <p>t/h (Dry) Blaine 45 μ %</p> <p>t/h (Dry) Blaine 45 μ %</p> <p>t/h (Dry) Blaine 45 μ %</p> <p>t/h (Dry) Blaine 45 μ %</p>	

No.	Question	Unit	Answer
4	<p><u>MILL MOTOR DETAILS</u></p> <p>+ Mill motor power installed (name plate)</p> <p>+ Actual mill motor power consumption (avg)</p>	<p>kW</p> <p>kW</p>	
5	<p><u>CIRCULATING AIR FAN DETAILS</u></p> <p>+ Fan motor power installed (name plate)</p> <p>+ Fan airflow design</p> <p>+ Fan pressure design</p> <p>+ Actual fan motor power consumption</p> <p>+ Actual air flow at fan inlet</p> <p>+ Actual pressure at fan inlet</p> <p>+ Fan speed variable</p> <p>+ Speed Range</p> <p>+ Recirculation air flow</p>	<p>kW</p> <p>Am³/h</p> <p>mbar</p> <p>kW</p> <p>Am³/h</p> <p>mbar</p> <p>yes/no</p> <p>RPM</p> <p>Am³/h</p>	
6	<p><u>FEED DETAILS</u></p> <p>+ Size of Feed</p> <p>+ Feed size distribution</p>	<p>mm</p> <p>% & mm</p>	

No.	Question	Unit	Answer
7	<p><u>OPERATION DATA</u></p> <ul style="list-style-type: none"> + Mill operation hours / day average + Mill Inlet Pressure + Mill Inlet air temp. + Mill Outlet Pressure + Mill Outlet air temp. + DP across mill (pressure outlet-inlet) + Actual air flow (mill outlet) + Residue 45 micron Mesh + Blaine + Average power consumption for mill for IDF for total (mill + IDF) for separator + Average operation hours per day + Average working hours for roller segments and table liner (for exchange) + Wear rate of table segment + Wear rate of roller segment + Area of nozzle ring + Grinding aid Type of grinding aid Feed quantity Feeding point + Water spray Feed quantity Feeding point 	<ul style="list-style-type: none"> h/d mbar °C mbar °C mbar Am³/h % cm²/g kWh/t h/d H g/t g/t m² g/t-cement t/t-cement 	
8	<p><u>GRINDING PRESSURE</u></p> <ul style="list-style-type: none"> + Mill operation grinding pressure + Mill max allowed grinding pressure 	<ul style="list-style-type: none"> bar bar 	

No.	Question	Unit	Answer
9.	<u>CLASSIFIER DETAILS</u> + Type + Installed motor power (name plate) + Speed Range	kW RPM	
10	<u>CLASSIFIER GEARBOX DETAILS</u> + Maker + Size + Gear Ratio + Type + Safety factor	kW	
11	<u>TYPE OF DEDUSTING EQUIPMENT</u> + Cyclones before BF + Bag Filter (filter bags area) + E.P.	yes/no m ² yes/no	
12	<u>PREFERRED BENEFIT</u> (give priority from 1 to 5, 1 is highest priority) Production increase : Residue improvement : Power saving : Blaine improvement : Less vibration:		
13	<u>ELECTRICITY AND CONTROL</u> + Cycle + High Tension + Low Tension	Hz Voltage for more than kW Voltage for less than kW	

No.	Question	Unit	Answer
14	<u>ANY ADDITIONAL INFORMATION</u> <u>AND SPECIAL REQUIREMENTS</u>		

DRAWINGS REQUIRED

- + **PROCESS FLOW SHEET**
- + **MILL GENERAL DRAWINGS**
- + **CLASSIFIER DRAWINGS**
- + **FAN CHARACTERISTIC CURVES**