



# **L.V INTERNATIONAL CO., LTD.**

## **QUESTIONNAIRE FOR VERTICAL RAW MILLS**

Date	:	
Customer Name	:	
Address	:	
Contact Person	:	

**L.V International Company Limited**

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No.	Question	Unit	Answer
	<p><b><u>PLANT SITE AND KILN</u></b></p> <ul style="list-style-type: none"> <li>+ Altitude, meter above sea level</li> <li>+ Kiln capacity aver.</li> <li>+ No. of stage of SP</li> <li>+ Kiln exhaust gas temperature</li> <li>+ Type of cooler</li> <li>+ Operation days per year</li> </ul>	<p>m t/d - °C - d/y</p>	
1	<p><b><u>TYPE OF MILL</u></b></p> <ul style="list-style-type: none"> <li>+ Name of original mill supplier</li> <li>+ Mill size</li> <li>+ Mill table diameter</li> <li>+ No. of rollers</li> <li>+ Roller diameter x width</li> <li>+ Mill external circulation system</li> <li>+ Dam Ring Height</li> <li>+ Outer diameter of mill table</li> <li>+ Inside diameter of mill casing</li> <li>+ Nozzle ring opening area</li> </ul>	<p>mm - mm yes / no mm mm mm m2</p>	
2	<p><b><u>YEAR OF INSTALLATION</u></b></p>		
3.	<p><b><u>CAPACITY IN TPH</u></b></p> <ul style="list-style-type: none"> <li>+ Present production and fineness</li> <li>+ Production guaranteed by supplier and fineness</li> <li>+ Average production (last 12 months) and fineness</li> <li>+ Max production (last 12 months) and fineness (after exchanging rollers to new one)</li> <li>+ Min. production (last 12 months) and fineness (before exchanging worn-out rollers to new one)</li> </ul>	<p>t/h (Dry) 90μ % t/h (Dry) 90μ % t/h (Dry) 90μ % t/h (Dry) 90μ % t/h (Dry) 90μ %</p>	
4	<p><b><u>MILL MOTOR DETAILS</u></b></p> <ul style="list-style-type: none"> <li>+ Mill motor power installed (name plate)</li> <li>+ Actual mill motor power consumption (avg)</li> </ul>	<p>kW kW</p>	

No.	Question	Unit	Answer
5	<p><b><u>MILL IDF DETAIL</u></b></p> <ul style="list-style-type: none"> <li>+ Fan motor power installed (name plate)</li> <li>+ Fan gas flow design</li> <li>+ Fan pressure design</li> <li>+ Actual fan motor power consumption</li> <li>+ Actual gas flow at fan inlet</li> <li>+ Actual pressure at fan inlet</li> <li>+ Speed Range</li> <li>+ Fan speed variable</li> <li>+ Recirculated gas flow</li> </ul>	<ul style="list-style-type: none"> <li>kW</li> <li>Am<sup>3</sup>/h</li> <li>Mbar</li> <li>KW</li> <li>Am<sup>3</sup>/h</li> <li>Mbar</li> <li>RPM</li> <li>yes / no</li> <li>Am<sup>3</sup>/h</li> </ul>	
6	<p><b><u>FEED DETAILS</u></b></p> <ul style="list-style-type: none"> <li>+ Size of Feed</li> <li>+ Feed size distribution</li> <li>+ Moisture in Feed (Max. &amp; Min)</li> </ul>	<ul style="list-style-type: none"> <li>mm</li> <li>% &amp; mm</li> <li>%</li> </ul>	
7	<p><b><u>OPERATION DATA</u></b></p> <ul style="list-style-type: none"> <li>+ Mill operation hours / day aver.</li> <li>+ Mill Inlet Pressure</li> <li>+ Mill Inlet gas temp.</li> <li>+ Maximum available gas inlet temperature</li> <li>+ Mill Outlet Pressure</li> <li>+ Mill Outlet gas temp.</li> <li>+ Actual airflow (mill outlet)</li> <li>+ DP across mill (pressure outlet-inlet)</li> <li>+ Residue 90 micron Mesh</li> <li>+ Residue of 212 microns Mesh</li> <li>+ Average power consumption for mill</li> <li>for IDF</li> <li>for total (mill + IDF)</li> <li>for separator</li> <li>+ Average operation hours per day</li> <li>+ Average working hours for roller segments (for exchange)</li> <li>and table liners (for exchange)</li> <li>+ Wear rate of table segment</li> <li>+ Wear rate of roller segment</li> <li>+ Area of nozzle ring</li> <li>+ Water injection and location</li> <li>+ Mill vibration</li> <li>+ Revolution speed of separator</li> </ul>	<ul style="list-style-type: none"> <li>H/d</li> <li>mbar</li> <li>°C</li> <li>°C</li> <li>mbar</li> <li>°C</li> <li>Am<sup>3</sup>/h</li> <li>mbar</li> <li>%</li> <li>%</li> <li>kWh/t</li> <li>h/d</li> <li>h</li> <li>h</li> <li>g/t</li> <li>g/t</li> <li>m<sup>2</sup></li> <li>t/h</li> <li>mm/sec</li> <li>RPM</li> </ul>	
8	<p><b><u>GRINDING PRESSURE</u></b></p> <ul style="list-style-type: none"> <li>+ Mill operation grinding pressure</li> <li>+ Mill max allowed grinding pressure</li> </ul>	<ul style="list-style-type: none"> <li>bar</li> <li>bar</li> </ul>	

No.	Question	Unit	Answer
9.	<b><u>CLASSIFIER DETAILS</u></b> + Type + Installed motor power (name plate) + Speed Range	kW RPM	
10	<b><u>CLASSIFIER GEARBOX DETAILS</u></b> + Maker + Size + Gear Ratio + Type + Safety factor	kW	
11	<b><u>TYPE OF DEDUSTING EQUIPMENT</u></b> + Cyclones before BF + Bag Filter (filter bags area) + E.P.	yes/no m <sup>2</sup> yes/no	
12	<b><u>PREFERRED BENEFIT</u> (give priority from 1 to 4, 1 is highest priority)</b>  Production increase :  Residue improvement :  Power saving :  Less vibration:		

No.	Question	Unit	Answer
13	<b><u>ELECTRICITY AND CONTROL</u></b>  + Cycle  + High Tension   + Low Tension	Hz  Voltage for more than kW  Voltage for less than kW	
14	<b><u>ANY ADDITIONAL INFORMATION</u></b>  <b><u>AND SPECIAL REQUIREMENTS</u></b>		

**DRAWINGS REQUIRED**

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