



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

**QUESTIONNAIRE  
FOR  
VERTICAL COAL 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

No.	Question	Unit	Answer
	<p><b><u>PLAN SITE AND KILN</u></b></p> <ul style="list-style-type: none"> <li>+ Altitude, meter above sea level</li> <li>+ Kiln capacity</li> <li>+ No. of stage of SP</li> <li>+ Kiln exhaust gas temp.</li> <li>+ Type of cooler</li> <li>+ Kiln operation day per year</li> <li>+ Use of hot gas for coal mill</li> </ul>	<p>m.</p> <p>t/d</p> <p>°C</p> <p>d/y</p> <p>SP/cooler</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 Roller</li> <li>+ Roller diameter x width</li> <li>+ Dam Ring Height</li> </ul>	<p>mm</p> <p>-</p> <p>mm</p> <p>mm</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>+ Kind of coal</li> <li>+ Hard Grove Index</li> <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>HGI</p> <p>t/h dry</p> <p>90 μ R %</p> <p>t/h (Dry)</p> <p>90μ R%</p> <p>t/h (Dry)</p> <p>90μ R%</p> <p>t/h (Dry)</p> <p>90μ R%</p> <p>t/h (Dry)</p> <p>90μ R%</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</p> <p>kW</p>	

No.	Question	Unit	Answer
5	<p><b><u>CIRCULATING AIR FAN DETAILS</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>+ Fan speed variable</li> <li>+ Speed Range</li> <li>+ Circulated 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>RPM</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>+ Moisture in Feed (Max. &amp; Min)</li> </ul>	<ul style="list-style-type: none"> <li>mm</li> <li>%</li> </ul>	
7	<p><b><u>OPERATION DATA</u></b></p> <ul style="list-style-type: none"> <li>+ Mill Inlet Pressure</li> <li>+ Mill Inlet gas temp.</li> <li>+ Maximum available inlet temperature</li> <li>+ Mill Outlet Pressure</li> <li>+ Mill Outlet Temp.</li> <li>+ DP across mill (pressure mill outlet-inlet)</li> <li>+ Residue of coal meal 90 micron</li> <li>+ Residue of coal meal 45 microns</li> <li>+ Average power consumption for mill</li> <li>for IDF</li> <li>for separator</li> <li>+ Annual Operation hours per day</li> <li>+ Average working hours for roller segments (for exchange)</li> <li>for 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>mbar</li> <li>°C</li> <li>°C</li> <li>mbar</li> <li>°C</li> <li>mbar</li> <li>%</li> <li>%</li> <li>kWh/t</li> <li></li> <li></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 3, 1 is highest priority)</b>  Production increase : Residue improvement : Less vibration :		
13	<b><u>ANY ADDITIONAL INFORMATION</u></b>  <b><u>AND SPECIAL REQUIREMENTS</u></b>  1. The existing of classifier rotor rotation direction 2. The existing of mill inclination of louver ring direction		

**DRAWINGS REQUIRED**

+ **PROCESS FLOW SHEET**

+ **MILL GENERAL DRAWINGS**

+ **CLASSIFIER DRAWINGS**

+ **FAN CHARACTERISTIC CURVES**