LV INTERNATIONAL CO., LTD.

QUESTIONNAIRE

FOR

VERTICAL CEMENT/SLAG MILLS

Date	:	
Customer Name	:	
Address	:	
Contact Person	:	

LV International Company Limited

No. 9/148 14th Floor UM Tower, Ramkhamhaeng Road, Suanluang, Suanluang, Bangkok 10250. Thailand
Tel: +66-2-3183244-5

No.	Question	Unit	Answer
	PLANT SITE AND KILN		
	+ Altitude, meter above sea level	m	
	+ Kiln capacity aver.	t/d	
	+ No. of stage of SP	-	
	+ Kiln exhaust gas temperature	°C	
	+ Type of cooler	-	
	+ Operation days per year	d/y	
1	**TYPE OF MILL**		
	+ Name of original mill supplier		
	+ Mill size		
	+ Mill table diameter	mm	
	+ No. of rollers	-	
	+ Roller diameter x width	mm	
	+ Mill external circulation system	yes / no	
	+ Dam Ring Height	mm	
2	**YEAR OF INSTALLATION**		
3.	**CAPACITY IN TPH**		
	+ Present production and fineness	t/h (Dry) Blaine 45µ %	
	+ Production guaranteed by supplier and fineness	t/h (Dry) Blaine 45µ %	
	+ Average production (last 12 months) and fineness	t/h (Dry) Blaine 45µ %	
	+ Max production (last 12 months) and fineness (after exchanging rollers to new one)	t/h (Dry) Blaine 45µ %	
	+ Min. production (last 12 months) and fineness (before exchanging worn-out rollers to new one)	t/h (Dry) Blaine 45µ %	
4	**MILL MOTOR DETAILS**		
	+ Mill motor power installed. (name plate)	kW	
	+ Actual mill motor power consumption (avg)	kW	

No.	Question	Unit	Answer
5	**MILL IDF DETAIL**		
	+ Fan motor power installed (name plate)	kW	
	+ Fan gas flow design	Am3/h	
	+ Fan pressure design	Mbar	
	+ Actual fan motor power consumption	KW	
	+ Actual gas flow at fan inlet	Am3/h	
	+ Actual pressure at fan inlet	Mbar	
	+ Speed Range	RPM	
	+ Fan speed variable	yes / no	
	+ Recirculated gas flow	Am^3/h	
6	**FEED DETAILS**		
	+ Size of Feed	mm	
	+ Feed size distribution	% & mm	
	+ Cement Type	OPC/Mixed	
	+ Feed Composition		
	- Clinker	%	
	- Gypsum	%	
	- Limestone	%	
	- Additive	%	
	+Moisture for each feed composition	%	
	- Clinker	%	
	- Gypsum	%	
	- Limestone	%	
	- Additive	%	
	+ Moisture in total Feed (Max. & Min)	%	

7	**OPERATION DATA**		
	+ Mill operation hours / day aver.	H/d	
	+ Mill Inlet Pressure	mbar	
	+ Mill Inlet gas temp.	°C	
	+ Maximum available gas inlet temperature	°C	
	+ Mill Outlet Pressure	mbar	
	+ Mill Outlet gas temp.	°C	
	+ Actual airflow (mill outlet)	Am3/h	
	+ DP across mill (pressure outlet-inlet)	mbar	
	+ Residue 90 micron Mesh	%	
	+ Residue of 212 microns Mesh	%	
	+ Average power consumption	kWh/t	
	for mill		
	for IDF		
	for total (mill + IDF)		
	for separator		
	+ Average operation hours per day	h/d	
	+ Average working hours for roller	h	
	segments (for exchange)		
	and table liners (for exchange)	h	
	+ Wear rate of table segment	g/t	
	+ Wear rate of roller segment	g/t	
	+ Area of nozzle ring	m^2	
	+ Water injection and location	t/h	
	+ Mill vibration	mm/sec	
	+ Revolution speed of separator	RPM	
8	**GRINDING PRESSURE**		
	+ Mill operation grinding pressure	bar	
	+ Mill max allowed grinding pressure	bar	
No.	**Question**	**Unit**	**Answer**
9.	**CLASSIFIER DETAILS**		
	+ Type		
	+ Installed motor power (name plate)	kW	
	+ Speed Range	RPM	
	+ Have Invertor?	Yes/no	
10	**CLASSIFIER GEARBOX DETAILS**		
	+ Maker		
	+ Size	kW	
	+ Gear Ratio		
	+ Type		
	+ Safety factor		

11	**TYPE OF DEDUSTING EQUIPMENT** + Cyclones before BF + Bag Filter (filter bags area) + E.P.	 yes/no m^2 yes/no	
12	**PREFERRED BENEFIT (give priority from 1 to 4, 1 is highest priority)** Production increase : Residue improvement : Power saving : Less vibration:		
No.	**Question**	**Unit**	**Answer**
13	**ELECTRICITY AND CONTROL** + Cycle + High Tension + Low Tension	 Hz Voltage for more than kW Voltage for less than kW	
14	**ANY ADDITIONAL INFORMATION** **AND SPECIAL REQUIREMENTS**		

DRAWINGS REQUIRED

+ PROCESS FLOW SHEET

+ MILL GENERAL DRAWINGS

+ CLASSIFIER DRAWINGS

+ FAN CHARACTERISTIC CURVES