

Questionnaire for Cement Plants

A. Project Information:

Name of Client	
Project name/ location	

B. General information :

Information required	To be filled in by Client	Remarks
Type of Kiln		
Type of Pre-heater		
Number of Pre-heater strings		
Does the kiln have a Bypass (BP)		
NOx in BP / Kiln		
Must BP NOx be removed		
Expert system controlling firing		
Raw Mill heat generator		
If yes, Heat Generator NOx		

C. Flue Gas Details :

Parameter \ Load case	Unit of measurement	Min.	Normal	Max.
Flue gas flow rate (specify if flow rate is wet or dry basis and @ O2 vol. %)	M ³ /hr.			
Flue gas operating temperature	°C			
Pressure	mmH ₂ O, g			
NOx (specify if flow rate is wet or dry basis and @ O2 vol. %)	mg/Nm ³			
NO ₂ of NOx	%			
O ₂ , (At Pre-Heater exit)	%(vol/vol) wet			
H ₂ O (Where NOx is measured)	%(vol/vol) wet			

D. Guaranteed Performance requirements :

Performance Guarantees	Unit of measurement	
Guaranteed lifetime	Operation hours	
NO _x max outlet /NO _x conversion	mg/Nm ³ @ ref. O ₂ %	
NH ₃ Slip	mg/Nm ³ @ ref. O ₂ %	
Reagent preferred**	Aqueous Ammonia etc.	

** Specify preferred Reagent and Reagent grade .

E. Additional Information (Required if the flue gas flow details is not known)

Parameter		Unit	Remarks
Clinker production		TPD	
Heat consumption		Kcal/kg Clinker	
Fuel consumption		T/Hr.	
Fuel type		-	
Lower Calorific value		Kcal/kg, AF	
Clinker factor		Kg RM/Kg Clinker	
Raw Meal LOI		[%]	
Net raw meal input		T/Hr.	