CHECK-LIST

INFORMATION REQUIRED FOR THE PREPARATION OF THE PROPOSAL FOR INCINERATION PLANT

1. Proposed Site Map

- 1.1 General description of site location and plant area, ash disposal area, water intake etc.
- 1.2 The topographic map with 1:1000 or 1:2000 scales used for general layout drawings.
- 1.3 The topographic map of ash disposal area and water intake.

2. Access to Site

2.1 The fuel and limestone transportation ways which need to be specified by drawings ordescriptions (if it's transported by trucks, the loading capacity of the truck and the access loadcondition should be submitted).

- 2.2 The oversize equipments transportation ways which need to be specified by drawings ordescriptions.
- 2.3 The existing transportation conditions round the proposed site including road, railway, airport, river ways.

3. Site Conditions

- 3.1 Topographical condition and elevation.
- 3.2 Geological conditions, Soil physic-mechanical features.
- 3.3 Seismology.

4. General Climate Conditions

The ambient climatic conditions are as follows:

- Barometric pressure, mbar:
 - Mean:
 - Maximum:

- 5.1 What kind of cooling water source will be used for the power plant, river (lake) or underground water?
- 5.2 The highest water level or flood level, the average and the lowest water lever.
- 5.3 The minimum water flow in whole year. The average and min. flow.
- 5.4 The maximum, average and minimum water temperature.

5.5 If the underground water will be the cooling water source, please provide the quantity and quality of underground water.

6. Wa	ater Con	ditions		<u>`</u>					
unit		mg/L		unit			mg/L		
item		mg/L	(CaCO ₃)	mmol/L	item		mg/L	(CaCO ₃)	mmol/L
Plea	se Krovi	de the ir	formation o	n the prelin	hinarv water o	uuailiotebherdnesser u	olant. refer	rina to the fol	lowing
Please Srovide the information on the preliminary water quality to have plant, refe yellow highlighted blanks. If possible, please fill in the table mentioneboletow: Na+								0	0
cation	Ca ²⁺				Hardness	carbonate hard-			
	Ca					ness Negative			
	0.					carbonate hard-			
L	Mg ²⁺					ness			
	Fe ²⁺					M Alkalinity			
	Fe ³⁺				Acidity and Alka- linity	P Alkalinity			
	Al ³⁺					acidity			
	${\sf NH_4}^+$					pН			
	Ba ²⁺					N-NH ₃			
	Sr ²⁺				Others	Free carbon diox- ide			
	Σ					COD _{Mn/Cr}			

7. MSW

- 7.1 Please kindly provide transport information of MSW to plant. Including cars and size.
- 7.2 MSW specification

Table for MSW Analysis								
ltem	Design	Range						
Physical Component Analysis (As Received)								
Wood (% By Weight)								
Paper (% By Weight)								
Plastic (% By Weight)								
	ate Analysis (As Received)							
Total Moisture (% By Weight)								
Ash (% By Weight)								
Volatile Matter (% By Weight) Fixed Carbon (% By Weight)								
	te Analysis (As Received)							
Carbon (% By Weight)	-							
Hydrogen (% By Weight)								
Oxygen (% By Weight Difference)								
Nitrogen (% By Weight)								
Sulfur (% By Weight)								
Chlorine (% By Weight)								
Calc	orific Value (As Received)							
High Heat Value (kJ/kg)								
Low Heat Value (kJ/kg)								
	Ash Analysis							
SiO ₂ (% By Weight)								
Al ₂ O ₃ (% By Weight)								
Fe_2O_3 (% By Weight)								
MgO (% By Weight)								
CaO (% By Weight)								
Na ₂ O (% By Weight)								
MnO(% By Weight)								
TiO ₂ (% By Weight)								
P ₂ O ₅ (% By Weight)								
SO ₃ (% By Weight)								
K ₂ O (% By Weight)								
Base / Acid Ratio								
Ash	Fusibility Characteristics							
Initial Deformation (°C)at Reduced Atm								
Softening Temperature (°C)								
Fusion Temperature (°C) at Reduced Atm								

8. Electrical

- 8.1 Local power grid information relation to power station:
 - 8.1.1 The power grid nominal voltage classification from HV to LV.

8.1.2 The voltage level, quantity and direction of outgoing transmission line linking the proposal power plant to Grid.

8.1.3 Owner's requirement to main electrical connection of proposal power plant.

9. Flue Gas Emissions, Waste Water Discharge, Noise Emission Limits

9.1 Please provide the local standards for flue gas emissions and waste water discharge and noise emission limits.

9.2 Please provide requirement for ash discharge.

11. Code and Standard

The information of the local forced executive code and standard, such as fire fighting, environmental protection, etc.

	Finance and estimation	
1	Potential project on-grid price, whether including tax, if included, what about the tax rate?	
2	Price for potential project collects MSW to site. Or MSW price to site	
3	How much allowance for burning MSW? How to handle ash? How much will be charged for ash discharge? How much for wa- ter? How much for waste water discharge? How much for waste gas vent?	
4	Project construction and operation tax policy, including tax catego- ries, tax base and tax rate	
5	Project construction and operation policy, including people, ma- chine and related fee.	
6	Requirement for supply and certification of equipments and mate- rial.	
7	Unit price of local site land expropriation and unit price of con- struction land renting	
8	Temporary water and electricity price.	
9	Project financial structure, rate and repayment.	
10	Insurance requirement for project construction and operation.	
11	Project implements method, EPC, BOT or PPP?	
12	Local requirement on fire fighting, safe and environment protec- tion, and related increased cost. Including classification and pre- liminary cost estimate.	
13	The price of material in proposed area, such as: concrete, ce- ment, steel, sand, stone, etc, and labor price in local area.	