

## Annex G

Reference Number: \_\_\_\_\_

# FORM A - ESTIMATED EQUIPMENT DATA DISTRIBUTION UTILITY / DIRECTLY CONNECTED LOAD

## A. BASIC INFORMATION

GRID USER	
1. Facility Name	
2. Company Name	
3. Office Address	
4. Main Contact Person	
5. Position	
6. Contact Numbers	
7. Email Address	
8. Facility Location	
a. Street	
b. Sitio	
c. Barangay	
d. Province	
e. Location Map	<i>Please attach a geographic map showing the coordinates of the power plant site.</i>

### General Note:

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  - GP 5.5. Detailed Planning Data
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## B. LOAD INFORMATION FOR MOTORS AND FURNACES

### Summary of Loads

	Year 1	Year 2	Year 3	Year 4	Year 5
<b>Conventional Base Load</b> (Excludes large load)					
Maximum Non-Coincident Demand (MW)					
<b>Large Load</b> (Motors and Furnaces)					
Maximum Non-Coincident Demand (MW)					
<b>TOTAL</b>					

### Load Schedule Details

<b>Conventional Base Load</b>					
Maximum Non-Coincident Demand (MW)					
Power Factor					
<b>Large Load</b>					
<i>Furnace</i>					
Number of Units					
Rated Power (MW)					
Type of Furnace					
Rated Voltage (V)					
Rated Current (A)					
Power Factor at Rated Power					
Starting Current (A)					
Lowest Power Factor During Starting					
<i>Large Motor</i>					
Number of Units					
Rated Power (MW)					
Rated Voltage (V)					
Rated Current (A)					
Power Factor at Rated Power					

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Starting Current (A)					
Lowest Power Factor at Starting					
Starting Method					

### Mode of Switching

<b>Large Load</b>		
<i>Furnace</i>		
Will all the furnaces be switched on/off simultaneously?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If not, what is the maximum number of furnaces that will be switched on/off simultaneously? _____ <i>Specify the power rating of each furnace:</i> _____		
<i>Large Motor</i>		
Will all the motors be switched on/off simultaneously?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If not, what is the maximum number of motors that will be switched on/off simultaneously? <u>Please refer to answer below:</u> <i>Specify the power rating of each motor:</i> _____		
Attached sample power demand curve (kW vs time) of the operation of steel plant		

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## C. SUBSTATION AND TRANSMISSION FACILITY

### Line Information

Line Name	Operating Voltage Level (kV)	Length (km)	Type of conductor		Actual Rating (MVA)	R	X	B	Year of Commissioning	Age (Year)	Connected Generator /Load
			No. of Bundles	Conductor size							

Please add rows as necessary

### Line Structure Information

Number	Type	Coordinates

Please add rows as necessary

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**Power Circuit Breaker**

Substation Name	System Voltage (kV)	Type (Live Tank or Dead Tank)	Continuous Rating (A)	Breaker Interrupting Capacity (kA)	Manufacturer	Year of Commissioning	Age (Year)

*Please add rows as necessary*

**Reactive Compensation Equipment**

Substation Name	Rated Voltage (kV)	Rated Capacity (MVar)	Manufacturer	Year of Commissioning	Age (year)	Status

*Please add rows as necessary*

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**Transformer Data**

1. Substation Name				10. Status			
2. Rated Capacity				11. Model type			
3. Transformation Voltage (kV)				12. Serial Number			
4. Vector Group				13. Rated Frequency			
5. No. of Taps				14. Power Factor			
6. % Adjust per Tap				15. Voltage Ratio			
7. % Impedance at Rated load & Voltage				16. Configuration (e.g. 3 Phase or Three Single Phase)			
8. Manufacturer				17. Temperature Rise (°C)			
9. Year of commissioning				18. Connection for each winding H,X,Y (e.g. Wye, Delta, Zigzag)			
19. Positive Sequence Impedance	(See IEEE C57.12.90 for measurement techniques)	Positive Sequence Impedance (%)	HX		HY		XY
		R					
		X					
		Base MVA					
20. Zero Sequence Impedance (Data is required for transformers with 1 or 2 external neutrals)	H winding energized all others open	Closed Tertiary	H	X	HX	XH	
		R					
		X					
		Base MVA					
	H winding energized X winding shorted	Open Tertiary	H	X	HX	XH	
		R					
		X					
		Base MVA					
	In-Service Off-Load Tap (kV)						
	Off –Load Taps (kV)						
	On-Load Taps (kV) (Max Tap, Min Tap, Number of Steps)						
	Core and Excitation Losses (kW, kVAr)						

**ACCOMPLISHED BY:**
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**SIGNATURE:** \_\_\_\_\_

**NAME:** \_\_\_\_\_

**POSITION:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

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