 PERTECO SRL						JOB NUMBER				
						DATE				
						AUTHOR				
QUESTIONNAIRE FOR MELTSHP WTP					Rev.	01				

MAIN DATA

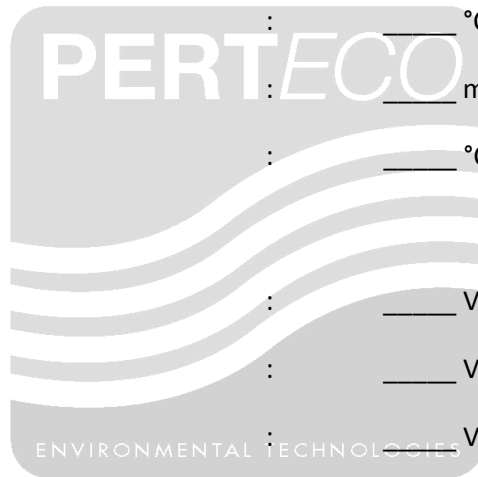
- EAF capacity : _____ t
- Max Hourly Production : _____ t/h
- Raw Water Intake (well or industrial) : _____

ENVIRONMENTAL DATA

- Temperature min. : _____ °C
- Temperature max. : _____ °C
- Altitude (m.a.s.l) : _____ m
- Wet Bulb temperature : _____ °C

ELECTRICAL DATA

- Low voltage : _____ V AC (+/- 5%)
- Auxiliary voltage : _____ V AC (+/- 5%)
- Solenoid voltage : _____ V DC (+/- 5%)
- Network frequency : _____ Hz (+/- 1%)



MELT SHOP CIRCUITS

INDIRECT CIRCUITS

E.A.F.

Shell and Roof Panels

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar
- Emergency Flowrate **Q** : _____ m³/h
- Time (emergency) : _____ min.

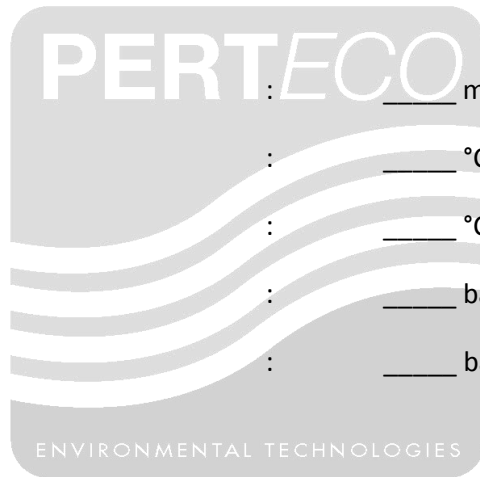
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Transformer + Transformer wall

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar

Other EAF Utilities

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar




LADLE FURNACE

Furnace

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar

Transformers

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar

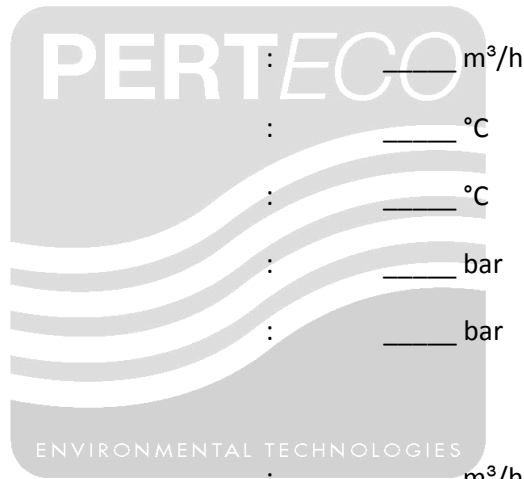
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AUXILIARY PLANTS

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar

OXYGEN PLANT

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar




HVAC

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar

DEDUSTING SYSTEM

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar

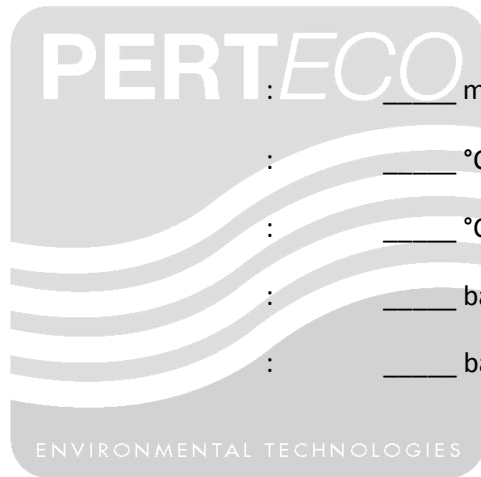
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ELECTRODES COOLING WATER

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar


SLAG COOLING WATER

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar



OTHERS

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar

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CONTINUOUS CASTING CIRCUITS

INDIRECT CIRCUITS

MOULDS COOLING

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Decrease **Δp** : _____ bar
- Emergency Flowrate **Q** : _____ m³/h
- Time (emergency) : _____ min.

STIRRERS (EMS)

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Decrease **Δp** : _____ bar
- Emergency Flowrate **Q** : _____ m³/h
- Time (emergency) : _____ min.

MACHINE COOLING

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Decrease **Δp** : _____ bar

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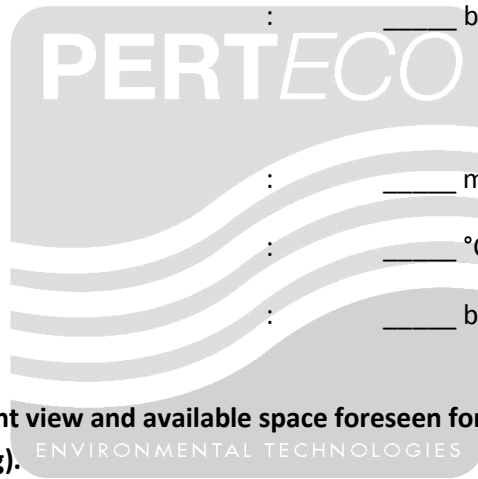
DIRECT CIRCUITS

SPRAY COOLING

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Temperature Increase **Δt** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar
- Pressure Drop **Δp** : _____ bar

SERVICE WATER

- Flowrate **Q** : _____ m³/h
- Max Inlet Temperature **Te** : _____ °C
- Min Inlet Pressure **Pe** : _____ bar



Please provide drawings with plant view and available space foreseen for Water Treatment Plant, if available the Auto CAD files (.dwg).

Please provide also tables of available data for :

- Available Raw water
- Water in open direct circuits
- Water in open indirect circuits
- Water in closed indirect circuits
- Limit values of pollutants of industrial waters and urban waters discharged in natural receivers