



QUESTIONNAIRE ON SAND REGENERATING PLANTS

1. Identification

Company Name

Company Address

Are you a...

Aluminium Foundry	<input style="width: 20px; height: 20px;" type="checkbox"/>	Core Producer	<input style="width: 20px; height: 20px;" type="checkbox"/>	
Steel Foundry	<input style="width: 20px; height: 20px;" type="checkbox"/>	Other	<input style="width: 20px; height: 20px;" type="checkbox"/>	Specify <input style="width: 250px; height: 25px;" type="text"/>
Cast Iron Foundry	<input style="width: 20px; height: 20px;" type="checkbox"/>			

2. Type of sand to be regenerated

Silica sand	<input style="width: 20px; height: 20px;" type="checkbox"/>		Quantity: ___ tons/day supplied for ___ hours/day
Chromite sand	<input style="width: 20px; height: 20px;" type="checkbox"/>		Max. quantity per hour: ___ tons
Zircon sand	<input style="width: 20px; height: 20px;" type="checkbox"/>		Delivery mode to the regen plant: continuous <input style="width: 20px; height: 20px;" type="checkbox"/>
Olivine sand	<input style="width: 20px; height: 20px;" type="checkbox"/>		Delivery mode to the regen plant: discontinuous <input style="width: 20px; height: 20px;" type="checkbox"/>
Others	<input style="width: 20px; height: 20px;" type="checkbox"/>		Specific weight: ___ kg/dm ³
Percentage of humidity in the sand ___%			Resin percentage: ___%
Max. dimensions of sand lumps x x.....mm			Specific heat: ___ kcal/(kg x °C)
Max. weight of sand lumps ___ kg			Max. temperature: ___ °C

2.1 Case of :

a) Core Sand	<input style="width: 20px; height: 20px;" type="checkbox"/>	Cold Box	<input style="width: 20px; height: 20px;" type="checkbox"/>	___ %		AFS	<input style="width: 20px; height: 20px;" type="checkbox"/>
		Hot Box	<input style="width: 20px; height: 20px;" type="checkbox"/>	___ %		AFS	<input style="width: 20px; height: 20px;" type="checkbox"/>
		Shell Moulding	<input style="width: 20px; height: 20px;" type="checkbox"/>	___ %			<input style="width: 20px; height: 20px;" type="checkbox"/>
		Others	<input style="width: 20px; height: 20px;" type="checkbox"/>	Specify <input style="width: 150px; height: 25px;" type="text"/>		AFS	<input style="width: 20px; height: 20px;" type="checkbox"/>

2.2 Case of :

b) Green Sand	<input style="width: 20px; height: 20px;" type="checkbox"/>	Bentonite Content	___ %		AFS
		Coal Content	___ %	<input style="width: 20px; height: 20px;" type="checkbox"/>	



2.3 Case of :

c) **Mix of Core and Green Sand**

▪ Core Sand	_____ %	Cold Box	<input type="checkbox"/>	_____ %	AFS	<input type="checkbox"/>
		Hot Box	<input type="checkbox"/>	_____ %	AFS	<input type="checkbox"/>
		Shell Moulding	<input type="checkbox"/>	_____ %	AFS	<input type="checkbox"/>
		Others	<input type="checkbox"/>	Specify <input type="text"/>	AFS	<input type="checkbox"/>
▪ Green Sand	_____ %	Bentonite Content	_____ %	<input type="text"/>	AFS	
		Coal Content	_____ %			

3. Metallic magnetic parts in the sand

3.1 Ferromagnetic

Types

Size

Quantity

3.2 Non ferromagnetic

Types

Size

Quantity

4. Expected utilization of the regenerated sand

Core production Green sand Resin sand moulding Pre-coated sand

5. Expected characteristics of the regenerated sand

Fines % Loss on Ignition ____ % Temperature _____ °C Bentonite ____ %

6. Plant Features

Available Area ____ m² **Maximum elevation clearance** ____ m.

The sand will be delivered to the regen. plant by means of

at a height from the floor of

Are pits allowed? Yes No

If possible, enclose drawing of available area.



Type of available gas

Methane

LPG

Others Specify

Pressure kPa

Power Supply Voltage V
Frequency Hz

Available service water

Quantity gallons/minute

Pressure psi

Temperature °F

Current safety regulations

Local environment prescription

Accepted dust level mg/Nm³

7. Peripheral Equipment

Do you need a turn key project ?

YES

NO

Type of PLC

A/B

Siemens

Other

Specify

Do you need FATA to include :

YES

NO

Silos (old sand)

Silos (regenerated sand)

Lump Crusher

Bucket elevators

Pneumatic conveyors

Magnetic separator

Dust filters

NOTES: Would you like to add something else?