



## QUESTIONNAIRE ON SAND REGENERATING PLANTS

### 1. Identification

Company Name

Company Address

#### Are you a...

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

### 2. Type of sand to be regenerated

Silica sand	<input type="checkbox"/>	Quantity: _____ tons/day supplied for _____ hours/day	
Chromite sand	<input type="checkbox"/>	Max. quantity per hour: _____ tons	
Zircon sand	<input type="checkbox"/>	Delivery mode to the regen plant: continuous	<input type="checkbox"/>
Olivine sand	<input type="checkbox"/>	Delivery mode to the regen plant: discontinuous	<input type="checkbox"/>
Others .....	<input type="checkbox"/>	Specific weight: _____ kg/dm <sup>3</sup>	
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 :

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

#### 2.2 Case of :

<b>b) Green Sand</b>	<input type="checkbox"/>	Bentonite Content	_____ %		AFS
		Coal Content	_____ %	<input style="width: 50px;" type="checkbox"/>	



**2.3 Case of :**

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

▪ <b>Core Sand</b>	_____ %	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"/>
<hr/>						
▪ <b>Green Sand</b>	_____ %	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** \_\_\_\_ m<sup>2</sup>                      **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/Nm<sup>3</sup>

**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?**