

# Questionnaire for iron ore filtration

Customer name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Customer contact person: \_\_\_\_\_  
Phone: \_\_\_\_\_ Mail \_\_\_\_\_

## Quantity and type of filter installations

Manufacturer of the filters: \_\_\_\_\_  
Vacuum disc filters: \_\_\_\_\_ Quantity: \_\_\_\_\_  
Hyperbaric disc filters: \_\_\_\_\_ Quantity: \_\_\_\_\_  
Diameter of disc: \_\_\_\_\_  
No. of disc/filter: \_\_\_\_\_ No. of sectors/disc: \_\_\_\_\_

## Conditions of operation

Sludge to be filtered: \_\_\_\_\_  
Working temperature: \_\_\_\_\_ [°C]  
pH value of the slurry: \_\_\_\_\_  
Density of the slurry: \_\_\_\_\_ [%]  
Blain no.: \_\_\_\_\_ Particle size: \_\_\_\_\_  
Chemicals in a slurry if any: \_\_\_\_\_

## Present situation

Production capacity: \_\_\_\_\_ [tns/filter/hr]  
Moisture content of cake \_\_\_\_\_ [%]  
Permitted solids in filtrate: \_\_\_\_\_ [mg/l]  
Life time of bags: \_\_\_\_\_ [hrs]  
Life time of sectors: \_\_\_\_\_ [months]

## Targets

Production capacity: \_\_\_\_\_ [tns/filter/hr]  
Moisture content of cake: \_\_\_\_\_ [%]  
Permitted solids in filtrate: \_\_\_\_\_ [mg/l]  
Life time of bags: \_\_\_\_\_ [hrs]  
Life time of sectors: \_\_\_\_\_ [months]



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## Sectors

### Present sectors

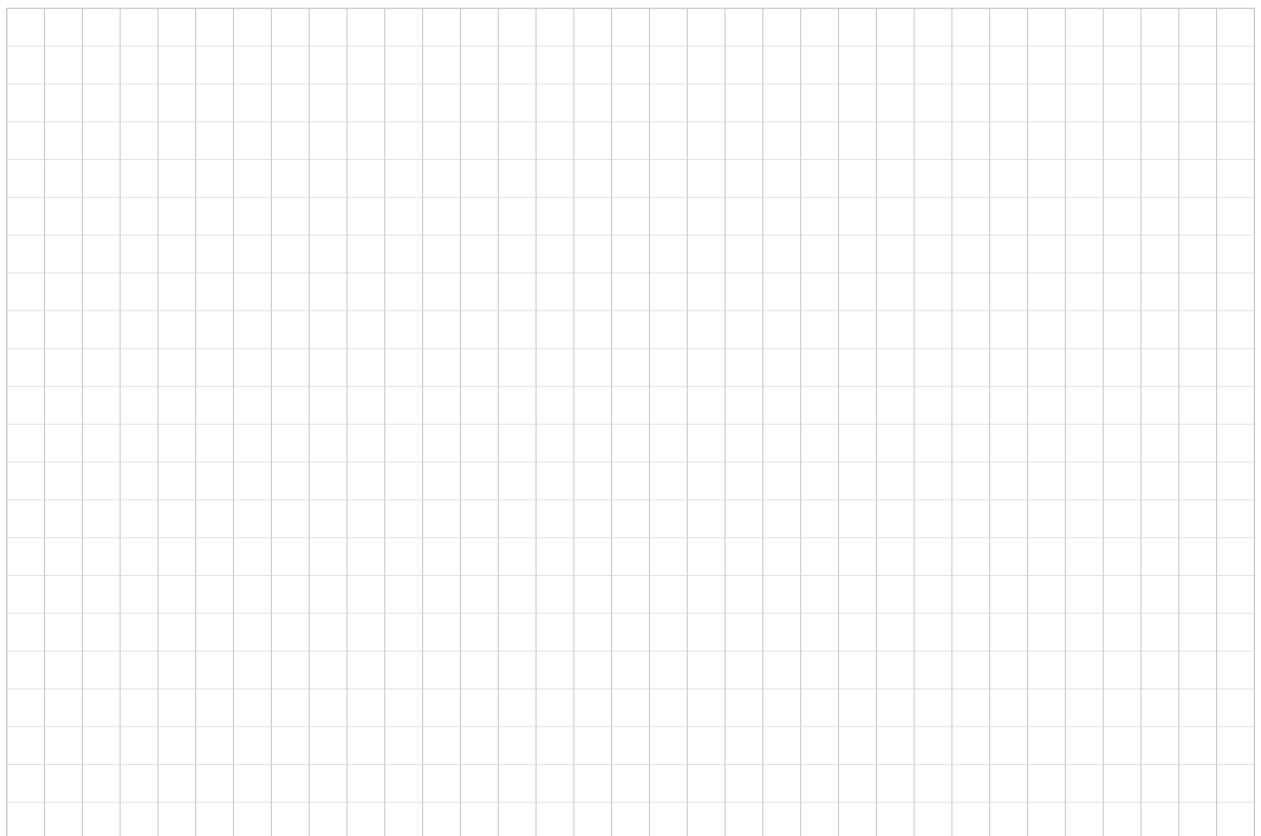
Supplier: \_\_\_\_\_

Type of sector (metal, plastic): \_\_\_\_\_

Sealing method of the sector neck  
(rubber ring, ferrule): \_\_\_\_\_

Ferrule type (drawing of dimensions  
and photo): \_\_\_\_\_

Dimensions of the sector (drawing): \_\_\_\_\_



### Reason for sector change

Holes in sector body: \_\_\_\_\_

Holes in sector neck: \_\_\_\_\_

Other reason (what): \_\_\_\_\_

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## Filter operation

### Vacuum disc filter

Slurry feeding system  
(how many inlet pipes): \_\_\_\_\_

Slurry level control system: \_\_\_\_\_

Speed of filter: \_\_\_\_\_ [rpm]

Agitation speed: \_\_\_\_\_ [rpm]

Vacuum level: \_\_\_\_\_ [bar]

Snap blow time: \_\_\_\_\_ [sec]

Snap blow pressure: \_\_\_\_\_ [bar]

Snap blow volume (good, bad): \_\_\_\_\_

Suck back system  
working properly:  yes  no

### Bridge plate

Drawing or photo of the bridge plate including

Cake pick up point: \_\_\_\_\_

Snap blow hole (size and location): \_\_\_\_\_

Suck back hole (size and location): \_\_\_\_\_

