

DIEMME FILTRATION

Via Gessi 16 - 48022 LUGO (RA) ITALY
 phone +39/0545/20611 - fax +39/0545/30358
 e-mail : info@diemmefiltration.com

DMF Contact name		Date
Agent / Distributor		

DATA COLLECTION FORM

Information about the company

Name		Interested person	
Adress		Service/position	
City / Country		Project ref.	
phone		Project name	
fax		Signature	
e-mail		Form filling date	

Engineering data

1.0 SCOPE OF FILTRATION

Company sector	<input type="checkbox"/>	<i>chemical</i>	
	<input type="checkbox"/>	<i>pharmaceutical</i>	
	<input type="checkbox"/>	<i>mining</i>	
	<input type="checkbox"/>	<i>metal refining</i>	
	<input type="checkbox"/>	<i>other</i>	
Area where filtration plant will be applied	<input type="checkbox"/>	<i>process</i>	<input type="checkbox"/> <i>waste water treatment</i>
Location of the production plant	City		Sea level
Installation	<input type="checkbox"/>	<i>closed building</i>	<input type="checkbox"/> <i>outdoor wih roof</i> <input type="checkbox"/> <i>outdoor</i>
The product of interest is	<input type="checkbox"/>	<i>solid phase (cake)</i>	<input type="checkbox"/> <i>liquid phase (filtrate)</i> <input type="checkbox"/> <i>both</i>
Flow sheet of the filtration plant (if available in Enclosure)	<input type="checkbox"/>	<i>yes</i>	<input type="checkbox"/> <i>no</i>

2.0 DESIGN DATA

Physical characteristics of the product	
Short product description	
pH	
Filtration temperature	°C
Suspended solids concentration	g/l
Dissolved solids concentration	g/l
Total solids concentration	g/l
Density of suspension	t/m ³
Electric conductivity	mS/cm
Viscosity	mPas
Particle Diameter (D ₅₀)	µm
Particle Diameter (D ₈₀)	µm
Other characteristics (i.e. presence of oils, greases, etc)	
Chemical composition of the product	
Liquid	
Slurry	
Chemical and physical aggressivity characteristics	
Chemical corrosion	<input type="checkbox"/> <i>yes</i> <input type="checkbox"/> <i>no</i>
Mechanical abrasion	<input type="checkbox"/> <i>yes</i> <input type="checkbox"/> <i>no</i>

3.0 SELECTING PARAMETERS

Quantity of product to filter						
hourly quantity / production hours / daily quantity	<input type="text"/>	m ³ /h	<input type="text"/>	n° of production hours	<input type="text"/>	m ³ /d
hourly quantity / production hours / daily quantity	<input type="text"/>	t/h	<input type="text"/>	n° of production hours	<input type="text"/>	t/d
Filtration Method	<input type="checkbox"/> batch		<input type="checkbox"/> continuous			
	<input type="text"/>	n° of batches	<input type="text"/>	8 h	<input type="text"/>	16 h
	<input type="text"/>		<input type="text"/>	24 h	<input type="text"/>
Results required by the customer						
Cake (solid phase)	<input type="checkbox"/>	maximum dewatering level	<input type="checkbox"/>	required dewatering level %	
	<input type="checkbox"/>	cake salt elimination	<input type="checkbox"/>	level of salt elimination (ppm)	
	<input type="checkbox"/>	other				
Filtrate (liquid phase)	<input type="checkbox"/>	required max. turbidity level ppm				
	<input type="checkbox"/>	other				

4.0 EQUIPMENT DATA

Required level of automation	<input type="checkbox"/>	filter press with manual plate shifting device
	<input type="checkbox"/>	filter press with plate shifting supervised by operator
	<input type="checkbox"/>	fully automatic filter press without presence of operator
	<input type="checkbox"/>	use of membrane plates
Requirement of stand-by unit	<input type="checkbox"/>	yes
	<input type="checkbox"/>	no
Auxiliary equipment to offer	<input type="checkbox"/>	product feeding pump
	<input type="checkbox"/>	cake conveying system
	<input type="checkbox"/>	high pressure cloth washing system
	<input type="checkbox"/>	cloth washing pump
	<input type="checkbox"/>	low pressure cloth washing (rinsing system) - only GHT-F ad ME
	<input type="checkbox"/>	acid cloth washing device
	<input type="checkbox"/>	filter press sanitization plant (C.I.P.)
	<input type="checkbox"/>	membrane squeezing system
	<input type="checkbox"/>	membrane squeezing system by air
	<input type="checkbox"/>	membrane squeezing system by water
	<input type="checkbox"/>	air compressor for cake blowing
	<input type="checkbox"/>	cake washing pump
Allowed conditioning treatment of the product to dewater	<input type="checkbox"/>	kieselgur (fossil powder)
	<input type="checkbox"/>	carbon
	<input type="checkbox"/>	bentonite
	<input type="checkbox"/>	syntetic flocculants (polyelectrolyte)
	<input type="checkbox"/>	food grade flocculant (polyammine)
	<input type="checkbox"/>	inorganic flocculant
	<input type="checkbox"/>	ferric chloride
	<input type="checkbox"/>	ferrous sulphate
	<input type="checkbox"/>	aluminium sulphate
	<input type="checkbox"/>	PAC (polyaluminium chloride)
	<input type="checkbox"/>	lime
	<input type="checkbox"/>	other

5.0 PRESENT FILTRATION EQUIPMENT

	<input type="checkbox"/>	not existing	<input type="checkbox"/>	existing
Type of equipment	<input type="checkbox"/>	filter press		
	<input type="checkbox"/>	vacuum filter		
	<input type="checkbox"/>	centrifuge		
	<input type="checkbox"/>	belt press		
	<input type="text"/>	cake moisture (%)		
	<input type="text"/>	cake specific weight (t/m ³)		
	<input type="text"/>	cake squeezing-in case of filter pres (%)		
Capacity			
Filtering area			
Manufacturing materials			

6.0 ENCLOSURES

Technical specifications	<input type="checkbox"/>	yes	<input type="checkbox"/>	no
Process flow sheet	<input type="checkbox"/>	yes	<input type="checkbox"/>	no
Site condition	<input type="checkbox"/>	yes	<input type="checkbox"/>	no
Other	<input type="checkbox"/>	yes	<input type="checkbox"/>	no

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