

**QUESTIONARY**

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**LIQ.-LIQ.-EXTRACTION**

Company:	Date:
Contact person:	Phone:
Project:	Fax:
	Email:

Process description:

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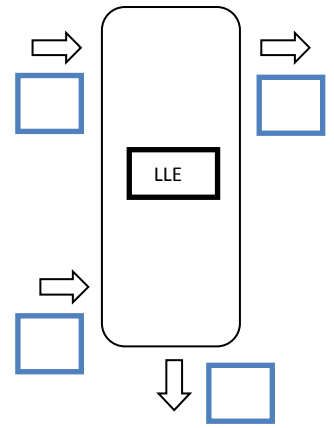


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**1 Process data \*1)**

Composition [mass %]	Feed	Extract	Solvent	Raffinate
Solids in solution				
Solids suspended				
Capacity nom. (100%) [kg/h]				
min/max [%] =				
Temperature [°C]				
Pressure [mbar (a)]				
Density [kg/m³]				
Dyn. viscosity [mPa s]				
Interfacial tension [J/m²]				

Application	<input type="checkbox"/> industry	<input type="checkbox"/> pilot	<input type="checkbox"/> laboratory
Emulsifying tendency	<input type="checkbox"/> none	<input type="checkbox"/> slight	<input type="checkbox"/> strong
Dispersed phase	<input type="checkbox"/> feed	<input type="checkbox"/> solvent	
Equilibrium data	<input type="checkbox"/> none <input type="checkbox"/> available		
Testing results	<input type="checkbox"/> none <input type="checkbox"/> available		
Number of theoretically required stages:	.....		



Please sort the capitals into the boxes

F    for Feed

E    for Extract

S    for Solvent

R    for Raffinate

\*1): In case you have got a detailed analysis, please attach them to your email.

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**LIQ.-LIQ.-EXTRACTION****2 Apparatus data**

Column type	<input type="checkbox"/> Mixer-Settler-column	<input type="checkbox"/> Mixer-Settler-battery
	<input type="checkbox"/> agitated column	<input type="checkbox"/> Mixer-Settler-single stage
Column design	<input type="checkbox"/> monobloc (completely welded)	<input type="checkbox"/> flanged
Installation site	<input type="checkbox"/> indoor	<input type="checkbox"/> outdoor
	<input type="checkbox"/> self-supporting	available floor space (l x w x h) [m]: .....
Dimensions [mm]	column- $\emptyset$ .....	decanter- $\emptyset$ .....
	number of agitated chambers	.....
Design data	design pressure .....	bar (g)
	design temperature .....	$^{\circ}\text{C}$
Materials	jacket .....	internals .....
	gaskets: .....	bolts and nuts: .....
Design code	<input type="checkbox"/> AD-Merkblätter	<input type="checkbox"/> ASME
		<input type="checkbox"/> other: .....
Shaft seal	<input type="checkbox"/> stuffing box	<input type="checkbox"/> single mechanical seal
	<input type="checkbox"/> double mechanical seal	<input type="checkbox"/> other: .....
Speed control	<input type="checkbox"/> locally, handwheel	<input type="checkbox"/> remote controlled
	<input type="checkbox"/> frequency controller	
Electric data	..... -phase .....	V .....
		Hz <input type="checkbox"/> neutral
Design according to	<input type="checkbox"/> GMP	<input type="checkbox"/> CIP
	<input type="checkbox"/> SIP	<input type="checkbox"/> FM
	<input type="checkbox"/> ATEX: EEx-type: .....	other .....
	safety-zone: .....	temp.-class: .....

**3 Scope of Quotation**

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> column + internals   | <input type="checkbox"/> Mixer-Settler     | <input type="checkbox"/> drive unit                 |
| <input type="checkbox"/> supporting structure   | <input type="checkbox"/> erection          | <input type="checkbox"/> piping                     |
| <input type="checkbox"/> pumps  | <input type="checkbox"/> fittings          | <input type="checkbox"/> basic / detail engineering |
| <input type="checkbox"/> turn-key installation  | <input type="checkbox"/> installation only | <input type="checkbox"/> other: .....               |
| <input type="checkbox"/> technical assistance for process design / installation / commissioning / ..... |  |   |

**4 Annotations**

Space for your annotations, wishes or questions:

Try to answer this questionnaire as precise as possible so that we can provide a suitable offer to you. In case you have any questions or problems, do not hesitate to contact us. We discuss you with pleasure!