

**CHECK LIST: Extraction Systems General**

<b>Title of project</b>	
<b>Project Type (New Construction/ Revamp/Expansion/Upgrade, etc)</b>	
<b>Company Name</b>	
<b>Customer Contact Name / Function</b>	
<b>Contact Data</b>	
<b>Plant Location</b>	
<b>Local DD Project No.</b>	
<b>DDMZ Proposal No.</b>	
<b>Requested date for Proposal</b>	
<b>Prepared By</b>	MP/Wd/LAP/TNP
<b>Date</b>	

**1 Feed**

Composition / Medium	Unit	Concentration / Data
<i>Description of feed: origin/source (e.g. short description of process, or attach PFD, Mat Bal if available)</i>		
Flow rate		
Operating hours	h/p.a.	
Pressure		
Temperature		
<b>Compositions to be specified (also impurities)</b>		
	wt-%	
	wt-%	
	wt-%	
	wt-%	
	wt-%	
	wt-%	
	wt-%	

## 2 Requested Outlet Flows

Solute Concentration/ Extract	Unit	Concentration / Data
<i>Description: (e.g. conc. SA)</i>		
	wt-%	
	wt-%	
	wt-%	
<b>Other impurities</b>	wt-%	
<b>Pressure</b>		
<b>Temperature</b>		

Solute Concentration/ Raffinate	Unit	Concentration / Data
<i>Description:</i>		
	wt-%	
	wt-%	
	wt-%	
<b>Other impurities</b>	wt-%	
<b>Pressure</b>		
<b>Temperature</b>		

### 3 Extraction Details

System information	Data
<i>Preferred Solvent (if known)</i>	
<i>Is solvent present on site? (Yes/No) Explain:</i>	
<i>Equilibrium distribution coefficient (if known)</i>	
<i>Interfacial tension (if known)</i>	
<i>Do you have previous experience with this application (Yes/No) Explain:</i>	
<i>Are there suspended solids? (Yes/No) If Yes: weight % &amp; Size</i>	

*If a lab shake test has been performed,  
how many separation stages are required  
and what is the recommended separation  
time?*

#### 4 Available Utilities

Utility	Unit	Data
<i>Steam 1</i> Pressure Temperature Cost		
<i>Steam 2</i> Pressure Temperature Cost		
<i>Cooling Water</i> Inlet Temperature Outlet Temperature Pressure Cost		
<i>Chilled Water</i> Inlet Temperature Outlet Temperature Pressure Cost		
<i>Electrical Energy</i> Frequency Voltage Cost	Hz Volts	
<i>Thermal Fluid</i> Temperature Pressure Cost		

## 5 Scope of Supply / Miscellaneous

Further details / questions	Answer
Scope of supply beside key equipment?	
Stand-by pumps?	
Technical standards for pressure vessel (ASME, AD2000, DGRL, PED); European standards are accepted?	
Field instruments only or DCS / PCS to be included? Scope of supply?	
Commercial questions	Answer
Purpose of the proposal: - Estimate, feasibility study - Budget - Fix and firm	
Status of project?  Approval / order to be expected when?	
Total budget on customer side?	
Project time schedule: Start-up expected date	
Engineering firm or EPC contractor involved?	
Delivery terms (INCOTERMS, e.g. CFR, CPT, CPI), named national or international seaport	
Reference plant visit to be scheduled?	
Current or past experience (R&D to production) with desired process. If yes, please provide details	

**6 Remarks**

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Please return questionnaire to De Dietrich Process Systems, Inc.

Attn: Lennis Perez

At [lennis.perez@ddpsinc.com](mailto:lennis.perez@ddpsinc.com)

Or call 908-317-8870

Thank you.

De Dietrich Process Systems Inc. USA

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