TOTAL SYSTEMS INTERNATIONAL, LLC

Total Systems International LLC

1. Send To:

PROPOSAL REQUEST FORM

Sales@TSI-LLC.us

Number of Pages:

Date Submitted:

		1256 Bretmoor W San Jose, CA 951 USA	•		Phone: 1-408-99 Fax: 1-408-99			
2. Project N Current Sit							New Request	Revision
Desired Si	tuation:							
Market:AerospaceAquaticsAutomotiveChemical/CP		Other: Commercial Dyes/Pigments Food/Beverage Laundry	Leachate Medical/Lab Metal Fab/Finish Microelectronics		Mining Municipal Water Municipal Waste Petrochem/HPI	000	Pharmaceutical Power/Cogen Primary Metals Pulp & Paper	Remediation Sweeteners Textiles Transportation
5. End User Company P. O. Box Address City, State, Zip,				 	Contact Title Tel/VM Fax Email			
Company P. O. Box Address City, State, Zip, Responsibility:			□ Procurement	- - - -	Contact Title Tel/VM Fax E-mail Evaluation		Project Mgr.	Bidding for job
7. Contractor Company P. O. Box Address City, State, Zip,					Contact Title Tel/VM Fax E-mail			
Send proposal to Address proposa		End User End User			Consultant/AE Consultant/AE			Contractor Contractor

8. Commercial Qualification:					Estimate each rating on a scale of 1-10						
Decision Maker Who is the ultim					nrce, enter 10) Number of bi			and date)	A/E Firm Contractor d documented, enter 10)		
	Zess mamerane	0	New Construction Reduce Waste		Replace/Upgrade Scarcity of Water		Reduce Costs Regulatory Req'ts	-	Increase Output Corporate Edict		Improve Quality
9.	Timing: Response due	date	:		Funding by (date (Enter date requ		d by the <u>customer</u>)	-	Estimated book Shipment by (dat		:
10.	Commercial F	Respo	onse:	_		(che	eck all that are req	uired	for this request)		
	neral category (cho Capital Equip.	oose 1	the best overall des Equip. + Install Duties/Taxes		ion) Design/Build Other:		Installation	_	StartUp Service		Serv. Contract
Ger	Medium effort b Maximum effort	or co or co oudge t (tigh er, sui	e (choose one) oncept only ot, basic scope nt) budget table for contract		Block flow/PFD	ns or	documents require	ation	om business centers a, description of po P&ID		
12.	TSI Technolog Bid exactly to sp	_			Bid closest TSI s	tand	ard design		Bid modified star	ndar	d design
13.	General Com	ment	ts:								

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14. Process Water Data:

A. Quantity of Water Required Average product flow rate & units			Peak product flow ra	te & units		Other potential flow conditions			
Required days/week:	Required days/week:			Maximum hours/day:			Expected hours/day:		
Redundancy: Minimum run length:	•		2nd train for regenera Maximum regen time	_			M		
B. Feed Water Summ	ary (ple	ase attach a complete	water analysis for ic	n ex	schange and RO proje	ctions)		
						Other:			
Temp. min/max, °F:			Turbidity / susp. solids	:		SDI range (yearly):		
What pre-treatment te	chnologies or chemi	ical	s are being used?	-					
C. Product Quality Ro	equired								
Industry Spec:	Boiler feedwater, o	pei	rating pressure (psi):			USP / CAP / WFI / A	AAMI (circle one)		
	Electronics, IC or d		ice linewidth (μm):			ASTM spec. E -	<u> </u>		
	Conductivity (μS)			Resistivity (M Ω)	>		pH		
	Silica (ppm) < <			_		particles per ml	µm or larger		
	Hardness (ppm) <			11 11 /					
	CO_2 or O_2 (ppm)	<		Bacteria, CFU/ml	<				
specific ions / other	guarantee point		units	specific ions / other	r	guarantee point	units		
<					<				
<					<				
<					<				
A. Quantity of Water/Wastewater to be T Average product flow rate & units			Peak product flow rate & units			Other potential flow conditions			
Required days/week:			Maximum hours/day	 :		Expected hours/day:			
Sizing or redundancy			•			1			
B. Wastewater Chara	cteristics and Red	qui	irements			Additional analysis a	attached		
Parameter	Influent mg/l		Req'd effluent	Parameter		Influent mg/l	Req'd effluent		
Temp (F/C)				SDI					
Turbidity				D.O.					
рН				Cd					
BOD				Cu					
COD				Cr					
TOC				Pb					
Oil/Grease				Ni					
TSS				Fe					
Total P									
TKN									
NH ₄ -N			-						
Alkalinity									
Final Wastewater Disp			POTW (sewer) Dther:	NPDES (direct)		Recycle/Reuse			

16.	Site Limitations an	d Conditions:				
	Space Limitations?	If so, list the	length available	width available	height available	
		space available:		X	X	<u></u>
	Access Limitations?	If so, describe:				
	(attach a sketch if pos	sible)				
	Utility Limitations?	List any typical serv	rices that are not avail	able or may affect th	e equipment design	
				-		
	(typical services such	as single and 3 phase	power, pressurized for	eedwater, instrumen	t air, steam / hot water	. cooling water.
					ndling facilities should	-
	Climate Limitations?	11			indoors	outdoors
		•			rage or insulation, salt	air. etc.)
						,,
п	Other Limitations?	If so, check or	site (is/will be) und	der construction	union site	non-union
_	Other Elimeations:	,	site (is/will be) ull	der construction	union site	ion-umon
		describe here:				
17.	Flow Schematic(s):	: (J	ndicate current and de	sired situation: attac	h sheets if necessary)	