

Survey of Utilities Requirement for Submission of Proposal

Date (DD/MM/YY): _____

PART 1 - CLIENT & PROJECT PROFILE

A) Company Information

Company Name		
Address		
Contact Person		
Telephone/Facsimile		
Email Address (if any)		

B) Project Data

Proposed Manufacturing Site	
Land Size Requirement	
Commencement Date of Operation	
Manufacturing Operating Hours (in a year)	
Building gross / net area	

C) Project Timetable

Commence of Construction (DD/MM/YY)	
Mechanical Completion (DD/MM/YY)	
Utilities Service Supply (DD/MM/YY)	
Commercial Operation (DD/MM/YY)	

D) Project Investment

	Amount('000)
Total Investment	US\$
Registered Capital	US\$

E) Products

Product Name	Phase / Date	Quantity (Tons per day)	Market

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PART 2 - UTILITIES REQUIREMENT

A) Requirement of Various Water (Please Attach Their Detailed Specifications if Available)

	Quantity	Pressure (If applicable)	Temperature (If applicable)	Quality (Please specify special requirements)
1. Cooling water	<input type="text"/> m ³ /hr	<input type="text"/> barg	<input type="text"/> °C	
2. Chilled water	<input type="text"/> m ³ /hr	<input type="text"/> barg	<input type="text"/> °C	
3. Demineralised water	<input type="text"/> m ³ /hr	<input type="text"/> barg	<input type="text"/> °C	
4. Fire fighting water	<input type="text"/> m ³ /hr	<input type="text"/> barg	<input type="text"/> °C	
5. Process water	<input type="text"/> m ³ /hr	<input type="text"/> barg	<input type="text"/> °C	
7. Drinking water	<input type="text"/> m ³ /hr	<input type="text"/> barg	<input type="text"/> °C	
8. Other Water	<input type="text"/> m ³ /hr	<input type="text"/> barg	<input type="text"/> °C	
9. Steam Water	<input type="text"/> m ³ /hr	<input type="text"/> barg	<input type="text"/> °C	

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PART 3 - REQUIREMENT FOR PROCESS WASTEWATER TREATMENT

Type of Effluent	Physical & Chemical Properties & Chemical Composition & %	Estimated Quantity / Concentration	Unit
Effluent # (Combined bath)	Flow Rate		m ³ /h
Description: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	Temperature	_____	degC
	pH	_____	
	Alkalinity	_____	mg/L
	BOD	_____	mg/L
	COD	_____	mg/L
	Suspended Solid	_____	mg/L
	Oil & grease	_____	mg/L
	NH ₃ -N	_____	mg/L
	NO ₃ -N+NO ₂ -N	_____	mg/L
	Total N	_____	mg/L
	Total Phosphorous	_____	mg/L
	Sulphide (S ²⁻)	_____	mg/L
	Sulphate (SO ₄)	_____	mg/L
	Halogen (Cl, F, etc)	_____	mg/L
	Heavy Metal (if any)	_____	mg/L
Total Dissolved Solids	_____	mg/L	
	Major constituent SO ₄ because, <u>they are using Glauber salt in dyeing process</u>		
Effluent # ()	Flow Rate		m ³ /h
Description: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	Temperature	_____	degC
	pH	_____	
	Alkalinity	_____	mg/L
	BOD	_____	mg/L
	COD	_____	mg/L
	Suspended Solid	_____	mg/L
	Oil & grease	_____	mg/L
	NH ₃ -N	_____	mg/L
	NO ₃ -N+NO ₂ -N	_____	mg/L
	Total N	_____	mg/L
	Total Phosphorous	_____	mg/L
	Sulphide (S ²⁻)	_____	mg/L
	Sulphate (SO ₄)	_____	mg/L
	Halogen (Cl, F, etc)	_____	mg/L
	Heavy Metal (if any)	_____	mg/L
Total Dissolved Solids	_____	mg/L	

(Please use reproduced sheet if there are more than two type of wastewater)

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PART 4 - REQUIREMENT FOR HAZARDOUS WASTE TREATMENT/DISPOSAL

A) Solid Waste

Type of Stream	Physical & Chemical Properties & Chemical Composition & %	Estimated Quantity (tons/day)
Stream No. 1.		