

<b>BACCOMBER (Cooling Tower Water Treatment) SURVEY FORM</b>				Example Data for Reference
Date				
Project /Client				
Cooling Tower Details		Please fill below:		
Type of process cooling	Process Plant			Fertilizer plant
Number of Cooling Towers and Capacity	Refrigeration Ton (RT) or Flowrate in m <sup>3</sup> /h			1 x 450RT, 2 x 300RT (300m <sup>3</sup> /hr, 200m <sup>3</sup> /hr)
CT sump / reservoir material	Metallic or Non-metallic/Concrete based			FRP
Additional sump dimensions (if any)	L (m) x W (m) x H (m)			2m x 3m x 2m
Maximum water level in the addn'l sump (if any)	H (m)			1.5 m
Presence of metallic structure in the basin	Yes/No			
Temperature difference between incoming and outgoing water at the cooling tower	°C			5°C
Existing Problem				
Treatment type	Chemical/Non-chemical			Chemical
Scaling	Yes/No			Yes
Corrosion	Yes/No			Yes
Microbial Growth	Yes/No			Yes
Foaming	Yes/No			Yes
Water Quality		MAKE-UP WATER	COOLING TOWER	
Type of makeup water	City Water/ Bore Water, etc.		-	City Water/Tube Well
pH value*				6-9
Conductivity*	µS/cm			100-150 / 1500-2500
Calcium Hardness as CaCO <sub>3</sub> *	mg/L or ppm			30-50 / 500-800
Total Alkalinity as CaCO <sub>3</sub> *	mg/L or ppm			120 / 200-500
Chloride* (Cl <sup>-</sup> )	mg/L or ppm			10-20 / 200-500
Dissolved Silica*	mg/L or ppm			<5 / <200
Fe ion	mg/L or ppm			<1
Phosphate (PO <sub>4</sub> <sup>3-</sup> )	mg/L or ppm			
COD/BOD	mg/L	-		
Cycle of concentration	COC	-		3-5
Other Information				
Heat Exchanger Application	Air-conditioning/Process Cooling /Others			Process cooling
Heat Exchanger Type	Shell and tube/Plate and Frame			Shell and tube
Drawings/Site Photos	P&ID/Process Flow Diagram/Site Photos/Basin layout drawings etc.			Yes/No