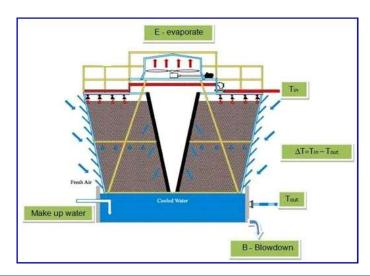
C.Q.M.

K.A.N.- Japan Corporation

CONSOLIDATED REPORT OF TOTAL SAVINGS FROM SRS INSTALLATION

CUSTOMER: INSTALLATION SITE: COOLING TOWER SIZE (TR) YEAR OF INSTALLATION

Sanribu Munakata Shopping mall 600 2005



CALCULATION OF EVAPORATION FLOW RATE ACO	RDING TO:	mc _P ΔT= E λ
m - Cooling water flow in the system [Ton / hr]	379	Ton/hr
TR - Cooling tower capacity [TR]	600	TR
Cp - Specific heat - [Ton cal / Ton water oc]	1	Ton cal / Ton water °C
Ti - inlet cooling water temp [oc]	26.1	°C
To -outlet cooling water temp [oc]	20.6	°C
?T - ?T = Ti - To	5.5	
Cooling tower conductivity withuot CQM	1,357	μs
Cooling tower conductivity with CQM	4500	µs
Makeup water conductivity µs	359	μs
λ latent heat evaporating water temp. [Ton Cal / Ton w	540	Ton cal / Ton water °C
E - Evaporating water [Ton / hr]	3.86	Ton/hr

SAVINGS IN DRAINAGE FLOW RATE:			B = E/ (C-1)
	BEF. SRS	WITH SRS	SAVINGS
B - Drainage flow rate	1.39	0.34	1.06 Ton/hr
E - Evaporation flow rate	3.86	3.86	Ton/hr
C - Concentration cycle	3.78	12.52	

CALCULATION OF SAVINGS:			
Cooling tower working hours per year	4320	hr / yr	
Average utilization capacity	75%	usd / m3	
Cost of one cubic water	1.44	usd / m3	
Cost of chemical treatment to one cubic water	0.68	usd / m3	
Water savings from drainage	4,915	usd / m3	
Chemical treatment savings	11,558	usd / m3	
Water savings from re-utilization	1,561	usd	
TOTAL SAVINGS	18,035	usd/yr	