

COOLING WATER TREATMENT CALCULATIONS									
PHYSICAL PARAMETERS									
CIR. RATE	M3/hr.	A	7700	FILL DATA					
ΔT	deg.C	B	8	FILL DATA					
COC	NUMBER	C	2	FILL DATA					
COC-1			1	FILL DATA					
LEAK	M3/hr.	D	1	FILL DATA					
TOTAL HOLD UP VOL. M3		E	2450	FILL DATA					
1	Evaporation Rate M3/hr.	A X B /540	110	RESULTS					
2	Make Up Rate M3/hr.	E X COC /COC-1	220						
3	Blow Down M3/hr.	M /COC	110						
4	Drift Loss M3/hr.	CR X 0.1%	7.7						
5	Wastage/Day m3/d	(BD+DL+Leak)x24	2848.8						
6	Wastage/Month	(BD+DL+Leak)x24x30	85464						
IMPORTANT NOTE									
TO FILL do not fill									
COLOURED INPUT calculations									
DRINKING WATER LINES TREATMENT BY BLENDED SILICATE FOR HOTELS AND MALLS Blended Silicate Tre									
ANTICORROSIIVE/ANTISCALANT									
A	Total Hold up	M3	5	NOTE	TO FILL	input			TREATMENT ON HOLD UP
B	INITIAL	Dose	25	ppm	0.125	Liters/dose			one time cost 12.5 Rs/USD
Click here									
C	Make up per Day	M3/Day	10						MAKE UP QUANTITY
									300 M3/Month
									3600 M3/Year
D	Treatment	PPM BASIS	30						TREATMENT ON HOLD UP
									regular basis
E	Rate per Liter/KGRs./USD		100						
									0.3 LIT/D
									9 LIT/M
									108 LIT/Y
									Treatment per Month Rs. 900 -RS/USD
Total Treatment Cost per Year									
	Regular Treatment Cost per Year	-RS/USD	10800	-RS/USD					TOTAL COST PER YEAR
	ON HOLD UP	-RS/USD	12.5						
	Total Treatment Cost per Year	-RS/USD	10812.5						
DRINKING WATER OXYDISING BIOCIDES TREATMENT (DISTRIBUTION/SUPPLY LINES IN HOTELS/MALLS)									
BY CL2/O3/CLO2/NaOCL/H2O2/KMnO4/HOBr/ET									
NOTE TO FILL STARTING DOSE ON HOLD UP									
NOTE COLOURET RESULTS									
1	HOLD UP VOLUM	M3	5						
2									50 % PURITY BASIS
3	STARTING DOSE	PPM	50	100% BASI	50	PPM			100 PPM
FOR INITIAL TREATMENT									
4	QUANTITY REQUIRED		0.25	LITERS					0.5 LITERS
	RATE	LATE PER LITER / KG ON 100% BASIS	RS/US	100	25	RS./USD			50 INITIAL COST
5	TREATMENT PPM		40						REGULAR DOSE ON MAKE UP
									FOR PURIT % 50
									0.5 M3/Day 0.04
									0.02 LIT/DAY 2 RS/USD 4
									15 M3/Month
									0.6 LIT/MONTH 60 RS/USD 120
									180 M3/Year
									7.2 LITS/YEAR 720 RS/USD 1440
									25 50
									TOTAL YEARLY COST 745 RS/USD 1490
BY S.C.BHARADWAJ									