	BOILER	SYSTEM	CHEMICAL	TREATMENTS	
	1 BOILER		LPB/Recovery	MPB	HPB
	1 PRESS. Kg/cm2		<20	20 - 60	>60
	2 Steam Temp.Deg.C.				540
	3 Steaming Capacity M3/hr	M3/hr			
	4 MAKE UP WATER QUALITY		DM/SOFT/ R.O.	DM/SOFT	DMW.
	5 Boiler Hold up	M3			
	6 Cycles of Operation		2 to 3	3 to 4	5
	7 %Blow Down of steaming rate		<10%	<5%	<3%
	8 Steam Silica	As SiO2	<0.020	<0.020	<0.020
A.	TREATMENT QUANTITY	BASEED ON BOILER SYSTEM HOLD UPS	BLOW	DOWNS	& LEAKS.
	1 pH (boiler)		10.5-11.5	10 TO11	9.2- 9.5-10
	2 pH booster	Caustic soda ppm	01/10/15	10	5
	pH (feed)	Cu based/Iron based	8.5 to 9.2/9.5	8.5 to 9.2/9.5	8.5 to 9.2
	3 ANTISCALANT ANTI CORROSIVE	As PO4 ppm	01/10/30	<20	<10
	PHOSPHATE + PHOSPHONATE based		20-40	15-30	05/01/20
	4 DISPERSANT	ppm	10 to20	2 to 5	.
	5 OXYGEN SCAVAN-GER	DO2 ppm residual left	0.1	0.02	0.01
	SULPHITE BASED	Na2SO3 PPM	30-50	20-30	CATALISED
	6 SILICA IN BOILER	As SiO2 PPM	5	2	0.5
	7 NaNO3/M alkalinity	as Ratio	>2.4	>2.4	
B.	TREATMENT QUANTITY TOTAL MAKE UP	BASEED ON BOILER and NON RETURN of CONDENSATE	BLOW	DOWNS	& LEAKS.
	1 ANTI CORROSIVE				
	AMMONIA	ppm as NH4OH	10 to15	5-1o	
	DEHA	ppm as DEHA	3 to5	2 to5	3 to 5
	MORPHOLINE	ppm			1 to 3
	2 OXYGEN SCAVAN-GER after Deaeration				3 to 5
	HYDRAZINE Residual	ppm as N2H4	0.1 -1.0	0.1 -0.5	0.05 -0.3
	DEHA	ppm as DEHA			<1.0
C.	FILMING AMINE + DISPERSANT	ppm as ODA.		5	5