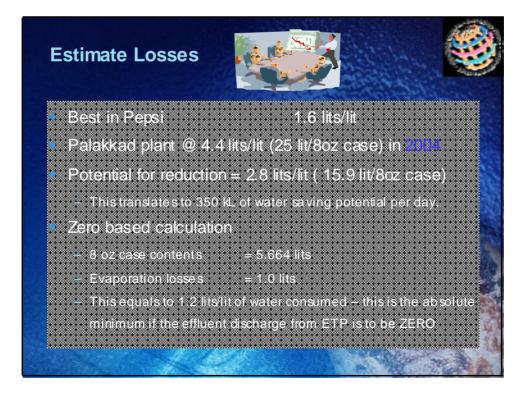


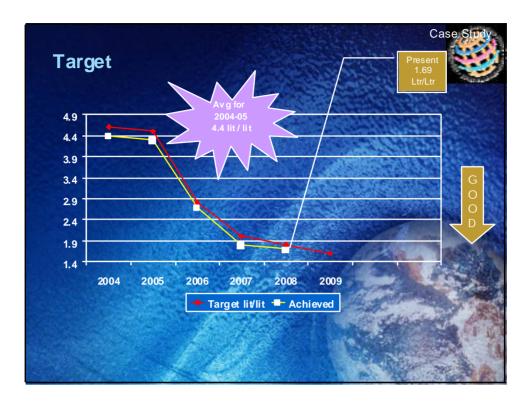


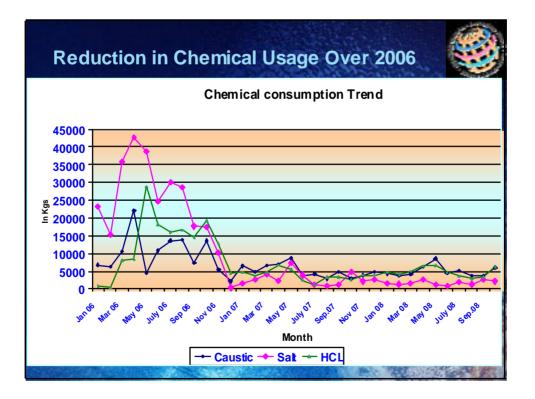


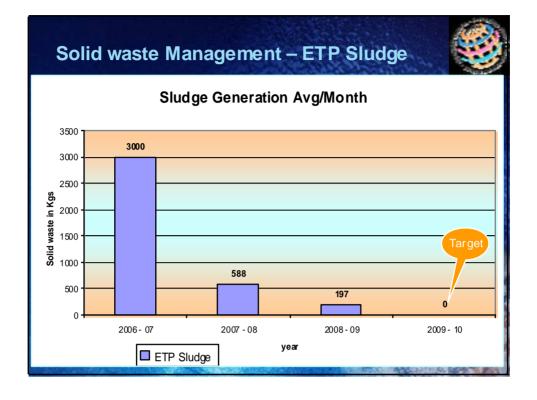


Approach		TPMWAY	\rightarrow	
 Assess curren Estimate Loss Take Loss Rec Identify Losses Identify Projec 	es duction Tai s		PLAN	
 Formation of T Deploy 4R Too Implement Sol Check Results Plan further ac 	ol utions	ΛC	CHEC	DO

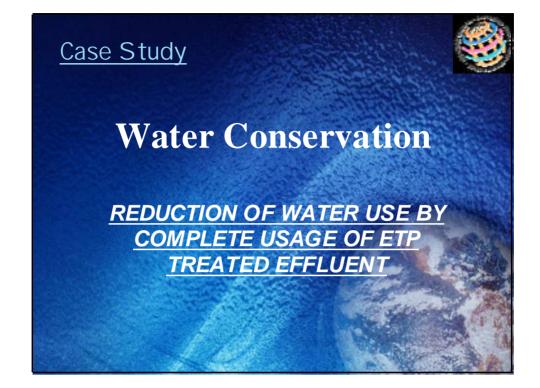


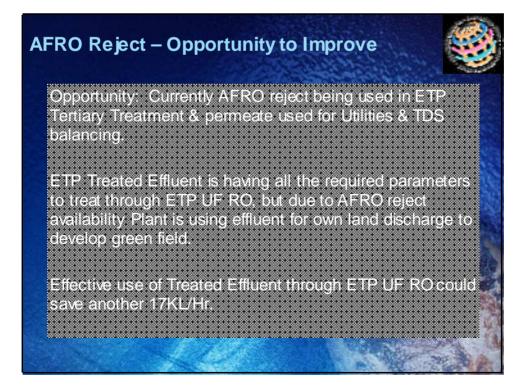


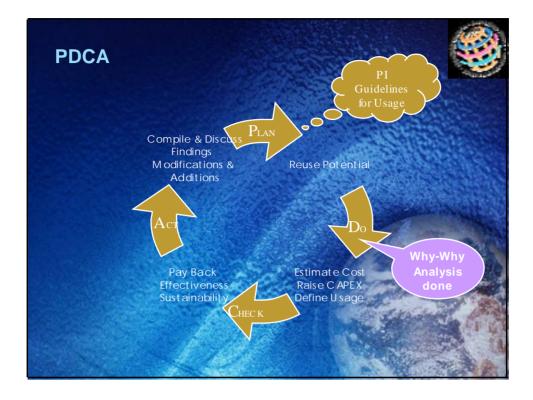




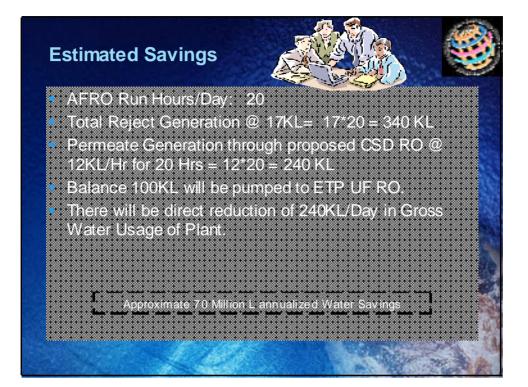




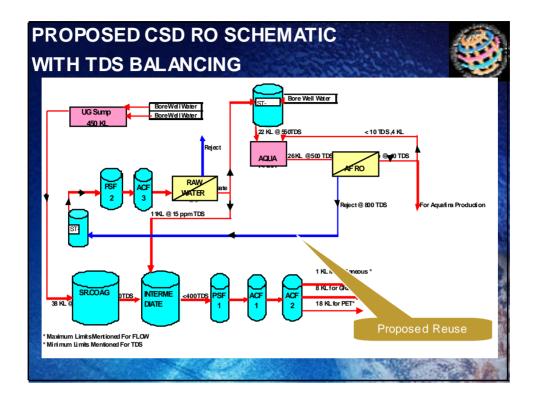




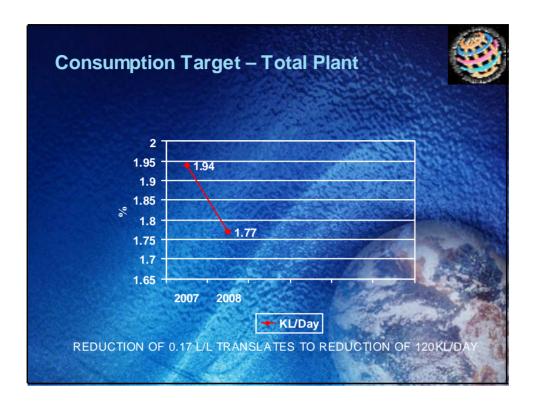
Ana	lysis for I	Reuse Po	otential			
AF	RO Reject is I	laving more	or less same	Qualities of	Raw Wa	ter
du	e to permeate	re-circulatio	h			
• Ac	lditional Genei	ation of pem	neate throug	h new CSD R	O could	save
	other 12 KL/H RO	out of 17KL	. which is no	w being pum	oed to E1	P
	posed CSD F	O can be ab	le to treat th	is Reject		
•••••••	is phenomenc	••••••	••••••••••		d reducti	on of
	S through Ne	• • • • • • • • • • • • • • • • • • • •				
						AR



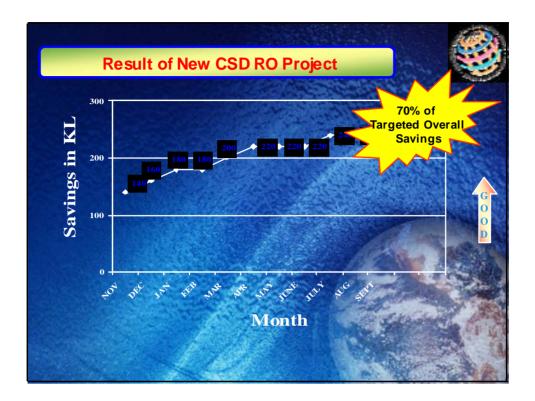
What	Where	When	Who	Why	How?
Reduce Usage of AFRO Reject in ETP UFRO	ETP UFRO feed	Daily	QC Exec/ETP associate	This activity propmts complete recycle of Tre ated Eff luent.	Reuse AFRO Reject in the process only.
Reuse of AFRO Reject for process	WTP & Production processes	During AFRO Run	QC Exec/WTP associate	To optimize the water consumptio n of the Plant	Propose for New RO in CSD WTP to recycle AFRO reject.



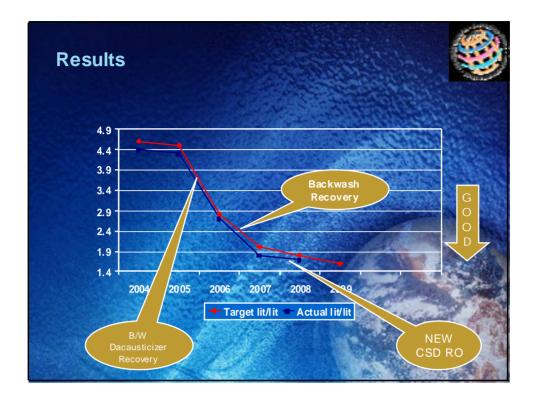




Sr	Actions	Benefits	Cost Rs'000	Date
1	Workout TDS estimations pre & exit RO and proposed use.	Proper usag e i dentification for Reject Stream & Design consideration		Wk – 1
2	Estimate Net Benefit to the Plant and estimated water us age ratio.	Esti mati ng Pay Back & Resource Sustai nability		Wk – 2
3	Provide 50KL Storage tanks for both feed & permeate.	Storag e AFRO reject in case any stoppages in the new C SD RO.	450	Wk – 3
4	Re-direct Reject line to CSD R O Feed Tank.	Enable AFR O storag e	100	Wk – 4
5	Connect CSD R O permeate to Storage Tank	Per meate us age opti miz ati on based on the requirement	100	Wk – 5









Way Forward





•Identifying further opportunities to save water through process effectiveness.

•Redesign & Rethink Strategy added to 4R (No other stream available to deploy 4R)

•Reduction of Effluent by adopting latest technologies. (Electro Chlorinator)

•Optimizing total recovery from the existing water recovery system s.

•Consulting Experts to generate ideas on water conservation

