





### INLET WATER QUALITY: PROVIDE BY COSTUMER

THE REAL PROPERTY.	No	Parameter	Value		
	1.	Flow rate	7000 MTD		
	2.	рН	5.5-10.4		
	3.	Temperature	90 C		
	4.	TDS	400 (Spec < 1900 ppm)		
S.	5.	TSS	50 (Spec < 1900 ppm)		
	6.	TOC	60 (Spec < 760 ppm)		
	7.	COD	200 ppm		
	8.	Sulfate	40 (Spec < 700 ppm)		
	9.	Benzene	800 ppm (Spec < 0.056 ppm)		
	10.	Toluene	450 ppm (Spec < 0.028 ppm)		
	11.	Ethyl Benzene	600 ppm (Spec < 0.142 ppm)		
	12.	Styrene	500 ppm (Spec < 0.1 ppm)		
	13.	EDC	< 0.2 ppm		
	14.	Oil & Grease	100-1000 ppm (<114 after vacuuming)		



# **OUTLET PARAMETERS:**

	Pre-treatment Standards (ug/l)		
Parameter	Maximum for any One day	Maximum for Monthly Average	
Benzene	134	57	
Ethyl Benzene	380	142	
Toluene	74	28	

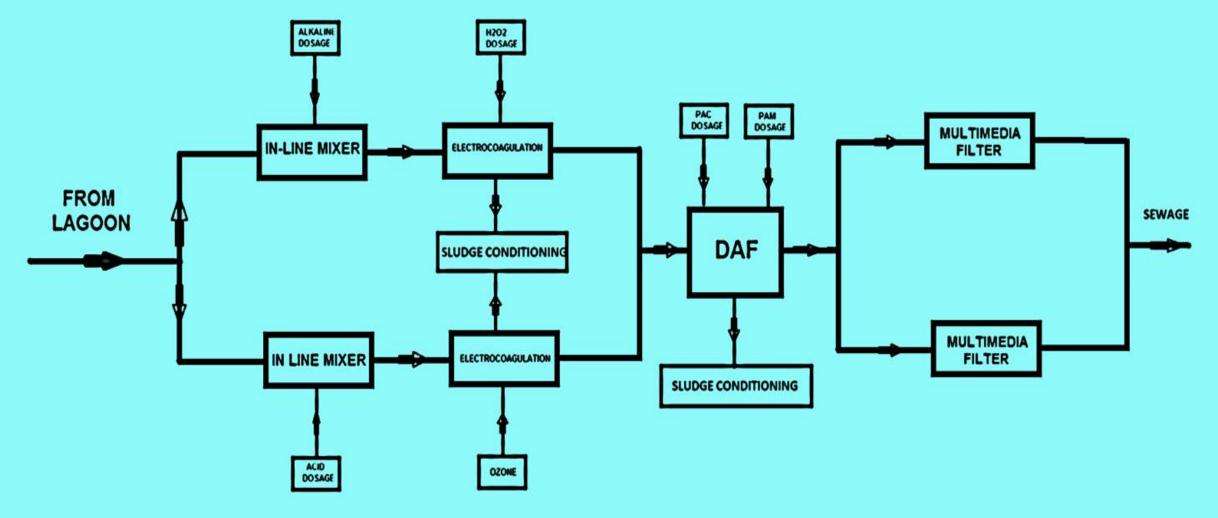


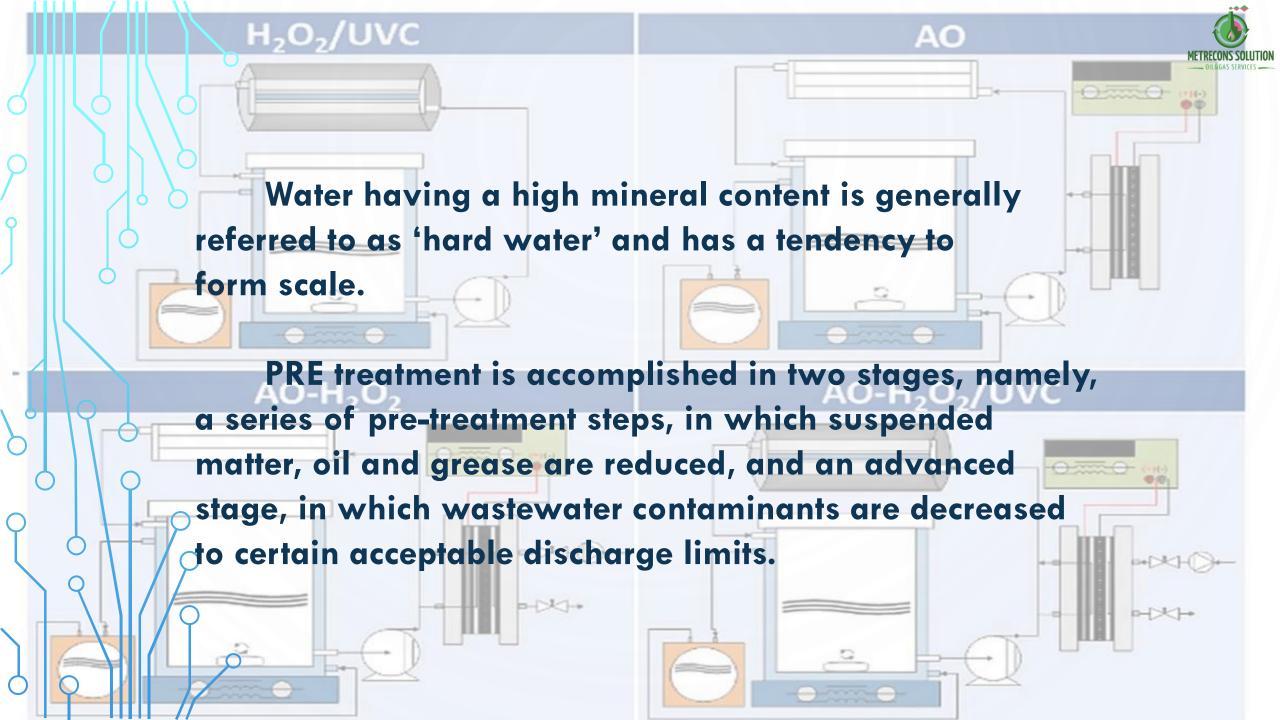
## **OUTLET PARAMETERS:**

PARAMETER	UNITS	JUBAIL Maximum Limits	Yanbu Maximum Limit as Grab	YANBU Maximum 24h Average
рН	pH/Units	5-11	5-11	5-9
Temperature	С	60	-	50
Total Dissolved Solids (TDS)	mg/l	2000	2500	2500
Total Suspended Solids (TSS)	mg/l	2000	-	500
Total Organic Carbon (TOC)	mg/l	800	-	400
COD	mg/l	-	1800	1500
Sulfate	mg/l	800	300	1 <i>5</i> 0
Oil and Grease	mg/l	120	200	100
Styrene				
EDC				





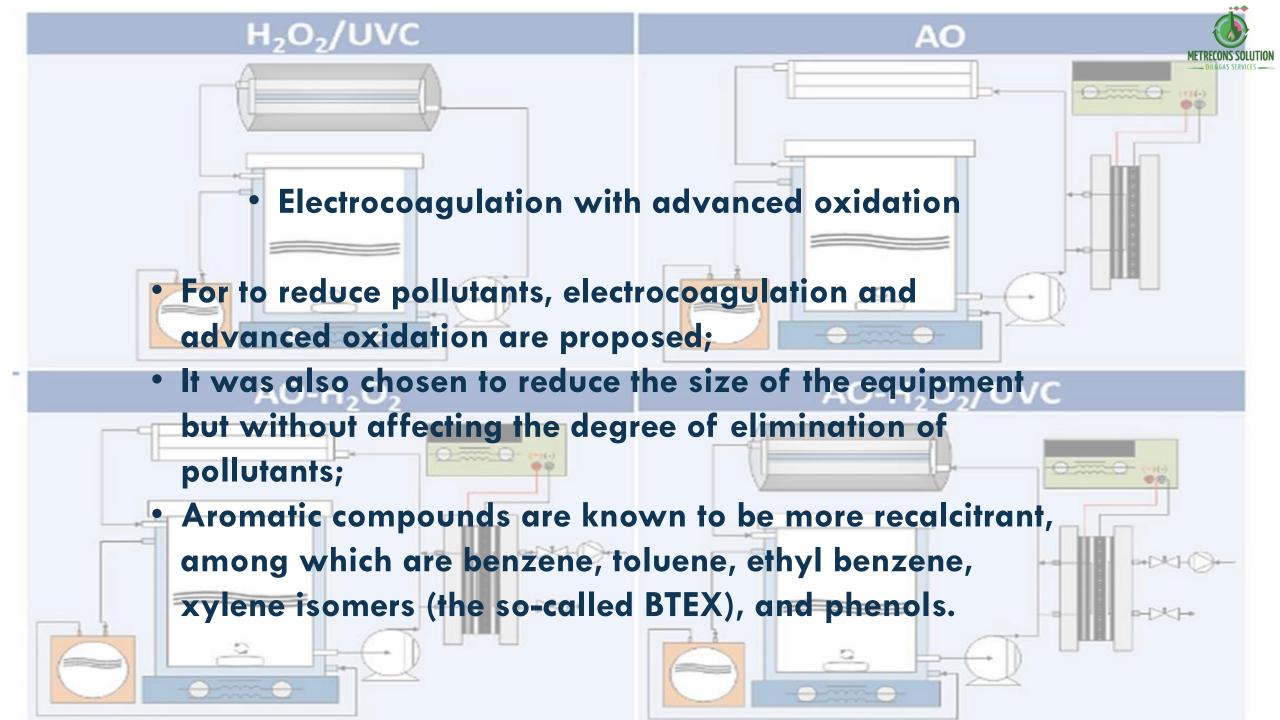






#### pH ADJUSMENT

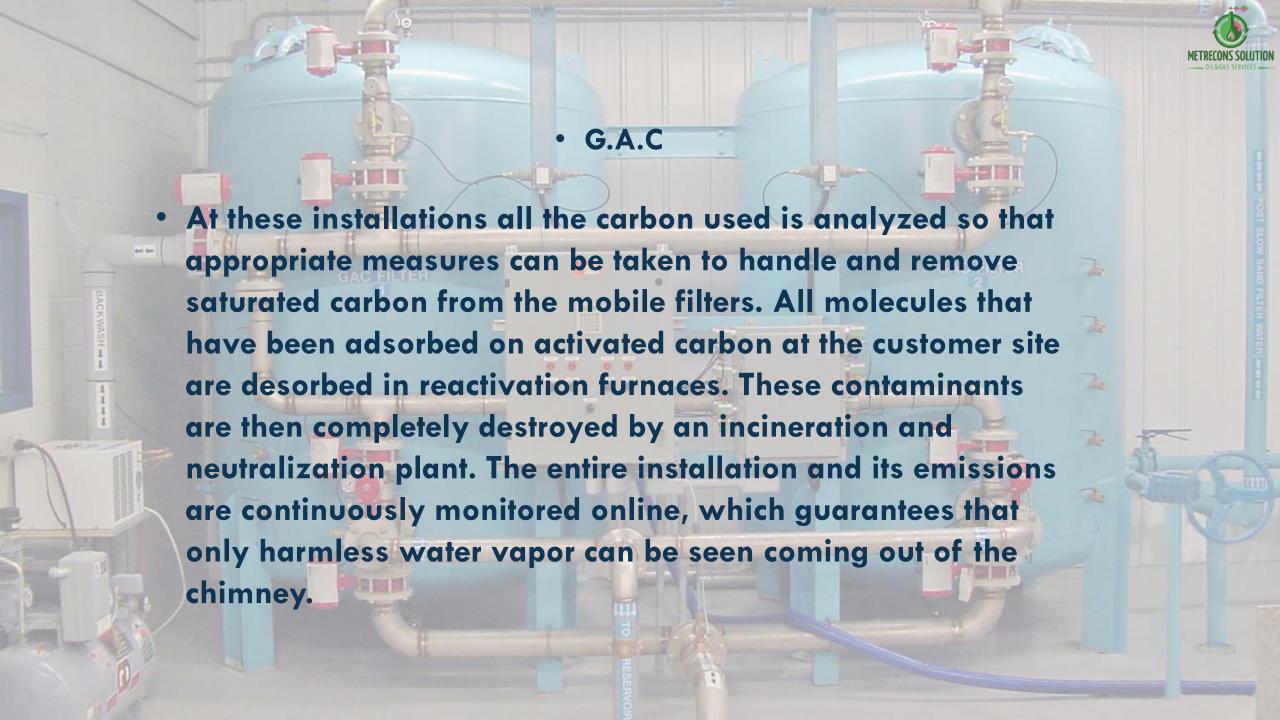
- In order to obtain a better yield in the elimination of the compounds, the pH will be corrected. For this, alkaline dosing systems and acid dosing systems will be provided;
- These will be controlled with the help of the programmable automaton, and will be followed: optimization of the dosage and possible foaming.





#### · D.A.F

- DAF Dissolved Air Flotation System is an excellent high turbid wastewater treatment system that clarifies wastewater (or other waters) by the removal of color, colloids, algae, oil, fibers, turbidity and other suspended solids;
- After advanced electrocoagulation and oxidation the precipitated sludge that has not decanted will be separated with the help of DAF thus preparing the water to be treated with the help of multimedia filters with activated carbon bed.





#### SCADA and Remote Control

State Laboratory 1

- 1. Date log and date interpretation;
- 2. Remote connection;
- 3. Possibility of distance diagnosis thus facilitating servicing;
- 4. Warning system in case of damage or exceeding exhaust limits.



MAX.GR. 34.000 KG
74.960 LBS
4.720 KG
10.410 LBS
29.280 KG
64.550 LBS
CU. CAP. 67.9 CU.M.
2.400 CU.FT



- The station is mounted in a maritime container, air conditioned, double floor, stainless steel walls;
- When sizing the station, an availability of 90% was taken into account;
- Taking into account the sensitivity of the process, the equipment is available in 1A+1R form, fully automated.

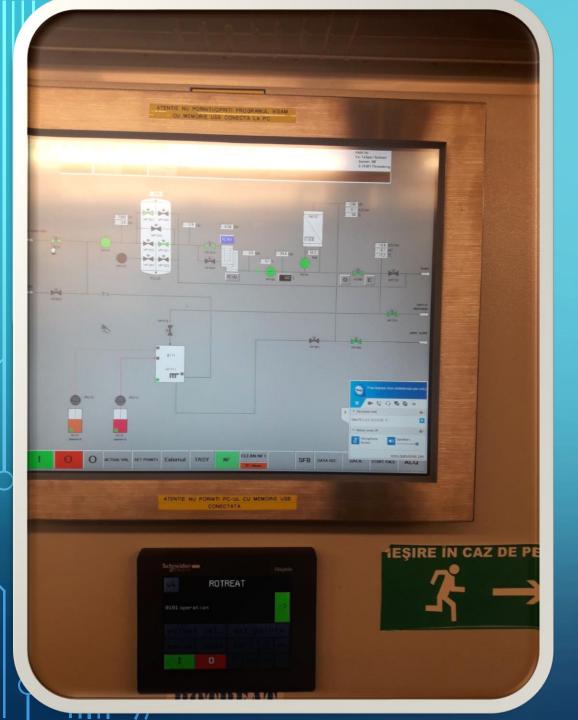




















## THANK YOU!

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