

Water Treatment Plant Design - Various Water Sources & Its Analysis										
Stream No.		Stream - 1	Stream - 2	Stream - 3	Stream - 4	Stream - 5	Stream - 6			
Types of Water Source*										
Flow	KLD									
List of Parameters:	UNIT									
рН										
Temperature (Deg C)	Deg C									
Color	CU									
Oil & Grease	mg/Liter									
Turbidity	NTU									
Bio Chemical Oxygen Demand (BOD)	mg/Liter									
Chemical Oxygen Demand (COD)	mg/Liter									
Total Organic Carbon (TOC)	mg/Liter									
Total Suspended Solids (TSS)	mg/Liter									
Conductivity	milli siemens / cm									
Total Dissolved Solids (TDS)	mg/Liter									
Total Solids (TS)	mg/Liter									
Total Hardness as CaCO <sub>3</sub>	mg/Liter									
Total Alkalinity as CaCO <sub>3</sub> (M-Alkalinity)	mg/Liter									
P-Alkalinity as CaCO3	mg/Liter									
Calcium (as Ca)	mg/Liter									
Calcium Hardness as CaCO <sub>3</sub>	mg/Liter									
	-									
Magnesium (as Mg)	mg/Liter									
Magnesium Hardness as CaCO <sub>3</sub>	mg/Liter									
Sodium (as Na)	mg/Liter									
Potassium (as K)	mg/Liter									
Chloride (as Cl)	mg/Liter									
Sulphate (as SO <sub>4)</sub>	mg/Liter									
Bicarbonate (as HCO3)	mg/Liter									
Carbonate (as CO3)	mg/Liter									
Phosphate	mg/Liter									
Nitrate	mg/Liter									
Nitrite	mg/Liter									
Ammonical Nitrogen (as NH <sub>3</sub> -N)	mg/Liter									
Total Kjeldahl Nitrogen (TKN)	mg/Liter									
Colloidal Silica	mg/Liter									
Reactive Silica (as SiO2)	mg/Liter									
Residual Chlorine	mg/Liter									
Acidity	%									
Total Fixed Solid (TFS)	mg/Liter									
Total Volatile Solid (TVS)	mg/Liter									
Phenolic Compound	mg/Liter									
PVA	mg/Liter									
Free CO2	mg/Liter									
Fluoride (as F)	mg/Liter									
Iron (as Fe)	mg/Liter									
Boron (as Br)	mg/Liter									
Sulfide	mg/Liter									
Aluminium (as Al)	mg/Liter									
Nickel (as Ni)	mg/Liter									
Hexa valent Chromium (as Cr <sup>+6</sup> )	mg/Liter									
Total Chromium	mg/Liter									
Copper (as Cu)	mg/Liter									
	ing/Liter			I		I	Ĺ			

Zinc (as Zn)	mg/Liter			
Lead (as Pb)	mg/Liter			
Cadmium (as Cd)	mg/Liter			
Arsenic (as As)	mg/Liter			
Mangenese (as Mn)	mg/Liter			
Microbial Impurities (Parameters):				
Coliform Bacteria	MPN/100 ml			
Endotoxin	EU/ml			
Escherichia Coli (E.Coli)	CFU/100 ml			
Faecal Streptococci & Staphylococcus	CFU/100 ml			
Pseudomonas - MPN	CFU/100 ml			
Salmonella SPS	CFU/100 ml			
Any other Bacteria (Gram -Ve & Enterobacterial SPS)	MPN/100 ml			

\* Specific Water Source Type - Like Surface Water, River Water, Canal Water, Ground Water, Borewell Water, Muncipal Water, Recycled Water, Sea Water, etc.

Additional Information: (any specific/additional information about any parameters):