INTRODUCTION: - Every real life system requires Energy for it's performance. Energy input may be in the form of heat. From where we shall get heat. From the heat for Energy input can be had traditionally heat for Energy input can be had the from the heat released by fuel during combustion from the heat released by fuel during combustion the Energy is released by oxidation of fuel Elemento such as carbon c, by oxidation of these Elemento with oxygen of seather of these Elemento with oxygen of control of these Elements with oxygen of control of these Elements with oxygen of control of these Elements but temperature gases. Huse high temperature high temperature gases. Huse high temperature for the source.

Af = Mass of fuel Who reaction with the amount of

Mass of fuel Molecular wt. of fuel x no of

Mass of fuel Molecular wt. of fuel x no of

moleo of fuel

fuel-Air Ratio: It is the inverse of Air fuel ratio can be fuel ratio . Theoretical air fuel ratio can be Estimated from stoichio metric combustion analysis for just complete combustion.

Equivalence Ratio :- It is the ratio of actual fuel air ratio fuel air ratio to the theoretical fuel air ratio for complete combustion. Fuel air mixture will be called Will be lean mixture when Equivalence ratio is less than unity while for Equivalence ratio value being greatery than unity the mixture will be rich mixture.

Theoretical Air's theoretical amount of air air refers to the minimum amount of air that is providing sufficient oxygen for complete that is providing sufficient oxygen for complete Combustion of fuel. Complete leambustion present in means complete reaction oxygen present in means Complete reaction oxygen present in the CO2, H2O Air C, H2, S & c resultings into CO2, H2O Air air as combustion products. SO2, N2 with air as combustion products. At the End of complete reaction there will be no free oxygen in the products. The Theoretical Air is also called "Stoichiometric Air"