

Data Collection Format for Boiler Performance Assessment

Technical specification of boiler

Boiler ID code and Make	
Year of Make	
Boiler capacity rating	
Type of Boiler	
Type of fuel used	
Maximum fuel flow rate	
Efficiency by GCV	
Steam generation pressure & superheat temperature	
Heat transfer area in m ²	
Is there any waste heat recovery device installed	
Type of draft	
Chimney height in metre	

Fuel analysis details

Fuel Fired
GCV of fuel
Specific gravity of fuel (Liquid)
Bulk density of fuel (Solid)

Proximate Analysis Date of Test:

Fixed carbon _____ %
Volatile matter _____ %
Ash _____ %
Moisture _____ %

Water Analysis Date of Test:

Feed water TDS _____ ppm
Blow down TDS _____ ppm
PH of feed water _____
PH of blow down _____

Ultimate Analysis Date of Test:

Carbon _____ %
Hydrogen _____ %
Sulphur _____ %
Nitrogen _____ %
Ash _____ %
Moisture _____ %
Oxygen _____ %

Flue gas Analysis Date of Test:

CO₂ _____ %
O₂ _____ %
CO _____ %
Flue gas temperature _____ %