

Table 1: Proximate analysis of the coal

Volatile(%)	Char(%)	Moisture(%)	Ash(%)
35.8	53.7	6.3	4.2

Table 2: Ultimate analysis of the coal

Carbon (%)	72.6
Hydrogen (%)	5.05
Nitrogen (%)	1.29
Sulphur (%)	1.55
Oxygen (%)	15.31

Table 3: Operating conditions

Coal feed rate (kg/h)	14.0
Primary air flow (kg/h)	31.8
Secondary air flow (kg/h)	120.4
Velocity of primary air (m/s)	23.1
Velocity of secondary air (m/s)	38.3
Primary air temperature (°C)	70
Secondary air temperature (°C)	290