

PRELIMINARY ENERGY AUDIT REPORT

Conducted at,

P.P.S STEELS

KANJIKODE, PALAKKAD

Submitted By,

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M.Tech Industrial Power and Automation, Semester 1

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Submitted on,

About the Company:



P.P.S GROUP OF COMPANIES

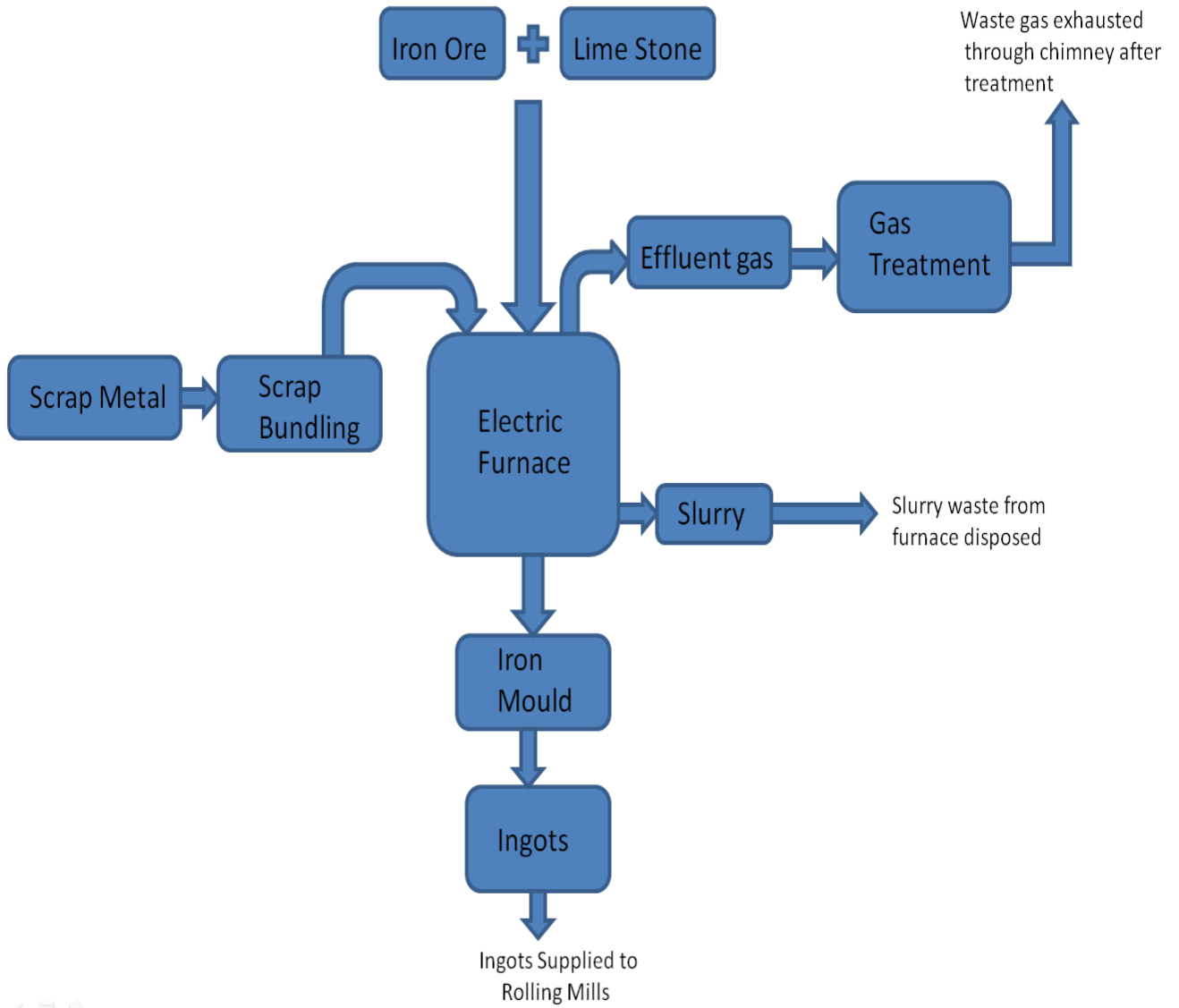
PPS Steels came into existence in 1989, at Coimbatore, Tamil Nadu. The company is involved in manufacturing & supply of high quality Steel Ingots, trading structural steels and importing ferrous and non ferrous metals to India.

Products:

We are manufacturing the wide range of steel ingots. These are primarily used as raw material in HOT STEEL RE-ROLLING MILLS.



PROCESS FLOW DIAGRAM



CONNECTED LOAD

Equipment	Quantity	Rating in KW	Total Rating in KW
Electric Furnace-1	1	1230	1230
Electric Furnace-2	1	1020	1020
Cooling Pump	4	7.5	30
Furnace Cooling Pump	1	7.5	7.5
Hydraulic Power Pack	1	7.5	7.5
Cooling Tower Motor	1	5.5	5.5
Overhead Tank Pump	1	2.2	2.2
Softener Water Pump	1	1.1	1.1
Bore well Pump	1	3.7	3.7
Air Compressor	1	7.5	7.5
Lab Motor	1	8	8
Main Cooler	5	2.2	11
Pollution Control	1	3.7	3.7
Exhaust Fan	4	0.75	3
Plate Rolling Machine	1	3.7	3.7
Crain Hoist	1	22	22
L.T Motor	2	3	6
C.T Motor	1	2	2
Pollution Control Motor	1	55	55
Gas Cooler	2	2.2	4.4
Hot Plate	1	2	2
Distilled Water	1	4	4
C & S Apparatus	1	2	2
Total			2441.8 KW

Light and Fan Load			
Equipment	Quantity	Rating in Watts	Total Rating in KW
Incandescent Bulb:			
inside plant	9	250	2.25
outside	5	500	2.5
Tube light:			
inside plant	35	40	1.4
Office	25	40	1
Staff Quarters	17	40	0.68
Power Plug	5	1000	5
Fan	6	60	0.36
Pedestrial Fan	2	120	0.24
Total			5.6 KW

