

LIST OF TABLES

Table No.	TITLE	PAGE No
4.1	Size analysis of the ore powder	54
4.2	Chemical analysis of the ore	54
4.3	X-ray diffraction of raw ore	55
4.4	Quantitative analysis and percentage of mineral matter in iron ore	73
4.5	Calculation of activation energy (Kissinger method)	75
4.6	Calculation of parameter 'n'	79
4.7	X-ray analysis of ore powder heated to 1250 ⁰ C and cooled.	87
4.8(A) & 408(B)	Average temperature calculation of pellet(T _{av})(Pressed pellet size=0.5759cm&Porosity14.29%)	136-137
4.9 To 4.20	Calculation of thermal diffusivity of pelletized pellet.	144-155
4.21 To 4.25	Calculation of thermal diffusivity of hand rolled pellet	156- 160
4.26	Variation of thermal conductivity/diffusivity with porosity of pelletized pellets	161
4.27	Variation of thermal conductivity/diffusivity with porosity of hand rolled pellets	162

4.28 To 4.43	Calculation of thermal diffusivity of pressed pellet	203- 218
4.44	Variation of thermal conductivity/diffusivity with porosity of pressed pellets	219