LIST OF FIGURES

Figure 1.1  a) Mine site area
            b) Mine site allotted to India

Figure 2.1  Map showing bathymetry and major physiographic features of the study
            area in the Central Indian Basin.

Figure 3.1  A schematic representation showing the progressive selection of areas
            based on varying sampling densities

Figure 3.2  A schematic representation of Processed Database Generation

Figure 3.3  Frequency distributions of A) Stationwise Abundance and B) Station

Figure 3.4  Frequency distributions of A) Stationwise Mn and B) Stationwise Co, C)
            Stationwise Cu and D) Stationwise Ni

Figure 3.5  Map showing the Target Area of Nodules in the Central Indian Basin

Figure 3.6  Frequency distributions of A) Blockwise Kriged Abundance and
            B) Blockwise Kriged Total Metal (Co+Ni+Cu)

Figure 3.7  Frequency distributions of A) Blockwise Kriged Mn, B) Blockwise
            Kriged Co, C) Blockwise Kriged Cu and D) Blockwise Kriged Ni

Figure 3.8  Map showing the Pioneer Area and Reserved Area in the Central Indian
            Basin

Figure 3.9  Map showing the Pioneer Area of Nodules in the Central Indian Basin

Figure 4.1  Resultant % ore tonnage for varying cut-off grade under log model

Figure 4.2  Resultant % metal recovery for varying cut-off grades under log model

Figure 4.3  Cut-off value-resultant value curves for the study area
            a). For stationwise, abundance values
b). For stationwise, grade values

Figure 4.4 Cut-off value-resultant value curves for the study area 81

a). For blockwise kriged abundance values
b). For blockwise kriged grade values

Figure 5.1 The Passive towed system 83
Figure 5.2 The Active self propelled system 83
Figure 5.3 The Continuous line bucket system 83
Figure 5.4 The Submarine shuttle system 83
Figure 5.5 Under water crawler undergoing land tests 90
Figure 5.6 Conceptual model of mining system 104

Figure 6.1 Distribution of heavy metals in water column (pre-disturbance ) 123 to
Figure 6.4
Figure 6.5 Distribution of heavy metals in water column (post-disturbance) 125 to
Figure 6.8
Figure 7.1 World Nickel laterite resources 137
Figure 7.2 Comparative metal resources 141
Figure 7.3 Pattern of metal prices over the years 148
Figure 8.1 Pattern of capital cost 165
Figure 8.2 Pattern of capital cost (details) 165
Figure 8.3 Pattern of operating cost 166
Figure 8.4 Impact of variation of discount rate on profitability 169
Figure 8.5 Impact of variation of capital cost on profitability 170
Figure 8.6 Impact of variation of revenue on profitability 171
Figure 8.7  Impact of variation in annual operating cost on profitability  172
Figure 8.8  Impact of variation of grade on profitability  174
Figure 8.9  Impact of variation of copper prices on profitability  175
Figure 8.10 Impact of variation of cobalt prices on profitability  176
Figure 8.11 Impact of variation in nickel prices on profitability  177
Figure 8.12 Impact of variation in manganese prices on profitability  178
Figure 8.13 Inflation profile adjusted at 2003  186