

## LIST OF TABLES

Table	Particulars	Pages
3.1	Plan wise Outlays and Expenditure for Power Sector	29
3.3	Generation and Consumption of Electricity	35
3.4	Consumption of Electricity by Different Sectors	37
3.5	Sectoral Pattern of Electricity Consumption	39
3.6	Inter-Regional Transmission Capacity	45
3.7	Inter-Regional Exchange of Power	46
4.1	Per capita energy consumption in 2001-02 (in Kwh)	54
4.2	Per Capita Electricity Consumption by Regions (in Kwh)	56
4.3	WBSEB Own Demand Potential In Mw (02-03)	60
4.4	Sectoral WBSEB Demand in MkWh	64
4.5	Average Weekday and Sunday Load During Summer	68
4.6	Average Hourly Load in Jan. & Sept. of Kamarpukur Feeder	69
4.7	Month Wise Average Hourly Load of WBSEB for the Year 07-08	91
4.8	Month Wise WBSEB Own Demand Potential	94
4.9	Month Wise WBSEB own Energy Demand	95
4.10	Hourly generation and import of CESC of a single day	102
4.11	Summary of hourly energy demand of industries	108
4.12	Differential Tariff for ToD Meter	109
4.13	Sector wise hourly load before DSM (experimental basis)	112
4.14	Sector wise hourly load after DSM (experimental basis)	115
5.1	Installed Generation Capacity (MW) all India	120
5.2	Addition to Installed Capacity (in MW) in 9 <sup>th</sup> Plan	123

5.3	Ownership and Mode-wise Pattern of Installed Capacity (MW) as on 31-3-2002	124
5.4	Capacity addition and investment per MW at current price	125
5.5	Plan Wise Capacity Addition of Installed Capacity	127
5.6	Region Wise Composition of All India Installed Capacity on 30-04-2007	128
5.7	Sector Wise Composition of All India Installed Capacity on 30-04-2007	129
5.8	Installed capacity of West Bengal as on 30-04-2007	130
5.9	All India Demand and Supply of Electricity	132
5.10	Eastern Region Demand and Supply of Electricity	133
5.11	West Bengal Demand and Supply of Electricity	134
5.12	All India Power Supply Potential considering Year 2001-02	136
5.13	All India Power Supply Position	137
5.14	All India installed capacity vis-a-vis Peak demand Met	138
5.15	Eastern Region Power supply position	140
5.16	Eastern Region installed capacity vis-a-vis Peak demand Met	140
5.17	West Bengal Power Supply Position	141
5.18	West Bengal Installed Capacity vis-a-vis Peak Demand Met	142
5.19	Energy Supply Position of WBSEB System (in MU)	144
5.20	Tariff of WBSEB	144
5.21	Plant Availability of Thermal Power Stations	145
5.22	PLF of Thermal Power Plants	147
5.23	PLF of different Central and State Utilities	150
5.24	PLF in % of four Plants under WBPDCCL	151
5.25	Quality of Coal Supplied to KTPS	153
5.26	Reasons of underutilization of capacity of four Plants under WEPDCCL	154

6.1	Consumption and Cost of Fuel in Coal Based Thermal Generation	160
6.2	Unit Cost of Power Supply of Different SEBs and its Variation	164
6.3	Cost structure of different SEBs of 99-2000 (in paisa/Kwh) and its variation	165
6.4	Cost structure of different SEBs of 2000-01 (in paisa/Kwh) and its variation	166
6.5	Cost structure of different SEBs of 2000-01 (in paisa/Kwh) and its variation	167
6.6	Proportion of Energy Cost in per Unit Cost	168
6.7	Rank of SEBs on per unit cost basis between the years 1990-91 to 2001-02	171
6.8	Year wise Hydro Thermal Mix and Unit Cost of power supply of different SEBs	173
6.9(A) to 6.9(B)	Result of calculations for the year 99-2000	174
6.10(A) to 6.10(B)	Result of calculations for the year 2000-01	174
6.11(A) to 6.11(B)	Result of calculations for the year 2001-02	175
6.12	Year wise PLF & unit cost of power supply of different SEBs and their correlation	177
6.13(A) to 6.13(B)	Result of calculations for the year 99-2000	178
6.14(A) to 6.14(B)	Result of calculations for the year 2000-01	178
6.15(A) to 6.15(B)	Result of calculations for the year 2001-02	179
6.16(A) to 6.16(D)	Correlation coefficients matrix for three years	181
6.17	Component Score Coefficient Matrix	184
6.18(A)	Mean and S.D. related to Year 99-2000	185
6.18(B)	Component Score Coefficient Matrix of Year 99-2000	185
6.18(C)	Regression Coefficients Related to Year 99-2000	186
6.19(A)	Mean and S.D. related to Year 2000-01	187
6.19(B)	Component Score Coefficient Matrix of Year 2000-01	187
6.19(C)	Regression Coefficients Related to Year 2000-01	187
6.20(A)	Mean and S.D. related to Year 2001-02	188

6.20(B) Component Score Coefficient Matrix of Year 2001-02	189
6.20(C) Regression Coefficients Related to Year 2001-02	189
6.21(A) Mean and S.D. of Three Years	190
6.21(B) Component Score Coefficient Matrix of Three Years	190
6.21(C) Regression Coefficients of Three Years	191
6.22 Per Mega Watt Cost of Investment of Plants under WBPDCCL	192
6.23 Debt Equity Ratio of WBPDCCL	193
6.24 Groups of Capacity Utilisation Rate & and Corresponding Generation Level of 210 MW Unit	196
6.25(1) to 6.25(12) Power Generation and Respective Coal Flow	196
6.26 Group Wise per Unit Coal Consumption	202
6.27 Month wise generation in MU, per unit fuel cost and per unit total cost of BTPS in 1987-88	204
6.28 Month wise generation in MU, per unit fuel cost and per unit total cost of BTPS in 1995-96	206
6.29 Month wise generation in MU, per unit fuel cost and per unit total cost of BTPS in 2000-01	207
6.30 Month wise generation in MU, per unit fuel cost and per unit total cost of BTPS in 2004-05	208
6.31 Elements of Fixed Costs of four Plants under WBPDCCL for the Year 2003-04	210
6.32 Per unit Fixed Cost of Four Plants under WBPDCCL	211
6.33 Per Unit Fuel Cost of four plants under WBPDCCL	212
6.34 Per Unit Total Cost of four Plants under WBPDCCL	212