LIST OF TABLES

Table 1-1 Statistics of India	2
Table 1-2 Electricity generation capacity installed during all Five Year Plans	3
Table 1-3 World Co ₂ emitters with their future forecast	6
Table 1-4 Global Technical Potential for Renewable Energy Sources	9
Table 1-5 Total capacity installed from RES in World with leading country as	nd
India's status with leading federal State	10
Table 2-1 Achievements in for 10 th Five Year Plan	28
Table 2-2 Potential and achievement as on 31 March 2007	30
Table 2-3 Total installed capacity through Solar PV (Grid and Off Grid	
connected) till 31st March 2012	31
Table 2-4 Comparison of State Solar Policies (a)	41
Table 2-5 Comparison of State Solar Policies (b)	41
Table 2-6 Comparison of State Solar Policies (c)	42
Table 2-7 Comparison of State Solar Policies (d)	42
Table 2-8 Identified list of probable Technical barriers for grid connected Sol	ar
PV through literature review	45
Table 2-9 Identified list of probable Policy and Regulatory barriers for grid	
connected Solar PV through literature review	48
Table 2-10 Identified list of probable Socio-Economic Challenges for grid	
connected Solar PV through literature review	52
Table 2-11 Identified list of probable Institutional Challenges for grid connec	ted
Solar PV through literature review	56
Table 3-1 Four Worldviews (adapted from Creswell 2007)	62
Table 3-2 Categorization of sections in the questionnaire	
Table 3-3 KMO and Barlett's Test	73
Table 3-4 Steps in data collection during interviews	
Table 3-5 Reliability Statistics	84
Table 3-6 Results for KMO and Bartlett's Test	85
Table 3-7 Factor loading for 34 variables	88
Table 3-8 Total variance explained using Principle Component Analysis	90
Table 3-9 Identified Factors as Barrier and Challenges	91
Table 4-1 Data Collection	98
Table 4-2 Outcomes on Financial Barrier	.105
Table 4-3 Outcomes on Policy and Political Barrier	.110
Table 4-4 Outcomes on Institutional Barrier	.114
Table 4-5 Outcomes on Land Information and Land Acquisition Challenges	121

Table 4-6 Outcomes on Administrative Challenges	122
Table 4-7 Outcomes on Market and Technology Barrier	127
Table 4-8 Outcomes on Development Cost Barrier	129
Table 5-1 Gujarat Fact File	133
Table 5-2 Sources of electricity generations	136
Table 5-3 Contribution of different sectors in power generation	137
Table 5-4 Details of the Gujarat Solar Policy 2009	
Table 5-5 Tariff given by the GERC	140
Table 5-6 Tariff declared by GERC for Solar power plants	141
Table 5-7 Interview and data collection details	143
Table 6-1 Rajasthan Fact File	190
Table 6-2 Sources of electricity generation	192
Table 6-3 Details of Rajasthan Solar Policy 2011	195
Table 6-4 Tariff for Solar PV power plants to be commissioned by 31.03.20)12
	197
Table 6-5 Tariff for Solar PV power plants to be commissioned by 31.03.20	
Table 6-6 Summary of Benchmark Capital Cost and Generic Tariff announce	
by CERC till 2015	
Table 6-7 Interview and data collection details	
Table 6-8 Funds to be provided under SPSA for 1st Phase of JNNSM	
Table 7-1 Cross Case findings on fact file of Gujarat and Rajasthan	239
Table 7-2 Power Sector Structure in Gujarat and Rajasthan	240
Table 7-3 Sources of electricity generation in Gujarat and Rajasthan	241
Table 7-4 Details of State Solar Policy of Gujarat and Rajasthan	242
Table 7-5 Solar RPO for Gujarat and Rajasthan	243
Table 7-6 Details of Solar PV Tariff in two States	244
Table 8-1 Comparison of how Gujarat and Rajasthan have responded to the	role
of identified Barriers and Challenges	270