

## List of Tables

Table 1: Water Resources in India .....	24
Table 2: Water Demand in India .....	25
Table 3: Water Availability in India .....	27
Table 4: Per Capita Availability of water in Different Countries .....	28
Table 5: Per Capita Water Availability in India.....	28
Table 6: Estimated Irrigation Potential in india .....	30
Table 7: IPC and IPU in India .....	32
Table 8: Rainfall in India .....	37
Table 9: Water Resources in Major River Basins in India .....	39
Table 10: MI schemes (in 4 <sup>th</sup> and 5 <sup>th</sup> MI census) in India.....	45
Table 11(a): IPC and IPU in 4 <sup>th</sup> and 5 <sup>th</sup> MI census in India.....	49
Table 11(b): Ratio of IPU to IPC in 4 <sup>th</sup> and 5 <sup>th</sup> MI.....	49
Table 12: Irrigation Development in India .....	50
Table 13: Source Wise Net Irrigated Area in India.....	52
Table 14: IPC and IPU in Different Plan Periods in India .....	54
Table 15: Sources of Irrigation in West Bengal .....	58
Table 16: Percentage Share of Sources of Irrigation in West Bengal .....	60
Table 17: No of Tanks and Ponds in 4 <sup>th</sup> and 5 <sup>th</sup> MI Census in West Bengal .....	64
Table 18: Classification of Irrigation Water Based on Salinity and Sodium Hazards(USSL)	69
Table 19: Sources of Irrigation in the Study Area .....	123

Table 20: no of Selected villages and Water Bodies in the Surveyed Blocks of South 24 Parganas	125
Table 21: Description of the Selected Variables of Farmer's Participations.....	134
Table 22: Block Wise Share of Sources of Irrigation in south 24 Parganas.....	137
Table 23: Some Basic Characteristics of the Selected 65 Weter Bodies .....	139
Table 24: Co-relation Matrix of All Selected Variables .....	149
Table 25: Collinearity Statistics of Regression Analysis .....	149
Table 26: Estimated Regression Co-efficients of Tank Productivity Analysis ...	150
Table 27: Summery of Input and Output Variables of Water Bodies .....	154
Table 28: Co-relation Matrix of Input and Output Variables of Water Bodies	154
Table 29: Results of Data Envelopment Analysis(DEA).....	155
Table 30: Descriptive Statistics of the Surveyed Households .....	156
Table 31: Estimated Regression Co-efficients for the Willing to Pay model ....	157
Table 32: Binary Logistic Regression for the Willing to pay Analysis.....	159
Table 33: Descriptive Statistics of Selected 13 Variables of farmer's participation	161
Table 34:Co-relation Matrix of Selected Variables of Farmer's participations for PCA	162
Table 35: KMO and Bartlett's Test for PCA .....	163

Table 36: Total variance explained in PCA.....164

Table 37: Rotated Component Matrix in PCA.....165