List of Tables

lable	litle	page
2.1	Type of Solar PV Plant	6
3.1	58 kW C-Si Based Solar PV System	10
3.2	C-Si Module Specification	11
3.3	43 kW A-Si Based Solar PV Systems	12
3.4	A-Si Based Module Specification	13
3.5	C-Sun 235 Wp Solar panel specification	16
3.6	Measured Data	17
4.1	Mathematical equation of different activation function	28
4.2	Notation used in back propagation	32
4.3	Structure of Neural Network	37
4.4	Values of training parameters	40
4.5	Compensatory operators	43
5.1	Plant performance parameters	49
5.2	Min-max range of performance ratio using GHI and tilted GHI	62
6.1	Testing performance of ANN and GNN for solar power forecasting modelling	67
6.2	Comparative analysis of ANN and GNN model for solar power generation forecasting	71
6.3	Testing performance of ANN and GNN model for solar power forecasting	75
6.4	Performance of proposed ANN and GNN model	80
A . 1	Parameters for proposed model	83
A.2	Statistical error metrics of proposed models for solar power generation forecasting	88
B.1	Comparative analysis of ARIMA and ANN model for solar power generation forecasting	90