

## LIST OF TABLES

<b>Table No.</b>	<b>Title of Table</b>	<b>Page No.</b>
1.1	Area under different land use/land cover.	14
2.1	Geographic information of the stations used in the homogeneity test along with availability (*) of temperature (T) and precipitation (P) data.	29
2.2	Result of homogeneity of temperature series at 95% significance level.	39
2.3	Result of homogeneity of precipitation series at 95% significance level.	40
2.4	Overview of main primary driving forces in 1990, 2020, 2050, and 2100.	51
2.5	Overview of main secondary scenario driving forces in 1990, 2020, 2050, and 2100.	51
2.6	Overview of GHG, SO <sub>2</sub> , and ozone precursor emissions in 1990, 2020, 2050, and 2100, and cumulative carbon dioxide emissions to 2100.	52
2.7	Climate models and their key references participating in the IPCC AR4 experiments.	55
3.1	Geographic characteristics of the stations used in the study.	62
3.2	Stations with significant trend in annual TM.	65
3.3	Stations with significant trend in annual TMAX.	66
3.4	Stations with significant trend in annual TMIN.	68
3.5	Stations with significant trend in winter TM.	72
3.6	Stations with significant trend in winter TMAX.	73
3.7	Stations with significant trend in winter TMIN.	74
3.8	Stations with significant trend in spring TM.	75
3.9	Stations with significant trend in spring TMAX.	76
3.10	Stations with significant trend in spring TMIN.	77
3.11	Stations with significant trend in summer TM.	80
3.12	Stations with significant trend summer TMAX.	82
3.13	Significant stations in summer TMIN.	83

3.14	Stations with significant trend in autumn TM.	84
3.15	Significant stations in autumn TMAX.	85
3.16	Significant stations in autumn TMIN.	86
3.17	Stations with significant trend in December TM.	89
3.18	Stations with significant trend December TMAX.	90
3.19	Significant stations in December TMIN.	92
3.20	Stations with significant trend in January TM.	93
3.21	Stations with significant trend in January TMAX.	94
3.22	Stations with significant trend in January TMIN.	94
3.23	Stations with significant trend in February TM.	96
3.24	Stations with significant trend February TMAX.	97
3.25	Significant stations in February TMIN.	100
3.26	Stations with significant trend in March TM.	101
3.27	Stations with significant trend in March TMAX.	102
3.28	Stations with significant trend in March TMIN.	103
3.29	Stations with significant trend in April TM.	104
3.30	Significant stations in April TMAX.	105
3.31	Significant stations in April TMIN.	106
3.32	Temperature (°C) changes in B1 scenario for period 1981-2100.	120
3.33	Temperature (°C) changes in A1B scenario for period 1981-2100.	120
4.1	Geographic characteristics of the stations used in the study.	130
4.2	Stations with significant trend in annual and seasonal precipitation series.	136
4.3	Stations with significant trend in monthly precipitation series.	141
4.4	Precipitation (%) changes in seasonal and annual in the period of 1981-2100.	146
4.5	Precipitation (%) changes in monthly in the period of 1981-2100.	150

4.6	Precipitation (%) changes in B1 scenario for period 1981-2100.	154
4.7	Precipitation (%) changes in A1B scenario for period 1981-2100.	154
5.1	Result of linear regression.	164
5.2	Result of MK-test.	164
5.3	Snow cover (km <sup>2</sup> ) changes in December, January, February, March and April in the period of 1981-2100.	177
5.4	Snow cover (km <sup>2</sup> ) changes in B1 scenario for period 1981-2100.	190
5.5	Snow cover (km <sup>2</sup> ) changes in A1B scenario for period 1981-2100.	190

