

## Supplementary

**Table S1.** Demographic composition of the participants of questionnaire survey.

VDC / Municipality	Gender		Age group				Ethnicity			Total
	M	F	0-17	18-49	50-60	60+	Dalit	Janajati	Others	
Pawera	44	24	0	12	33	23	0	61	7	68
Hasuliya	39	32	0	11	35	25	0	68	3	71
Dekhatbhuli	34	37	0	18	32	21	0	69	2	71
Shankarpur	38	30	0	9	39	20	0	45	23	68
Jogbudha	43	29	0	10	38	24	10	0	62	72
Aalitaal	37	34	0	13	32	26	9	0	62	71
Rudreshwor	31	35	0	13	36	17	19	4	43	66
Gokuleshwor	39	28	0	14	44	9	15	12	40	67
<b>Total</b>	<b>305</b>	<b>249</b>	<b>0</b>	<b>100</b>	<b>289</b>	<b>165</b>	<b>53</b>	<b>259</b>	<b>242</b>	<b>554</b>

**Table S2.** Demographic composition of the participants of Focus Group Discussion (FGD).

VDC / Municipality	Gender		Age group				Ethnicity			Total
	M	F	0-17	18-49	50-60	60+	Dalit	Janajati	Others	
Pawera	4	2	0	0	5	1	0	4	2	6
Hasuliya	5	3	0	1	7	0	0	6	2	8
Dekhatbhuli	0	5	0	1	4	0	0	5	0	5
Shankarpur	4	2	0	0	6	0	1	3	2	6
Jogbudha	0	5	0	2	2	1	2	1	2	5
Aalitaal	5	3	0	0	7	1	3	2	3	8
Rudreshwor	5	3	0	0	6	2	3	1	4	8
Gokuleshwor	0	6	0	0	5	1	0	2	4	6
<b>Total</b>	<b>23</b>	<b>29</b>	<b>0</b>	<b>4</b>	<b>42</b>	<b>6</b>	<b>9</b>	<b>24</b>	<b>19</b>	<b>52</b>

**Table S3.** Key aspects of the questionnaire used in the household perception survey.

Temperature	Precipitation	Impacts of climate change
How has the overall temperature changed?	How has the annual precipitation amount changed?	How has the water availability in rivers, wells, and other water resources changed?
How has the summer temperature changed?	How has the monsoon precipitation amount changed?	How has the annual incidence of floods and landslide incidences changed?
How has the winter temperature changed?	How has the winter precipitation amount changed?	How has the annual incidence of drought events changed?
How has the duration of summer changed?	How has the intensity of monsoon rainfall changed?	Please mention 3 major impacts of climate change on agriculture.
How has the duration of winter changed?	How has the annual number of rainfall days changed?	Please mention what you are doing to minimize the impacts

**Table S4.** Observed trends of change in precipitation at different stations. (Note: figures in bold represents statistically significant trends at 5 % level of significance).

S/N	Station Name	Index in Figure 1	Annual Trend	Monsoon Trend	Post-mon- soon Trend	Pre-mon- soon Trend	Winter Trend
1	Belauri Santipur	9	-0.887	-0.492	0.750	-1.08	-0.081
2	Patan (West)	4	-2.394	0.217	0.179	-1.61	0.079
3	Sandepani	11	7.060	6.475	0.346	2.36	0.342
4	Dhangadhi (Atariya)	10	8.439	5.077	-0.120	0.11	0.663
5	Kakerpakha	1	-4.615	-1.722	-0.977	0.23	-0.280
6	Dadeldhura	5	0.793	2.640	0.359	-0.54	0.560
7	Baitadi	2	-8.409	-5.462	-0.286	-0.37	-1.391
8	Sitapur	12	-5.239	-1.243	-0.207	1.06	0.289
9	Chisapani (Karnali)	8	-4.265	-1.409	<b>2.107</b>	-0.79	0.214
10	Satbanjh	3	-2.971	-1.188	<b>0.994</b>	1.95	-1.338
11	Godavari (West)	7	17.466	13.572	1.191	<b>1.67</b>	1.161
12	Tikapur	13	0.615	-0.803	<b>1.064</b>	<b>1.69</b>	0.632
13	Mahendranagar	6	2.885	3.633	1.362	-0.39	0.982
Maximum			17.466	13.572	2.107	2.356	1.161
Minimum			-8.409	-5.462	-0.977	-1.606	-1.391
Average			0.652	1.484	0.520	0.330	0.141
Number of stations with positive trends			6	6	9	7	9
Number of stations with negative trends			7	7	4	6	4

**Table S5.** Observed trends of change in maximum temperature at different stations. (Note: figures in bold represents statistically significant trends at 5 % level of significance).

S.N.	Station Name	Index in Figure 1	Annual Trend	Monsoon Trend	Post-monsoon Trend	Pre-monsoon Trend	Winter Trend
1	Godavari (West)	7	<b>0.036</b>	0.011	<b>0.063</b>	<b>0.052</b>	0.026
2	Tikapur	13	0.021	<b>0.035</b>	<b>0.028</b>	<b>0.042</b>	-0.003
3	Dhangadhi (Atariya)	10	-0.004	0.010	0.005	0.027	-0.017
4	Chisapani (Karnali)	8	-0.019	-0.007	-0.018	-0.007	<b>-0.019</b>
5	Mahendranagar	6	<b>0.022</b>	-0.002	-0.012	0.018	<b>-0.037</b>
6	Patan (West)	4	<b>0.057</b>	<b>0.051</b>	0.030	<b>0.100</b>	<b>0.051</b>
7	Dadeldhura	5	<b>0.106</b>	<b>0.081</b>	<b>0.118</b>	<b>0.110</b>	<b>0.141</b>
Maximum			0.106	0.081	0.118	0.110	0.141
Minimum			-0.019	-0.007	-0.018	-0.007	-0.037
Average			0.031	0.026	0.031	0.049	0.020
Number of stations with positive trends			5	5	5	6	3
Number of stations with negative trends			2	2	2	1	4

**Table S6.** Observed trends of change in minimum temperature at different stations. (Note: figures in bold represents statistically significant trends at 5% level of significance).

S.N.	Station Name	Index in Figure 1	Annual Trend	Monsoon Trend	Post-monsoon Trend	Pre-monsoon Trend	Winter Trend
1	Godavari (West)	7	-0.001	0.004	-0.006	0.012	-0.017
2	Tikapur	13	-0.040	-0.002	-0.033	-0.002	-0.048
3	Dhangadhi (Atariya)	10	-0.012	0.007	0.015	0.000	<b>0.043</b>
4	Chisapani (Karnali)	8	<b>0.026</b>	<b>0.027</b>	0.007	0.019	0.018
5	Mahendranagar	6	<b>0.022</b>	0.022	0.009	<b>0.035</b>	<b>0.031</b>
6	Patan (West)	4	0.016	0.032	0.002	0.045	0.008
7	Dadeldhura	5	-0.013	0.003	<b>-0.031</b>	-0.006	-0.017
Maximum			0.026	0.032	0.015	0.045	0.043
Minimum			-0.040	-0.002	-0.033	-0.006	-0.048
Average			0.000	0.013	-0.005	0.015	0.003
Number of stations with positive trends			3	6	4	5	4
Number of stations with negative trends			4	1	3	2	3