Gender Perceptions of Climate Change

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What is Climate and Climate change?

Climate

 Climate, sometimes understood as the "average weather," is defined as the measurement of the mean and variability of relevant quantities of certain variables (such as temperature, precipitation or wind) over a period of time, ranging from months to thousands or millions of years (www.wmo.int)

Climate Change

 Change in the state of the climate that can be identified (e.g. using statistical tests) by changes in the mean and/or the variability of its properties, and that persists for an extended period, typically decades or longer (www.ipcc.ch)

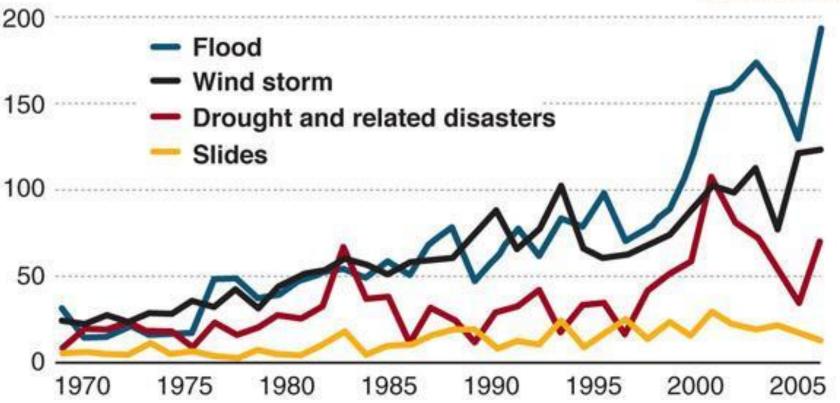
Extreme weather

Number of floods has risen sharply due to climate changes.

Trend in extreme weather events 1970-2005

Number of disasters in the world





Source: United Nations International Strategy for Disaster Reduction 2009
Graphic: Jutta Scheibe, Eeli Polli SAWA Workshop - Gender Perceptions on
Climate Change

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Justification

- Scientists talk more and more about the climate and show the science behind it
- The world's politics is now centered on the climate change issues
- World leaders talk about adaptation and mitigation
- But the people who have to adapt to the changing climate are the affecting communities and farmers around the world
- Therefore, it is very important to know how they think about the climate change and what is their perception?

What is human perception of climate change?

- How can a person discern long-term changes in climatic parameters – Perception
- Human interactions with climate occur at all levels
- Perception affects on adaptation and

mitigation activities



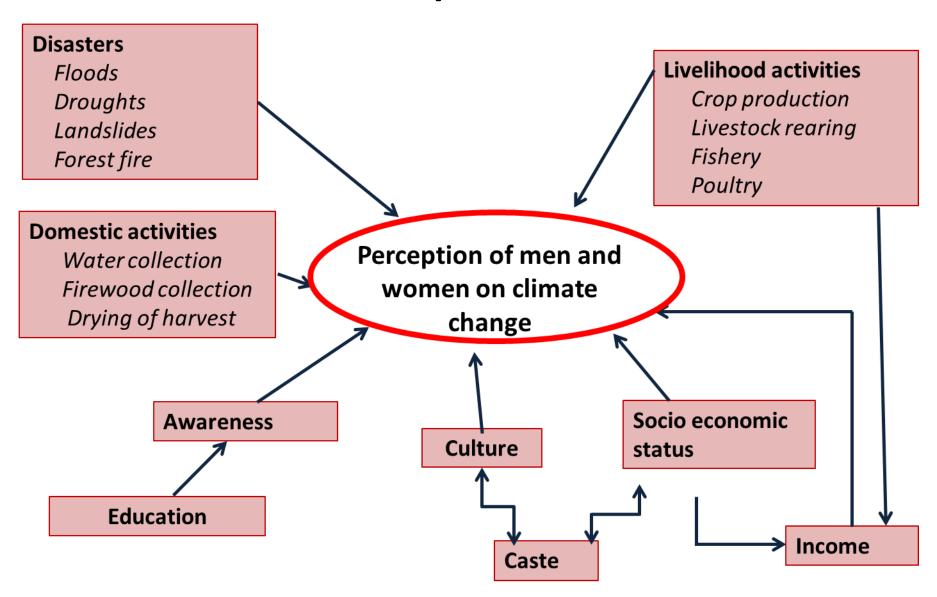
Objectives

To assess the perception of men and women on climate change in Bhotechaur village (ward 1) in Melamchi Municipality of Sindhupalchowk district in Nepal

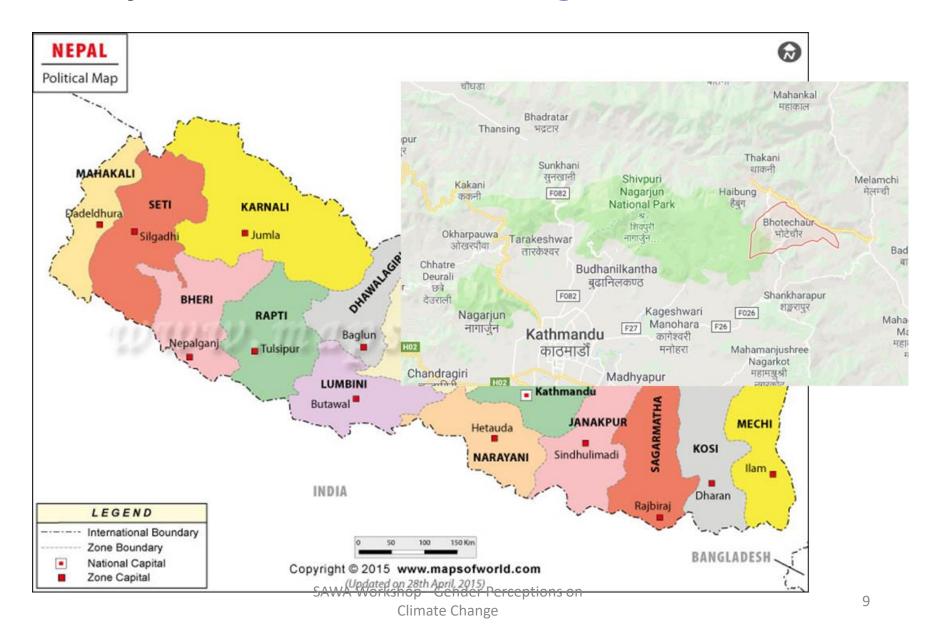


METHODOLOGY

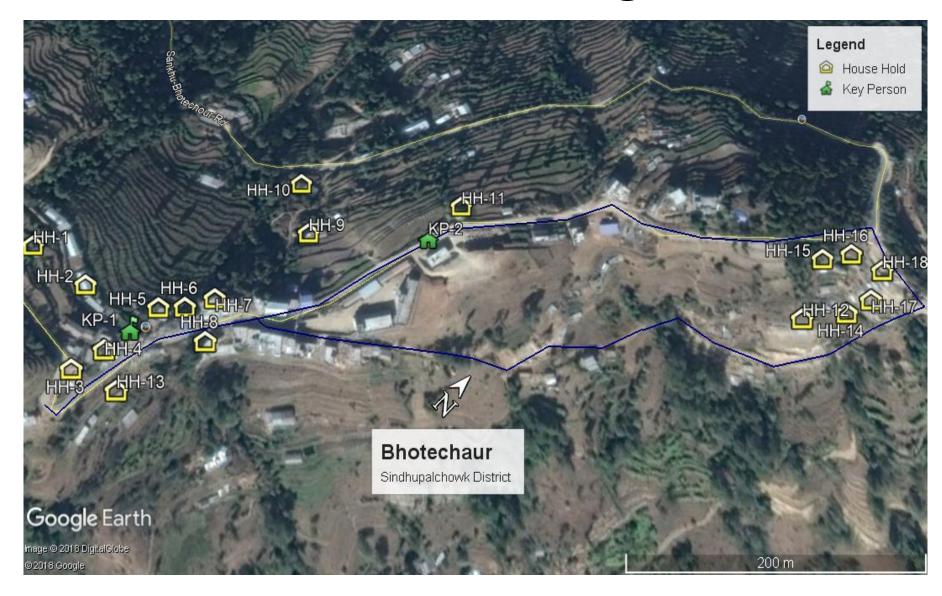
Conceptual Framework



Study Area: Bhotechaur village



Botechaur Village

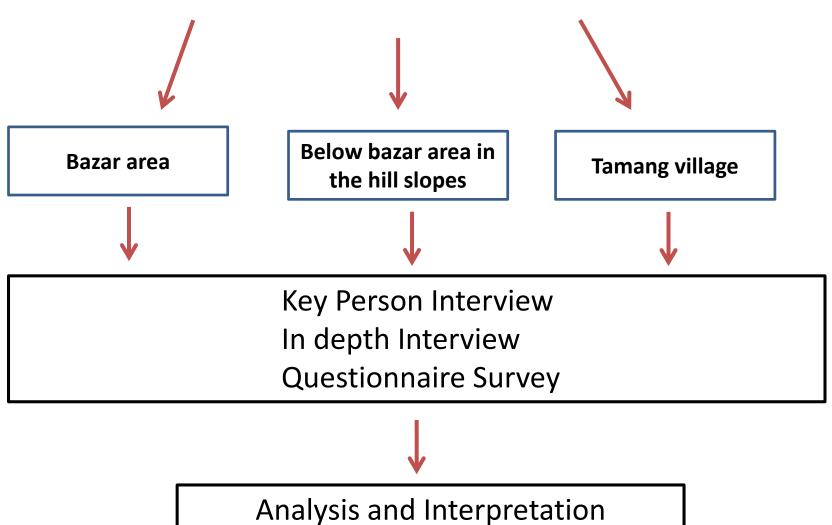


BOTECHOUR VILLAGE



Bhotechaur village

Classification based on Class and Caste





Key Person Interview

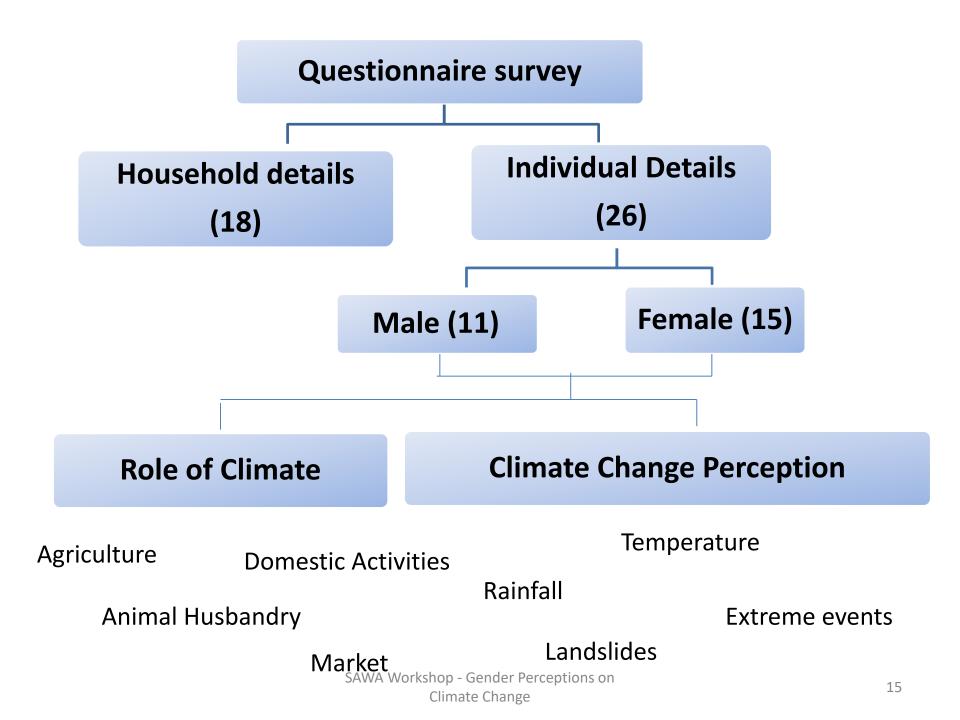
- Information on
 - About village
 - Climate
 - Climate change
 - Livelihood
 - Agriculture
 - Water supply system
 - Education
 - Development activities
 - Women involvement
 - Challenges and Problems

In depth Interview

- Information on
 - History of personnel lives
 - Climate
 - Climate change
 - Livelihood
 - Agriculture
 - Falk lore



SAWA Workshop - Gender Perception
Climate Change



Results &



HOUSEHOLD AND INDIVIDUALS DETAILS

Number of Individuals	Male	Female
Overall	11	15
Chaulagain	9	11
Tamang	2	4
Brahmina	9	11
Buddhist	2	4
Near to road	5	8
Away from road	6	7

Category	Number of	
	Households	
Chaulagain	13	
Tamang	5	
Brahmina	13	
Buddhist	5	
Near to Road	9	
Away from Road	9	
Land owned < 12		
Roopani	10	
Land owned > 12		
Roopani	8	

Major Crops





Water Facilities







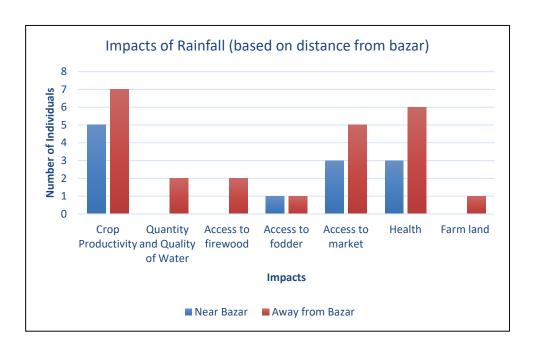


ROAD CONDITIONS



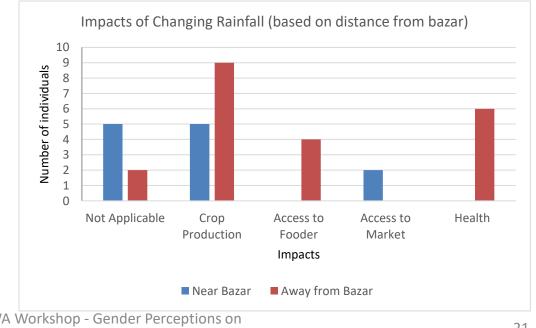


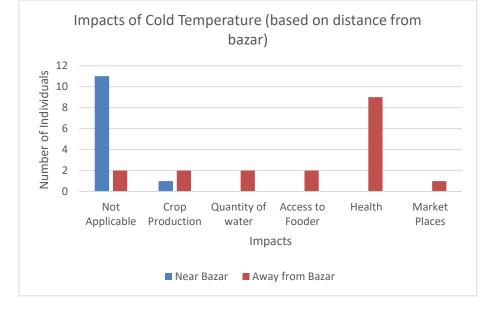


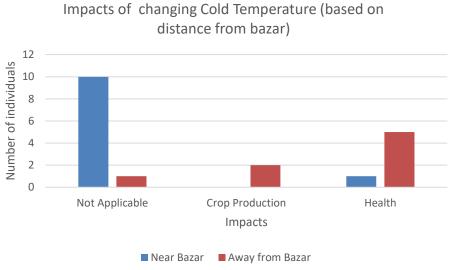


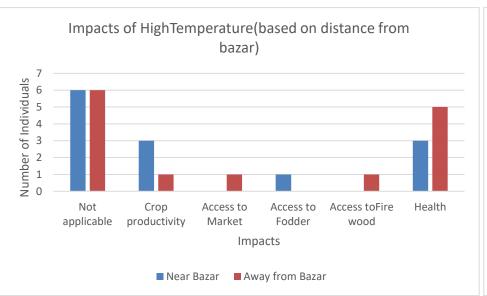
- More impact on people living away from Bazar
- Bazar No impact on
 - Water Pipe water supply
 - Access to Fire wood Alternative energy (Gas)
 - Farmland- Alternative income (Business)

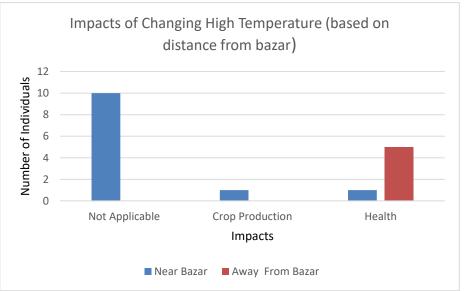
- Bazar people- Do not bother about rainfall change (But access to market due to hard roads)
- More impact on people living away due to dependency on Agriculture, Animal husbandry and poor living conditions









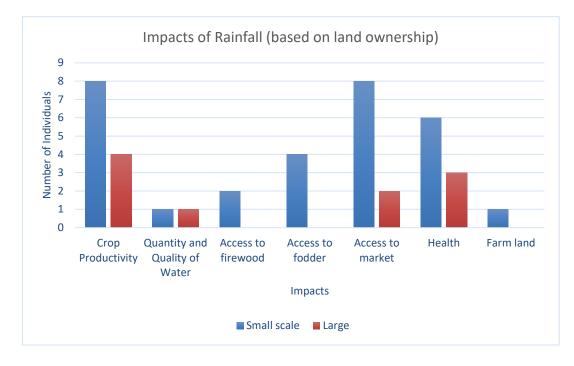


Impacts of cold and warm temperature

- Cold temperature causes relatively high impacts on people living away Bazar
 - High impact on health
- Warm temperature doesn't have impact on both groups
 - T is not too high even in summer
- Health impact prominent in people living away
 Bazar
 - Tin roofed houses Heat stress

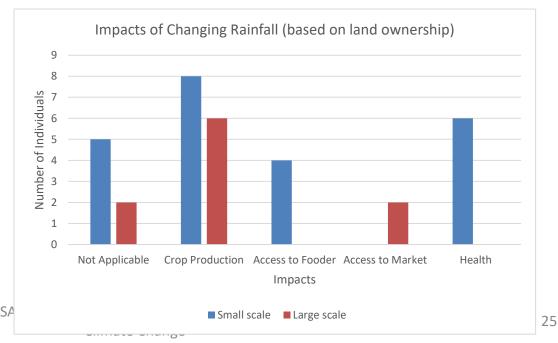
• Tejnath Chaulagain, age 67

"Land used to be covered by frost which froze for 2-3 days due to extreme cold in winter. But I don't observe those kind of things nowadays."



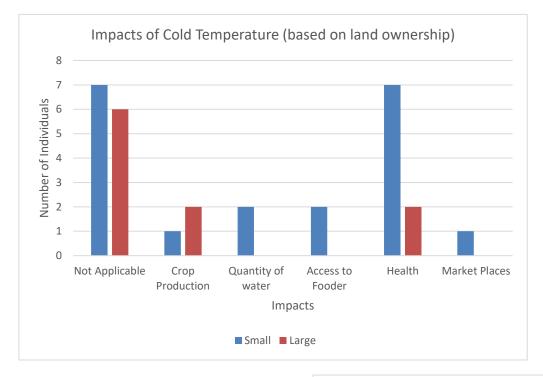
- Both present rainfall and changing rainfall pattern have relatively high impact on small scale farmers.
- Access to fodder, firewood and impact on farmland- No impacts for the large scale land holders (Due to better socio-economic condition)

- Small scale farmers production is mostly for consumption and village market
- Large scale farmers production sells outside
- Poor road conditions due to changing rainfall pattern affect marketing



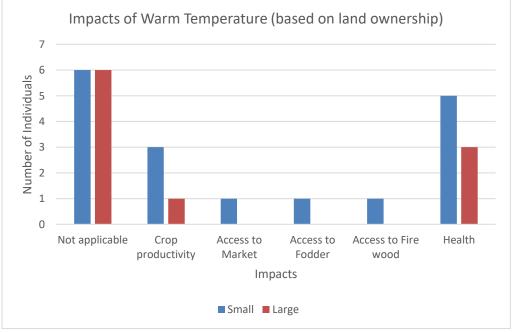
Tejnath Chaulagain, age 67

• This year I showed the seeds to prepare for saplings in 12,14th of Jestha (End of May) and I had to plant the saplings right after one month on 14,15th of Ashadh (End of June) but due to lack of rainfall, I had to plant on 30th of Ashadh (Mid July)"



- Small scale land owners have relatively high impact from Temperature
 - Poor housing condition
 - High exposure to outside environment

 Small scale land holding farmers have more impacts on health due to high and low temperature – common cold, heat stress



Taranath Chaulagain, 62 years old

"In the past due to more hot weather in summer, we used to suffer from malaria and chicken pox, but nowadays summer is not that hot and we don't suffer from those diseases.

The land would be covered with ice, 2-3 feet deeper but now it doesn't happen."





When we asked who collects the water, Shree Man Tamang replied, "Mothers need water"





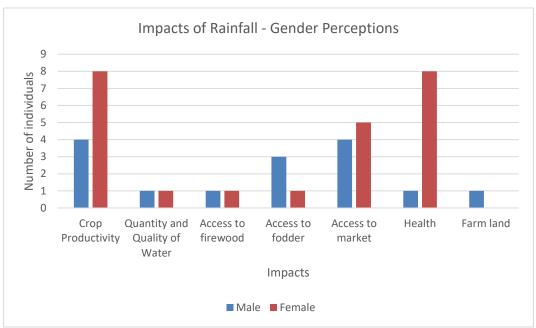




Roles of Men – Multiple Task

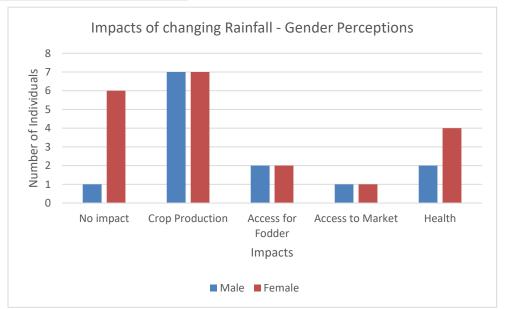


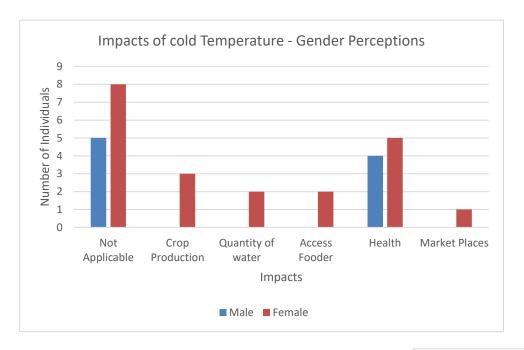




- Females are more concerned about crop production and health aspect compared to men
 - Women are involved in post harvest processing and have more knowledge on reduction of yield
 - Concern on food security at home
 - Health impact on children

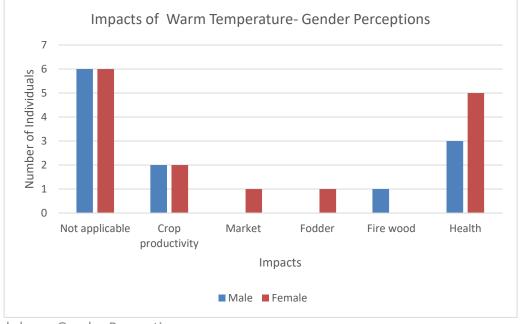
- Females do not have much idea about climatic changes compared to males
 - Less exposure to outside world
- Both are equally concerned about crop production with changing rainfall





- Females have more concerns about impacts of temperature than men
- Both men and women concern about health impacts

 Since the sample contains rich and poor households both, there is high response on Not Applicable category also



Anecdotes

• Sita Devi Chaulagain, age 63

"After finishing the paddy planting work in hot, we have a culture of eating Curd and beaten rice on Ashadh 15 and celebrate the completion of cultivating our major crop. Similarly, after a month we finish removing weeds from the paddy crop as a second phase of cultivation which is very necessary and during this we enter into the land with water, so get cold. That's why we have culture to eat rice pudding on Shrawan 15 to celebrate the progress of our work.

But now we do not get done with planting the saplings by Ashadh 15 and consequently weed removing works by Shrawan 15. We have been celebrating these cultures since my childhood and before. But nowadays I think that there is shift in the rainfall than before."

Anecdotes

"Khola Hanumante Baadi Aayo Vanthe Bagai Iyayo Gegaru Baari lai rukhe mal halera hunthyo Karma rukho ke garu..."

She meant that, flood came over in Hanumante river, it brought sweeping sediments, Lands are dry, can be made fertile putting fertilizers. But my karma is dry, what shall I do?

"Lekaimaa baata charimaa jharyo Pahelo Pakheti, Madara (river) baina (Bagina) gharama aama chhaina Sanima le lakheti

➤ She meant that, Birds with yellow feathers fly down the hills, Madara River stopped flowing, and mother is not home, step mom chased.

Anecdotes

"Paani maa paryo rimi ra jhimi Purba disha garjiyo megh Tyo gharmaa jaane man chhaina mero, Yetai bata haanchhu beg

➤ She meant that rain fall rim jhim (sound of rain) and thunder sounds from the east, I don't want to stay in that (husband's) home, so I will run from here itself.

Limitations of the study

- Exploratory study
- Very small sample size due to limited time availability
- Interactions between multiple parameters cannot be derived due to small sample size
- · Hence, firm conclusions cannot be drawn



Factors contributing to perception of climate change -

