

## **Terms of reference**

**for**

### **Impact Vulnerability and capacity assessment for Heat and Cold wave**

#### **Introduction:**

CARE Nepal Under DRR & GiE portfolio, engages in integrated preparedness, response, and recovery programs for building resilience and links these to long-term development programs to sustain recovery efforts. It engages the whole of society by leveraging local knowledge, resources and institutions, blended with integrated, risk-informed programming to reduce humanitarian risks. Along with this, CARE Nepal increases community capacity especially women and girls to anticipate and transform climatic and disaster vulnerabilities, reduce related risks, and effectively adapt and respond to the climatic and disaster related shocks and stress through preparedness, resilient recovery, reconstruction, and risk-integrated long-term development.

More specifically, in terms of anticipatory actions CARE Nepal initiated risk visualization in different municipalities of Nepal where community people can get information about the hazard vulnerability status on a timely basis. CARE collaborated with National Disaster Risk Reduction Management Authority (NDRRMA) and developed integrated software application with features of mapping of community access to critical, assessment of possible disaster event, identification of evacuation route, safe place and individual households with geo reference which is visualized in BIPAD (Building Information Platform against Disaster) Portal. Similarly, CARE Nepal is currently leading an ECHO NGO consortium at the Asia regional level. This project implements forecast-based early action, focusing on enhancing inclusive and Gender-responsive Forecast-based Early Action for Effectiveness Disaster Preparedness in ASEAN region. This action is building on piloting efforts we have been implementing in Bangladesh, Philippines and Vietnam, bringing learning and good practices from our grass-roots community based approaches to policy level through systemic advocacy, complementing with the works carrying out by IFRC and UN agencies. This had components of forecast based financing and integrating anticipatory action with shock responsive social protection on various impact priorities. CARE Nepal has also implemented cold wave response as anticipatory action. An alert was raised on December 2021 as it was forecasted for cold wave from January 2022, but there was no sign of cold wave until three weeks of prediction. The project was designed consulting DHM but it was realized that there is no any proper mechanism available (threshold and triggers) to anticipate the cold wave. Thus this anticipatory tool design project has been conceptualized to complement the gap for defining the heat and cold wave, provide thresholds and prepare SOPs for local government and community readiness for early action.

#### **Project Background:**

Heat wave and Cold wave hazards are often undermined as it triggers slow onset impacts, incidents are often scattered and doesn't result in immediate casualty as in case of other disasters such as landslides and floods. It doesn't get adequate coverage in media and policy platforms despite having severe impacts on ultra-poor population's health and livelihoods. The Department of Hydrology and Meteorology (DHM) of Nepal has been providing a weather forecast with 3-days lead time simulated from Weather Research & Forecasting - Environmental Modelling System (WRF-EMS). Likewise, the 7-days and 15-days forecasts are available from various other commercial sources such as AccuWeather, Weather-Forecast.com, El Dorado Weather, Custom Weather, and Weather Avenue and so on. The understanding on the dynamics

of heat and cold wave including its triggers and thresholds isn't uniform across governments, stakeholders, communities and household level therefore often at times the local governments are perplexed and are unable to identify the occurrence of the exact event and take necessary mitigation measures. Due to this, there are no proper inventory of its impacts. Thus CARE Nepal through its anticipatory action proposed to develop a web-based anticipatory tool about spatial and temporal scenario of heat and cold waves that will help to forecast and carry out early/anticipatory actions to address the possible impacts of heat and cold waves.

The major expected outcome of the project includes

- A web based model capable of assessing the occurrence of heat and cold wave based on available/projected weather outlook and context specific triggers and thresholds.
- Assessment report prepared that includes differential impacts of heat and cold wave events including local capacity to cope with the impacts and gaps associated with it; exploration of impact populations' perspectives on early actions required for mitigating the impacts.
- Set of early actions and SOPs (in 4 Palikas) developed following a participatory approach.
- Anticipatory tool for forecasting heat and cold wave events to carry out anticipatory actions developed and disseminated among the relevant government and non-government agencies for wider applications.

#### **Purpose of this assignment:**

Main purpose of this assignment is to identify the community perspective on the heat and cold waves. The important aspect is to identify differential impacts of heat and cold wave events with regards to sex, socio-economic conditions, ages, physical conditions, well-being status. It also aims to understand the existing capacity of both individual and institutions to cope with the adverse impacts of heat and cold waves along with major problems faced by the people at most risk and gaps associated with it in the project municipalities. It will also explore the stakeholders (local government, LDMC, DDMC and other humanitarian actors) and impact populations' perspectives on early actions required for mitigating the impacts of heat and cold waves. The impacts, vulnerabilities and local level capacities assessment have been planned in 4 Municipalities each of Siraha (Golabajaar RM), Saptari (Surunga RM), Banke (Khajura Rural Municipality) and Bardia (Gularia Municipality) district. Based on finding of integrated vulnerability and capacity assessment (IVCA), a) we will define what are the triggering factors of heat and cold waves based on community perception; b) identify differential impacts they are facing and capacity gap at community and institution level; c) community desire for possible early actions and d) develop standard set of early actions and SOPs. These will be inbuilt in the tool, which will serve as reference and help local governments to design their own set of early actions and deliver it through SOPs. Thus to assess the impact, vulnerability and capacity of community this assignment has been planned. The specific objective of the assessment includes:

- Prepare IVCA tool for heat and cold wave covering 4 specific dimension (a,b,c,d) as mention above
- Test and implement the IVCA tool at selected communities
- Identify the differential impact of heat and cold wave, existing practices and capacities for heat and cold wave response among the selected community
- Identify the existing heat and cold wave response practice of local government
- Provide recommendation for the early action including SOPs based on finding of the IVCA

## **Methodology:**

Impact vulnerability capacity assessment is a participatory process which engage community people and stakeholder to identify their vulnerability, assess their risk and explore their coping practices. Thus the methodology for anticipatory action for heat and cold wave will also follow the same method. In addition to this, it is required to review relevant secondary documents and references in order to develop the tool. Thus some of the key methodology applied for IVCA will be:

- i. Review of documents: the team will review material related to the project like project proposal and other reference VCA documents, Periodic reports and annual program and plans of the selected Local Governments including LAPA/LDCRP/LDRMPs and other research reports to understand the project and scope of IVCA and gather required information for VCA tool.
- ii. Development of IVCA tools: Based on the study and references, VCA tool will be adopted/ revised to make it appropriate for heat and cold wave context.
- iii. Conduct the IVCA at community: In participation of the community and local government stakeholders the IVCA tools will be used to identify the vulnerability, existing capacity coping practices of community against cold and heat wave. Validate the trend of weather/climate data with local people/stakeholders perception. Hospital/health post visits to gather the information on number of patient admitted due to heat and cold wave in last 10 years.
- iv. Further Verification of the information with the available records and reports from different sources like interactions and consultations with the Health posts/Hospitals and number of cases recorded in the health institutions during the heat wave and cold wave months
- v. Based on the findings of IVCA, develop guideline for set of early actions and standard operating procedures in each Municipality.

## **Deliverables**

The following documents are expected from the team during the period of the task assignment

**I. Inception report:** The team should prepare an inception report, including team's understanding of the context, intervention, detailed itinerary for fieldwork, IVCA tools, methodology for information collection and analysis.

**II. Draft report:** A draft report including the findings of IVCA that includes visualization will be provided to the project team for review and feedbacks a finding sharing workshop will be organized.

**III. Final report:** After incorporating the feedbacks from team a final report will be submitted in the timeline as per agreed ToR. With key set of early actions and SOPs recommendations for early actions based on the findings.

## **Reporting Line**

The IVCA team will report to Project Manager of Anticipatory action- Mr. Dev Raj Gautam.

## Time Frame

The assignment is planned within 30 days of time frame starting from 25 July 2022 to 23 August 2022. The time table below shows the main phases and stages.

<b>Task</b>	<b>Period/Timing</b>	<b>Proposed date</b>	<b>Location/Venue</b>	<b>Responsible</b>
<b>Preparatory Phase</b>				
Preparatory Meetings to discuss about the requirements	1 day	25 July 2022	Zoom Meeting Room	IVCA team and CARE team
Document review and secondary data review and presentation on tools and methodology	3 days	29 July 2022	CARE office	IVCA team
<b>Execution Stage</b>				
Testing and Finalization of tool	4 days	2 August 2022		IVCA team
IVCA at community	15 days	17 August 2022	Project Area	IVCA team
Information compilation and sharing	5 days	By 21 August 2022		IVCA team
<b>Completion Stage</b>				
Address comments on the draft report and final report submission	2 days	23 August 2022		IVCA team
	Working Days 30			

## Required IVCA Team experience and Qualification

The IVCA team will meet with the following qualification and experience requirements

- The team leader shall have at least a Master's Degree in relevant discipline with a minimum of 5 years of work experiences in disaster risk reduction/management, forecast based anticipatory actions, climate change or environment management related research and assessment including experience in the management of humanitarian operations is added value.
- Demonstrated analytical, communication and report writing skills
- The team members should have technical expertise in specific areas i.e. probably include: experience of the overall disaster type, experience of the intervention type, any specialist

technical skills, knowledge of the local and agency contexts, familiarity with crosscutting issues and language skills.

- Example of at least one similar completed assignments and outputs shall be shared during the discussion meeting

### **Proposal Specifications:**

A proposal detailing the real time review methodology, tools, work plan and budget.

The technical (70%) and financial (30%) proposals will be evaluated based on following criteria:

#### **I. Technical**

- Understanding and interpretation of the ToR
- Methodology
- Time and activity schedule

#### **II. Organizational/Personnel Capacity Statement**

- Relevant experience related to the assignment
- Team Composition as per ToR
- Curriculum Vitae with relevant references

#### **III. Financial**

- Proposed budget with detail break down

### **Submission of Proposals**

The proposal can be e-mailed by or before 19<sup>th</sup> July 2022 to [npl.carenepal@care.org](mailto:npl.carenepal@care.org)

### **Evaluation and Award of Consultancy:**

CARE Nepal will evaluate the proposals and award the assignment based on technical (70%) and financial (30%) criteria. CARE reserves the right to accept or reject any proposal received without giving reasons and is not bound to accept the lowest, the highest or any bidder

### **Payment terms:**

- Final payment will be made after submission and approval of final report.