



## Flood and Landslide Protection

Share Nepal is a Nepalese non-governmental organization (est. 2011) that serves approx. 700 families in an area of rural central Nepal that was heavily damaged during the 7.8M and 7.3M earthquakes of 2015. ParticipAid is a US based research project-in-development with the National University of Natural Medicine and Portland State University in Portland, OR. ParticipAid and Share Nepal worked together to coordinate emergency relief for the 70-family village of Karmidanda immediately following the devastating earthquakes, and continue their recovery work through a pilot “Community Led Rebuilding Program” for the larger area. This is a request for partnership drawn from the outcomes of the assessment and planning portions of the program. It is representative of one of Share Nepal’s 18 recovery plans for their constituency. Share Nepal board members and local facilitators will implement and manage all on the ground activities. ParticipAid will provide guidance and support on administrative, logistic, and project management challenges as needed. Both organizations seek your support in contributing to the activities described below to help this community recover from the disaster in a way that is self-determined, and locally managed.

**Please contact us for more details about partnering in this project!**

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### **LOCATION**

Nepal, Rasuwa District, Laharepauwa VDC, Wards 7 and 8

### **BACKGROUND**

Each year during the monsoon season (June 15– August 15), heavy rainfall in Laharepauwa Village causes soil erosion, floods, great anxiety amongst the people, and destruction of crops, land, and property. The naturally steep and fragile land make this area particularly prone to landslide, even before manmade problems such as incomplete road construction. In 2012, the government constructed a road through the region, but did not construct appropriate canals, pipes, and walls to manage the monsoon rains. Because of this, the road is too dangerous to pass during the monsoon season. Transportation is blocked, and the lives and livelihoods of local families are threatened. Basic drainage canals are already present in some wards, though some are in need of repair. Local people do not have the knowledge and resources to prevent landslides, so neighbors work together to mitigate the damage at the time when a landslide seems imminent. Some families are moved away from the village because of the landslide risk. Despite years of frequent requests, the local government has not addressed this urgent issue in Laharepauwa Village.

### **BENEFICIARIES**

All wards are affected by this problem, and the most vulnerable families are targeted in the activities below. Approx. 100 families in Ward 8 live in homes that are vulnerable to flooding. Approx. 80 families from Wards 4 and 7, because of the the steep slope and poor condition of the terrain surrounding their homes, are at high risk for landslides. They have been selected for the following activities because of their increased risk.

## ACTIVITIES

### Flood Control – Ward 8

[Start-up Budget for Technical Survey and Design - \$900 USD]

Share Nepal seeks a long-term partner in this multi-phase project. The activities briefly described below will be conducted on a timeline and implementation plan determined by Share Nepal, local government, and funding partners.

- Form Construction Committee
- Conduct technical survey and create safe design plan
- Construct support walls
- Provide Disaster Preparedness Training

### Landslide Control – Wards 4 and 7

[Start-up Budget for Technical Survey and Design - \$1,200 USD]

Share Nepal seeks a long-term partner in this multi-phase project. The activities briefly described below will be conducted on a timeline and implementation plan determined by Share Nepal, local government, and funding partners.

- Form Construction Committee
- Conduct technical survey and create safe design plan
- Construction of caged rock support walls and drainage canals
- Plant trees and provide Disaster Preparedness Training

## IMPACT

- Local people will live without fear of dangerous landslides.
- Agricultural land, forest land, and drinking water sources will be protected.
- There will be safe passage on local roads for all people and goods.
- There will be year round road access to health facilities.
- Local people's homes will be safe, and human and animal lives will be saved.
- People will no longer leave the village because of unsafe conditions.

## COMMUNITY CONTRIBUTION

- Labor contribution equivalent to 15% of total budget.
- Labor for tree-planting.
- Support for and cooperation in technical survey and disaster preparedness trainings.



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### **MONITORING & EVALUATION**

The following are potential M&E indicators identified by Share Nepal members. Final indicators will be developed with funding partner.

<b>Monitoring indicators</b>	<b>Evaluation indicators</b>
<ol style="list-style-type: none"><li>1. Progress according to projected timeline and budget.</li><li>2. Quality of materials procured.</li><li>3. Proper utilization of materials procured.</li><li>4. Skill of laborers.</li><li>5. Percentage of community contribution.</li></ol>	<ol style="list-style-type: none"><li>1. Risk reduction (by technical experts).</li><li>2. Community perception of safety of homes, lives, and livelihood.</li><li>3. Amount of land protected from landslide, yield of crops from formerly unproductive land.</li><li>4. Number of households, people, and animals protected by new construction.</li><li>5. Effect on agriculture and other sectors due to landslide control programs</li><li>6. Percentage of historical landmarks protected by new construction.</li><li>7. Number of landslides damaging roads, homes, or land.</li></ol>

### BUDGET

SN	Budget Head	Unit	Target	Rate	Amount (NRs.)	Amount (USD)
A.	Flood control program (W-8)					
A.1	Flood control construction committee formation					
	Coordination and communication	Day	3	1000	3,000.00	27.51
	Refreshment	Day	3	1000	3,000.00	27.51
	Management cost				6,000.00	55.02
A.2	Technical survey <sup>1</sup>					
	Engineering survey	Day	5 <sup>2</sup>	7000	35,000.00	320.92
	Assistant to engineer	Day	5	3000	15,000.00	137.54
	Supporting person/guide	Day	5	15000	7,500.00	68.77
	Transportation and coordination	Day	5	3000	15,000.00	137.54
	Management cost	Day	5	3000	15,000.00	137.54
	<b>Total</b>				<b>99,500.00</b>	<b>912.34</b>
B.	Landslide control program (W-4,7)					
B.1	Flood control construction committee formation					
	Coordination and communication	Day	3	1000	3,000.00	27.51
	Refreshment	Day	3	1000	3,000.00	27.51
	Management cost				6,000.00	55.02
B.2	Technical survey <sup>3</sup>					
	Engineering survey	Day	7 <sup>4</sup>	7000	49,000.00	449.29
	Assistant to engineer	Day	7	3000	21,000.00	192.55
	Supporting person/guide	Day	7	15000	10,500.00	96.28
	Transportation and coordination	Day	7	3000	21,000.00	192.55
	Management cost	Day	7	3000	21,000.00	192.55
	<b>Total</b>				<b>134,500.00</b>	<b>1,233.27</b>
	<b>Grand Total – Both Flood and Landslide Projects</b>				<b>234,000.00</b>	<b>2,145.61</b>

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<sup>1</sup> Detailed budget for flood control construction can be estimated after the technical survey is done

<sup>2</sup> Including preparatory work

<sup>3</sup> Detailed budget for landslide control construction can be estimated after the technical survey is done

<sup>4</sup> Including preparatory work