



Shanti Griha Nepal

A Photo Report

Dihitar Irrigation

Infrastructure Support to Improve the Lives of the Marginalized
Communities of Lothar
2016/2017

Supported By



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Dihitar Irrigation

Dihitar, Lothar VDC, Chitwan

Project Location	Dihitar
Beneficiary Household	25
Beneficiary Population	136
Source Name	Dhunkaban
Size of Intake at the source	9 x 0.45 x 0.6 meter
Length of Cemented Canal	1,100 meter
Length of Distribution Canal	1,170 meter
Total Number of Distribution Chamber	3
Size of Distribution Chamber	4 cubic meter
Length of Pipe	130 meters
Types of Pipe	High-Density Polyethylene Pipe

Then...



The crude irrigation canals had many flaws; water flow was stunted, leakages in numerous places, and technically very poor in design. Water loss was high and never sufficient for the fields, thus, resulting in poor crop yield.

Feasibility and Survey



A pre-feasibility study and baseline survey was conducted to find out the need and the willingness and motivation of the community for self-development.

Technical survey was then undertaken to measure the water flow at the source, distance to the distribution chamber, and the capacity of the proposed system to deliver adequate amount of irrigation water.



The meeting



Several meetings and dialogues were held with the entire community and the construction committee before project initiation; the meetings were focused on project procedures, management, bookkeeping, and the Shanti Griha Nepal's development philosophy.

Later meetings were focused more on problems and solutions, improvisation of the system, project improvement, scheduling, inventory, payments, project improvement, monitoring and findings, etc.



Finally, after 4 months of the political unrest and blockades at the southern borders, the project was finally launched on 3rd of May, 2016. In the picture, community members are happy to start and be able to contribute to the project.



Community contribution plays an integral role in Shanti Griha Nepal's projects; this gives a sense of ownership and belongingness to the community. In the pictures above men and women working on the crude canals to clear debris and taking out obstructing structures for site clearance.



Local materials such as stone, sand, and aggregate are carried on the back in a traditional bamboo baskets. It is not an easy road to take; slippery climbs on very narrow paths, stony and watery river banks. A huge appreciation to the women for their contribution to make this project a success, carrying up to 50 kg construction material loads on their backs through these very difficult and dangerous trail.



1,532 Man Days were contributed by the community and 492 Man Days were resourced for skilled labors. Masons working during the construction of cemented canal. 1,100 meters of canal were reinforced with cement and made sturdy.



Participation and contribution of the village youths was highly appreciated during the entire project. Skilled laborers, mostly youth from the community, dedicated their time and effort which had a huge impact on the successful completion of the project



Newly constructed canal - PCC (Plain Concrete Cement) on the base, stone walls cemented on both sides. With proper care this canals will provide irrigation water for a long time.

Distribution Chamber



3 distribution chambers built from where the irrigation water is diverted to the fields. 8.90 hectares of farmland is expected to have access to sufficient irrigation water even during the dry season. The farms are irrigated turn by turn, where each farmer gets sufficient water according to the need and the area of farmland.



130 meters of HDPE pipes are used for the crossing. This made it possible to provide access to irrigation water to 3 hectares of farmland for Banauti village.



An extra harvest is now possible with the improved system, taking the total harvests to 3 in a year. This significantly improves and increases food security and income. In the picture, a local farmer is taking a bamboo basket full of fertilizers to his irrigated field.

Community Capacity Enhancement Activities

Activities Conducted

Activity	Duration	Number of Participation	Trainer
1. Workshop on Leadership and Nonviolent Communication	1 day	26	Bimala Tamang, Suntali B.K, Daud Moktan
2. Seasonal/ Off seasonal Vegetable Farming	5 days	27	Shiva Raj Paudel
3. Workshop on Repair and Maintenance	1 day	10	Gopal Subedi

Workshop on NVC and Leadership



Seasonal / Off-Season Vegetable Farming Training



Workshop on Repair and Maintenance





**A big Thank You from [Shanti Griha Nepal](#) and the
community of Dihitar to
[UNICA Foundation](#) for your enormous support!!!!**