

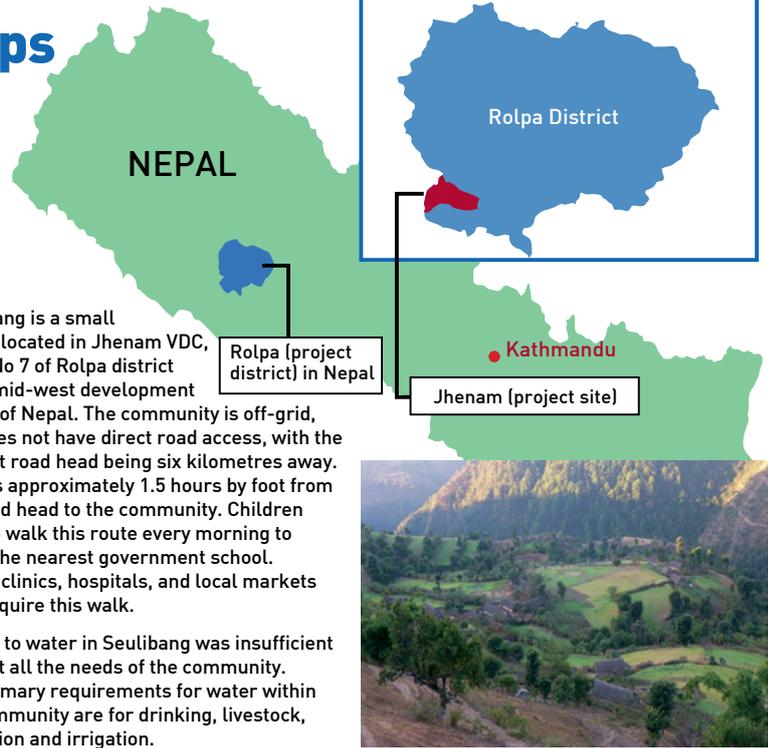


## Water supplied by Papa Pumps meets community needs and increases agricultural productivity.



Seulibang is a small village located in Jhenam VDC, Ward No 7 of Rolpa district in the mid-west development region of Nepal. The community is off-grid, and does not have direct road access, with the nearest road head being six kilometres away. It takes approximately 1.5 hours by foot from the road head to the community. Children have to walk this route every morning to reach the nearest government school. Health clinics, hospitals, and local markets also require this walk.

Access to water in Seulibang was insufficient to meet all the needs of the community. The primary requirements for water within the community are for drinking, livestock, sanitation and irrigation.



Renewable World is a registered charity which tackles poverty using renewable energy. We support the provision of affordable renewable energy services to improve incomes, health and education in the developing world. [www.renewable-world.org](http://www.renewable-world.org)

Agriculture is the major source of income for the Seulibang community. Due to the scarcity of water, and dependence on rain fed irrigation, households are only able to grow vegetables during the rainy season, which lasts between four to six months. During the rest of the months families rely on lentils, rice, and dried vegetables. The village has one accessible water source for drinking water and also a stream which flows in the valley. This source of water is accessed for sanitation purposes and livestock. There is no water source suitable for irrigation. Although the community does not have access to a reliable water source for irrigation, the project found many households to be very much active and interested in growing vegetables for their own consumption and also for sale. The stress on living conditions and opportunities for income has led to increased migration especially with the young and working sector.

### Why use Papa Pumps?

Renewable World targeted to install one Hydraulic Ram Pump as a renewable water pumping system. Previous experience with ram

pumps showed that the efficiency of the system significantly reduced when the delivery head exceeded 100m. Therefore, this technical solution was deemed to be inadequate. Following consultation with Water Powered Technologies who are specialists in zero energy water pumping solutions, they were assured that a Papa Pump system would provide a flow of around 18,000 litres per day.

Access to a reliable source of water for irrigation provided households with the opportunity to grow cash crops during the dry seasons. The increase in crop production for home consumption and for sale has led to improved household incomes throughout the year and could lead to a decrease in out-migration within the community.

### Advantages of a Papa Pump System...

- Uses no fuel or electricity
- Pumps water 24/7
- Very low maintenance
- Light and Portable
- Easy Installation
- Ready for Self Installation
- No CO<sub>2</sub> emissions



**the pump that uses no fuel!**