

Construction of a Biogas Plant for an impoverished farmer living in rural Nepal

Project Reference: Co20_64.02

► How will this project help?

The farmer who will benefit from this project is from one of the lowest castes in Nepal, a group that is traditionally discriminated against in the community. This project will provide a farmer with the materials and expertise needed to construct a bio gas plant. This will support the farmer financially as they can convert natural waste into fuel rather than having to purchase it. The project will also help conserve natural resources. In the past, it has only been wealthy farmers who have been able to afford a Biogas Plant when it is the poorer farmers who are most in need of a cheap fuel supply. The operational cost of a biogas plant is virtually nil but there are numerous benefits. On average, one biogas plant helps to save 2 tons of fuelwood, 0.8 tons of agricultural waste, 0.45 tons of dung cake and 50 litre of kerosene per household. The other considerable benefit is the saving of labour; with at least 3 hours per day saved per household. The plant also produces slurry as a bi-product which is a good organic fertilizer. A further benefit of cooking with gas, as opposed to burning wood, is smoke free cooking. This helps reduce the incidence of respiratory disease which is currently a significant risk for women and children. The farmer you are supporting has very limited funds but has raised one third of the cost of the plant. In providing the remaining support, this farmer can now achieve his goal of constructing a Biogas plant which will benefit his whole family for many years to come.

► Cost of Project

Costs are given in the local currency, Nepalese Rupees (NRS). This is because all items are bought locally in Nepal to reduce costs and to support the local economy.

Cost breakdown

Each biogas plant costs over 20,000 NRS to construct, however the farmer has agreed to raise over 30% of this.

The amount needed from donor is for the biogas plant is 13,000 NRS

► Who needs help with this Project?

Farmers in Western Nepal.

► Where is this project needed?

Mid western part of Nepal, Nepal



► Nepal Factfile

- ♦ Population: 23.1 million
- ♦ Average annual income: US\$ 220
- ♦ Often described as the “country of villages” with over 80 % of the population living in over 40,000 villages, some of which are located in remote mountainous regions.
- ♦ Only 28% of the population have access to adequate sanitation
- ♦ Every year 35,000 children still lose their lives due to diarrhea.
- ♦ 76% of adult females are illiterate

Map of Nepal



plus Project Implementation costs= 3500 NRS
Local bank charges to receive funds= 350 NRS

Total cost of project in local currency =
16850 Nepalese Rupees

► **Total Cost of Project in Pounds =**
140.4167

(JustAid is currently using an exchange rate of £1 =
120 Nepalese Rupees. This rate is slightly lower than
the Banks because it allows for fluctuation in the rates)