

MHP demo schemes

The proposed site is situated on Ererti River in SNNPR region in Sidama zone, Beshuro Gute Kebele near Bona town. From Hawassa in direction to Moyale road after 38 km asphalt road, then the all weather gravel road to bona is about 80 km. It is about 5 km to reach Beshuro Gute village.

The GPS coordinates of the weir site is 37 N0463254 UTM 0724661.

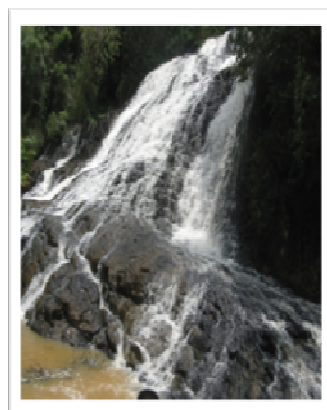
The survey site is situated 6km away from the main street of Bona town. The total population of the Kebele is about 5,945. And there are about 563 households around the envisaged hydro power station. The villagers of Beshuro Gute are very cooperative and eager to participate within their possibilities. A cooperative to manage the future power plant is already formed.

The proposed site is accessible. The masonry as well as all excavation will be supplied by the community. A village map based on GPS data is done and it serves as basis for the required grid design of the Beshuro Gute.

There will be three foci. First gtz project will connect public services (school, health centre, church, market.

Second the will be efforts to create local businesses which utilise the available electricity for productive use.

Third it is proposed to draw a power line along the accessible main road, from where private households can take electricity for private use.



Ererti fall



Community meeting



Community participation



Canal



Weir when tested



Forebay



Penstock and power house

General Information

Region/Zone	: Southern region/Sidama
Woreda/Kebele	: bona/beshro gute
River	: Ererti river
Coordinates (weir site)	: 37 N0463254 UTM 0724661
Head/Flow/Pot. capacity	: 16m / 300 l/s / 33 kW
No. households	: 563

Social connections	: Church, school, commercial centre
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Technical Specifications

Civil structure

Canal	: Lined masonry/length: 53m
Penstock	: Ø 400 mm/length: 42m
Head	: 16m
Flow	: 300 l/s

Electro Mechanic

Turbine	: T 15, net head 16m, 33 kW
Turbine manufacturer	: Selam Plc