

MINIMUM AND MAXIMUM EFFECT OF 6 DAM

The impermeable masonry dam when constructed across an ephemeral stream will block the ground water flow and very minimal of the channel run off and ground water starts recharging runoff banks and adjacent areas during the storm period. During the dry periods the artificial river bank aquifers recharge the river channel with water. This phenomena progresses with seasons as the reservoir gets filled up with quality sand where water occupies 30% of the volume. Water stored in sand and river banks is less vulnerable to pollution, contamination and evaporation.

The dynamic water table in the river channel and the surrounding will keep on rising with seasons until it stabilizes (static) after a period of four to five years. Hence creating a wet land. Due to the raised water table around the dam area, the long lost plants and animals (flora and fauna) will start emerging and multiplying with time.

The deliberate capacity building of the beneficiaries during trainings and normal interaction with the project facilitation will strengthen the social fabric of the project community. The existence of these strong groups will create a power platform for bargaining their rights. The possibility of replication by other communities is very high.

The presence of sufficient water will motivate the community to initiate income generating activities hence improving their economic base such activities are irrigated crop farming and improved livestock keeping. The hygiene and sanitation of the project household will also improve.

In view of the above, the project will contribute towards the reduction of poverty in the three villages safe for the rejuvenated ecosystem.

No license required.

Increasing the dams by four will quantitatively increase both minimum and maximum effect in terms of the following sectors:-

- (1) Hydrologeological
- (2) Environment
- (3) Social
- (4) Economical

Beneficiaries

- Itulani village: 82 Households
- Kimwele village 75 Households
- Kalulini village 97 Households

Total 254 Households.