

SMART VILLAGES in AFRICA

SMART VILLAGES GLOBAL GRANT PROJECT

Clean and safe water, renewable energy and sustainable food are essential for human well-being. But almost 800 million people in the World is unable to access to clean water. Majority of this population lives in rural areas of Africa and Asia. People, most of the time, walk barefoot to get water from distant, often contaminated, sources. Usually, women and children take this dangerous journey. Attack of wild animals, rival tribes, rapes, miscarriages of pregnant women are very commonly reported during these hikes. Children waste their



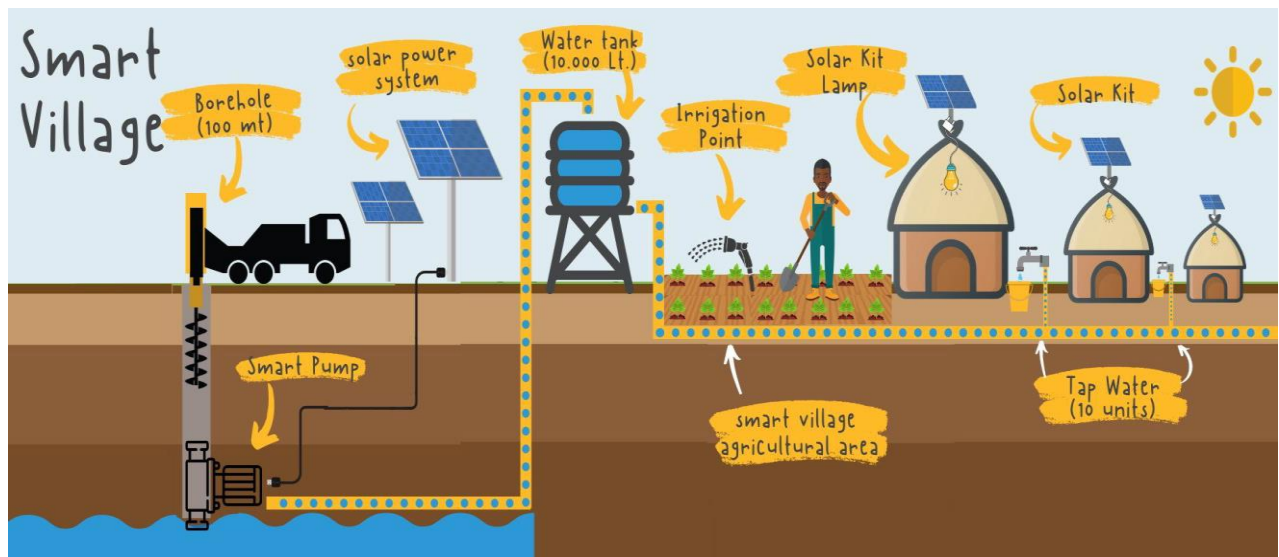
valuable school time to be able to obtain a small cup of water. Lack of water gives rise to many epidemic illnesses among poor people. Families cannot farm and produce sufficient food due to absence of water. Therefore; cycle of poverty and hunger goes on and on. Contaminated water takes many more lives then, every war on earth. 43% of those losses are children under age 5.

In the light of above facts; a clean and safe water provision project should give rise to a big change in those communities where project is meant to be implemented. People, who can access to clean and safe water running from nearby fountain regain their health, they can farm and produce sufficient food for their families. In short, water transforms lives.

With the mentioned project we propose; it is planned to provide clean water and solar power to four villages. Therefore; inhabitants may sustain better lives.

- Poverty reduction,
- Zero hunger,
- Positive climate change,
- Healthy individuals,
- Clean water and hygiene,
- Agricultural improvement,
- Gender equality,
- Employment,

Are basic and easily accessible goals of this project.



“Smart villages” project is intended to be implemented in **four** villages of **Tanzania**, where people lack clean water, electricity and sufficient food. Thus, suffer from health issues. Villages in such needs will be determined by Rotary D9214. Volunteers of our project partner IDEA INT., an experienced NGO, will carry out geological surveys by the help of fellow Rotarians of Tanzania and water wells will be drilled. Those villages are deprived dependable electrical energy as well. For this reason; water should be surfaced from 60-100 meter deep wells, by means of solar powered pumps and collected in tower type water tanks. Pipes will be laid to streets, neighbourhoods, schools and gardens and fountains will be constructed to supply clean water to inhabitants. Neighbourhoods, in addition, will be furnished with solar panels to supply electrical energy. Saplings and seeds will be provided to villagers to encourage them to farm and produce safe crops using clean water.

By the help of easily accessible water, hygiene needs of people, especially children will be fulfilled, which will yield to immediate recovery of illnesses such as diphtheria, dysentery, scabies etc.

In every environment where our project is to be carried out, we intend to change lives of at least 1500 people. **Four** villages are in target of our project, which means we aim to provide sustainable clean water, energy and farming opportunity to 6000 people. Smart Villages Global Grant project is calculated to cost **\$124,800**.



Rotarians, volunteers of our partner NGO and locals will work hand in hand in construction process. Female and male inhabitants will be trained for adobe brick

manufacturing, well drilling, maintenance of pumps and solar power units, irrigated farming etc. Those who attend training programs might have a job and maintain their living environment as a sustainable village. Trained villagers, in the future, should use their skills to help neighbouring communities to have their own water supplies and solar powered sustainable living environments.



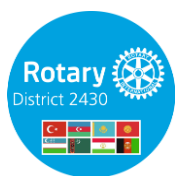
MEASURING SUCCESS

Enabling infrastructure

- o Enable creation of appropriate living conditions including protected drinking water, sanitation.
- o Enable creation of adequate common infrastructure including community halls, grain stores, communication systems and village energy systems.

Livelihoods and food security

- o Promote appropriate & ecologically conducive mechanisms for increasing food production and promote food security.
- o Facilitate generation of surplus from farm, off-farm, and non-farm activities through sustainable use of resources and develop capacities to deal with markets.
- o Facilitate processes for enhancing capacity of natural and human resources to enable livelihood security



Self governing people's institutions

- o Promote and strengthen people's and local self-governance institutions, at the village level to achieve self-reliance.
- o Institutionalise and promote mechanisms for equitable representation of the community at all levels, across caste, class and gender differences.
- o Enable community mechanisms to manage common resources and needs.
- o Enable women to have equal access and control over resources & processes
- o Promote clear knowledge of responsibilities and rights and ways to achieve them

Education and Health

- o Enable & promote people's access to basic education and primary health services
- o Provide opportunities for education up to high school level for tribal children from remote and isolated habitations/ hamlets
- o Promote community based mechanisms for maternal and child health care

Supply of drinking water and sanitation

- o 45 litres per person per day of clean drinking water from a protected and secure local source – pumped using a solar water pumping system to an overhead tower in each of the villages

BUDGET

| Category | Description | Cost in Total |
|---|--------------------------|----------------------|
| 1 Boreholes | 90-110 mt. | 7000.USD |
| 1 Tower | | 1800.USD |
| 1 Cistern | 10.000 lt, Polycarbonate | 1500.USD |
| 1 water pumo | Lorentz ps 1800 | 2500.USD |
| 1 Fountain mechanism | | 500.USD |
| 1 Pipe system | 10 rulo | 2000.USD |
| 1 Reservoir (water well) | Per: 500 | 500.USD |
| 1 Control Unit | 1200 | 1200.USD |
| 1 Solar Kit | Per: 100 | 100.USD |
| 1 Solar Panel | 370 watt | 400.USD |
| 1 Sustainable Farming training | | 1000.USD |
| Seeds | Per person: 3 USD, 2500 | 7500.USD |
| Coordination, Accommodation, Transportation | | 5200.USD |
| TOTAL for 1 VILLAGE | | 31,200.USD |

The total budget for 4 villages will be 124,800.USD