

# **SOLAR ENERGY PROJECT FOR SUMA ENGIKARET SECONDARY SCHOOL**

Proposed Project: SOLAR ENERGY PROJECT FOR SUMA ENGIKARET SECONDARY SCHOOL

## **SUMMARY OF THE PROJECT**

The project concerns about the solar Energy project for Suma Engikaret Secondary School found in Arusha, Tanzania.

We have 350 students, 80% of the local population are Maasaï.

The amount requested is TsSh 20,000,000/= which is equivalent to 7,300 Euro. The exchange rate is 2,740=1 Euro. We will provide for 10% of this cost.

The aim of the project is to supply light to our school, hence forth providing conducive environment for our students.

## **BACKGROUND OF SUMA ENGIKARET**

The community was started by a volunteer of flying medicals organization in 1980's. When the volunteer left, he gave the house to the Holy Ghost fathers, who started the work of primary evangelization and started the center for catechesis. From 1995 the center started to offer one year English course to the Maasaï children. This program lasted until 2010.

## **THE RIVAVIL OF THE CENTER**

In 2011 Fr Renatus Karumuna CSSp started the secondary school to help the Maasaï children. The main challenges were: water, lack of buildings and the source of light, since the national grid was far away from the mission. Currently the mission has got enough buildings, but light was and still is a problem. We had to buy some small solar panels to keep us going. However with the coming of the national electricity grid in 2016, the problem of power fluctuation remain a big problem for our students especially at night during the time of national and internal exams. The electricity is often cut for days.

## PROBLEMS FACED

Our students face problem whenever there is power cut off and even during rainy seasons the power is not reliable. Our school is situated far away from the city, therefore it takes long to repair the grid line, and hence we stay for a long time without electricity.

Furthermore, the costly bill of the national grid power (TANESCO) becomes a headache to be covered monthly. Henceforth with the installation of solar power we will help the school to overcome those expenses

## OBJECTIVES

To provide conducive environment for our students, teachers and workers as far as studying and teaching is concerned.

## BENEFICIARIES

The direct and indirect beneficiaries are our students, teachers and other workers who live in our compound. The school aims at helping the Maasai children (who are the majority) in getting a good quality education.

## PROJECT BUDGET

The project cost will be 7,300 Euro, which is equivalent to TsSh 20,000,000/=

Description	Quantity	Unit	Unit price	Total in TzSh
Solar panels	20pcs	100 W	300 000	6 000 000
Batteries	10	200N	600 000	6 000 000
Charge controlers	8	50A	400 000	3 200 000
Sockets	40		6 000	240 000
Inverters	4	80A	300 000	1 200 000
Cables	4 rouleaux	2.5 mm	200 000	800 000
Cables	50m	6mm	6 000/m	300 000
Balbus and tubs for solar	60		15 000	900 000
Interrupters	60		3 000	180 000
Labor cost				1 180 000

Total				20 000 000
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## CONCLUSION

This solar project will be beneficial to us, since we are situated in a remote area whereby we get enough sunshine throughout the day. With this solar energy we expect to perform a lot and our students will study comfortably. For instance in 2017 national form 4 examination our school ranked I district wise, 11<sup>th</sup> Regional wise and 215 country wise out of 3039 secondary schools. Henceforth the performance of our school will continue to be higher and higher, and so give the chance for the Maasäi children for further studies.

By Fr Renatus Karumuna CSSp

POBox 3044 Arusha

TANZANIA

E-mail: [karumuna68@gmail.com](mailto:karumuna68@gmail.com)

Phone: +255 763 942 334/659 753 928