

TERMS OF REFERENCE: SOLAR SYSTEM | ZAMBIA

Product	Solar System - Zambia
Submission	Sashie Parbhoolal – sashie@miet.co.za
Deadline	7 August 2020

Introduction & Programme Overview

FutureLife-Now! is a regional school-based programme aimed at reducing new HIV infections and increasing ART adherence amongst young people in the SADC region. To achieve this goal, the programme utilizes three key levers necessary for behaviour change: (1) factually accurate HIV/SRHR information; (2) accessible youth-friendly HIV/SRHR services and support; and (3) learner agency that empowers young people to make decisions and take actions in areas that impact their lives. The important crosscutting issues of climate change and gender are integrated into all programme activities. MIET AFRICA is SADC's technical assistance partner, supporting SADC with programme implementation at the regional level and Member States at the country level.

Zambia has in the recent past witnessed an increase in economic activity which has led to an increased energy demand. This increased demand for energy has overshot the hydroelectric power generating capacity. Consequently, the national power utility company, the Zambia Electricity Supply Corporation (ZESCO), instituted nationwide load shedding schedules that last up to 12 hours daily. This development has far reaching social and economic effects on the lives and operations of the poor who routinely depend on stable access to electricity. In this regard, the FutureLife-Now! programme will provide support to the 10 FutureLife-Now! schools in Zambia by supplying and installing solar systems.

Scope of Work

MIET AFRICA requires a service provider to supply and install a modular upgradeable solar system to the 10 FutureLife-Now! schools.

Product Specification:

Product	Solar System
Quantity	10 schools
Design Criteria	To power the following for 6 hours: <ul style="list-style-type: none"> • Lights in the school admin block • 2 laptops • 1 data projector • WiFi dongle
System Package	<ul style="list-style-type: none"> - Victron 3kVA inverter with charger and automatic changeover - At least 2.4kW of PV solar panels, tier 1, poly or mono crystal - Suitable solar charge controller, compatible with inverter - Panel mount structure with class 1&2 lightning protection - 4.8kW.h Lithium ion battery bank with 6000 cycles @ 80% DOD - Lockable battery cabinet

	<ul style="list-style-type: none"> - PV combiner box - Comprehensive data logging and online monitoring via web portal - System earthing - All ancillary components to make system work - Transport to site - Installation
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School Addresses:

School name	School address
KAPIRI GIRLS TECHINCAL SCHOOL	1 Mushili Road, Kapiri District Central Province
MUKOBEKO SECONDARY SCHOOL	Kabwe Institute of Technology Kabwe District, Central Province
DAVID RAMUSHU SECONDARY SCHOOL	KASANDA MINE TOWNSHIP Kabwe District, Central Province
CHIBOMBO SECONDARY SCHOOL	Chibombo District Central Province
MOOMBA SECONDARY SCHOOL	Chibombo District 13 Miles from Lusaka, Central Province
MWEMBESHI SECONDARY SCHOOL	Along Mumbwa Road Lusaka West Lusaka Province
NABOYE SECONDARY SCHOOL	Kafue Estates, 0/0,59-P59/1 Chomba. Kafue Estates-C5 Kafue District, Lusaka Provinc
LUSITU SECONDARY SCHOOL	Along Siavonga Road Chirundu District, Lusaka Province
NAKATETE SECONDARY SCHOOL	Kafue District Lusaka Province
MUKAMAMBO 2 SECONDARY SCHOOL	Chongwe District Lusaka Province

Quotation submission

All quotations must be submitted by email to Sashie Parbhoolal at sashie@miet.co.za, by 12 noon on **7 August 2020**.

Quotations must include delivery and evidence of ability to deliver the described scope of work and value for money.

The bidder can propose any other item/brand with equivalent or superior specifications.

Standard warranty must be included.

100% payment will be made after supply and installation.

No late submissions will be considered.

Please also submit the following documentation:

1. Relevant business registration documents
2. Company profile
3. Copy of representative's ID / Passport document
4. Original valid tax clearance certificate
5. Proof of banking details not older than 3 months
6. ERB Solar Import Licence
7. Equipment datasheet