

INTERNAL VERIFICATION FORM: GS VER MICRO-SCALE PROJECT

Title: Zengamina Mini Hydro Scheme
GS ID: GS355
GS Version: 1.0
Submitted by: Climate Care
Submitted on: 21/02/2013
Contact: Mr. Joash Obare (joash.obare@climatecare.org)
Date of GS Feedback – I round: 10 April 2013
Date of GS Feedback – II round: 17 May 2013

Registration Date: 14/07/2007

Start date of crediting period: 14/07/2007

3rd Monitoring period: 01/07/2011 - 31/12/2012

Amount of GS VERs under review: 1,633 tCO₂eq

Year	GS VERs (tCO ₂ e)
2011 - 01/07/2011 to 31/12/2011	511
2012 - 01/01/2012 to 31/12/2012	1,122
Total	1,633

Previous Issuances

14/07/2007 to 31/06/2010	1,064 tCO ₂ eq
01/07/2010 to 31/06/2011	785 tCO ₂ eq

Summary:

The project is generating renewable energy by a mini-hydroelectric power plant, replacing diesel electric plants at the Kalene Hills hospital, Hillwood farm and Sakeji School and providing electricity to previously unserved areas to include schools, clinics and commercial/industrial entities. The project is a run-of-river hydroelectric power plant of 700KW installed capacity consisting of low head weir (restraining wall for water), 300 metre canal (to channel water to the headpond), head pond (for settling the water to remove silt and debris and channels it into a 1.6 metre diameter penstock), 75 metre penstock and power house, and it is located in Zambia, North Western Province, Mwinilunga district - Kalene Mission, situated 1000 km from the capital city Lusaka.

General comments:

The Gold Standard has identified clarification and corrective action requests as outlined in the table below. These outstanding issues must be resolved before the project may be issued with GS VER credits. Please provide your responses in the table below along with the revised project documentation and any other supporting documents that may be required to resolve the issues.

Document(s) provided and reviewed (1st round)

- _Zengamina Mini_Hydro Monitoring Report_120813.pdf (Dated – 20/02/2012, version 2; Date of uploading 21/02/2013)
- Emission reduction calculation sheet: _ZPL Monthly kWhrs - July 2011 to Dec 2012-130124.xlsx
- _Zengamina Livelihood Survey Report.pdf
- _NAPSA Nov 2012 return.pdf
- Project Design Document v1.3 (Date of uploading - 26/08/2008)
- GS 355_Internal_Verification_ver1_23122011.pdf

Document(s) provided and reviewed (2nd round)

- Other reference documents.

Decision:

Rejected	☐
Request for clarifications and /or corrective action	☒
To be submitted for external verification	☐
Verified	☐

Requests for clarifications and/or corrective actions:

Section	Clarifications and/or corrective action needed	Reasons for clarification and/or corrective action	Suggestions on how to proceed	Response by Project Proponent
Monitoring report				
1. Total electricity generated				
1.	1. The PP shall clarify if the calibration frequency of the meters is in compliance with the host country legislation or meets the manufacturer specifications.	Periodic calibration of meters should be carried out.		The ISKRAEMECO MT831 meter that is used for monitoring is designed and manufactured in such a way that it does not need any maintenance interventions in the entire lifetime. Measuring stability assures that no recalibration is required. The meter with the internal battery assures sufficient capacity for performing battery-supported functions for the entire lifetime (see attached meter manual). The meter meets the manufacturers calibration conditions. Due to these feature, the meter does not require any calibration unless it stops functioning, and during the monitored period, the meter has never stopped functioning.
The request/comment has been closed.				
2. SD Indicators				

Section	Clarifications and/or corrective action needed	Reasons for clarification and/or corrective action	Suggestions on how to proceed	Response by Project Proponent
8.	Employment numbers: Please submit documentary evidences for the number of jobs created for this monitoring period.			In the last monitoring period, the company had 11 staff employed on permanent basis. During the current monitoring period, the company has 12 employees, and as such, there has been an increase of 1 new staff employed in the current monitoring period. However, the project employs casual workers from time to time depending on the work needs at that particular time. Tax returns for the Month of November 2012 is attached (NAPSA Nov 2012 return) to demonstrate the number of employees in the company. In the tax returns submitted, there is asterisk which shows those who are on casual employment.
The request/comment has been closed.				