

**Revision of Monitoring Plan****Liujiashan 10 MW Small Hydropower Project in Jiangxi Province****(CDM Registration Reference No. 1477)****Dated: 18/10/2011****B.7. Application of a monitoring methodology and description of the monitoring plan:****B.7.1. Data and parameters monitored:**

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<b>Data / Parameter:</b>	$EG_y$
Data unit:	GWh
Description:	<i>Electricity supplied to the grid by the Project.</i>
Source of data to be used:	<i>Measured by the gateway meter installed at the substation</i>
Value of data applied for the purpose of calculating expected emission reductions in section B.5:	25.09
Description of measurement methods and procedures to be applied:	<i>The electricity supplied to CCPG by the Project is measured continuously through the gateway meter at the substation and will be recorded by designated staff on a monthly basis.</i>
QA/QC procedures to be applied:	<i>Please refer to Part B.7.2.</i>
Any comment:	-

<b>Data / Parameter:</b>	$A_{PJ}$
Data unit:	$km^2$
Description:	<i>Surface area of the reservoir at full level</i>
Source of data to be used:	<i>Project site</i>
Value of data applied for the purpose of calculating expected emission reductions in section B.5:	1.07
Description of measurement methods and procedures to be applied:	<i>The area will be monitored based on topographical data and the height of the dam</i>
QA/QC procedures to be applied:	-
Any comment:	<i>Monitored once at the start of the project. Monitored data will be kept during the crediting period.</i>

<b>B.7.2 Description of the monitoring plan:</b>
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In this PDD, emission factor of the Project is determined ex-ante. Therefore the electricity supplied to the grid by the Project is defined as the key data to be monitored. The monitoring plan is drafted to focus on monitoring of the data.

### 1. Implementation of the monitoring plan

The Project owner, Zixi Sanjiang Hydropower Co., Ltd will take the responsibility of the monitoring plan implementation.

The staff from technology and financial departments will undertake the monitoring tasks including watching metering equipments daily, collecting electricity data and completing records, checking and analyzing the data, archiving relevant records, and reporting to company administrator or supervisor.

The staff concerned will receive training on monitoring and measurement to ensure the implementation of this monitoring plan before project operation. In the following years within the crediting period, the training will also be provided.

### 2. Monitoring of the electricity supplied to the grid by the Project

The electricity delivered to CCPG by the Project will be continuously monitored through the gateway meter installed at the substation. On-duty staff will watch the operation status of metering equipments everyday on site. Furthermore, designated staff will collect the measured electricity data and complete the corresponding records on a monthly basis. Before being archived, these records will be checked by other staffs to ensure the correctness. The data from these records will be digested and analyzed and the results will be reported to company administrator or supervisor.

All the relevant data records will be kept by the Project owner during the crediting period and two years after for DOE's verification.

### 3. Quality assurance and quality control

The quality assurance and quality control procedures involves of data monitoring, recording, maintaining and archiving, and monitoring equipment calibration.

The electricity delivered to CCPG by the Project will be monitored through the gateway meter at the substation. The data should be cross-checked against relevant electricity sales receipts and/or records from the grid for quality control. Since the data required to be monitored is consistent with the data required during project operation by the Project owner and the grid company, the Power Purchase Agreement between these two parties can be used as reference to data collection and documentation.

Calibration of Meters & Metering should be implemented according to national standards and rules (such as *DL/T448-2000 the Technical Management Rules for Electric Power Measuring Installations*), and all the records should be documented and maintained by the Project owner for DOE's verification.

Problem occurred in monitoring and measurement process will be recorded and reported to company administrator or supervisor. Consequently, the corrective resolution will be adopted to deal with that problem and to avoid it occur again in future.

#### **4. Verification**

It is expected that the verification of emission reductions generated from the Project will be done annually.