
Validation Opinion on the Post Registration Changes

SPP Five Co., Ltd.

SPP5 Solar Power Project

(Ref.8649)

Project No. JQA-C0275

29 Jun 2015



Japan Quality Assurance Organization

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| Date of issuance : 29/06/2015 | Version : 1.0 | Project No.: JQA-C0275 | UNFCCC Ref.: 8649 |
| Monitoring period : 01/01/2013 – 31/12/2014 | Applied Methodology : AMS-I.D. (Ver. 17.0) | | Registration Date : 11/12/2012 |
| Project Title : SPP5 Solar Power Project | | | |
| Client (Project Participant): SPP Five Co., Ltd | | Other Project Participants : - Asian Development Bank, as trustee of the Future Carbon Fund - Swedish Energy Agency | |
| Project Design Document: - Registered version and the issue date: Ver.1.3, 29/10/2012 - Revised version and the issue date: Ver.2.1, 13/04/2015 | | | |
| <p>Summary:</p> <p>Japan Quality Assurance Organization (JQA) has performed the 1st periodic verification of the emission reductions achieved by the registered CDM project activity, "SPP5 Solar Power Project", under the contract with SPP Five Co., Ltd. The verification covers the monitoring period from 01/01/2013 to 31/12/2014.</p> <p>The on-site assessment was conducted on 26/03/2015. During the verification, the PPs claimed some post-registration changes in the registered PDD (Version 1.3, dated 29/10/2012), and the assessment team identified them through the observation of the project implementation. Those post-registration changes were assessed in accordance with the Validation and Verification Standard (Version 07.0), and as a result, those changes are verified to be categorized into three correction type of changes. It is also determined that those changes do not require prior approval by the Executive Board in accordance with the Project Standard (Version 07.0).</p> <p>Therefore, the assessment team concludes its validation opinion on the post registration changes in this report, and also confirms that the revised PDD (Version 2.1, dated 13/04/2015) is corrected appropriately, with reflecting the actual project implementation properly. As a result, JQA submits the request for approval to the Executive Board, via the process of the Project cycle procedure (Version 07.0).</p> | | | |
| Verification Team: | | Technical Reviewer: | |
| Leader : Koichiro Tanabe (Leader Assessor) Member : Chakra Chaemfa (Member Assessor) Member : Hiroshi Motokawa (Member Assessor) | | Tadashi Yoshida | |
| Approved by Senior Executive:  Tadayuki Yano | | | |

1. Introduction

The project “SPP5 Solar Power Project” was registered on 11/12/2012 with the methodologies AMS-I.D. (Ver.17). According to the Validation and Verification Standard (VVS, Version 07.0), JQA has verified the monitoring period covering 01/01/2013 through 31/12/2014 under the contract with SPP Five Co., Ltd.

The on-site assessment was conducted on 26/03/2015, and the assessment team observed some inconsistencies between the registered PDD (Version 1.3, dated 29/10/2012) and the implementation of the project activity. As a result, the findings were categorized into three correction type of changes. JQA has assessed these post-registration changes and the validation opinions are summarized as follows:

2. Overview of post registration changes

The overview of post registration changes listed in this report is as follows:

| No. | Identified changes | Type of changes | Prior approval by the board is required? |
|------|--|-----------------|--|
| PRC1 | Number and accuracy level of the electricity meters | Corrections | No |
| PRC2 | Description of the parameters $EG_{\text{facility},y}$, $EG_{\text{export},y}$ and $EC_{\text{import},y}$ | Corrections | No |
| PRC3 | Details of project participants | Corrections | No |

3. Assessment results and validation opinion

3.1. Number and accuracy level of the electricity meters (PRC1)

The number and the accuracy level of the electricity meters, which have been installed in the project site, were verified through physical inspection and review of the relevant documents, as below:

| ID of meters | Details of the electricity meters | The accuracy levels of the electricity meters |
|--------------|---|---|
| M01 | PEA's meter for monitoring electricity exported to the grid that is located in the grid-in point of the project site (on an electricity transmission pole). | 0.5S (owned and calibrated by PEA) |
| M02 | PEA's meter for monitoring electricity imported from the grid that is located in the grid-in point of the project site (on the same electricity transmission pole mentioned above). | 0.5S (owned and calibrated by PEA) |
| M03 | PO's internal meter for monitoring electricity exported to/imported from the grid that is located in the substation next to the control room of the project site. | 0.2S (owned and calibrated by PO) |

It is confirmed through document review that the electricity meters of M01 and M02, which have both an accuracy level of 0.5S, are owned by Provincial Electricity Authority (PEA).

It is also confirmed through interview with CDM manager that the electricity meters for transaction between the Project Owner (PO) and PEA are under the control of PEA, who is the national organization in charge for VSPP (Very Small Power Plant) in Thailand, and has responsibility for installation, operation and maintenance of installed electricity meters as per their internal standards. In other words, the design of monitoring activities, including specification of measuring equipment, has been essentially determined by PEA at a planning stage, and those installed meters have certainly met the PEA's guidelines. Therefore, it is concluded that the findings are not permanent changes from the registered monitoring plan or changes to the project design of the registered project activity but corrections in the revised PDD. And, they do not affect the design of the project activity.

3.2. Description of the parameters $EG_{\text{facility},y}$, $EG_{\text{export},y}$ and $EC_{\text{import},y}$

It is confirmed that the name of the parameters ($EG_{\text{facility},y}$, $EG_{\text{export},y}$ and $EC_{\text{import},y}$) have been corrected/described consistently throughout the revised PDD (and the MR) as below, and the correction does not affect the design of the project activity.

| | In the registered PDD | In the revised PDD |
|--------------------------|--|--|
| $EG_{\text{facility},y}$ | <ul style="list-style-type: none"> Quantity of net electricity supplied to the grid in year y | <ul style="list-style-type: none"> Quantity of net electricity supplied by the project activity to the grid in year y |
| $EG_{\text{export},y}$ | <ul style="list-style-type: none"> Quantity of net electricity exported to the grid in year y; and Electricity exported to the grid in year y | <ul style="list-style-type: none"> Quantity of electricity exported to the grid in year y |
| $EC_{\text{import},y}$ | <ul style="list-style-type: none"> Quantity of electricity imported from the grid by the project activity in year y; and Quantity of electricity imported from the grid (when the plant is not operated) in year y | <ul style="list-style-type: none"> Quantity of electricity imported from the grid in year y |

3.3. Details of project participants

It is confirmed that the details of project participants have been updated in the revised PDD through review of the approved Modalities of Communication Statement and its Annex 2, valid as of 20/02/2015 and 19/02/2015 on the project view page of UNFCCC website respectively. The correction does not affect the design of the project activity.

4. Conclusion

It is confirmed that the corrected information in the revised PDD accurately reflects the actual project information, and these findings are eventually closed with satisfactory results.

All of the above-mentioned post registration changes do not require prior approval by the Executive Board, in accordance with the Project Standard (Version 07.0) and VVS (Version 07.0). Therefore, the assessment team prepares this validation opinion report, and submits a request for approval of changes together with the request for issuance. The revised PDD is referred to as the relevant attachments of this request for approval.