JCM Validation Report Form

A. Summary of validation

A.1. General Information

Title of the project	Installation of High Efficiency Loom at Weaving Factory
Reference number	BD003
Third-party entity (TPE)	TPE-BD-002 Japan Quality Assurance Organization (JQA)
Project participant contracting the TPE	Toyota Tsusho Corporation
Date of completion of this report	22/03/2018

A.2 Conclusion of validation

Overall validation opinion	☒ Positive ☐ Negative

A.3. Overview of final validation conclusion

Only when all of the checkboxes are checked, overall validation opinion is positive.

Item	Validation requirements	No CAR or CL remaining
Project design document form	The TPE determines whether the PDD was completed using the latest version of the PDD forms appropriate to the type of project and drafted in line with the Guidelines for Developing the Joint Crediting Mechanism (JCM) Project Design Document, Monitoring Plan and Monitoring Report.	☒
Project description	The description of the proposed JCM project in the PDD is accurate, complete, and provides comprehension of the proposed JCM project.	☒
Application of approved JCM methodology (ies)	The project is eligible for applying applied methodology and that the applied version is valid at the time of submission of the proposed JCM project for validation.	☒
Emission sources and calculation of emission reductions	All relevant GHG emission sources covered in the methodology are addressed for the purpose of calculating project emissions and reference emissions for the proposed JCM project.	☒
	The values for project specific parameters to be fixed *ex ante* listed in the Monitoring Plan Sheet are appropriate, if applicable.	☒
Environmental impact assessment	The project participants conducted an environmental impact assessment, if required by the People's Republic of Bangladesh, in line with Bangladeshi procedures.	☒
Local	The project participants have completed a local stakeholder	☒

Item	Validation requirements	No CAR or CL remaining
stakeholder consultation	consultation process and that due steps were taken to engage stakeholders and solicit comments for the proposed project.	
Monitoring	The description of the Monitoring Plan (Monitoring Plan Sheet and Monitoring Structure Sheet) is based on the approved methodology and/or Guidelines for Developing the Joint Crediting Mechanism (JCM) Project Design Document, Monitoring Plan, and Monitoring Report. The monitoring points for measurement are appropriate, as well as whether the types of equipment to be installed are appropriate if necessary.	☒
Public inputs	All inputs on the PDD of the proposed JCM project submitted in line with the Project Cycle Procedure are taken into due account by the project participants.	☒
Modalities of communications	The corporate identity of all project participants and focal points, as well as the personal identities, including specimen signatures and employment status, of their authorized signatories are included in the MoC.	☒
	The MoC has been correctly completed and duly authorized.	☒
Avoidance of double registration	The proposed JCM project is not registered under other international climate mitigation mechanisms.	☒
Start of operation	The start of the operating date of the proposed JCM project does not predate January 1, 2013.	☒

Authorised signatory:	Mr. ☒ Ms. ☐
Last name: Asada	First name: Sumio
Title: Senior Executive	
Specimen signature: [redacted]	Date: 22/03/2018

B. Validation team and other experts

	Name	Company	Function*	Scheme competence*	Technical competence*	On-site visit
Mr. ☒ Ms. ☐	Koichiro Tanabe	JQA	Team leader	☒	Authorized	☐
Mr. ☐ Ms. ☒	Sachiko Hashizume	JQA	Team member	☒	Authorized	☐
Mr. ☒ Ms. ☐	Tadashi Yoshida	External Individual	Internal reviewer	☒	Authorized	☐

Please specify the following for each item.

* *Function: Indicate the role of the personnel in the validation activity such as team leader, team member, technical expert, or internal reviewer.*
* *Scheme competence: Check the boxes if the personnel have sufficient knowledge on the JCM.*
* *Technical competence: Indicate if the personnel have sufficient technical competence related to the project under validation.*

C. Means of validation, findings, and conclusion based on reporting requirements

C.1. Project design document form

<Means of validation>

Through a review of the draft PDD, it was checked and confirmed that the PDD was completed using the latest version of the PDD form (JCM_BD_F_PDD_ver03.0) appropriate to the type of project and drafted in line with JCM Guidelines for Developing PDD and MR (JCM_BD_GL_PDD_MR_ver03.0)

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

No outstanding issue was raised.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

The validation team concluded that the PDD was completed using the valid form in line with the JCM Guidelines for Developing PDD and MR.

C.2. Project description

<Means of validation>

The title of the proposed JCM project is “Installation of High Efficiency Loom at Weaving Factory” (herein after referred to as the proposed JCM project). The proposed JCM project aims to reduce CO_2 emissions from electricity consumption in the People’s Republic of Bangladesh (herein after referred to as Bangladesh) by installing energy efficient air jet looms in Bangladesh's textile industry. The project participant from Bangladesh is Hamid Fabrics Limited (herein after referred to as HFL) and the project participants from Japan is Toyota Tsusho Corporation (herein after referred to as TTC). The proposed JCM project is expected to achieve the amount of 437 tCO_2e emission reductions per annum. The estimated emission reductions of the period between 2018 and 2020 are calculated to be 3,058 tCO_2e in the PDD.

The starting date of project operation is defined as 24/06/2018 and the expected operational lifetime of the proposed JCM project is defined as 7 years. With respect to the staring date of project operation, an issue was raised and resolved as mentioned in Section C.10 of this validation report. The proposed project was partially supported by the Ministry of the Environment, Japan (MOEJ) through the financing programme for JCM Model projects, which provided financial support of less than half of the initial investment for the projects in order to acquire JCM credits. Further, implementation of the proposed project promotes technology transfer of low carbon technologies in Bangladesh as high efficiency air jet looms equipped with energy saving technologies are installed through the MOEJ’s programme.

The validation team conducted desk review and interviews to confirm the accuracy and completeness of the project description. The documents reviewed during the desk review are listed in Section E.2 of this report. The interviewees are listed in Section E.1. The validation team did not visit the project site, for local security reasons and according to the validation contract. Based on the findings through the process taken, an issue was raised and resolved as described below.

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

(Issue raised as CL01)

It is requested to clarify the detailed address of project site in Section A.3 of PDD. It is requested to describe the latitude and longitude by using a format searchable by google map.

(Summary of the response on CL01)

Latitude, longitude information of the project site in the PDD has been revised based on the Google map output showing the location of the Hamid Fabrics factory and its geographical coordinates. The Google map output is submitted for review.
(Assessment result of the responses on CL01)
It was confirmed that the provided latitude and longitude information is searchable in Google map. The validation team identified the location of Hamid Fabrics factory on the Google map. Therefore, this issue was closed.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

The validation team concluded that the accuracy and completeness of the project description were valid.

C.3. Application of approved methodology(ies)

<Means of validation>

The project applies the approved methodology BD_AM003 "Energy efficiency improvement through the introduction of energy efficient air jet looms in textile industry" version.01.0. This methodology was approved by JC on 16 October 2017. It is confirmed that this methodology is applicable to the proposed JCM project and the applied version of 01.0 is valid at the time of submission of the project for validation. The fulfilment of each eligibility criterion defined in the methodology is confirmed by checking the documentation referred to in the PDD and by reviewing comparable information.

Criterion 1: The air jet loom(s) are introduced at a textile factory. The air jet looms introduced as part of the project are equipped with energy saving technologies such as an optimized shape reed's tunnel of nozzles and a pressure sensor to measure air pressure of nozzles for optimization of compressed air consumption of weft insertion.

Through reviewing the annual report of HFL, the validation team confirmed that it is one of the leading manufacturers of high quality textiles in Bangladesh. The product range offers 100% cotton fabrics as well as blended fabrics such as cotton/polyester, cotton/viscose, nylon/cotton and cotton/lycra. The weaving unit produces gray fabrics in various design and constructions such as Twill, Canvas, Oxford, Rib stop, Rib cord, Ottoman, Herringbone, and various dobby designs.

Through reviewing the equipment specifications attached to the quotation of 60 sets of air jet looms prepared for HFL by TTC, it was confirmed that the model number of the project air jet looms is JAT810. Through reviewing the brochure of JAT810, it was confirmed that air jet loom JAT810 is equipped with optimized shape reed's tunnel of nozzles and a pressure sensor to measure air pressure of nozzles for optimization of compressed air consumption of weft insertion.

Therefore, it was confirmed that the proposed JCM project is satisfying this eligibility criterion.

Criterion 2: Periodical checks of the project air jet loom(s) are conducted at least once every calendar year.

Through reviewing the provided record of periodical checks, "Monthly Preventative Maintenance status" and "Weekly Greasing & Oiling Schedule Record", it was confirmed that the project participants implement greasing and oiling weekly and preventative maintenance monthly. Regarding Criterion 2, an issue was raised and resolved as mentioned in the section below. As a result, it was confirmed that the proposed JCM project is satisfying this eligibility criterion.

Criterion 3: Shedding mechanism of the project air jet loom(s) is either Cam or Dobby shedding.

Through reviewing the equipment specifications attached to the quotation of 60 sets of air jet looms prepared for HFL by TTC and it was confirmed that 45 sets of air jet looms are Cam shedding and 15 sets of air jet looms are Dobby shedding. Therefore, it was confirmed that the proposed JCM project is satisfying this eligibility criterion.

Criterion 4: The effective reed width of the project air jet loom(s) is less than or equal to 190 cm.

Through reviewing the equipment specifications attached to the quotation of 60 sets of air jet looms prepared for HFL by TTC, it was confirmed that the effective reed width of the project air jet looms is 190cm. Therefore, it was confirmed that the proposed JCM project is satisfying this eligibility criterion.

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

(Issue raised as CL03)

With respect to the eligibility criterion 2, it is requested to clarify the detail of periodical check of project air jet looms, especially responsibility, schedule and check items.

(Summary of the response on CL03)

To maintain smooth operation of project air jet looms, Hamid Fabrics plans to conduct periodic check of project air jet looms on monthly and weekly basis. The main activities for both monthly and weekly periodic check of air jet looms are greasing, oiling, and cleaning of parts outlined in the "weekly greasing & oiling schedule record" and "monthly preventive maintenance status".

(Assessment result of the responses on CL03)

Through reviewing the provided samples of "weekly greasing & oiling schedule record" and "monthly preventive maintenance status", it was confirmed that the periodical checks and preventative maintenance of project air jet looms are conducted weekly and monthly by HFL. The validation team confirmed that the actual implementation of the proposed JCM project satisfies the eligibility criterion 2. Therefore, this issue was closed.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

The validation team confirmed that the project meets each eligibility criterion of BD_AM003_ver01.0 which is the latest version of the methodology at the time of the validation. The issue raised by the team was fully clarified. Therefore the team concluded that the project is eligible for applying selected methodology and that the applied version is valid at the time of submission of the proposed JCM project for validation.

C.4. Emission sources and calculation of emission reductions

<Means of validation>

The sources of reference emissions is electricity consumption by reference rapier looms. The sources of project emissions is electricity consumption by the loom motors and air compressors of the project air jet looms. The validation team conducted the

validation for the proposed JCM project through reviewing the relevant supporting documents, and without an on-site visit for security reasons. As a result, it is confirmed that all emission sources covered in the applied methodology are included. The Monitoring Plan Sheet (MPS) has been prepared by using JCM_BD_AM003_ver01.0.xlsx. The validation team confirmed that it is not altered, and its required fields are appropriately filled in.

As for two project specific parameters to be fixed ex ante, namely, $EF_{elec,grid}$ (CO_2 emission factor for the grid electricity consumed by the project) and $EF_{elec,cap}$ (CO_2 emission factor for the captive electricity consumed by the project), the validation team assessed the estimated value for each of them by supporting documents including photos of the captive power generator using natural gas as fuel at the project site. In the course of such assessment issues were raised and resolved as mentioned in the section below.

As for the parameters to be monitored ex post, project participants provide the estimated values of $\Sigma EC_{PJLM,p}$ (Total electricity consumption by the motor(s) of the project air jet loom(s) during the period p) and $\Sigma EC_{PJAC,p}$ (Total electricity consumption by the air compressor(s) of the project air jet loom(s) during the period p) to complete the ex-ante estimation of CO_2 emission reductions to be achieved by the proposed JCM project in Table 3 of Monitoring plan sheet (Input sheet). Regarding the assumption of operation date of the project equipment which are used for the ex-ante estimation of the electricity consumptions, an issue was raised and resolved as mentioned in the section below.

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

(Issue raised as CL04)

The estimated value of CO2 emission factor for the grid electricity consumed by the project ($EF_{elec,grid}$) in the MPS is 0.656. But the value in Letter on the CO_2 emission factor for the grid electricity in Bangladesh issued by Ministry of Environment, Government of the People's Republic of Bangladesh dated 19/08/2013, which was provided as the source of the estimated value is 0.67. It is requested to clarify the inconsistency. Regarding CO_2 emission factor for the captive electricity consumed by the project ($EF_{elec,cap}$), the default value for the captive electricity with natural gas as fuel, 0.46 is applied. It is requested to clarify the fuel used for the captive power generator of the HFL.

(Summary of the response on CL04)

PDD has been revised to reflect the latest published grid emission factor for Bangladesh, which is 0.67. The fuel used for the captive power generator of the HFL is natural gas.

(Assessment result of the responses on CL04)

It was confirmed that the grid emission factor for Bangladesh was revised as 0.67 in the MPS. Through reviewing the picture provided by PPs, it was confirmed that the fuel used for the captive power generator at the Hamid Fabrics factory is natural gas. Therefore, this issue was closed.

(Issue raised as CL06)

There are two parameters to be monitored ex post as below;

1. Total electricity consumption by the motor(s) of the project air jet loom(s) during the period p [MWh/p]
2. Total electricity consumption by the air compressor(s) of the project air jet loom(s) during the period p [MWh/p]

The PP estimated each value by multiplication using the rated energy consumption of motors and compressors, number of project air jet looms and number of operation date.

With respect to the number of operation date, it is requested to clarify the appropriateness of the applied value (24hours x 30days x 12months) in terms of legal restraints or not, such as labor legislations in Bangladesh.

(Summary of the response on CL06)

According to Hamid Fabrics, the factory is in operation for 24hrs/day (3 shifts per day). Also, according to the factory record, the number of operating days between March 2017 and January 2018 was 299days, which leads to monthly average operating days of 27days/month. The applied value used for the emission reduction calculation (24hours x 30days x 12months) has been revised to reflect actual number of operating days (24hours x 27days x 12months).

(Assessment result of the responses on CL06)

It was confirmed that the justification on the operation hours is reasonable and the revision of the emission reductions calculation was reflected in the revised PDD and MPS appropriately. Therefore, this issue was closed.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

The validation team reached the conclusion that the selected emission sources and GHG types were justified for the JCM project. The validation team assessed the estimated values for project-specific parameters both to be fixed ex ante and to be monitored ex post in the MPS including intermediate processes to derive the values. The issues raised by the team were fully clarified, which resulted in a revision of the PDD and the MPS. As a result, those estimated values fixed ex-ante, and ex-ante estimation of CO_2 emission reductions were considered reasonable in the context of the proposed JCM project.

C.5. Environmental impact assessment

<Means of validation>

It is confirmed through the review of the following documents that no environmental impact assessment is required for the project, in line with the Environment Conservation Rules, 1997, in Bangladesh.

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

No outstanding issue was raised.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

The validation team concluded that the project design of the proposed JCM project was in accordance with the regulation in Bangladesh.

C.6. Local stakeholder consultation

<Means of validation>

The project participants identified the main stakeholders as those who operate and maintain the project facility at the project site. A stakeholder meeting has been conducted to invite comments from the stakeholders as below.

Date and Time	8 August, 2017 10:30－12:30 Bangladesh standard time (BST) (or 13:30 – 15:30 Japan standard time (JST))
Venue	The following two locations were connected via TV conference

	system: • Meeting room at Hamid Fabrics Ltd. Factory, Shilmandi, Narshingdi • Meeting room at Toyota Tsusho Corporation, Shinagawa, Tokyo
Participants	Managing director, managers, and engineers of Hamid Fabrics Ltd., and Hannan Consultancy Co., and factory staff who are involved in operation and maintenance/monitoring of air-jet looms at the project site.
Invitees who were not available	JETRO Dhaka

The comments received at the meeting were fully taken into account and the results were reflected in the PDD. It was confirmed through the document review and interview with the project participants that the above-mentioned process and due steps taken for the local stakeholder consultation are appropriate. Regarding the consideration of a comment received, an issue was raised and resolved as mentioned below section.

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

(Issue raised as CL07)

With respect to the LSC, it is requested to clarify what kind of know-how transfer in the JCM procedures has been implemented.

(Summary of the response on CL07)

At the time of LSC, know-how related to JCM procedures such as preparing MoC, emission reduction calculation using JCM methodology was provided.

(Assessment result of the responses on CL07)

Through reviewing the material and the minutes of the LSC meeting, it was confirmed that the know-how related to JCM procedure including preparation of MoC, emission reduction calculation was provided. Therefore, this issue was closed.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

The validation team concluded that the local stakeholder consultation of the proposed JCM project was adequate.

C.7. Monitoring

<Means of validation>

Through reviewing the Monitoring Plan Sheet and Monitoring Structure Sheet, it was confirmed that they are described based on the applied methodology BD-AM003 ver 01.0. Regarding the monitoring points, an issue was raised and resolved as section below. With respect to the monitoring methods and procedures, the means of implementation of the monitoring plan, including the data management and quality assurance and quality control procedures, an issue was raised. Considering the project participants response, the validation team closed the issue and raised a FAR.

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

(Issue raised as CAR01)

The monitoring point numbers are not described in the section C.2. Figure of all emission sources and monitoring points relevant to the JCM project.

(Summary of the response on CAR01)

Figure in Section C.2 has been revised to include monitoring point No. in line with MPS.

(Assessment result of the responses on CAR01)

It was confirmed that the Figure in Section C.2 is revised appropriately. Therefore, this issue was closed.

(Issue raised as CL05)

The measurement methods and procedures are not clearly stated in a project specific manner in Table 1 Parameters to be monitored ex post. For example, it is not clearly stated which method is to be applied Method 1, Automated monitoring system, or Method 2, Manual monitoring. It is requested to clarify the information flow, actual allocation of role/responsibility within the monitoring structure described in the monitoring structure sheet. In addition, it is requested to clarify the frequency of calibration for the measurement equipment.

(Summary of the response on CL05)

The project anticipates replacement of monitoring equipment before the monitoring begins. The project participants wish to leave the text in line with the applied

methodology to keep all options allowed under the methodology.

(Assessment result of the responses on CL05)

Based on the PP response, the validation team determined that this issue is to be confirmed during the first verification. Therefore, the validation team closed this issue and instead raised FAR01.

(Issue raised as FAR01)

Corresponding to PP response to CL05, a FAR is raised in the validation process. It is requested to establish the information flow, actual allocation of role/responsibility within the monitoring structure, QA/QC procedures including calibration and record archiving in line with the applied methodology and JCM guidelines. It is requested to describe such information in the Monitoring Report Sheet appropriately for TPE's confirmation at the first verification.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

The validation team confirmed that the project participants are to prepare the Monitoring Plan of the proposed JCM project complied with the requirements of the methodology and/or PDD and Monitoring Guidelines prior to the starting of the monitoring. The conformity of such monitoring requirements shall be confirmed in the course of assessment of PP response to FAR01 during the first verification.

C.8. Modalities of Communication

<Means of validation>

Through document review, it was confirmed that the Modalities of Communication (MoC), provided by one of the project participants, TTC, with whom JQA has a contractual relationship, had applied the latest version of MoC form. The date of submission indicated in the MoC was 21/12/2017, and it was considered to be valid. JQA also directly checked with the signatories of the Modalities of Communication (MoC), and then identified the personnel and their employment status, including the specimen signatures. To do so, an issue was raised and resolved as mentioned below section. As a result, JQA determined that the information of all project participants, including the focal point provided in the MoC and its correctness of authority, was appropriate.

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

(Issue raised as CL08)

The MoC was submitted to JQA on 21/12/2017 together with the PDD for public comments. All the two entities listed as the PPs in the PDD are included in the MoC. Both entities nominated as a focal point entity. JQA reviewed the website of each entity and confirmed its identity. It is requested to provide evidence to enable the validation team to check the personal identity including specimen signatures and employment status for all project participants and focal points in the MoC.

(Summary of the response on CL08)

Evidence to enable the validation team to check the personal identity including specimen signatures and employment status for all project participants and focal points in the MoC have been provided.

(Assessment result of the responses on CL08)

Through reviewing the name cards together with the signature of all the focal points and project participants, the validation team confirmed the validity and authority of the MoC. Therefore, this issue was closed.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

The validation team determined that the information of all project participants, including the focal point provided in the MoC and its correctness of authority, was appropriate.

C.9. Avoidance of double registration

<Means of validation>

It was confirmed preliminarily through review of the relevant website (e.g. UNFCCC website, Markit Environmental Registry, etc.) that the proposed JCM project had not been registered under other international climate mitigation mechanisms. The written confirmation of the avoidance of double registration was also provided through the signed MoC, and was cross-checked through interview with the project participants, with a satisfactory result.

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

No outstanding issue was raised.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

The validation team concluded that the proposed JCM project was not registered under the other international climate mitigation mechanisms at the stage of validation.

C.10. Start of operation

<Means of validation>

In the PDD submitted for the invitation of public inputs as described in Section D, the start date of operation is defined as 06/03/2017. Regarding the nature of this date, an issue was raised and resolved as mentioned in the section below. As a result, in the revised PDD, the project participants have changed the date to 24/06/2018. According to PPs' clarification, due to the technical difficulty on the compressor, replacement of compressor is expected to complete on 24/06/2018. Thus PPs has decided to set the starting date of the project operation at the date when the replacement of compressor is completed. The revised starting date of operation 24/06/2018 is reasonable and this date is not before January 1, 2013

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

(Issue raised as CL02)

The MoC was submitted to JQA on 21/12/2017 together with the PDD for public comments. All the two entities listed as the PPs in the PDD are included in the MoC. Both entities nominated as a focal point entity. JQA reviewed the website of each entity and confirmed its identity. It is requested to provide evidence to enable the validation team to check the personal identity including specimen signatures and employment status for all project participants and focal points in the MoC.

(Summary of the response on CL02)

Evidence to enable the validation team to check the personal identity including specimen signatures and employment status for all project participants and focal points in the MoC have been provided.

(Assessment result of the responses on CL02)

Through reviewing the name cards together with the signature of all the focal points and project participants, the validation team confirmed the validity and authority of the MoC. Therefore, this issue was closed.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

The validation team concludes that the start of the operating date of the proposed JCM project has been defined appropriately.

C.11. Other issues

<Means of validation>

No other issue was identified.

<Findings>

Please state if CARs, CLs, or FARs are raised, and how they are resolved.

No outstanding issue was raised.

<Conclusion based on reporting requirements>

Please state conclusion based on reporting requirements.

Not applicable.

D. Information on public inputs

D.1. Summary of public inputs

The PDD of the proposed JCM project, which was submitted in line with the Project Cycle Procedure, was made publicly available through the JCM website for public inputs. This call for public comments is open from 22/12/2017 to 20/01/2018. The specific JCM website is as below:

https://www.jcm.go.jp/bd-jp/information/246

D.2. Summary of how inputs received have been taken into account by the project participants

No comment was received during the period of the public comments; therefore, no action was required to be taken into due account by PPs.

E. List of interviewees and documents received

E.1. List of interviewees

- Mr. Akio Ouchi, Assistant Manager, Industrial Machinery Group, Machinery Project Department, Toyota Tsusho Corporation
- Ms. Chisato Nakade, Senior consultant, Clean Energy Finance Division, Mitsubishi UFJ Morgan Stanley Securities Co., Ltd.

E.2. List of documents received

1	Project Design Document (draft) (JCM_BD_F_PDD_ver02.0_AJL_ver01.docx)
2	Monitoring Plan Sheet and Monitoring Structure Sheet (draft) (JCM_BD_AM003_ver01.0_AJL_ver01.xlsx)
3	Modalities of communications statement, a validated version for submission of request for registration
4	Joint Crediting Mechanism Approved Methodology BD_AM003 "Energy efficiency improvement through the introduction of energy efficient air jet looms in textile industry" (JCM_BD_AM003_ver01.0.pdf)
5	Monitoring Plan Sheet and Monitoring Structure Sheet BD_AM003 (JCM_BD_AM003_ver01.0.xlsx)
6	JCM Glossary of Terms (JCM_BD_Glossary_ver02.0.pdf)
7	JCM Project Cycle Procedure (JCM_BD_PCP_ver02.0.pdf)
8	JCM Modalities of Communication Statement Form (JCM_BD_F_MoC_ver01.0.pdf)
9	JCM Guidelines for Developing Project Design Document and Monitoring Report (JCM_BD_GL_PDD_MR_ver03.0.pdf)
10	JCM Project Design Document Form (JCM_BD_F_PDD_ver03.0.pdf)
11	JCM Guidelines for Validation and Verification (JCM_BD_GL_VV_ver02.0.pdf)
12	JCM Validation Report Form (JCM_BD_F_Val_Rep_ver01.0.docx)
13	Hamid Fabrics Annual report https://www.hfl.com.bd/annual_report.php
15	Company profile of Toyota Tsusho Corporation
16	Commissioning report

17	The statutory useful life for the calculation of depreciation and amortization provided by Ministry of Finance of Japan
18	Brochure and specification of the project air jet loom, JAT810
19	"Weekly greasing & oiling schedule record" and "Monthly preventive maintenance status"
20	Electric line diagram of the project
21	The Environment Conservation Rules, 1997, Bangladesh
22	The minutes of the local stakeholder consultation meeting, including the invitation letter and the attendees' list
23	Presentation materials for the local stakeholder consultation
24	Source of total electricity consumption by the motors and air compressors of the project air jet looms during period p
26	Letter on the CO_2 emission factor for the grid electricity in Bangladesh issued by Ministry of Environment, Government of the People's Republic of Bangladesh dated 19/08/2013
28	Project Design Document (final) (JCM_BD_F_PDD_ver03.0_BD003_ver03.docx)
29	Monitoring Plan Sheet and Monitoring Structure Sheet (final) (JCM_BD_AM003_ver01.0_AJL_ver03.xlsx)

Annex Certificates or curricula vitae of TPE's validation team members, technical experts and internal technical reviewers

Statement of competence

Name: Mr. Koichiro Tanabe

Qualified and authorized by Japan Quality Assurance Organization.

Function

	Date of qualification
Validator	-
Verifier	2014/12/22
Team leader	2014/12/22

Technical area within sectoral scopes

	Date of qualification
TA 1.1. Thermal energy generation	2014/12/22
TA 1.2. Renewables	2014/12/22
TA 3.1. Energy demand	2014/12/22
TA 4.1. Cement and lime production	-
TA 4.6. Other manufacturing industries	2014/12/22
TA 5.1. Chemical industry	2014/12/22
TA 10.1. Fugitive emissions from oil and gas	2014/12/22
TA 13.1. Solid waste and wastewater	2014/12/22
TA 14.1. Afforestation and reforestation	-

Statement of competence

Name: Ms. Sachiko Hashizume

Qualified and authorized by Japan Quality Assurance Organization.

Function

	Date of qualification
Validator	2015/11/20
Verifier	2015/11/20
Team leader	-

Technical area within sectoral scopes

	Date of qualification
TA 1.1. Thermal energy generation	2015/11/20
TA 1.2. Renewables	2015/11/20
TA 3.1. Energy demand	2015/11/20
TA 4.1. Cement and lime production	-
TA 4.6. Other manufacturing industries	-
TA 5.1. Chemical industry	-
TA 10.1. Fugitive emissions from oil and gas	-
TA 13.1. Solid waste and wastewater	2015/11/20
TA 14.1. Afforestation and reforestation	-

Statement of competence

Name: Dr. Tadashi Yoshida

Qualified and authorized by Japan Quality Assurance Organization.

Function

	Date of qualification
Validator	2014/12/22
Verifier	2014/12/22
Team leader	2014/12/22

Technical area within sectoral scopes

	Date of qualification
TA 1.1. Thermal energy generation	2014/12/22
TA 1.2. Renewables	2014/12/22
TA 3.1. Energy demand	2014/12/22
TA 4.1. Cement and lime production	2015/11/12
TA 4.6. Other manufacturing industries	2014/12/22
TA 5.1. Chemical industry	2014/12/22
TA 10.1. Fugitive emissions from oil and gas	2014/12/22
TA 13.1. Solid waste and wastewater	2014/12/22
TA 14.1. Afforestation and reforestation	-