JCM Project Design Document Form

A. Project description

A.1. Title of the JCM project

Reducing GHG emission at textile factories by upgrading to air-saving loom

A.2. General description of project and applied technologies and/or measures

Exporting textiles products from Indonesia is the highest amount in South-eastern Asia. In the project, at 3 sites of textile factory in Indonesia, this project upgrades existing weaving looms to total 96 units of the latest air-saving looms (Toyota JAT810), which can reduce energy consumption of air compressors. This "JAT810" has original air-saving technology to reduce air consumption for weft insertion more 20% than the conventional model. The effect is not only reducing CO_2 emission by saving the power consumption of air-compressors but also reducing the running cost.

A.3. Location of project, including coordinates

Country	Republic of Indonesia
Region/State/Province etc.:	P.T. Indonesia Synthetic Textile Milles (ISTEM): West Java P.T. Easterntex: East Java P.T. Century Textile Industry Tbk (CENTEX): Jakarta
City/Town/Community etc:	P.T. Indonesia Synthetic Textile Milles (ISTEM): Jl Mochamad Toha KM.1, Pasar Baru, Karawaci Tangerang, Banten P.T. Easterntex: KM. 50 Surabaya – Pandaan Kab. Pasuruan, JAWA TIMUR P.T. Century Textile Industry Tbk (CENTEX): Jl. Raya Bogor KM 27, Ciracas, Jakarta
Latitude, longitude	P.T. Indonesia Synthetic Textile Milles (ISTEM):6°10'01.9"S 106°37'20.5"E P.T. Easterntex: 7°40'31.5"S 112°42'11.9"E P.T. Century Textile Industry Tbk (CENTEX): 6°19'31.6"S 106°52'40.0"E

A.4. Name of project participants

The Republic of Indonesia	P.T. Indonesia Synthetic Textile Milles (ISTEM) P.T. Easterntex P.T. Century Textile Industry Tbk (CENTEX)

Japan	Toray Industries, Inc.

A.5. Duration

Starting date of project operation	01 January 2017
Expected operational lifetime of project	7 Years

A.6. Contribution from Japan

The proposed project was partially supported by the Ministry of the Environment, Japan through the financing program 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. Apart from support from financing program for JCM model projects, the project was also financially supported by Japanese company.

In terms of technology transfer, Toray Industrious has conducted OJT training and provided a manual on operation, maintenance and safety measures of the three factories during the installation of advanced air-saving looms.

B. Application of an approved methodology(ies)

B.1. Selection of methodology(ies)

Selected approved methodology No.	ID_AM011
Version number	1.0

B.2. Explanation of how the project meets eligibility criteria of the approved methodology

Eligibility criteria	Descriptions specified in the methodology	Project information
Criterion 1	The project replaces existing air jet looms at a weaving factory with air jet looms 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 welt insertion	The project replaces existing air jet looms at a weaving factory with the latest air-saving looms (Toyota JAT810), which 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 welt insertion
Criterion 2	The air jet looms which are installed by the project reduce the specific air consumption by at least 15% compared with the reference	Toyota JAT810 which are installed by the project reduce the specific air consumption by at least 15% compared with the reference air jet looms.

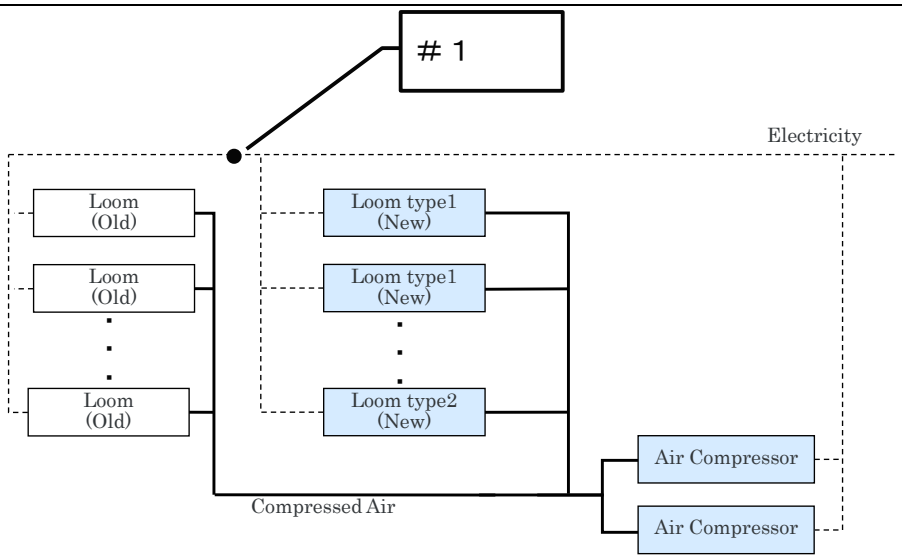
	air jet looms in line with the description in Section I of this methodology.	

C. Calculation of emission reductions

C.1. All emission sources and their associated greenhouse gases relevant to the JCM project

Reference emissions	
Emission sources	GHG type
Electricity consumption by air compressors to generate compressed air for the reference air jet looms	CO_2
Project emissions	
Emission sources	GHG type
Electricity consumption by air compressors to generate compressed air for the project air jet looms	CO_2

C.2. Figure of all emission sources and monitoring points relevant to the JCM project



#1 : Meter to measure the amount of fabric woven

Note : The power for the project air jet loom is supplied from the Grid, and the Project looms will utilize grid power only.

C.3. Estimated emissions reductions in each year

Year	Estimated Reference emissions (tCO_{2e})	Estimated Project Emissions (tCO_{2e})	Estimated Emission Reductions (tCO_{2e})

2017	2,811.5	2,129.3	682
2018	2,811.5	2,129.3	682
2019	2,811.5	2,129.3	682
2020	2,811.5	2,129.3	682
Total (tCO_{2e})	11,246	8,517.2	2,728

D. Environmental impact assessment	
Legal requirement of environmental impact assessment for the proposed project	No

E. Local stakeholder consultation

E.1. Solicitation of comments from local stakeholders

The main stakeholders of the project are employees of the project participants, and a local stakeholder consultation meeting (face to face meeting) was conducted for them;

[Date] 14:00 – 16:00 29th September 2016

[Venue] Conference room of PT. Indonesia Synthetic Textile Mills (ISTEM)

[Participated organization in the consultation]

1. Employees of PP
   - ISTEM
   - CENTEX
   - Easterntex
2. Indonesia Textile Association

3. Indonesia JCM secretariat

E.2. Summary of comments received and their consideration

Stakeholders	Comments received	Consideration of comments received
Ms. Rini Setiawati Indonesia JCM Secretariat	What items are monitored for JCM? Is electricity consumption monitored?	Monitoring is carried out based on the methodology and only production amount (m) is monitored. No action needed.

	How are the monitoring records controlled?	Records related to the production are controlled by each factory under ISO management systems. No action needed.
	Do you have a plan to provide training for Indonesian personnel performing tasks for monitoring of JCM project ?	Toray will make a plan and provide training to them. No action needed.
Mr.Baari La Inggi Indonesian Textile Association	The new type loom includes various energy saving technologies. Are parts of these applied or all of them?	Old model looms are changed to the new model looms which are applied all of the technologies. No action needed.
	Technological progress is so rapid. Do you apply the progressed technology for the looms even if it is part of them?	The new model loom is developed by Toyota Industries. Toray apply their new model loom but cannot apply the part of the new technologies for the old model loom. No action needed.

F. References

N/A

Reference lists to support descriptions in the PDD, if any.

Annex

N/A

Revision history of PDD

Version	Date	Contents revised
1.0	01/30/2018	First edition