Monitoring Report Sheet (Input Sheet) [For Verification]

Table 1: Parameters monitored ex post										
(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
Monitorin period	g Monitoring point No.	Parameters	Description of data	Monitored Values	Units	Monitoring option	Source of data	measurement methods and procedures	Monitoring frequency	Other comments
1/7/2018- 31/12/201	(1)	EG _{SUP,p}	The quantity of the electricity supplied from the WHR system to the cement production facility during a given time period <i>p</i>		MWh/p	Option C	data	Calibration of the electricity meters is not required for this monitoring period in	Continuousl y monitored and monthly aggregated	
1/7/2018- 31/12/201	ΙΝΔ	D _p	The number of days during a given time period <i>p</i>	184	day/p	Option C	monitored data	- Counting the number of days of this monitoring period	once at the end of this monitoring period	

Table 1: Parameters monitored ex post

Table 2: Project-specific parameters fixed ex ante

(a)	(b)	(c)	(d)	(e)	
Parameters	Description of data	Estimated Values	Units	Source of data	Oth
FF	CO_2 emission factor for an Indonesian regional grid system, from which electricity is displaced due to the project during a given time period p	0.903	tCO ₂ /MWh	The most recent value available at the time of validation is applied and fixed for the monitoring period thereafter. The data is sourced from "Emission Factors of Electricity Interconnection Systems", National Committee on Clean Development Mechanism Indonesian DNA for CDM unless otherwise instructed by the Joint Committee.	
EC _{CAP}	The total maximum rated capacity of equipments of the WHR system which consumes electricity except for the capacity of equipments which use the electricity generated by itself directly	3.69		Rated capacity of all installed equipments of the WHR system which consumes electricity except for the capacity of equipments which use the electricity generated by itself directly	

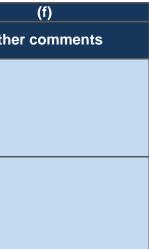
Table3: *Ex-post* calculation of CO₂ emission reductions

Monitoring Period	CO ₂ emission reductions	Units
1/7/2018-31/12/2018	14,799	tCO ₂ /p

[Monitoring option]

Option A	Based on public data which is measured by entities other than the project participants (Data used: publicly recognized data such as
Option A	statistical data and specifications)
Option D	Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence
Option B	such as invoices)
Option C	Based on the actual measurement using measuring equipments (Data used: measured values)

Reference Number: ID013



Monitoring Spreadsheet: JCM_ID_AM001_ver01.0 Reference Number: ID013

Calc	culations for emission reductions	Fuel type	Value	Units	Paramet
Em	nission reductions during a given time period	N/A	14,799.5	tCO ₂ /p	ER _p
Sele	ected default values, etc.				
wh	D_2 emission factor for an Indonesian regional grid system, from ich electricity is displaced due to the project during a given the period p	Electricity	0.903	tCO ₂ /MWh	EF _{grid}
Calc	culations for reference emissions				
Re	ference emissions during a given time period	N/A	14,799.5	tCO ₂ /p	REp
	The quantity of the electricity supplied from the WHR system to the cement production facility during a given time period p	Electricity	32,684	MWh/p	EG _{SUF}
	The quantity of electricity consumption by the WHR system except for the direct captive use of the electricity generated by itself during a given time period p	Electricity	16,295	MWh/p	EC _{AU}
	The quantity of net electricity generation by the WHR system which replaces grid electricity import during a given time period p	Electricity	16,389	MWh/p	EG
Calc	culations of the project emissions				
Pro	oject emissions during a given time period	N/A	0.0	tCO ₂ /p	PE

Monitoring Report Sheet (Input Sheet) [For Verification]

Table 1: Parameters monitored ex post (a) (b) (b) (c) (b) (b) (c) (b) (c) (c) (c) (c) (c) (c)										
(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
Monitoring period	Monitoring point No.	Parameters	Description of data	Monitored Values	Units	Monitoring option	Source of data	Measurement methods and procedures	Monitoring frequency	Other comments
01/01/2019 - 31/12/2019	(1)	EG _{SUP,p}	The quantity of the electricity supplied from the WHR system to the cement production facility during a given time period <i>p</i>		MWh/p	Option C	monitored data	 Collecting electricity generation data with validated/calibrated electricity monitoring devices and inputting to a spreadsheet electronically. Monitoring devices are calibrated in line with international standards or manufacturers' specification. 	continuous	
01/01/2019 - 31/12/2019	N.A.	D _p	The number of days during a given time period <i>p</i>	365	day/p	Option C	monitored data	- Counting the number of days of this monitoring period	once at the end of this monitoring period	

Table 1: Parameters monitored ex post

Table 2: Project-specific parameters fixed ex ante

(a)	(b)	(c)	(d)	(e)	
Parameters	Description of data	Estimated Values	Units	Source of data	Oth
FF	CO_2 emission factor for an Indonesian regional grid system, from which electricity is displaced due to the project during a given time period p	0.903	tCO ₂ /MWh	The most recent value available at the time of validation is applied and fixed for the monitoring period thereafter. The data is sourced from "Emission Factors of Electricity Interconnection Systems", National Committee on Clean Development Mechanism Indonesian DNA for CDM unless otherwise instructed by the Joint Committee.	
EC _{CAP}	The total maximum rated capacity of equipments of the WHR system which consumes electricity except for the capacity of equipments which use the electricity generated by itself directly	3.69		Rated capacity of all installed equipments of the WHR system which consumes electricity except for the capacity of equipments which use the electricity generated by itself directly	

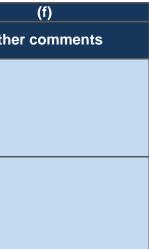
Table3: *Ex-post* calculation of CO₂ emission reductions

Monitoring Period	CO ₂ emission reductions	Units
01/01/2019 - 31/12/2019	8,023	tCO ₂ /p

[Monitoring option]

Option A	Based on public data which is measured by entities other than the project participants (Data used: publicly recognized data such as
Option A	statistical data and specifications)
Option D	Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence
Option B	such as invoices)
Option C	Based on the actual measurement using measuring equipments (Data used: measured values)

Reference Number: ID013



Monitoring Spreadsheet: JCM_ID_AM001_ver01.0 Reference Number: ID013

Calc	culations for emission reductions	Fuel type	Value	Units	Paramet
Em	nission reductions during a given time period	N/A	8,023.2	tCO ₂ /p	ERp
Sele	ected default values, etc.				
wh	D_2 emission factor for an Indonesian regional grid system, from ich electricity is displaced due to the project during a given the period p	Electricity	0.903	tCO ₂ /MWh	EFgrid
Calc	culations for reference emissions				
Re	ference emissions during a given time period	N/A	8,023.2	tCO ₂ /p	REp
	The quantity of the electricity supplied from the WHR system to the cement production facility during a given time period p	Electricity	41,209	MWh/p	EG _{SUF}
	The quantity of electricity consumption by the WHR system except for the direct captive use of the electricity generated by itself during a given time period p	Electricity	32,324	MWh/p	EC _{AU}
	The quantity of net electricity generation by the WHR system which replaces grid electricity import during a given time period p	Electricity	8,885	MWh/p	EG
Calc	culations of the project emissions				
Pro	oject emissions during a given time period	N/A	0.0	tCO ₂ /p	PE

Monitoring Report Sheet (Input Sheet) [For Verification]

Table 1: Parameters monitored ex post										
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
Monitoring period	Monitoring point No.	Parameters	Description of data	Monitored Values	Units	Monitoring option	Source of data	Measurement methods and procedures	Monitoring frequency	Other comments
01/01/2020 - 31/12/2020	(1)	EG _{SUP,p}	The quantity of the electricity supplied from the WHR system to the cement production facility during a given time period <i>p</i>		MWh/p	Option C	monitored data	 Collecting electricity generation data with validated/calibrated electricity monitoring devices and inputting to a spreadsheet electronically. Monitoring devices are calibrated in line with international standards or manufacturers' specification. 	continuous	
01/01/2020 - 31/12/2020	N.A.	D _p	The number of days during a given time period <i>p</i>	366	day/p	Option C	monitored data	- Counting the number of days of this monitoring period	once at the end of this monitoring period	

Table 1: Parameters monitored ex post

Table 2: Project-specific parameters fixed ex ante

(a)	(b)	(c)	(d)	(e)	
Parameters	Description of data	Estimated Values	Units	Source of data	Oth
FF	CO_2 emission factor for an Indonesian regional grid system, from which electricity is displaced due to the project during a given time period p	0.903	tCO ₂ /MWh	The most recent value available at the time of validation is applied and fixed for the monitoring period thereafter. The data is sourced from "Emission Factors of Electricity Interconnection Systems", National Committee on Clean Development Mechanism Indonesian DNA for CDM unless otherwise instructed by the Joint Committee.	
EC _{CAP}	The total maximum rated capacity of equipments of the WHR system which consumes electricity except for the capacity of equipments which use the electricity generated by itself directly	3.69		Rated capacity of all installed equipments of the WHR system which consumes electricity except for the capacity of equipments which use the electricity generated by itself directly	

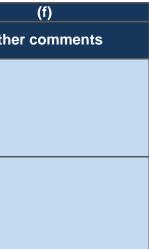
Table3: *Ex-post* calculation of CO₂ emission reductions

Monitoring Period	CO ₂ emission reductions	Units
01/01/2020 - 31/12/2020	24,116	tCO ₂ /p

[Monitoring option]

Option A	Based on public data which is measured by entities other than the project participants (Data used: publicly recognized data such as
Option A	statistical data and specifications)
I () ntion R	Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence
	such as invoices)
Option C	Based on the actual measurement using measuring equipments (Data used: measured values)

Reference Number: ID013



Monitoring Spreadsheet: JCM_ID_AM001_ver01.0 Reference Number: ID013

. Calculations for emission reductions		Fuel type	Value	Units	Paramete
Em	ission reductions during a given time period	N/A	24,116.5	tCO ₂ /p	ERp
Sele	cted default values, etc.				
whi	p_2 emission factor for an Indonesian regional grid system, from ich electricity is displaced due to the project during a given e period p	Electricity	0.903	tCO ₂ /MWh	EF _{grid}
Calc	ulations for reference emissions				
Reference emissions during a given time period		N/A	24,116.5	tCO ₂ /p	RE _p
	The quantity of the electricity supplied from the WHR system to the cement production facility during a given time period p	Electricity	59,120	MWh/p	EG _{SUF}
	The quantity of electricity consumption by the WHR system except for the direct captive use of the electricity generated by itself during a given time period p	Electricity	32,413	MWh/p	EC _{AU}
	The quantity of net electricity generation by the WHR system which replaces grid electricity import during a given time period p	Electricity	26,707	MWh/p	EGp
Calc	ulations of the project emissions				
Pro	pject emissions during a given time period	N/A	0.0	tCO ₂ /p	PE