

**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
2017/9/2-2017/12/31	(1)	$\Sigma EG_{i,p}$	Total quantity of the electricity generated in the project during the period <i>p</i>	77.48	MWh/p	Option C	Measured data	<p>The AC output of the inverters is measured to determine the amount of net electricity generation by the solar PV system. The reading is taken from an electricity meter. The reading is taken manually. QA/QC is implemented by following the monitoring manual.</p> <p>The electricity meter is certified according to IEC62053-21 (Class 1). The electricity meter is replaced or tested for accuracy every ten years based on the Metering Code of Singapore. The electricity meter is calibrated or replaced when it fails to pass the test.</p> <p>The start date of measuring the electricity generation by the system is set as the base date for counting the ten-year interval. The date is 2 September 2017.</p>	Monthly recording	n/a

**Table 2: Project-specific parameters fixed *ex ante***

(a)	(b)	(c)	(d)	(e)	(f)
Parameters	Description of data	Estimated Values	Units	Source of data	Other comments
EF <sub>RE</sub>	The reference CO <sub>2</sub> emission factor of grid and captive electricity	0.533	tCO <sub>2</sub> /MWh	The default emission factor is derived from the result of the survey on the new high-efficient engines using diesel fuel as a power source. The default value should be revised if necessary from the survey result which is conducted by the JC or project participants every three years.	n/a

**Table3: *Ex-post* calculation of CO<sub>2</sub> emission reductions**

Monitoring Period	CO <sub>2</sub> emission reductions	Units
2017/9/2-2017/12/31	41	tCO <sub>2</sub> /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 statistical data and specifications)
Option B	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)

Monitoring Spreadsheet: JCM\_MV\_AM001\_ver01.0  
Reference Number: MV001

i solar PV system number	EG <sub>i,p</sub> The quantity of the electricity generated by the project solar PV system <i>i</i> during the period <i>p</i> MWh/p
1	77.48
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**Monitoring Report Sheet (Calculation Process Sheet) [For Verification]**

1. Calculations for emission reductions	Fuel type	Value	Units	Parameter
Emission reductions during the period $p$	n/a	41.3	tCO <sub>2</sub> /p	ER <sub>p</sub>
2. Selected default values, etc.				
The reference CO <sub>2</sub> emission factor of grid and captive electricity	Electricity	0.533	tCO <sub>2</sub> /MWh	EF <sub>RE</sub>
3. Calculations for reference emissions				
Reference emissions during the period $p$	n/a	41.3	tCO <sub>2</sub> /p	RE <sub>p</sub>
Total quantity of the electricity generated in the project during the period $p$	Electricity	77.48	MWh/p	ΣEG <sub>i,p</sub>
The reference CO <sub>2</sub> emission factor of grid and captive electricity	Electricity	0.533	tCO <sub>2</sub> /MWh	EF <sub>RE</sub>
4. Calculations of the project emissions				
Project emissions during the period $p$	n/a	0.0	tCO <sub>2</sub> /p	PE <sub>p</sub>

## [List of Default Values]

The reference CO <sub>2</sub> emission factor of grid and captive electricity	0.533	tCO <sub>2</sub> /MWh
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**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
2018/1/1-2018/11/30	(1)	$\Sigma EG_{i,p}$	Total quantity of the electricity generated in the project during the period <i>p</i>	214.35	MWh/p	Option C	Measured data	<p>The AC output of the inverters is measured to determine the amount of net electricity generation by the solar PV system. The reading is taken from an electricity meter. The reading is taken manually. QA/QC is implemented by following the monitoring manual.</p> <p>The electricity meter is certified according to IEC62053-21 (Class 1). The electricity meter is replaced or tested for accuracy every ten years based on the Metering Code of Singapore. The electricity meter is calibrated or replaced when it fails to pass the test.</p> <p>The start date of measuring the electricity generation by the system is set as the base date for counting the ten-year interval. The date is 2 September 2017.</p>	Monthly recording	n/a

**Table 2: Project-specific parameters fixed *ex ante***

(a)	(b)	(c)	(d)	(e)	(f)
Parameters	Description of data	Estimated Values	Units	Source of data	Other comments
EF <sub>RE</sub>	The reference CO <sub>2</sub> emission factor of grid and captive electricity	0.533	tCO <sub>2</sub> /MWh	The default emission factor is derived from the result of the survey on the new high-efficient engines using diesel fuel as a power source. The default value should be revised if necessary from the survey result which is conducted by the JC or project participants every three years.	n/a

**Table3: *Ex-post* calculation of CO<sub>2</sub> emission reductions**

Monitoring Period	CO <sub>2</sub> emission reductions	Units
2018/1/1-2018/11/30	114	tCO <sub>2</sub> /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 statistical data and specifications)
Option B	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)

Monitoring Spreadsheet: JCM\_MV\_AM001\_ver01.0  
Reference Number: MV001

i solar PV system number	EG <sub>i,p</sub> The quantity of the electricity generated by the project solar PV system <i>i</i> during the period <i>p</i> MWh/p
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**Monitoring Report Sheet (Calculation Process Sheet) [For Verification]**

1. Calculations for emission reductions	Fuel type	Value	Units	Parameter
Emission reductions during the period $p$	n/a	114.2	tCO <sub>2</sub> /p	ER <sub>p</sub>
2. Selected default values, etc.				
The reference CO <sub>2</sub> emission factor of grid and captive electricity	Electricity	0.533	tCO <sub>2</sub> /MWh	EF <sub>RE</sub>
3. Calculations for reference emissions				
Reference emissions during the period $p$	n/a	114.2	tCO <sub>2</sub> /p	RE <sub>p</sub>
Total quantity of the electricity generated in the project during the period $p$	Electricity	214.35	MWh/p	ΣEG <sub>i,p</sub>
The reference CO <sub>2</sub> emission factor of grid and captive electricity	Electricity	0.533	tCO <sub>2</sub> /MWh	EF <sub>RE</sub>
4. Calculations of the project emissions				
Project emissions during the period $p$	n/a	0.0	tCO <sub>2</sub> /p	PE <sub>p</sub>

## [List of Default Values]

The reference CO <sub>2</sub> emission factor of grid and captive electricity	0.533	tCO <sub>2</sub> /MWh
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