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
2016/6/1~ 2016/12/31	(1)	$EG_{i,p}$	Quantity of the electricity generated by the project solar PV system *i* during the period *p*	158.48	MWh/p	Option C	Measured data (Monthly Records)	The electronic multimeter SQLC - 110L is an electricity meter that measures electric power generated by the PV system. It measures the instantaneous generated power kW and displays as integrated generated power kWh. The integrated generated power is read and the difference from the previous month is recorded as the generated electric energy of the current month at the end of the month. The electricity meter is calibrated or replaced once in 7 years after the installation following the Japanese standard for electric meters. The data monitored and required for verification and issuance be kept and archived electronically for two years after the final issuance of credits.	Monthly recording	Input on "MRS(input_separate)" sheet

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
$EF_{RE,i}$	Reference CO_2 emission factor for the project solar PV system *i*	-	tCO_2/MWh	In case the PV system in a proposed project activity is connected to the Bangladesh national grid including an internal grid which is not connected to a captive power generator, EFRE,grid, 0.376 tCO2/MWh is applied. In case the PV system in a proposed project activity is connected to an internal grid which is connected to both the national grid and a captive power generator, EFRE,grid, 0.376 tCO2/MWh is applied. In case the PV system in a proposed project activity is connected to a captive power generator but not connected to the national grid, EFRE,cap,gas, 0.376 tCO2/MWh is applied unless the captive power generator uses only oil fuel. In case the captive power generator uses only oil fuel, EFRE,cap,diesel, 0.533 tCO2/MWh is applied.	Input on "MPS(input_separate)" sheet

Table3: *Ex-post* calculation of CO_2 emission reductions

Monitoring period	CO_2 emission reductions	Units
2016/6/1~2016/12/31	84	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 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)

	Parameters monitored *ex post*	Project-specific parameters fixed *ex ante*
i	$EG_{i,p}$	$EF_{RE,i}$
Solar PV system number	Quantity of the electricity generated by the project solar PV system *i* during the period *p*	Reference CO_2 emission factor for the project solar PV system *i*
	MWh/p	tCO_2/MWh
1	158.476	0.533
2		0.000
3		0.000
4		0.000
5		0.000
6		0.000
7		0.000
8		0.000
9		0.000
10		0.000
11		0.000
12		0.000
13		0.000
14		0.000
15		0.000
16		0.000
17		0.000
18		0.000
19		0.000
20		0.000
21		0.000
22		0.000
23		0.000
24		0.000
25		0.000
26		0.000
27		0.000
28		0.000
29		0.000
30		0.000
31		0.000
32		0.000
33		0.000
34		0.000
35		0.000
36		0.000
37		0.000
38		0.000
39		0.000
40		0.000
41		0.000
42		0.000
43		0.000
44		0.000
45		0.000
46		0.000
47		0.000
48		0.000
49		0.000
50		0.000
51		0.000
52		0.000
53		0.000
54		0.000
55		0.000
56		0.000
57		0.000
58		0.000
59		0.000
60		0.000
61		0.000
62		0.000
63		0.000
64		0.000
65		0.000

66		0.000
67		0.000
68		0.000
69		0.000
70		0.000
71		0.000
72		0.000
73		0.000
74		0.000
75		0.000
76		0.000
77		0.000
78		0.000
79		0.000
80		0.000
81		0.000
82		0.000
83		0.000
84		0.000
85		0.000
86		0.000
87		0.000
88		0.000
89		0.000
90		0.000
91		0.000
92		0.000
93		0.000
94		0.000
95		0.000
96		0.000
97		0.000
98		0.000
99		0.000
100		0.000

Monitoring Spreadsheet: JCM_BD_AM002_ver01.0
Reference Number: BD004

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	84.47	tCO_2/p	ER_p
2. Selected default values, etc.				
The reference CO_2 emission factor of electricity				
The reference CO_2 emission factor based on the national grid and captive gas power generator	Mixed	0.376	tCO_2/MWh	$EF_{RE,grid}$, $EF_{RE,cap,gas}$
The reference CO_2 emission factor based on captive diesel power generator	Diesel	0.533	tCO_2/MWh	$EF_{RE,cap,diesel}$
3. Calculations for reference emissions				
Reference emissions during the period *p*	N/A	84.47	tCO_2/p	RE_p
4. Calculations of the project emissions				
Project emissions during the period *p*	N/A	0.00	tCO_2/p	PE_p

[List of Default Values]

The reference CO_2 emission factor based on the national grid and captive gas power generator	Mixed	0.376
The reference CO_2 emission factor based on captive diesel power generator	Diesel	0.533

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
2017/1/1~ 2017/12/31	(1)	$EG_{i,p}$	Quantity of the electricity generated by the project solar PV system *i* during the period *p*	211.88	MWh/p	Option C	Measured data (Monthly Records)	The electronic multimeter SQLC - 110L is an electricity meter that measures electric power generated by the PV system. It measures the instantaneous generated power kW and displays as integrated generated power kWh. The integrated generated power is read and the difference from the previous month is recorded as the generated electric energy of the current month at the end of the month. The electricity meter is calibrated or replaced once in 7 years after the installation following the Japanese standard for electric meters. The data monitored and required for verification and issuance be kept and archived electronically for two years after the final issuance of credits.	Monthly recording	Input on "MRS(input_separate)" sheet

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
$EF_{RE,i}$	Reference CO_2 emission factor for the project solar PV system *i*	-	tCO_2/MWh	In case the PV system in a proposed project activity is connected to the Bangladesh national grid including an internal grid which is not connected to a captive power generator, EFRE,grid, 0.376 tCO2/MWh is applied. In case the PV system in a proposed project activity is connected to an internal grid which is connected to both the national grid and a captive power generator, EFRE,grid, 0.376 tCO2/MWh is applied. In case the PV system in a proposed project activity is connected to a captive power generator but not connected to the national grid, EFRE,cap,gas, 0.376 tCO2/MWh is applied unless the captive power generator uses only oil fuel. In case the captive power generator uses only oil fuel, EFRE,cap,diesel, 0.533 tCO2/MWh is applied.	Input on "MPS(input_separate)" sheet

Table3: *Ex-post* calculation of CO_2 emission reductions

Monitoring period	CO_2 emission reductions	Units
2017/1/1~2017/12/31	112	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 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)

	Parameters monitored *ex post*	Project-specific parameters fixed *ex ante*
i	$EG_{i,p}$	$EF_{RE,i}$
Solar PV system number	Quantity of the electricity generated by the project solar PV system *i* during the period *p*	Reference CO_2 emission factor for the project solar PV system *i*
	MWh/p	tCO_2/MWh
1	211.884	0.533
2		0.000
3		0.000
4		0.000
5		0.000
6		0.000
7		0.000
8		0.000
9		0.000
10		0.000
11		0.000
12		0.000
13		0.000
14		0.000
15		0.000
16		0.000
17		0.000
18		0.000
19		0.000
20		0.000
21		0.000
22		0.000
23		0.000
24		0.000
25		0.000
26		0.000
27		0.000
28		0.000
29		0.000
30		0.000
31		0.000
32		0.000
33		0.000
34		0.000
35		0.000
36		0.000
37		0.000
38		0.000
39		0.000
40		0.000
41		0.000
42		0.000
43		0.000
44		0.000
45		0.000
46		0.000
47		0.000
48		0.000
49		0.000
50		0.000
51		0.000
52		0.000
53		0.000
54		0.000
55		0.000
56		0.000
57		0.000
58		0.000
59		0.000
60		0.000
61		0.000
62		0.000
63		0.000
64		0.000
65		0.000

66		0.000
67		0.000
68		0.000
69		0.000
70		0.000
71		0.000
72		0.000
73		0.000
74		0.000
75		0.000
76		0.000
77		0.000
78		0.000
79		0.000
80		0.000
81		0.000
82		0.000
83		0.000
84		0.000
85		0.000
86		0.000
87		0.000
88		0.000
89		0.000
90		0.000
91		0.000
92		0.000
93		0.000
94		0.000
95		0.000
96		0.000
97		0.000
98		0.000
99		0.000
100		0.000

Monitoring Spreadsheet: JCM_BD_AM002_ver01.0
Reference Number: BD004

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	112.93	tCO_2/p	ER_p
2. Selected default values, etc.				
The reference CO_2 emission factor of electricity				
The reference CO_2 emission factor based on the national grid and captive gas power generator	Mixed	0.376	tCO_2/MWh	$EF_{RE,grid}$, $EF_{RE,cap,gas}$
The reference CO_2 emission factor based on captive diesel power generator	Diesel	0.533	tCO_2/MWh	$EF_{RE,cap,diesel}$
3. Calculations for reference emissions				
Reference emissions during the period *p*	N/A	112.93	tCO_2/p	RE_p
4. Calculations of the project emissions				
Project emissions during the period *p*	N/A	0.00	tCO_2/p	PE_p

[List of Default Values]

The reference CO_2 emission factor based on the national grid and captive gas power generator	Mixed	0.376
The reference CO_2 emission factor based on captive diesel power generator	Diesel	0.533

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~ 2018/12/31	(1)	$EG_{i,p}$	Quantity of the electricity generated by the project solar PV system *i* during the period *p*	175.68	MWh/p	Option C	Measured data (Monthly Records)	The electronic multimeter SQLC - 110L is an electricity meter that measures electric power generated by the PV system. It measures the instantaneous generated power kW and displays as integrated generated power kWh. The integrated generated power is read and the difference from the previous month is recorded as the generated electric energy of the current month at the end of the month. The electricity meter is calibrated or replaced once in 7 years after the installation following the Japanese standard for electric meters. The data monitored and required for verification and issuance be kept and archived electronically for two years after the final issuance of credits.	Monthly recording	Input on "MRS(input_separate)" sheet

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
$EF_{RE,i}$	Reference CO_2 emission factor for the project solar PV system *i*	-	tCO_2/MWh	In case the PV system in a proposed project activity is connected to the Bangladesh national grid including an internal grid which is not connected to a captive power generator, EFRE,grid, 0.376 tCO2/MWh is applied. In case the PV system in a proposed project activity is connected to an internal grid which is connected to both the national grid and a captive power generator, EFRE,grid, 0.376 tCO2/MWh is applied. In case the PV system in a proposed project activity is connected to a captive power generator but not connected to the national grid, EFRE,cap,gas, 0.376 tCO2/MWh is applied unless the captive power generator uses only oil fuel. In case the captive power generator uses only oil fuel, EFRE,cap,diesel, 0.533 tCO2/MWh is applied.	Input on "MPS(input_separate)" sheet

Table3: *Ex-post* calculation of CO_2 emission reductions

Monitoring period	CO_2 emission reductions	Units
2018/1/1~2018/12/31	93	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 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)

	Parameters monitored *ex post*	Project-specific parameters fixed *ex ante*
i	$EG_{i,p}$	$EF_{RE,i}$
Solar PV system number	Quantity of the electricity generated by the project solar PV system *i* during the period *p*	Reference CO_2 emission factor for the project solar PV system *i*
	MWh/p	tCO_2/MWh
1	175.680	0.533
2		0.000
3		0.000
4		0.000
5		0.000
6		0.000
7		0.000
8		0.000
9		0.000
10		0.000
11		0.000
12		0.000
13		0.000
14		0.000
15		0.000
16		0.000
17		0.000
18		0.000
19		0.000
20		0.000
21		0.000
22		0.000
23		0.000
24		0.000
25		0.000
26		0.000
27		0.000
28		0.000
29		0.000
30		0.000
31		0.000
32		0.000
33		0.000
34		0.000
35		0.000
36		0.000
37		0.000
38		0.000
39		0.000
40		0.000
41		0.000
42		0.000
43		0.000
44		0.000
45		0.000
46		0.000
47		0.000
48		0.000
49		0.000
50		0.000
51		0.000
52		0.000
53		0.000
54		0.000
55		0.000
56		0.000
57		0.000
58		0.000
59		0.000
60		0.000
61		0.000
62		0.000
63		0.000
64		0.000
65		0.000

66		0.000
67		0.000
68		0.000
69		0.000
70		0.000
71		0.000
72		0.000
73		0.000
74		0.000
75		0.000
76		0.000
77		0.000
78		0.000
79		0.000
80		0.000
81		0.000
82		0.000
83		0.000
84		0.000
85		0.000
86		0.000
87		0.000
88		0.000
89		0.000
90		0.000
91		0.000
92		0.000
93		0.000
94		0.000
95		0.000
96		0.000
97		0.000
98		0.000
99		0.000
100		0.000

Monitoring Spreadsheet: JCM_BD_AM002_ver01.0

Reference Number: BD004

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	93.64	tCO_2/p	ER_p
2. Selected default values, etc.				
The reference CO_2 emission factor of electricity				
The reference CO_2 emission factor based on the national grid and captive gas power generator	Mixed	0.376	tCO_2/MWh	$EF_{RE,grid}$, $EF_{RE,cap,gas}$
The reference CO_2 emission factor based on captive diesel power generator	Diesel	0.533	tCO_2/MWh	$EF_{RE,cap,diesel}$
3. Calculations for reference emissions				
Reference emissions during the period *p*	N/A	93.64	tCO_2/p	RE_p
4. Calculations of the project emissions				
Project emissions during the period *p*	N/A	0.00	tCO_2/p	PE_p

[List of Default Values]

The reference CO_2 emission factor based on the national grid and captive gas power generator	Mixed	0.376
The reference CO_2 emission factor based on captive diesel power generator	Diesel	0.533

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
2019/1/1~ 2019/7/31	(1)	$EG_{i,p}$	Quantity of the electricity generated by the project solar PV system *i* during the period *p*	125.00	MWh/p	Option C	Measured data (Monthly Records)	The electronic multimeter SQLC - 110L is an electricity meter that measures electric power generated by the PV system. It measures the instantaneous generated power kW and displays as integrated generated power kWh. The integrated generated power is read and the difference from the previous month is recorded as the generated electric energy of the current month at the end of the month. The electricity meter is calibrated or replaced once in 7 years after the installation following the Japanese standard for electric meters. The data monitored and required for verification and issuance be kept and archived electronically for two years after the final issuance of credits.	Monthly recording	Input on "MRS(input_separate)" sheet

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
$EF_{RE,i}$	Reference CO_2 emission factor for the project solar PV system *i*	-	tCO_2/MWh	In case the PV system in a proposed project activity is connected to the Bangladesh national grid including an internal grid which is not connected to a captive power generator, EFRE,grid, 0.376 tCO2/MWh is applied. In case the PV system in a proposed project activity is connected to an internal grid which is connected to both the national grid and a captive power generator, EFRE,grid, 0.376 tCO2/MWh is applied. In case the PV system in a proposed project activity is connected to a captive power generator but not connected to the national grid, EFRE,cap,gas, 0.376 tCO2/MWh is applied unless the captive power generator uses only oil fuel. In case the captive power generator uses only oil fuel, EFRE,cap,diesel, 0.533 tCO2/MWh is applied.	Input on "MPS(input_separate)" sheet

Table3: *Ex-post* calculation of CO_2 emission reductions

Monitoring period	CO_2 emission reductions	Units
2019/1/1~2019/7/31	66	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 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)

	Parameters monitored *ex post*	Project-specific parameters fixed *ex ante*
i	$EG_{i,p}$	$EF_{RE,i}$
Solar PV system number	Quantity of the electricity generated by the project solar PV system *i* during the period *p*	Reference CO_2 emission factor for the project solar PV system *i*
	MWh/p	tCO_2/MWh
1	125.000	0.533
2		0.000
3		0.000
4		0.000
5		0.000
6		0.000
7		0.000
8		0.000
9		0.000
10		0.000
11		0.000
12		0.000
13		0.000
14		0.000
15		0.000
16		0.000
17		0.000
18		0.000
19		0.000
20		0.000
21		0.000
22		0.000
23		0.000
24		0.000
25		0.000
26		0.000
27		0.000
28		0.000
29		0.000
30		0.000
31		0.000
32		0.000
33		0.000
34		0.000
35		0.000
36		0.000
37		0.000
38		0.000
39		0.000
40		0.000
41		0.000
42		0.000
43		0.000
44		0.000
45		0.000
46		0.000
47		0.000
48		0.000
49		0.000
50		0.000
51		0.000
52		0.000
53		0.000
54		0.000
55		0.000
56		0.000
57		0.000
58		0.000
59		0.000
60		0.000
61		0.000
62		0.000
63		0.000
64		0.000
65		0.000

66		0.000
67		0.000
68		0.000
69		0.000
70		0.000
71		0.000
72		0.000
73		0.000
74		0.000
75		0.000
76		0.000
77		0.000
78		0.000
79		0.000
80		0.000
81		0.000
82		0.000
83		0.000
84		0.000
85		0.000
86		0.000
87		0.000
88		0.000
89		0.000
90		0.000
91		0.000
92		0.000
93		0.000
94		0.000
95		0.000
96		0.000
97		0.000
98		0.000
99		0.000
100		0.000

Monitoring Spreadsheet: JCM_BD_AM002_ver01.0
Reference Number: BD004

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	66.63	tCO_2/p	ER_p
2. Selected default values, etc.				
The reference CO_2 emission factor of electricity				
The reference CO_2 emission factor based on the national grid and captive gas power generator	Mixed	0.376	tCO_2/MWh	$EF_{RE,grid}$, $EF_{RE,cap,gas}$
The reference CO_2 emission factor based on captive diesel power generator	Diesel	0.533	tCO_2/MWh	$EF_{RE,cap,diesel}$
3. Calculations for reference emissions				
Reference emissions during the period *p*	N/A	66.63	tCO_2/p	RE_p
4. Calculations of the project emissions				
Project emissions during the period *p*	N/A	0.00	tCO_2/p	PE_p

[List of Default Values]

The reference CO_2 emission factor based on the national grid and captive gas power generator	Mixed	0.376
The reference CO_2 emission factor based on captive diesel power generator	Diesel	0.533