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**
2017/12/1 - 2017/12/31	(1)	ΣEGi,p	Total quantity of the electricity generated in the project during the period *p*	85.72	MWh/p	Option C	Measured data	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 or the inverters. The reading is taken manually or electronically using a data logger. The electricity meter is certified by an entity accredited under international/national standards. The electricity meter is replaced or tested for accuracy at an interval following the regulations in the country in which the electricity meter is commonly used or according to the manufacturer's recommendation. The electricity meter is calibrated or replaced when it fails to pass the test.	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_{RE}	Reference CO_2 emission factor of grid and/or captive electricity	0.319	tCO_2/MWh	The default emission factor is derived from the result of the survey on the generation efficiency of major natural gas-fired power plants in Thailand. The default value should be revised if necessary from survey result which is conducted by the JC or project participants.	N/A

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

Monitoring period	CO_2 emission reductions	Units
2017/12/1 - 2017/12/31	27	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)

Monitoring Spreadsheet: JCM_TH_AM001_ver01.0

Reference Number: TH005

i	$EG_{i,p}$
solar PV system number	Quantity of the electricity generated by the project solar PV system *i* during the period *p*
	MWh/p
1 (SPEC 1)	5.21
2 (SPEC 2)	2.29
3 (SPEC 3)	36.76
4 (SCAN 2)	33.50
5 (SCAN 3)	1.53
6 (SPEC 4)	6.44
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	

50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

Monitoring Spreadsheet: JCM_TH_AM001_ver01.0

Reference Number: TH005

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	27.3	tCO_2/p	ER_p
2. Selected default values, etc.				
Reference CO_2 emission factor of grid and/or captive electricity	Electricity	0.319	tCO_2/MWh	EF_{RE}
3. Calculations for reference emissions				
Reference emissions during the period *p*	N/A	27.3	tCO_2/p	RE_p
Total quantity of the electricity generated in the project during the period *p*	Electricity	85.72	MWh/p	$\Sigma EG_{i,p}$
Reference CO_2 emission factor of grid and/or captive electricity	Electricity	0.319	tCO_2/MWh	EF_{RE}
4. Calculations of the project emissions				
Project emissions during the period *p*	N/A	0.0	tCO_2/p	PE_p

[List of Default Values]

Reference CO_2 emission factor of grid and/or captive electricity	0.319	tCO_2/MWh

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)	ΣEGi,p	Total quantity of the electricity generated in the project during the period *p*	2,138.61	MWh/p	Option C	Measured data	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 or the inverters. The reading is taken manually or electronically using a data logger. The electricity meter is certified by an entity accredited under international/national standards. The electricity meter is replaced or tested for accuracy at an interval following the regulations in the country in which the electricity meter is commonly used or according to the manufacturer's recommendation. The electricity meter is calibrated or replaced when it fails to pass the test.	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_{RE}	Reference CO_2 emission factor of grid and/or captive electricity	0.319	tCO_2/MWh	The default emission factor is derived from the result of the survey on the generation efficiency of major natural gas-fired power plants in Thailand. The default value should be revised if necessary from survey result which is conducted by the JC or project participants.	N/A

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

Monitoring period	CO_2 emission reductions	Units
2018/1/1 - 2018/12/31	682	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)

Monitoring Spreadsheet: JCM_TH_AM001_ver01.0

Reference Number: TH005

i	$EG_{i,p}$
solar PV system number	Quantity of the electricity generated by the project solar PV system *i* during the period *p*
	MWh/p
1 (SPEC 1)	328.81
2 (SPEC 2)	198.17
3 (SPEC 3)	477.47
4 (SCAN 2)	487.19
5 (SCAN 3)	129.48
6 (SPEC 4)	517.50
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	

50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

Monitoring Spreadsheet: JCM_TH_AM001_ver01.0

Reference Number: TH005

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	682.2	tCO_2/p	ER_p
2. Selected default values, etc.				
Reference CO_2 emission factor of grid and/or captive electricity	Electricity	0.319	tCO_2/MWh	EF_{RE}
3. Calculations for reference emissions				
Reference emissions during the period *p*	N/A	682.2	tCO_2/p	RE_p
Total quantity of the electricity generated in the project during the period *p*	Electricity	2,138.61	MWh/p	$\Sigma EG_{i,p}$
Reference CO_2 emission factor of grid and/or captive electricity	Electricity	0.319	tCO_2/MWh	EF_{RE}
4. Calculations of the project emissions				
Project emissions during the period *p*	N/A	0.0	tCO_2/p	PE_p

[List of Default Values]

Reference CO_2 emission factor of grid and/or captive electricity	0.319	tCO_2/MWh