| Table 1: Param | | ed ex post | | | | | | | | |
|-------------------------|-------------------------|--------------------|---|---------------------|---------------------|----------------------|--|---|-------------------------|--|
| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (i) | (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 |
| 2017/3/1- 2017/12/31 | (1) | | Power consumption of project chiller <i>i</i> during the period <i>p</i> | 250 | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: The meter was calibrated on 06/01/2016 at the time of shipment from the factory. The accuracy level is in accordance with the meter specification (accuracy: ±0.5%). It is calibrated when the meter shows the unnatural value in periodical checks. | Continuously | |
| | (2) | FC _{PJ,p} | The amount of fuel input for power generation during the monitoring period <i>p</i> | | mass or weight/p | Option B | Invoice from fuel supply company | Data is collected and recorded from the invoices by the fuel supply company. | Continuously | for option c), Not applicable to this project |
| | (3) | EG _{PJ,p} | The amount of electricity generated during the monitoring period <i>p</i> | | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: In case a calibration certificate issued by an entity accredited under national/international standards is not provided, such measuring equipment is required to be calibrated. | Continuously | for option c), Not applicable to this project |

| (a) | (b) | (c) | (d) | (e) | (f) |
|----------------------------|--|---------------------|-----------------------|--|--|
| Parameters | Description of data | Estimated Values | Units | Source of data | Other comments |
| EF _{elec} | [For grid electricity] CO_2 emission factor for consumed electricity | 0.670 | 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 "Grid Emission Factor (GEF) of Bangladesh", endorsed by National CDM Committee unless otherwise instructed by the Joint Committee. | Letter No. DOE/International Convention/2012/21/07 dated 19_08_2013 |
| EF _{elec} | $\begin{array}{l} \mbox{[For captive electricity]} \\ \mbox{CO}_2 \mbox{ emission factor for consumed electricity} \\ \mbox{Option a} \end{array}$ | 0.000 | tCO ₂ /MWh | Determined based on the following options: a) the most recent value available from CDM approved small scale methodology AMS-LA., b) power generation efficiency obtained from manufacturer's specification, and c) the power generation efficiency calculated from monitored data of the amount of fuel input for power generation and the amount of electricity generated. | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option b | 0.000 | tCO ₂ /MWh | Calculated | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option c | 0.000 | tCO ₂ /MWh | Calculated | |
| T _{cooling-out,i} | Output cooling water temperature of project chiller <i>i</i> set under the project specific condition | 37.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| T _{chilled-out,i} | Output chilled water temperature of project chiller <i>i</i> set under the project specific condition | 7.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{RE,i} | COP of reference chiller <i>i</i> under the standardizing temperature conditions | 5.13 | - | Selected from the default values set in the methodology | |
| COP _{PJ,i} | COP of project chiller <i>i</i> under the project specific conditions | 6.16 | - | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{PJ,tc,i} | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | 6.16 | - | Calculated with the following equation; COP _{PJ,tc.} = COP _{PJ,t.} × [(T _{ccoling-out.} - T _{chilled-out.} + TD _{chilled} + TD _{ccoling}) ÷ (37 - 7 + TD _{chilled} + TD _{ccoling})] | |
| η _{elec} | Power generation efficiency | 0.0 | % | Specification of the captive power generation system provided by the manufacturer | for option b) |
| NCV _{fuel} | Net calorific value of consumed fuel | 0.00 | GJ/mass or weight | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for option c) |
| EF _{fuel} | CO ₂ emission factor of consumed fuel | 0.00 | tCO ₂ /GJ | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for both option b) and c) |

 Monitoring Period
 CO2 emission reductions
 Units

 2017/3/1-2017/12/31
 33
 tCO2/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 Report Sheet (Calculation Process Sheet) [For Verification]

| I. Ca | Iculations for emission reductions | Fuel type | Value | Units | Parameter |
|-------|---|-------------|--------|-----------------------|------------------------|
| Er | nission reductions during the period <i>p</i> | N/A | 33.65 | tCO ₂ /p | ER_{p} |
| 2. Se | lected default values, etc. | | | | |
| | OP of reference chiller <i>i</i> under the standardizing temperature onditions | N/A | 5.13 | - | $COP_{RE,i}$ |
| 3. Ca | Iculations for reference emissions | | | | |
| Re | eference emissions during the period <i>p</i> | N/A | 201.27 | tCO ₂ /p | RE_p |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | Power consumption of project chiller i | Electricity | 250 | MWh/p | EC _{PJ,i,p} |
| | COP of reference chiller <i>i</i> under the standardizing temperature conditions | N/A | 5.13 | - | $COP_{RE,i}$ |
| | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | N/A | 6.16 | - | COP _{PJ,tc,i} |
| 4. Ca | Iculations of the project emissions | | | | |
| Pr | oject emissions during the period p | N/A | 167.61 | tCO ₂ /p | PE_{p} |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller i | Electricity | 250 | MWh/p | EC _{PJ,i,p} |

| COP _{RE,i} (x<300USRt) | 5.13 | - |
|---------------------------------------|------|---|
| COP _{RE,i} (300≦x<700USRt) | 5.50 | - |
| COP _{RE,i} (700≦x<1,150USRt) | 5.66 | - |

| TD _{cooling} | 1.5 | degree Celsius |
|-----------------------|-----|----------------|
| TD _{chilled} | 1.5 | degree Celsius |

| Table 1: Param | | | | | | | | | | |
|-------------------------|-------------------------|--------------------|---|---------------------|---------------------|----------------------|--|--|-------------------------|--|
| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (i) | (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 |
| 2017/3/1- 2017/12/31 | (1) | | Power consumption of project chiller <i>i</i> during the period <i>p</i> | 0 | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: The meter was calibrated on 11/09/2017 at the time of shipment from the factory. The accuracy teols is in accordance with the meter specification (accuracy: ±0.5%). It is calibrated when the meter shows the unnatural value in procession. | Continuously | |
| | (2) | FC _{PJ,p} | The amount of fuel input for power generation during the monitoring period <i>p</i> | | mass or weight/p | Option B | Invoice from fuel supply company | Data is collected and recorded from the invoices by the fuel supply company. | Continuously | for option c), Not applicable to this project |
| | (3) | EG _{PJ,p} | The amount of electricity generated during the monitoring period <i>p</i> | | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: In case a calibration certificate issued by an entity accredited under national/international standards is not provided, such measuring equipment is required to be calibrated. | Continuously | for option c), Not applicable to this project |

| (a) | (b) | (c) | (d) | (e) | (f) |
|----------------------------|--|---------------------|-----------------------|---|--|
| Parameters | Description of data | Estimated Values | Units | Source of data | Other comments |
| EF _{elec} | [For grid electricity] CO_2 emission factor for consumed electricity | 0.670 | tCO ₂ /MWh | by National CDM Committee unless otherwise instructed by the Joint Committee. | Letter No. DOE/International Convention/2012/21/07 dated 19, 08, 2013 |
| EF _{elec} | $\begin{array}{l} \mbox{[For captive electricity]} \\ \mbox{CO}_2 \mbox{ emission factor for consumed electricity} \\ \mbox{Option a} \end{array}$ | 0.000 | tCO ₂ /MWh | Determined based on the following options: a) the most recent value available from CDM approved small scale methodology AMS-I.A., b) power generation efficiency obtained from manufacturer's specification, and c) the power generation efficiency calculated from monitored data of the amount of fuel input for power generation and the amount of electricity generated. | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option b | 0.000 | tCO ₂ /MWh | Calculated | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option c | 0.000 | tCO ₂ /MWh | Calculated | |
| T _{cooling-out,i} | Output cooling water temperature of project chiller <i>i</i> set under the project specific condition | 37.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| T _{chilled-out,i} | Output chilled water temperature of project chiller <i>i</i> set under the project specific condition | 6.9 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{RE,i} | COP of reference chiller <i>i</i> under the standardizing temperature conditions | 5.13 | - | Selected from the default values set in the methodology | |
| COP _{PJ,i} | COP of project chiller <i>i</i> under the project specific conditions | 6.16 | - | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{PJ,tc,i} | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | 6.18 | - | Calculated with the following equation; COP _{PJ,tc,i} = COP _{PJ,t} × [(T _{cooling-out,i} - T _{chilled-out,i} + TD _{chilled} + TD _{cooling}) + (37 - 7 + TD _{chilled} + TD _{cooling})] | |
| η _{elec} | Power generation efficiency | 0.0 | % | Specification of the captive power generation system provided by the manufacturer | for option b) |
| NCV _{fuel} | Net calorific value of consumed fuel | 0.00 | GJ/mass or weight | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for option c) |
| EF _{fuel} | CO_2 emission factor of consumed fuel | 0.00 | tCO ₂ /GJ | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for both option b) and o |

 Monitoring Period
 CO₂ emission reductions
 Units

 2017/3/1-2017/12/31
 0
 tCO₂/p

[Monitoring option] Option A Option B Option C 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) Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence such as invoices) Based on the actual measurement using measuring equipments (Data used: measured values)

Monitoring Report Sheet (Calculation Process Sheet) [For Verification]

| 1. Ca | Iculations for emission reductions | Fuel type | Value | Units | Parameter |
|-------|---|-------------|-------|-----------------------|------------------------|
| E | nission reductions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | ER_{p} |
| 2. Se | lected default values, etc. | | | | |
| | OP of reference chiller <i>i</i> under the standardizing temperature onditions | N/A | 5.13 | - | COP _{RE,i} |
| 3. Ca | Iculations for reference emissions | | | | |
| R | eference emissions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | REp |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller i | Electricity | 0 | MWh/p | EC _{PJ,i,p} |
| | COP of reference chiller <i>i</i> under the standardizing temperature conditions | N/A | 5.13 | - | $COP_{RE,i}$ |
| | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | N/A | 6.18 | - | COP _{PJ,tc,i} |
| 4. Ca | Iculations of the project emissions | | | | |
| P | oject emissions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | PE_{p} |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | Power consumption of project chiller i | Electricity | 0 | MWh/p | EC _{PJ,i,p} |

| COP _{RE,i} (x<300USRt) | 5.13 | - |
|---------------------------------------|------|---|
| COP _{RE,i} (300≦x<700USRt) | 5.50 | - |
| COP _{RE,i} (700≦x<1,150USRt) | 5.66 | - |

| TD _{cooling} | 1.5 | degree Celsius |
|-----------------------|-----|----------------|
| TD _{chilled} | 1.5 | degree Celsius |

| | neters monitor | | | | | | | | | |
|-------------------------|-------------------------|--------------------|---|---------------------|---------------------|----------------------|--|---|-------------------------|--|
| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (i) | (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 |
| 2017/3/1- 2017/12/31 | (1) | | Power consumption of project chiller <i>i</i> during the period <i>p</i> | 0 | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: The meter was calibrated on 11/09/2017 at the time of shipment from the factory. The accuracy level is in accordance with the meter specification (accuracy: ±0.5%). It is calibrated when the meter shows the unnatural value | Continuously | |
| | (2) | FC _{PJ,p} | The amount of fuel input for power generation during the monitoring period <i>p</i> | | mass or weight/p | Option B | Invoice from fuel supply company | Data is collected and recorded from the invoices by the fuel supply company. | Continuously | for option c), Not applicable to this project |
| | (3) | EG _{PJ,p} | The amount of electricity generated during the monitoring period p | | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: In case a calibration certificate issued by an entity accredited under national/international standards is not provided, such measuring equipment is equivated is calibrated. | Continuously | for option c), Not applicable to this project |

| (a) | (b) | (c) | (d) | (e) | (f) | |
|--------------------------------|--|---------------------|-----------------------|---|---|--|
| Parameters Description of data | | Estimated Values | Units | Source of data | Other comments | |
| EF _{elec} | [For grid electricity] CO ₂ emission factor for consumed electricity | 0.670 | 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 "Grid Emission Factor (GEF) of Bangladesh", endorsed by National CDM Committee unless otherwise instructed by the Joint Committee. | Letter No. DOE/International Convention/2012/21/0 dated 19_08_2013 | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option a | 0.000 | tCO ₂ /MWh | Determined based on the following options: a) the most recent value available from CDM approved small scale methodology AMS-I.A., b) power generation efficiency obtained from manufacturer's specification, and c) the power generation efficiency calculated from monitored data of the amount of fuel input for power generation and the amount of electricity generated. | | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option b | 0.000 | tCO ₂ /MWh | | | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option c | 0.000 | tCO ₂ /MWh | Calculated | | |
| T _{cooling-out,i} | Output cooling water temperature of project chiller <i>i</i> set under the project specific condition | 37.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | | |
| T _{chilled-out,i} | Output chilled water temperature of project chiller <i>i</i> set under the project specific condition | 7.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | | |
| COP _{RE,i} | COP of reference chiller <i>i</i> under the standardizing temperature conditions | 5.13 | - | Selected from the default values set in the methodology | | |
| COP _{PJ,i} | COP of project chiller <i>i</i> under the project specific conditions | 6.16 | - | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | | |
| COP _{PJ,tc,i} | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | 6.16 | - | Calculated with the following equation; COP _{PJ,tc,i} = COP _{PJ,t} × [(T _{cooling-out,i} - T _{chilled-out,i} + TD _{chilled} + TD _{cooling}) + (37 - 7 + TD _{chilled} + TD _{cooling})] | | |
| η _{elec} | Power generation efficiency | 0.0 | % | Specification of the captive power generation system provided by the manufacturer | for option b) | |
| NCV _{fuel} | Net calorific value of consumed fuel | 0.00 | GJ/mass or weight | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. In order of preference: | for option c) | |
| EF _{fuel} | CO ₂ emission factor of consumed fuel | 0.00 | tCO ₂ /GJ | for both option b) and | | |

 Monitoring Period
 CO2 emission reductions

 2017/3/1-2017/12/31

Units 0 tCO₂/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 Report Sheet (Calculation Process Sheet) [For Verification]

| 1. Ca | Iculations for emission reductions | Fuel type | Value | Units | Parameter |
|-------|---|-------------|-------|-----------------------|------------------------|
| E | nission reductions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | ER_{p} |
| 2. Se | lected default values, etc. | | | | |
| | OP of reference chiller <i>i</i> under the standardizing temperature onditions | N/A | 5.13 | - | COP _{RE,i} |
| 3. Ca | Iculations for reference emissions | | | | |
| R | eference emissions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | REp |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF _{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller i | Electricity | 0 | MWh/p | EC _{PJ,i,p} |
| | COP of reference chiller <i>i</i> under the standardizing temperature conditions | N/A | 5.13 | - | COP _{RE,i} |
| | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | N/A | 6.16 | - | COP _{PJ,tc,i} |
| 4. Ca | Iculations of the project emissions | | | | |
| Pi | oject emissions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | PE_{p} |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller i | Electricity | 0 | MWh/p | EC _{PJ,i,p} |

| COP _{RE,i} (x<300USRt) | 5.13 | - |
|---------------------------------------|------|---|
| COP _{RE,i} (300≦x<700USRt) | 5.50 | - |
| COP _{RE,i} (700≦x<1,150USRt) | 5.66 | - |

| TD _{cooling} | 1.5 | degree Celsius |
|-----------------------|-----|----------------|
| TD _{chilled} | 1.5 | degree Celsius |

| Table 1: Param | | | | | | | | | | |
|-------------------------|-------------------------|--------------------|---|---------------------|---------------------|----------------------|--|---|-------------------------|--|
| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (i) | (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) | | Power consumption of project chiller <i>i</i> during the period <i>p</i> | 532 | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: The meter was calibrated on 06/01/2016 at the time of shipment from the factory. The accuracy level is in accordance with the meter specification (accuracy: ±0.5%). It is calibrated when the meter shows the unnatural value | Continuously | |
| | (2) | FC _{PJ,p} | The amount of fuel input for power generation during the monitoring period <i>p</i> | | mass or weight/p | Option B | Invoice from fuel supply company | Data is collected and recorded from the invoices by the fuel supply company. | Continuously | for option c), Not applicable to this project |
| | (3) | EG _{PJ,p} | The amount of electricity generated during the monitoring period p | | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: In case a calibration certificate issued by an entity accredited under national/international standards is not provided, such measuring equipment is required to be calibrated. | Continuously | for option c), Not applicable to this project |

| (a) | (b) | (c) | (d) | (e) | (f) |
|--------------------------------|--|---------------------|-----------------------|---|--|
| Parameters Description of data | | Estimated Values | Units | Source of data | Other comments |
| EF _{elec} | [For grid electricity] CO_2 emission factor for consumed electricity | 0.670 | 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 "Grid Emission Factor (GEF) of Bangladesh", endorsed by National CDM Committee unless otherwise instructed by the Joint Committee. | Letter No. DOE/International Convention/2012/21/07 dated 19, 08, 2013 |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option a | 0.000 | tCO ₂ /MWh | Determined based on the following options: a) the most recent value available from CDM approved small scale methodology AMS-I.A., b) power generation efficiency obtained from manufacturer's specification, and c) the power generation efficiency calculated from monitored data of the amount of fuel input for power generation and the amount of electricity generated. | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option b | 0.000 | tCO ₂ /MWh | Calculated | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option c | 0.000 | tCO ₂ /MWh | Calculated | |
| T _{cooling-out,i} | Output cooling water temperature of project chiller <i>i</i> set under the project specific condition | 37.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| T _{chilled-out,i} | Output chilled water temperature of project chiller <i>i</i> set under the project specific condition | 7.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{RE,i} | COP of reference chiller <i>i</i> under the standardizing temperature conditions | 5.13 | - | Selected from the default values set in the methodology | |
| COP _{PJ,i} | COP of project chiller <i>i</i> under the project specific conditions | 6.16 | - | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{PJ,tc,i} | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | 6.16 | - | Calculated with the following equation; COP _{PJ,tc.} = COP _{PJ,tc.} × [(T _{cooling-out.i} - T _{chilled-out.i} + TD _{chilled} + TD _{cooling}) ÷ (37 - 7 + TD _{chilled} + TD _{cooling})] | |
| η _{elec} | Power generation efficiency | 0.0 | % | Specification of the captive power generation system provided by the manufacturer | for option b) |
| NCV _{fuel} | Net calorific value of consumed fuel | 0.00 | GJ/mass or weight | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for option c) |
| EF _{fuel} | CO ₂ emission factor of consumed fuel | 0.00 | tCO ₂ /GJ | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is apolled. | for both option b) and c |

 Monitoring Period
 CO2 emission reductions
 Units

 2018/1/1-2018/12/31
 71
 tCO2/p

| [Monitoring o | ption] | |
|---------------|----------|--|
| | 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 Report Sheet (Calculation Process Sheet) [For Verification]

| 1. Ca | Iculations for emission reductions | Fuel type | Value | Units | Parameter |
|-------|---|-------------|--------|-----------------------|---------------------------------------|
| E | nission reductions during the period <i>p</i> | N/A | 71.62 | tCO ₂ /p | ER _p |
| 2. Se | lected default values, etc. | | | | i i i i i i i i i i i i i i i i i i i |
| | OP of reference chiller <i>i</i> under the standardizing temperature onditions | N/A | 5.13 | - | COP _{RE,i} |
| 3. Ca | Iculations for reference emissions | | | | |
| R | eference emissions during the period <i>p</i> | N/A | 428.35 | tCO ₂ /p | REp |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | Power consumption of project chiller i | Electricity | 532 | MWh/p | EC _{PJ,i,p} |
| | COP of reference chiller <i>i</i> under the standardizing temperature conditions | N/A | 5.13 | - | $COP_{RE,i}$ |
| | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | N/A | 6.16 | - | COP _{PJ,tc,i} |
| 4. Ca | Iculations of the project emissions | | | | |
| Pi | oject emissions during the period <i>p</i> | N/A | 356.73 | tCO ₂ /p | PE_{p} |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | Power consumption of project chiller i | Electricity | 532 | MWh/p | EC _{PJ,i,p} |

| COP _{RE,i} (x<300USRt) | 5.13 | - |
|---------------------------------------|------|---|
| COP _{RE,i} (300≦x<700USRt) | 5.50 | - |
| COP _{RE,i} (700≦x<1,150USRt) | 5.66 | - |

| TD _{cooling} | 1.5 | degree Celsius |
|-----------------------|-----|----------------|
| TD _{chilled} | 1.5 | degree Celsius |

| Table 1: Param | | | | | | | | | | |
|-------------------------|-------------------------|--------------------|---|---------------------|---------------------|----------------------|--|--|-------------------------|--|
| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (i) | (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) | | Power consumption of project chiller <i>i</i> during the period <i>p</i> | 0 | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: The meter was calibrated on 11/09/2017 at the time of shipment from the factory. The accuracy teols is in accordance with the meter specification (accuracy: ±0.5%). It is calibrated when the meter shows the unnatural value in procession. | Continuously | |
| | (2) | FC _{PJ,p} | The amount of fuel input for power generation during the monitoring period <i>p</i> | | mass or weight/p | Option B | Invoice from fuel supply company | Data is collected and recorded from the invoices by the fuel supply company. | Continuously | for option c), Not applicable to this project |
| | (3) | EG _{PJ,p} | The amount of electricity generated during the monitoring period <i>p</i> | | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: In case a calibration certificate issued by an entity accredited under national/international standards is not provided, such measuring equipment is required to be calibrated. | Continuously | for option c), Not applicable to this project |

| (a) | (b) | (C) | (d) | (e) | (f) |
|----------------------------|--|--|-----------------------|--|--|
| Parameters | Description of data | Estimated Values | Units | Source of data | Other comments |
| EF _{elec} | [For grid electricity] CO_2 emission factor for consumed electricity | 0.670 | 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 "Grid Emission Factor (GEF) of Bangladesh", endorsed by National CDM Committee unless otherwise instructed by the Joint Committee. | Letter No. DOE/International Convention/2012/21/07 dated 19, 08, 2013 |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option a | 0.000 | tCO ₂ /MWh | Determined based on the following options: a) the most recent value available from CDM approved small scale methodology AMS-LA., b) power generation efficiency obtained from manufacturer's specification, and c) the power generation efficiency calculated from monitored data of the amount of fuel input for power generation and the amount of electricity generated. | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option b | 0.000 | tCO ₂ /MWh | Calculated | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option c | 0.000 | tCO ₂ /MWh | Calculated | |
| T _{cooling-out,i} | Output cooling water temperature of project chiller <i>i</i> set under the project specific condition | 37.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| T _{chilled-out,i} | Output chilled water temperature of project chiller <i>i</i> set under the project specific condition | 6.9 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{RE,i} | COP of reference chiller <i>i</i> under the standardizing temperature conditions | 5.13 | - | Selected from the default values set in the methodology | |
| COP _{PJ,i} | COP of project chiller <i>i</i> under the project specific conditions | 6.16 | - | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{PJ,tc,i} | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | 6.18 | - | Calculated with the following equation; COP _{PJ,tc.} = COP _{PJ,t.} × [(T _{ccoling-out.} - T _{chilled-out.} + TD _{chilled} + TD _{ccoling}) ÷ (37 - 7 + TD _{chilled} + TD _{ccoling})] | |
| η _{elec} | Power generation efficiency | 0.0 | % | Specification of the captive power generation system provided by the manufacturer | for option b) |
| NCV _{fuel} | Net calorific value of consumed fuel | 0.00 | GJ/mass or weight | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for option c) |
| EF _{fuel} | CO ₂ emission factor of consumed fuel | In order of preference: 1) values provided by the fuel supplier; 2) precedure the the precision participants | | | |

 Monitoring Period
 CO2 emission reductions
 Units

 2018/1/1-2018/12/31
 0
 tCO2/p

[Monitoring option] Option A Option B Option C 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) Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence such as invoices) Based on the actual measurement using measuring equipments (Data used: measured values)

Monitoring Report Sheet (Calculation Process Sheet) [For Verification]

| 1. Ca | Iculations for emission reductions | Fuel type | Value | Units | Parameter |
|-------|---|-------------|-------|-----------------------|------------------------|
| E | nission reductions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | ER_{p} |
| 2. Se | lected default values, etc. | | | | |
| | OP of reference chiller <i>i</i> under the standardizing temperature onditions | N/A | 5.13 | - | COP _{RE,i} |
| 3. Ca | Iculations for reference emissions | | | | |
| R | eference emissions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | REp |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller i | Electricity | 0 | MWh/p | EC _{PJ,i,p} |
| | COP of reference chiller <i>i</i> under the standardizing temperature conditions | N/A | 5.13 | - | $COP_{RE,i}$ |
| | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | N/A | 6.18 | - | COP _{PJ,tc,i} |
| 4. Ca | Iculations of the project emissions | | | | |
| P | oject emissions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | PE_{p} |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | Power consumption of project chiller i | Electricity | 0 | MWh/p | EC _{PJ,i,p} |

| COP _{RE,i} (x<300USRt) | 5.13 | - |
|---------------------------------------|------|---|
| COP _{RE,i} (300≦x<700USRt) | 5.50 | - |
| COP _{RE,i} (700≦x<1,150USRt) | 5.66 | - |

| TD _{cooling} | 1.5 | degree Celsius |
|-----------------------|-----|----------------|
| TD _{chilled} | 1.5 | degree Celsius |

| | neters monitor | | | | | | | | | |
|-------------------------|-------------------------|--------------------|---|---------------------|---------------------|----------------------|--|---|-------------------------|--|
| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (i) | (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) | | Power consumption of project chiller i during the period p | 0 | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: The meter was calibrated on 11/09/2017 at the time of shipment from the factory. The accuracy level is in accordance with the meter specification (accuracy: ±0.5%). It is calibrated when the meter shows the unnatural value | Continuously | |
| | (2) | FC _{PJ,p} | The amount of fuel input for power generation during the monitoring period <i>p</i> | | mass or weight/p | Option B | Invoice from fuel supply company | Data is collected and recorded from the invoices by the fuel supply company. | Continuously | for option c), Not applicable to this project |
| | (3) | EG _{PJ,p} | The amount of electricity generated during the monitoring period p | | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: In case a calibration certificate issued by an entity accredited under national/international standards is not provided, such measuring equipment is required to be calibrated. | Continuously | for option c), Not applicable to this project |

| (a) | (b) | (c) | (d) | (e) | (f) |
|---|--|---------------------|--|---|---|
| Parameters | Description of data | Estimated Values | Units | Source of data | Other comments |
| EF _{elec} | [For grid electricity] CO ₂ emission factor for consumed electricity | | or consumed electricity 0.670 tCo ₂ /MWh period thereafter. The data is sourced from "Grid Emission Factor (GEF) of Bangladesh", by National CDM Committee unless otherwise instructed by the Joint Committee. | | Letter No. DOE/International Convention/2012/21/0 dated 19_08_2013 |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option a | 0.000 | tCO ₂ /MWh | Determined based on the following options: a) the most recent value available from CDM approved small scale methodology AMS-I.A., b) power generation efficiency obtained from manufacturer's specification, and c) the power generation efficiency calculated from monitored data of the amount of fuel input for power generation and the amount of electricity generated. | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option b | 0.000 | tCO ₂ /MWh | | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option c | 0.000 | tCO ₂ /MWh | Calculated | |
| T _{cooling-out,i} | Output cooling water temperature of project chiller <i>i</i> set under the project specific condition | 37.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| T _{chilled-out,i} | Output chilled water temperature of project chiller <i>i</i> set under the project specific condition | 7.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{RE,i} | COP of reference chiller <i>i</i> under the standardizing temperature conditions | 5.13 | - | Selected from the default values set in the methodology | |
| COP _{PJ,i} | COP of project chiller <i>i</i> under the project specific conditions | 6.16 | - | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{PJ,tc,i} | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | 6.16 | - | Calculated with the following equation; COP _{PJ,tc,i} = COP _{PJ,t} × [(T _{cooling-out,i} - T _{chilled-out,i} + TD _{chilled} + TD _{cooling}) + (37 - 7 + TD _{chilled} + TD _{cooling})] | |
| η _{elec} | Power generation efficiency | 0.0 | % | Specification of the captive power generation system provided by the manufacturer | for option b) |
| ICV _{fuel} Net calorific value of consumed fuel | | 0.00 | GJ/mass or weight | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for option c) |
| EF _{fuel} CO ₂ emission factor of consumed fuel | | 0.00 | tCO ₂ /GJ | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is apolled. | for both option b) and |

 Monitoring Period
 CO2 emission reductions

 2018/1/1-2018/12/31

Units 0 tCO₂/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 Report Sheet (Calculation Process Sheet) [For Verification]

| 1. Ca | Iculations for emission reductions | Fuel type | Value | Units | Parameter |
|-------|---|-------------|-------|-----------------------|------------------------|
| E | nission reductions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | ER_{p} |
| 2. Se | lected default values, etc. | | | | |
| | OP of reference chiller <i>i</i> under the standardizing temperature onditions | N/A | 5.13 | - | COP _{RE,i} |
| 3. Ca | Iculations for reference emissions | | | | |
| R | eference emissions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | REp |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF _{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller i | Electricity | 0 | MWh/p | EC _{PJ,i,p} |
| | COP of reference chiller <i>i</i> under the standardizing temperature conditions | N/A | 5.13 | - | COP _{RE,i} |
| | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | N/A | 6.16 | - | COP _{PJ,tc,i} |
| 4. Ca | Iculations of the project emissions | | | | |
| Pi | oject emissions during the period <i>p</i> | N/A | 0.00 | tCO ₂ /p | PE_{p} |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller i | Electricity | 0 | MWh/p | EC _{PJ,i,p} |

| COP _{RE,i} (x<300USRt) | 5.13 | - |
|---------------------------------------|------|---|
| COP _{RE,i} (300≦x<700USRt) | 5.50 | - |
| COP _{RE,i} (700≦x<1,150USRt) | 5.66 | - |

| TD _{cooling} | 1.5 | degree Celsius |
|-----------------------|-----|----------------|
| TD _{chilled} | 1.5 | degree Celsius |

| Table 1: Param | | | | | | | | | | |
|------------------------|-------------------------|--------------------|---|---------------------|---------------------|----------------------|--|---|-------------------------|--|
| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (i) | (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) | | Power consumption of project chiller <i>i</i> during the period <i>p</i> | 90 | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: The meter was calibrated on 06/01/2016 at the time of shipment from the factory. The accuracy level is in accordance with the meter specification (accuracy: ±0.5%). It is calibrated when the meter shows the unnatural value in periodical checks. | Continuously | |
| | (2) | FC _{PJ,p} | The amount of fuel input for power generation during the monitoring period <i>p</i> | | mass or weight/p | Option B | Invoice from fuel supply company | Data is collected and recorded from the invoices by the fuel supply company. | Continuously | for option c), Not applicable to this project |
| | (3) | EG _{PJ,p} | The amount of electricity generated during the monitoring period <i>p</i> | | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: In case a calibration certificate issued by an entity accredited under national/international standards is not provided, such measuring equipment is required to be calibrated. | Continuously | for option c), Not applicable to this project |

| (a) | (b) | (c) | (d) | (e) | (f) |
|----------------------------|--|---------------------|-----------------------|--|--|
| Parameters | Description of data | Estimated Values | Units | Source of data | Other comments |
| EF _{elec} | [For grid electricity] CO_2 emission factor for consumed electricity | 0.670 | 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 "Grid Emission Factor (GEF) of Bangladesh", endorsed by National CDM Committee unless otherwise instructed by the Joint Committee. | Letter No. DOE/International Convention/2012/21/07 dated 19, 08, 2013 |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option a | 0.000 | tCO ₂ /MWh | Determined based on the following options: a) the most recent value available from CDM approved small scale methodology AMS-LA., b) power generation efficiency obtained from manufacturer's specification, and c) the power generation efficiency calculated from monitored data of the amount of fuel input for power generation and the amount of electricity generated. | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option b | 0.000 | tCO ₂ /MWh | Calculated | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option c | 0.000 | tCO ₂ /MWh | Calculated | |
| T _{cooling-out,i} | Output cooling water temperature of project chiller <i>i</i> set under the project specific condition | 37.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| T _{chilled-out,i} | Output chilled water temperature of project chiller <i>i</i> set under the project specific condition | 7.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{RE,i} | COP of reference chiller <i>i</i> under the standardizing temperature conditions | 5.13 | - | Selected from the default values set in the methodology | |
| COP _{PJ,i} | COP of project chiller <i>i</i> under the project specific conditions | 6.16 | - | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{PJ,tc,i} | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | 6.16 | - | Calculated with the following equation; COP _{PJ,tc,i} = COP _{PJ,t} × [(T _{cooling} out,i - T _{chilted} out,i + TD _{chilted} + TD _{cooling}) + (37 - 7 + TD _{chilted} + TD _{cooling})] | |
| η _{elec} | Power generation efficiency | 0.0 | % | Specification of the captive power generation system provided by the manufacturer | for option b) |
| NCV _{fuel} | Net calorific value of consumed fuel | 0.00 | GJ/mass or weight | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for option c) |
| EF _{fuel} | CO_2 emission factor of consumed fuel | 0.00 | tCO ₂ /GJ | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is apolled. | for both option b) and o |

 Monitoring Period
 CO2 emission reductions
 Units

 2019/1/1-2019/7/31
 12
 tCO2/p

| [Monitoring option] | | | | | | | | | |
|---------------------|----------|----------------------|--|--|--|--|--|--|--|
| | Option A | Based on public data | | | | | | | |
| | Option B | Based on the amoun | | | | | | | |
| | Ortion O | Record on the actual | | | | | | | |

 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 Report Sheet (Calculation Process Sheet) [For Verification]

| 1. Ca | alculations for emission reductions | Fuel type | Value | Units | Parameter |
|-------|---|-------------|-------|-----------------------|------------------------|
| E | mission reductions during the period <i>p</i> | N/A | 12.14 | tCO ₂ /p | ER_{p} |
| 2. Se | elected default values, etc. | | | | |
| | OP of reference chiller <i>i</i> under the standardizing temperature onditions | N/A | 5.13 | - | $COP_{RE,i}$ |
| 3. Ca | alculations for reference emissions | | | | |
| R | eference emissions during the period <i>p</i> | N/A | 72.58 | tCO ₂ /p | REp |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF _{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller <i>i</i> | Electricity | 90 | MWh/p | EC _{PJ,i,p} |
| | COP of reference chiller <i>i</i> under the standardizing temperature conditions | N/A | 5.13 | - | $COP_{RE,i}$ |
| | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | N/A | 6.16 | - | COP _{PJ,tc,i} |
| 4. Ca | alculations of the project emissions | | | | |
| P | roject emissions during the period <i>p</i> | N/A | 60.44 | tCO ₂ /p | PE_{p} |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller <i>i</i> | Electricity | 90 | MWh/p | EC _{PJ,i,p} |

| COP _{RE,i} (x<300USRt) | 5.13 | - |
|---------------------------------------|------|---|
| COP _{RE,i} (300≦x<700USRt) | 5.50 | - |
| COP _{RE,i} (700≦x<1,150USRt) | 5.66 | - |

| TD _{cooling} | 1.5 | degree Celsius |
|-----------------------|-----|----------------|
| TD _{chilled} | 1.5 | degree Celsius |

| Table 1: Param | | | | | | | | | | |
|------------------------|-------------------------|--------------------|---|---------------------|---------------------|----------------------|--|---|-------------------------|--|
| (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (i) | (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) | | Power consumption of project chiller <i>i</i> during the period <i>p</i> | 101 | MWh/p | Option C | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: The meter was calibrated on 11/09/2017 at the time of shipment from the factory. The accuracy level is in accordance with the meter specification (accuracy: 40.5%). It is calibrated when the meter shows the unnatural value | | Continuously | |
| | (2) | FC _{PJ,p} | The amount of fuel input for power generation during the monitoring period <i>p</i> | | mass or weight/p | Option B | Invoice from fuel supply company | | Continuously | for option c), Not applicable to this project |
| | (3) | EG _{PJ,p} | The amount of electricity generated during the monitoring period <i>p</i> | | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorded data is checked its integrity once a month by responsible staff. - Calibration: In case a calibration certificate issued by an entity accredited under national/international standards is not provided, such measuring equipment is required to be calibrated. | | for option c), Not applicable to this project |

| (a) | (b) | (c) | (d) | (e) | (f) |
|----------------------------|--|---------------------|-----------------------|--|--|
| Parameters | Description of data | Estimated Values | Units | Source of data | Other comments |
| EF _{elec} | [For grid electricity] CO ₂ emission factor for consumed electricity | 0.670 | 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 "Grid Emission Factor (GEF) of Bangladesh", endorsed by National CDM Committee unless otherwise instructed by the Joint Committee. | Letter No. DOE/International Convention/2012/21/07 dated 19, 08, 2013 |
| EF _{elec} | [For captive electricity] CO_2 emission factor for consumed electricity Option a | 0.000 | tCO ₂ /MWh | Determined based on the following options: a) the most recent value available from CDM approved small scale methodology AMS-LA., b) power generation efficiency obtained from manufacturer's specification, and c) the power generation efficiency calculated from monitored data of the amount of fuel input for power generation and the amount of electricity generated. | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option b | 0.000 | tCO ₂ /MWh | Calculated | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option c | 0.000 | tCO ₂ /MWh | Calculated | |
| T _{cooling-out,i} | Output cooling water temperature of project chiller <i>i</i> set under the project specific condition | 37.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| T _{chilled-out,i} | Output chilled water temperature of project chiller <i>i</i> set under the project specific condition | 6.9 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{RE,i} | COP of reference chiller <i>i</i> under the standardizing temperature conditions | 5.13 | - | Selected from the default values set in the methodology | |
| COP _{PJ,i} | COP of project chiller <i>i</i> under the project specific conditions | 6.16 | - | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{PJ,tc,i} | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | 6.18 | - | Calculated with the following equation; COP _{PJ,tc,i} = COP _{PJ,t} × [(T _{cooling-out,i} - T _{chilled-out,i} + TD _{chilled} + TD _{cooling}) + (37 - 7 + TD _{chilled} + TD _{cooling})] | |
| η _{elec} | Power generation efficiency | 0.0 | % | Specification of the captive power generation system provided by the manufacturer | for option b) |
| NCV _{fuel} | Net calorific value of consumed fuel | 0.00 | GJ/mass or weight | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for option c) |
| EF _{tuel} | CO_2 emission factor of consumed fuel | 0.00 | tCO ₂ /GJ | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for both option b) and |

emission reductions Units CO₂ emission reductions Units Monitoring Period 2019/1/1-2019/7/31

[Monitoring option] Option A Option B Option C 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) Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence such as invoices) Based on the actual measurement using measuring equipments (Data used: measured values)

Monitoring Report Sheet (Calculation Process Sheet) [For Verification]

| 1. Ca | Iculations for emission reductions | Fuel type | Value | Units | Parameter |
|-------|---|-------------|-------|-----------------------|------------------------|
| E | mission reductions during the period <i>p</i> | N/A | 13.86 | tCO ₂ /p | ER_{p} |
| 2. Se | elected default values, etc. | | | | |
| | OP of reference chiller <i>i</i> under the standardizing temperature onditions | N/A | 5.13 | - | COP _{RE,i} |
| 3. Ca | Iculations for reference emissions | | | | |
| R | eference emissions during the period <i>p</i> | N/A | 81.65 | tCO ₂ /p | REp |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller i | Electricity | 101 | MWh/p | EC _{PJ,i,p} |
| | COP of reference chiller <i>i</i> under the standardizing temperature conditions | N/A | 5.13 | - | $COP_{RE,i}$ |
| | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | N/A | 6.18 | - | COP _{PJ,tc,i} |
| 4. Ca | alculations of the project emissions | | | | |
| Pi | roject emissions during the period <i>p</i> | N/A | 67.79 | tCO ₂ /p | PE_{p} |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF _{elec} |
| | Power consumption of project chiller <i>i</i> | Electricity | 101 | MWh/p | EC _{PJ,i,p} |

| COP _{RE,i} (x<300USRt) | 5.13 | - |
|---------------------------------------|------|---|
| COP _{RE,i} (300≦x<700USRt) | 5.50 | - |
| COP _{RE,i} (700≦x<1,150USRt) | 5.66 | - |

| TD _{cooling} | 1.5 | degree Celsius |
|-----------------------|-----|----------------|
| TD _{chilled} | 1.5 | degree Celsius |

| Table 1: Param | | | | | | | | | L | |
|-----------------------------|--------------------------------|----------------------|---|----------------------------|---------------------|-----------------------------|--|---|--------------------------------|--|
| (a) Monitoring period | (b) Monitoring point No. | (c) Parameters | (d) Description of data | (e) Monitored Values | (f) Units | (g) Monitoring option | (h) Source of data | (i) Measurement methods and procedures | (j) Monitoring frequency | (k) Other comments |
| 2019/1/1- 2019/7/31 | (1) | EC _{PJ.i.p} | Power consumption of project chiller i during the period p | 116 | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. Measuring and recording: | | |
| | (2) | FC _{PJ,p} | The amount of fuel input for power generation during the monitoring period <i>p</i> | | mass or weight/p | Option B | Invoice from fuel supply company | Data is collected and recorded from the invoices by the fuel supply company. | Continuously | for option c), Not applicable to this project |
| | (3) | EG _{PJ,p} | The amount of electricity generated during the monitoring period <i>p</i> | | MWh/p | Option C | Monitored data | Data is measured by measuring equipments in the factory. - Specification of measuring equipments: 1) Electrical power meter is applied for measurement of electrical power consumption of project chiller. 2) Meter is certified in compliance with national/international standards on electrical power meter. - Measuring and recording: 1) Measured data is recorded and stored in the measuring equipments. 2) Recorde data is checked its integrity once a month by responsible staff. - Calibration: In case a calibration certificate issued by an entity accredited under national/international standards is not provided, such measuring equipment is calibrated. | Continuously | for option c), Not applicable to this project |

| (a) | (b) | (C) | (d) | (e) | (f) |
|-----------------------------|--|---------------------|-----------------------|---|--|
| Parameters | Description of data | Estimated Values | Units | Source of data | Other comments |
| EF _{elec} | [For grid electricity] CO ₂ emission factor for consumed electricity | 0.670 | 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 "Grid Emission Factor (GEF) of Bangladesh", endorsed by National CDM Committee unless otherwise instructed by the Joint Committee. | Letter No. DOE/International Convention/2012/21/07 dated 19, 08, 2013 |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option a | 0.000 | tCO ₂ /MWh | Determined based on the following options: a) the most recent value available from CDM approved small scale methodology AMS-I.A., b) power generation efficiency obtained from manufacturer's specification, and c) the power generation efficiency calculated from monitored data of the amount of fuel input for power generation and the amount of electricity generated. | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option b | 0.000 | tCO ₂ /MWh | | |
| EF _{elec} | [For captive electricity] CO ₂ emission factor for consumed electricity Option c | 0.000 | tCO ₂ /MWh | Calculated | |
| T _{cooling-out,} i | Output cooling water temperature of project chiller <i>i</i> set under the project specific condition | 37.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| T _{chilled-out,i} | Output chilled water temperature of project chiller <i>i</i> set under the project specific condition | 7.0 | degree Celsius | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{RE,i} | COP of reference chiller <i>i</i> under the standardizing temperature conditions | 5.13 | - | Selected from the default values set in the methodology | |
| COP _{PJ,i} | COP of project chiller <i>i</i> under the project specific conditions | 6.16 | - | Specifications of project chiller i prepared for the quotation or factory acceptance test data by manufacturer | |
| COP _{PJ,tc,i} | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | 6.16 | - | Calculated with the following equation; COP _{PJ,Ic.} = COP _{PJ,I} × [(T _{cooling-out.}) - T _{chilled-out.}] + TD _{chilled} + TD _{cooling}) ÷ (37 - 7 + TD _{chilled} + TD _{cooling})] | |
| η _{elec} | Power generation efficiency | 0.0 | % | Specification of the captive power generation system provided by the manufacturer | for option b) |
| NCV _{fuel} | Net calorific value of consumed fuel | 0.00 | GJ/mass or weight | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for option c) |
| EF _{fuel} | CO ₂ emission factor of consumed fuel | 0.00 | tCO ₂ /GJ | In order of preference: 1) values provided by the fuel supplier; 2) measurement by the project participants; 3) regional or national default values; 4) IPCC default values provided in table 1.4 of Ch.1 Vol.2 of 2006 IPCC Guidelines on National GHG Inventories. Lower value is applied. | for both option b) and c |

 Monitoring Period
 CO2 emission reductions

 2019/1/1-2019/7/31
 1

[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)

Units 15 tCO₂/p

Monitoring Report Sheet (Calculation Process Sheet) [For Verification]

| l. C <u>a</u> | Iculations for emission reductions | Fuel type | Value | Units | Parameter |
|---------------|---|-------------|-------|-----------------------|------------------------|
| Er | nission reductions during the period <i>p</i> | N/A | 15.59 | tCO ₂ /p | ER_{p} |
| 2. Se | lected default values, etc. | | | | |
| | OP of reference chiller <i>i</i> under the standardizing temperature onditions | N/A | 5.13 | - | $COP_{RE,i}$ |
| 3. Ca | Iculations for reference emissions | | | | |
| R | eference emissions during the period <i>p</i> | N/A | 93.22 | tCO ₂ /p | REp |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | Power consumption of project chiller i | Electricity | 116 | MWh/p | EC _{PJ,i,p} |
| | COP of reference chiller <i>i</i> under the standardizing temperature conditions | N/A | 5.13 | - | $COP_{RE,i}$ |
| | COP of project chiller <i>i</i> calculated under the standardizing temperature conditions | N/A | 6.16 | - | COP _{PJ,tc,i} |
| I. Ca | Iculations of the project emissions | | | | |
| Pr | oject emissions during the period p | N/A | 77.63 | tCO ₂ /p | PE_{p} |
| | CO ₂ emission factor for consumed electricity [grid] | Electricity | 0.670 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity [captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | CO ₂ emission factor for consumed electricity with lower value [grid or captive] | Electricity | 0.000 | tCO ₂ /MWh | EF_{elec} |
| | Power consumption of project chiller <i>i</i> | Electricity | 116 | MWh/p | EC _{PJ,i,p} |

| COP _{RE,i} (x<300USRt) | 5.13 | - |
|---------------------------------------|------|---|
| COP _{RE,i} (300≦x<700USRt) | 5.50 | - |
| COP _{RE,i} (700≦x<1,150USRt) | 5.66 | - |

| TD _{cooling} | 1.5 | degree Celsius |
|-----------------------|-----|----------------|
| TD _{chilled} | 1.5 | degree Celsius |