# BPD_GM02

## As-Built GM Submission before TOP for Non-Residential Buildings – Transit Stations

All these forms and calculations are to be generated from the Green Mark (GM) e-filing system.

**Sample Forms Attached For Viewing Only**

Applicable for projects with 1st submission date for URA planning permission on or after 15th Jan 2013

The forms spell out all the elective requirements which the QPs and the other practitioners can choose for their design to meet the environmental sustainability requirement.

QPs are only required to provide salient information pertaining to the items that are relevant to their design and the GM e-filing system will automatically compute the score to be allocated for the items selected

For projects with the provision of air-conditioning system, the appropriate practitioners for Mechanical Works are required to e-sign and submit the as-built air-conditioning information in prescribed form in support of his declaration in BPD_GM01 forms together with the QP's BP submission. (Refer to the following link at http://www.bca.gov.sg/EnvSusLegislation/others/Air-Con Info Template.pdf.)

Other documentary evidences need not be submitted together with these forms. However, QPs are advised to maintain such records as BCA may require such evidences to be submitted for auditing purpose.

Building and Construction Authority

**SUBMISSION OF AS-BUILT GREEN MARK SCORE CALCULATIONS**
**Regulation 9 of the Building Control (Environmental Sustainability) Regulations 2008 (Cap. 29)**

| | |
|---|---|
| Commissioner of Building Control<br>Building & Construction Authority<br>5 Maxwell Road #02-00<br>Tower Block, MND Complex<br>Singapore 069110 | *INSTRUCTIONS*<br>(1) Please refer to the Explanatory Notes attached before completing these forms via Green Mark (GM) e-Filing system.<br>(2) Submit one copy of this form together with Form BPD_GM02_Appendix 1 (for residential building) and/or Form BPD_GM02_Appendix 2 (for non-residential building) before making an application for TOP or CSC (if TOP is not applied for). |

**Section I (To be completed by Qualified Person)**

1. Project Reference No. : _____ GM e-Filing No.: _____

Description of building works: _____

_____

_____

_____

2. I hereby declare that the completed building works or parts thereof assessed and the numerical scores assigned to these building works or parts thereof using the scoring methodology specified in the Code for Environmental Sustainability of Buildings are correct. I further declare that the as-built Green Mark score submitted herewith complies with the minimum environmental sustainability standard under the Building Control (Environmental Sustainability) Regulations and the Green Mark score calculations are as stated in Form BPD_GM02_Appendix 2-NRB/ST. The as-built Green Mark score for the completed building works is _____.

| | |
|---|---|
| Name & Address of Professional Firm | Name & Signature of Qualified Person |
| Date: | Tel No.: |

**Section II (To be completed by Appropriate Practitioners)**

3. We hereby declare that the completed building works or parts thereof assessed and the numerical scores assigned to these building works or parts thereof using the scoring methodology specified in the Code for Environmental Sustainability of Buildings are correct.

| | |
|---|---|
| Name & Address of Professional Firm | Name & Signature of Practitioner for Mechanical Works |
| Date: | Tel No.: |
| Name & Address of Professional Firm | Name & Signature of Practitioner for Electrical Works |
| Date: | Tel No.: |

**CALCULATIONS OF AS-BUILT GREEN MARK SCORE FOR NON-RESIDENTIAL BUILDINGS**
**Regulation 9 of the Building Control (Environmental Sustainability) Regulations 2008 (Cap. 29)**

**SECTION I : SUMMARY**

Project Reference No.: _____ GM e-Filing No.: _____

The Gross Floor Area (GFA) for the building works

| Building Works | New GFA in $m^2$ |
|---|---|
| Non-Residential (Station) | |

Pls indicate Floor Area & Percentage (%), where applicable :

| Floor Area | Floor Area in $m^2$ | % Floor Area |
|---|---|---|
| Air-conditioned spaces | | |
| Non Air-conditioned spaces excluding carparks and common areas | | |
| Total | | |

| **Category Items** | | **Max Points Allocated** | **Points Scored** |
|---|---|---|---|
| **(I) Energy Related Requirements** | | | |
| **Part 1 : Energy Efficiency** | | | |
| ST 1-1 | Environmental Control Systems | 27.0 | |
| ST 1-2 | Lighting Systems | 12.0 | |
| ST 1-3 | Electrical Services | 7.0 | |
| ST 1-4 | Lifts and Escalators | 3.5 | |
| ST 1-5 | Energy Efficient Features | 7.5 | |
| **Category Score for Part 1 – Energy Efficiency** *(Min 30 points)* **:** | | **57.0** | |

Project Reference No.: _____ GM e-Filing No.: _____

| **Category Items** | | **Max Points Allocated** | **Points Scored** |
|---|---|---|---|
| **(II) Other Green Requirements** | | | |
| **Part 2 : Water Efficiency** | | | |
| ST 2-1 | Water Efficient Fittings | 6.0 | |
| ST 2-2 | Water Usage Monitoring | 1.5 | |
| ST 2-3 | Water Consumption of Cooling Towers | 3.5 | |
| **Category Score for Part 2 – Water Efficiency :** | | **11.0** | |
| **Part 3 : Environmental Protection** | | | |
| ST 3-1 | Sustainable Construction | 9.0 | |
| ST 3-2 | Sustainable Products | 4.0 | |
| ST 3-3 | Greenery Provision | 3.0 | |
| ST 3-4 | Site Selection | 4.0 | |
| ST 3-5 | Environmental Management Practice | 4.0 | |
| ST 3-6 | Public Transport Accessibility | 15.0 | |
| ST 3-7 | Refrigerants | 2.0 | |
| **Category Score for Part 3 – Environmental Protection :** | | **41.0** | |
| **Part 4 : Indoor Environmental Quality** | | | |
| ST 4-1 | Thermal Comfort | 1.0 | |
| ST 4-2 | Indoor Air Pollutants | 2.0 | |
| ST 4-3 | Indoor Air Quality (IAQ) Management | 2.0 | |
| **Category Score for Part 4 – Indoor Environmental Quality :** | | **5.0** | |
| **Part 5 : Other Green Features** | | | |
| ST 5-1 | Green Features & Innovations | 6.0 | |
| **Category Score for Part 5 – Other Green Features :** | | **6.0** | |
| **Category Score for Part 2 to Part 5** *(Min 20 points)* **:** | | **63.0** | |
| **Category Score for Part 1 – Energy Efficiency** *(Min 30 points)* **:** | | **57.0** | |
| **Green Mark Score** *(Min 50 points)* **- {Category Score for Part 1** *(Min 30 points)* **+ Category Score for Part 2 to Part 5** *(Min 20 points)***} :** | | **120.0** | |

The as-built Green Mark score for the completed building works is _____ .

**SECTION II : GREEN MARK SCORE CALCULATIONS DETAILS**

Project Reference No.: _____ GM e-Filing No.: _____

**(I) Energy Related Requirements**

| **Part 1 : Energy Efficiency** | **Max Points Allocated** | **Points Scored** |
|---|---|---|
| **ST 1-1 Environmental Control Systems** | **27.0** | |

*Where there is a combination of central chilled-water plant with unitary air-conditioners, the computation is based on the air-conditioning system with the larger aggregate capacity*

(a) Water Cooled Chilled-Water Plant

Peak Building Cooling Load = RT

Air-conditioning System efficiency = kW/RT

| *Green Mark Points : Max 20 points* | | | |
|---|---|---|---|
| *Peak building cooling load (RT)* | *≥500* | *≥300 to <500* | *<300* |
| *Baseline : Prerequisite Requirement Minimum Design System Efficiency (DSE) for central chilled-water plant* | *0.70* | *0.80* | *0.85* |
| *Points for meeting prescribed chiller plant efficiency* | *15.0* | *12.0* | *7.0* |
| *Points for every % improvement in the chiller plant operating efficiency over the baseline* | *0.25* | *0.45* | *0.60* |

(b) Air Distribution System

| **Air Distribution System** | **% improvement in the air distribution system efficiency over baseline** | **Points Scored** |
|---|---|---|
| **Option 1** Fan System Motor Nameplate Power | | |
| **Option 2** Fan System Input Power | | |
| *Green Mark Points - 0.15 point for every % improvement; Max 3 points.* | | |

Buildings using district cooling system,

*Note : No need to compute plant efficiency in item (a), points obtained will be prorated based on the air distribution system efficiency under item (b).*

**OR**

(c) Unitary Air-Conditioners

Peak Building Cooling Load = RT

Air-conditioning System efficiency = kW/RT

| *Green Mark Points : Max 20 points* | | |
|---|---|---|
| *Peak building cooling load (RT)* | *≥500* | *<500* |
| *Baseline : Prerequisite Requirement Minimum Design System Efficiency (DSE) for unitary conditioners (kW/ RT)* | *0.80* | *0.90* |
| *Points for meeting prescribed efficiency* | *12.0* | *10.0* |
| *Points for every % improvement in the operating efficiency over the baseline* | *1.30* | *0.60* |

(d) Mechanical Ventilation System for non-air-conditioning spaces

| **Mechanical Ventilation System** | **% improvement in the motor power requirement over baseline** | **Points Scored** |
|---|---|---|
| **Option 1** Fan System Motor Nameplate Power | | |
| **Option 2** Fan System Input Power | | |
| *Green Mark Points - 0.2 point for every % improvement; Max 4 points.* | | |

Project Reference No.: _____ GM e-Filing No.: _____

**(I) Energy Related Requirements**

| **Part 1 : Energy Efficiency** cont'd | **Max Points Allocated** | **Points Scored** |
|---|---|---|
| **ST 1-2 Lighting Systems** | **12.0** | |

(a) Artificial Lighting

| *Green Mark Points - Max 6 points. Baseline : Maximum lighting power budget stated in SS 530 or as approved* | | | |
|---|---|---|---|
| *Percentage of lighting power budget over the baseline* | ≤90 % | ≤85 % | ≤80 % |
| *Points allocated* | *4 points* | *4.5 points* | *6 points* |

(b) Daylighting in public areas (i.e. concourse and platform areas) of underground station *(Max 6 points)*

| Total Public areas in $m^2$ (concourse and platform areas) | Public areas with daylighting *(0.5 point for every %)* | |
|---|---|---|
| | Area in $m^2$ | % Area |
| | | |

**ST 1-3 Electrical Services** — **7.0**

(a) Provision of low-loss service transformers *(Max 4 points)*

| **Transformer Capacity** | **No load loss at rated voltage** | **Full load loss at rated voltage** | **Points Allocated** | Points Scored |
|---|---|---|---|---|
| > 1 MVA | < 0.25% of rated load | < 2.50% of rated load | 3.0 | |
| > 1 MVA | < 0.20% of rated load | < 1.50% of rated load | 4.0 | |
| ≤ 1 MVA | < 0.35% of rated load | < 2.50% of rated load | 3.0 | |
| ≤ 1 MVA | < 0.25% of rated load | < 1.50% of rated load | 4.0 | |

(b) Provision of sub-metering systems

| | | |
|---|---|---|
| (i) | Lighting system for public areas | |
| (ii) | Air-conditioning system | |
| (iii) | Mechanical ventilation system for back of house plant rooms | |
| (iv) | Plumbing and sanitary systems | |
| (v) | Lifts and escalators system | |
| (vi) | Electrical reticulation system for tenants | |

*Green Mark Points – 1.5 points for at least 50% of the systems listed and 3 points for all systems. Max 3 points.*

**ST 1-4 Lifts and Escalators** — **3.5**

(a) Lifts with energy efficient features *(Max 1.5 points)*
0.5 point for each item and prorate based on extent of coverage

| | | |
|---|---|---|
| (i) | Geared or other better energy efficient traction | |
| (ii) | AC variable voltage and variable frequency (VVVF) motor drive or equivalent | |
| (iii) | Sleep mode features or equivalent | |

(b) Escalators with energy efficient features *(Max 2 points)*
0.5 point for each item and prorate based on extent of coverage

| | | |
|---|---|---|
| (i) | Direct drive with gear box directly coupled to the main drive shaft | |
| (ii) | AC variable voltage and variable frequency (VVVF) motor drive | |
| (iii) | Standby speed mode | |
| (iv) | Standby stop mode | |

Project Reference No.: _____ GM e-Filing No.: _____

**(I) Energy Related Requirements**

| **Part 1 : Energy Efficiency** cont'd | **Max Points Allocated** | **Points Scored** |
|---|---|---|
| **ST 1-5 Energy Efficient Features** | **7.5** | |

(a) The following energy efficient features are deemed acceptable

| | | |
|---|---|---|
| (i) | Auto-condenser tube cleaning system *(1 point)* | |
| (ii) | Variable speed chilled water pumps *(1 point)* | |
| (iii) | Automatic control devices to regulate the demand for mechanical ventilation for staircases and corridors *(1 point)* | |
| (iv) | Automatic control devices to regulate outdoor air supply to maintain the carbon dioxide ($CO_2$) concentration to below 700 ppm *(1 point)* | |
| (v) | Instrumentation for monitoring central cooled chilled-water plant efficiency in accordance with prescribed standard *(1 point)* | |

(b) Use of energy efficient equipment or products that are certified by approved local certification body *(0.5 point for each; Max 2 points)*

(i) _____

(ii) _____

(iii) _____

(iv) _____

(c) Items that are not listed above but with clearance from BCA *(2 points for every % energy saving)*

| Total building energy consumption in kWh/year | Energy Saving of each energy efficient feature proposed | |
|---|---|---|
| | Total Energy Saving in kWh/year | Total Energy Saving in % |
| | | |

(i) _____

(ii) _____

(iii) _____

(iv) _____

(v) _____

(vi) _____

(vii) _____

(viii) _____

(ix) _____

(x) _____

*Green Mark Points : Max 7.5 points for ST 1-5*

| **Category Score for Part 1 – Energy Efficiency** *(Min 30 points)* **:** | **57.0** | |
|---|---|---|

Project Reference No.: _____ GM e-Filing No.: _____

**(II) Other Green Requirements**

| **Part 2 : Water Efficiency** | **Max Points Allocated** | **Points Scored** |
|---|---|---|
| **ST 2-1 Water Efficient Fittings** | **6.0** | |
| Use of water fittings that are certified under the Water Efficiency Labelling Scheme (WELS) with very good or excellent WELS rating ☐<br>(a) Basin taps and mixers ☐<br>(b) Flushing cisterns ☐<br>(c) Shower taps, mixers or showerheads ☐<br>(d) Sink/Bib taps and mixers ☐<br>(e) Urinals and urinal flush valve ☐<br>*Green Mark Points : 2 points for at least 2 fitting types; 4 points for at least 3 fitting types; 6 points for all fitting types; Max 6 points* | | |
| **ST 2-2 Water Usage Monitoring** | **1.5** | |
| (a) Provision of sub-meters to monitor water usage from tenants (retail shops) *(0.5 point).* ☐<br>(b) Provision of sub-meters to monitor water usage of public toilets *(0.5 point).* ☐<br>(c) Provision of sub-meters to monitor water usage for cooling towers *(0.5 point).* ☐ | | |
| **ST 2-3 Water Consumption of Cooling Towers** | **3.5** | |
| (a) Use of cooling tower water treatment system which can achieve 7 or better cycles of concentration at acceptable water quality *(1 point)* ☐<br>(b) Provision of effective drift eliminator with minimum efficiency of 0.002% *(2 points)* ☐<br>(c) Provision of alternative water sources like NEWater or recycled AHU condensate, etc, *(0.5 point)* ☐ | | |
| **Category Score for Part 2 - Water Efficiency :** | **11.0** | |

Project Reference No.: _____ GM e-Filing No.: _____

**(II) Other Green Requirements**

| **Part 3 : Environmental Protection** | **Max Points Allocated** | **Points Scored** |
|---|---|---|
| **ST 3-1 Sustainable Construction** | **9.0** | |

(a) Use of Sustainable and Recycled Materials *(Max 7 points)*

(i) Green Cements with approved industrial by-products

(that is Ground Granulated Blastfurnace Slag (GGBS), silica fume, fly ash) to replace Ordinary Portland Cement (OPC) by at least 10% by mass for the concrete production of structural works. *(1 point)*

(ii) Recycled Concrete Aggregates (RCA) and Washed Copper Slag (WCS) from approved sources to replace coarse and fine aggregates for concrete production of non-load bearing partition walls

| Extent of coverage (based on number of applicable rooms) | RCA replace coarse aggregates *(Max 2 points)* | WCS replace fine aggregates *(Max 2 points)* |
|---|---|---|
| At least 80% of rooms *(2 points)* | | |
| At least 50% of rooms *(1 point)* | | |

(iii) Recycled Concrete Aggregates (RCA), incinerated bottom ash or reclaimed asphalt pavement for road construction *(1 point)*

(iv) Use of eco-concrete

| | |
|---|---|
| Road kerbs | |
| At-grade foot paths | |
| Road side drains | |

*Green Mark Points : 0.5 point each; Max 1 point*
*Extent of coverage : at least 90% of applicable areas.*

(b) Use of sustainable alternatives which can be fabricated off-site with minimal concrete usages and wet trade for the construction of entrance structure *(1 point)*

(c) Reuse of suitable excavated soil in other sites (*1 point)*

| | | |
|---|---|---|
| **ST 3-2 Sustainable Products** | **4.0** | |

Use of environmental friendly products that are certified by approved local certification body and are applicable for non-structural building components and construction

| Environmental friendly products | Weightage based on extent of environmental friendliness | | |
|---|---|---|---|
| | Good | Very Good | Excellent |
| Points (A) | | | |
| Weightage (B) | 0.5 | 1.5 | 2.0 |

*Green Mark Points : 1 point for high impact, 0.5 point for low impact;*
*Points scored = ∑(A x B); Max 4 points*

Project Reference No.: _____ GM e-Filing No.: _____

**(II) Other Green Requirements**

| **Part 3 : Environmental Protection** cont'd | **Max Points Allocated** | **Points Scored** |
|---|---|---|
| **ST 3-3 Greenery Provision** | **3.0** | |

(a) Green Plot Ratio (GnPR)

| | |
|---|---|
| Total Leaf Area in $m^2$ (A) | |
| Site Area in $m^2$ (B) | |
| GnPR (C = A / B) | |

| *Green Mark Points (Max 2 points)* | | | | |
|---|---|---|---|---|
| *GnPR* | *0.5 to <1.0* | *1.0 to <1.5* | *1.5 to <2.0* | *≥ 2.0* |
| *Points Allocated* | *0.5* | *1.0* | *1.5* | *2.0* |

(b) Use of compost recycled from horticulture waste *(1 point)*

| **ST 3-4 Site Selection** | **4.0** | |
|---|---|---|

Proper site planning and selection which minimize land uptake

| *Green Mark Points (Max 4 points)* | |
|---|---|
| *Land Uptake* | *Points Allocated* |
| *At least 90% under road reserve* | *4 points* |
| *At least 70% under road reserve or green field sites (with allowance for development above)* | *3 points* |
| *At least 50% under road reserve or green field sites (with allowance for development above)* | *2 points* |
| *At least 70% above central median or along road reserve* | *1 point* |

| **ST 3-5 Environmental Management Practice** | **4.0** | |
|---|---|---|

(a) Implement effective environmental management programmes including monitoring and setting targets to minimise energy use, water use and construction waste *(1 point)*

(b) Main builder that has good track records in the adoption of sustainable, environmentally friendly and considerate practices during construction such as Green and Gracious Builder Award. *(1 point).*

(c) Firms ISO 14000 certified *(0.25 point for each firm)*

| | |
|---|---|
| (i) Developer | |
| (ii) Main builder | |
| (iii) M&E consultant | |
| (iv) Architect | |

(d) Project team comprises Green Mark Manager (GMM) and Green Mark Facilities Manager (GMFM) and Mark Professional (GMP) *(Max 1 point)*

| | |
|---|---|
| (i) Certified GMM *(0.5 point)* | |
| (ii) Certified GMFM *(0.5 point)* | |
| (iii) Certified GMP *(1 point)* | |

Project Reference No.: _____ GM e-Filing No.: _____

**(II) Other Green Requirements**

| **Part 3 : Environmental Protection** cont'd | **Max Points Allocated** | **Points Scored** |
|---|---|---|
| **ST 3-6 Public Transport Accessibility** | **15.0** | |

(a) Covered links to bus stops *(2 points)*
- at least 3 or more covered links *(2 points)*
- at least 2 covered links *(1 point)*
- at least 1 covered link *(0.5 point)*

(b) Covered links to taxi-stand/ passenger drop-off point *(1 point)*
- at least 2 or more covered links *(1 point)*
- at least 1 covered link *(0.5 point)*

(c) Covered links to bus interchanges/other transit stations *(3 points)*

(d) Connectivity to neighbouring developments *(Max 6 points)*

(i) Connections to be made available via underground or covered links
- at least 2 or more connections to each development *(1.5 points)*
- at least 1 connection to each development *(1 point)*

(ii) Knock-out panels for future connection

No. of knock-out panels = _____
*(1 point for each knock-out panel)*

(iii) Additional entrance

No. of additional entrance = _____
*(1 point for each additional entrance)*

(e) Provision of bicycle parking lots *(2 points)*

| *Green Mark Points* | | | | |
|---|---|---|---|---|
| *Bicycle parking lots* | *20 to 39 lots* | *40 to 69 lots* | *70 to 99 lots* | *≥100 lots* |
| *Points Allocated* | *0.5* | *1.0* | *1.5* | *2.0* |

(f) Provision of sheltered bicycle parking lots *(1 point)*

| *Green Mark Points* | | |
|---|---|---|
| *Percentage of sheltered bicycle parking lots over total no. of bicycle parking lots provided* | *≥50%* | *100 %* |
| *Points Allocated* | *0.5* | *1.0* |

| **ST 3-7 Refrigerants** | **2.0** | |
|---|---|---|

(a) Refrigerants with ozone depletion potential (ODP) of zero or with global warming potential (GWP) of less than 100 *(1 point).*

(b) Use of refrigerant leak detection system at critical areas of plant rooms containing chillers and other equipments with refrigerants *(1 point)*

| **Category Score for Part 3 - Environmental Protection :** | **41.0** | |
|---|---|---|

| Project Reference No.: _____ GM e-Filing No.: _____ | | |
|---|---|---|
| **(II) Other Green Requirements** | | |
| **Part 4 : Indoor Environmental Quality** | **Max Points Allocated** | **Points Scored** |
| **ST 4-1 Thermal Comfort** | **1.0** | |
| Air-conditioning system is designed to allow cooling load variation due to fluctuations in ambient air temperature to ensure consistent indoor conditions for thermal comfort.<br>Indoor operative temperature between 24 to 26$^{o}$ C<br>Relative Humidity < 65%. | | |
| **ST 4-2 Indoor Air Pollutants** | **2.0** | |
| (a) Use of low volatile organic compounds (VOC) paints certified by approved local certification body for at least 90% of the total applicable internal wall areas *(1 point).*<br>(b) Use of environmentally friendly adhesives certified by approved local certification body for at least 90% of the applicable areas *(1 point)* | | |
| **ST 4-3 Indoor Air Quality (IAQ) Management** | **2.0** | |
| (a) Provision of filtration media and differential pressure monitoring equipment in Air Handling Units (AHUs) in accordance with SS554 *(1 point)*<br>(b) Implementation of effective IAQ management plan to ensure that building ventilation systems are clean and free from residuals left over from construction activities (including internal surfaces condition testing). *(1 point)* | | |
| **Category Score for Part 4 - Indoor Environmental Quality :** | **5.0** | |

Project Reference No.: _____ GM e-Filing No.: _____

**(II) Other Green Requirements**

| **Part 5 : Other Green Features** | **Max Points Allocated** | **Points Scored** |
|---|---|---|
| **ST 5-1 Green Features and Innovations** | **6.0** | |

(a) The following green features are deemed acceptable : ☐

**(1) Water Efficiency**

(i) Use of grey water recycling system *(2 points)* ☐

(ii) Provision of system to recycle surface runoff from vertical green wall and sky gardens *(1 point)* ☐
- at least 25% of the green areas *(1 point)*
- less than 25% of the green areas *(0.5 point)*

**(2) Environmental Protection**

(i) Protection of existing greenery by using construction methods that have minimal site disturbance such as bored/mined construction or equivalent *(2 points)* ☐

(ii) Provision of green roof and roof top garden *(1 point)* ☐
- more than 50% of the roof areas *(1 point)*
- at least 25% of the roof areas *(0.5 point)*

(iii) Provision of vertical greening *(1 point)* ☐
- more than 50% of the applicable wall areas *(1 point)*
- at least 25% of the applicable wall areas *(0.5 point)*

(iv) Use of non-chemical termite treatment system such as termite baiting system, anti-termite mesh *(0.5 point)* ☐

**(3) Indoor Air Quality**

(i) Use of ultraviolet light-C band (UV) emitter at all AHUs (air handling units) to improve indoor air quality *(0.5 point)* ☐

**(4) Others**

(i) Use of siphonic rainwater discharge system at roof *(0.5 point)* ☐

Project Reference No.: _____ GM e-Filing No.: _____

**(II) Other Green Requirements**

| **Part 5 : Other Green Features** | **Max Points Allocated** | **Points Scored** |
|---|---|---|
| **ST 5-1 Green Features and Innovations** cont'd | | |
| (b) Items that are not listed above but with clearance from BCA | | |
| (i) _____ | | |
| (ii) _____ | | |
| (iii) _____ | | |
| (iv) _____ | | |
| (v) _____ | | |
| (iv) _____ | | |
| (vii) _____ | | |
| (viii) _____ | | |
| (ix) _____ | | |
| (x) _____ | | |
| *Green Mark Points : 2 points for high impact, 1 point for medium impact and 0.5 point for low impact; Max 6 points for ST 5-1* | | |
| **Category Score for Part 5 – Other Green Features :** | **6.0** | |
| **Category Score for Part 2 to Part 5** *(Min 20 points)* **:** | **63.0** | |
| **Green Mark Score** *(Min 50 points)*- **{Category Score for Part 1** *(Min 30 points)* **+ Category Score for Part 2 to Part 5** *(Min 20 points)***} :** | **120.0** | |

Project Reference No.: _____ GM e-Filing No.: _____

**ADDITIONAL INFORMATION**

**Summary of Sustainable Products used in ST 3-2**

| Environmental friendly products | Weightage based on extent of environmental friendliness | | |
|---|---|---|---|
| | Good | Very Good | Excellent |
| Points (A) | | | |
| Weightage (B) | 0.5 | 1.5 | 2.0 |

**List of sustainable products**

| S/No. | Description of environmental friendly products | Extent of coverage | Impact (1.0 point or 0.5 point) | Weightage (Good or Very Good or Excellent) |
|---|---|---|---|---|
| | | | | |
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## Explanatory Notes :

**Forms BPD_GM02and BPD_GM02_Appendix2-NRB/ST**

On completion of building works that are subject to the Building Control (Environmental Sustainability) Regulation 2008, the Form BPD_GM02 must be completed, accompanied with 1 set of Form 1 set of Form BPD_GM02_Appendix 2-NRB/ST where applicable. These forms are to be generated using the **Green Mark (GM) e-Filing System** accessible from BCA website and submitted before making an application for temporary work permit (TOP) or certificate of statutory completion (CSC) if TOP is not applied for.