BPD_GM01
(For Non-Residential Building First Submission)

Attached are the sample forms for viewing only

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

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.

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

Building and Construction Authority

SUBMISSION OF GREEN MARK SCORE CALCULATIONS
Regulation 7 of the Building Control (Environmental Sustainability) Regulations 2008 (Cap. 29)

Commissioner of Building Control Building & Construction Authority 5 Maxwell Road #02-00 Tower Block, MND Complex Singapore 069110	*INSTRUCTIONS* (1) Please refer to the Explanatory Notes attached before completing these forms via Green Mark (GM) e-Filing system. (2) Submit one copy of this form together with Form BPD_GM01_Appendix 1 (for residential building) and/or Form BPD_GM01_Appendix 2 (for non-residential building) with the application for approval of building plans.

Section I (To be completed by Qualified Person)

1. I confirm that I have been appointed under section 8(1)(a) or 11(1)(d)(i) of the Building Control Act (Cap 29) as the qualified person in respect of the building works herein described.

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

   Description of building works: _____

   _____

2. I hereby declare that the 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 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_GM01_Appendix 1 and/or Form BPD_GM01_Appendix 2. The Green Mark score for the proposed building works is _____ for residential buildings and/or _____ for non-residential buildings respectively.

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 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 GREEN MARK SCORE FOR NON-RESIDENTIAL BUILDINGS
Regulation 7 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, where applicable :

Building Works	New GFA in m^2	Existing GFA in m^2 (Major Retrofitting)
Residential		Not Applicable
Non-Residential		
Total		

Please indicate Non-Residential Floor Area & Percentage (%), where applicable :

Non-Residential Floor Area	Floor Area in m^2	% Floor Area
Air-conditioned spaces		
Non Air-conditioned spaces excludes carparks		
Total		

Category Items	**Max Points Allocated**	**Points Scored**
(I) Energy Related Requirements		
Part 1 : Energy Efficiency		
NRB 1-1 Building Envelope – ETTV	15	
NRB 1-2 Air-Conditioning System	27	
Sub-Total (A) - For Items NRB 1-1 to 1-2 :	**42**	
Prorate Sub-Total (A) :		
NRB 1-3 Building Envelope – Design/Thermal Parameters	29	
NRB 1-4 Natural Ventilation (exclude carparks)	13	
Sub-Total (B) - For Items NRB 1-3 to 1-4 :	**42**	
Prorate Sub-Total (B) :		
NRB 1-5 Artificial Lighting	12	
NRB 1-6 Ventilation in Carparks	5	
NRB 1-7 Ventilation in Common Areas	5	
NRB 1-8 Lifts and Escalators	3	
NRB 1-9 Energy Efficient Practices & Features	12	
Sub-Total (C) - For Items NRB 1-5 to 1-9 :	**37**	
Sub-Total for Part 1 - Prorate Sub-Total (A) + Prorate Sub-Total (B) + Sub-Total (C) :	**79**	
Sub-Total for Part 1 - Prorate Sub-Total (A) + Prorate Sub-Total (B) + Sub-Total (C) ; *(Max 50 points)* **:**		
NRB 1-10 Renewable Energy *(Bonus Points)*	20	
Category Score for Part 1 – {Sub-Total for Part 1 *(Max 50 points)* **+ Item NRB 1-10** *(Bonus Points)***};** *(Min 30 points)* **:**		

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

Category Items		**Max Points Allocated**	**Points Scored**
(I) Energy Related Requirements			
Part 1 : Energy Efficiency			
Category Score for Part 1 - {Sub-Total for Part 1 *(Max 50 points)* **+ Item NRB 1-10** *(Bonus Points)***};** *(Min 30 points)* **:**			
(II) Other Green Related Requirements			
Part 2 : Water Efficiency			
NRB 2-1	Water Efficient Fittings	8	
NRB 2-2	Water Usage and Leak Detection	2	
NRB 2-3	Irrigation System	2	
NRB 2-4	Water Consumption of Cooling Tower	2	
Category Score for Part 2 - For Items NRB 2-1 to 2-4		**14**	
Part 3 : Environmental Protection			
NRB 3-1	Sustainable Construction	14	
NRB 3-2	Greenery	6	
NRB 3-3	Environmental Management Practice	8	
NRB 3-4	Public Transport Accessibility	2	
NRB 3-5	Refrigerants	2	
Category Score for Part 3 - For Items NRB 3-1 to 3-5		**32**	
Part 4 : Indoor Environmental Quality			
NRB 4-1	Thermal Comfort	2	
NRB 4-2	Noise Level	2	
NRB 4-3	Indoor Air Pollutants	2	
NRB 4-4	High Frequency Ballast	2	
Category Score for Part 4 - For Items NRB 4-1 to 4-4 :		**8**	
Part 5 : Other Green Features			
NRB 5-1	Green Features & Innovations	7	
Category Score for Part 5 - For Item NRB 5-1 :		**7**	
Sub-Total for Part 2 to Part 5 :		**61**	
Sub-Total for Part 2 to Part 5 *(Max 50 points; Min 20 points)* **:**			
Green Mark Score - {Sub-Total for Part 1 *(Max 50 points)* **+ Item NRB 1-10** *(Bonus Points)* **+ Sub-Total for Part 2 to Part 5** *(Max 50 points)***} :**			

The Green Mark score for the proposed building works is _____ for non-residential buildings.

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**
Section (A) Applicable to Air-Conditioned Building Areas (with an aggregate air-conditioned areas > 500 m^2)		
Air-conditioned spaces and percentage area if applicable : Area in m^2 ____ Percentage Area ____		
NRB 1-1 Building Envelope – ETTV	**15**	
ETTV value = ____ W/m^2 *Green Mark Points : Points scored = 100 – (2 x ETTV);* *Maximum Permissible ETTV=50 W/m^2; Max 15 points*		
NRB 1-2 Air-Conditioning System	**27**	
Note : Where there is a combination of centralized air-con system with unitary air-con system, the computation is based on the air-conditioning system with the larger aggregate capacity - centralized air-con system or unitary air-con system.		

(a) (i) Air-Conditioned Plant. ____

Description	Percentage Improvement	Points per % Improvement
Equipment efficiency for chiller and Pumps		1.45
Equipment performance for cooling tower		0.05

Green Mark points - Max 20 points.

(a) (ii) Air Distribution System ____
% improvement in efficiency of air distribution
System = ____ %

Green Mark points - 0.5 points for every percentage improvement; Max 5 points.

For buildings using district cooling system, prorate (a)(ii) = ____

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

OR

(b) Unitary Air-Conditioners/Condensing Units ____
Average % improvement in efficiency of unitary
Air-conditioners/condensing Units = ____ %

Green Mark points - 1.5 points for every percentage (average) improvement; Max 25 points.

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

(I) Energy Related Requirements

Part 1 : Energy Efficiency	**Max Points Allocated**	**Points Scored**
NRB 1-2 Air-Conditioning System cont'd		
(c) Sensors or similar automatic control devices are used to regulate outdoor air flow rate to maintain the concentration of carbon dioxide below 1000ppm *(2 points).*		
Sub-Total (A) – For items NRB 1-1 to 1-2 :	**42**	
Prorate Sub-Total (A) -by percentage of air-conditioned areas where applicable:		
Section (B) -Applicable to Non Air-Conditioned Building Areas (with an aggregate non air-conditioned areas > 10% of total floor area excluding carparks)		
Non Air-conditioned spaces and percentage area if applicable : Area in m^2 Percentage Area		
NRB 1-3 Building Envelope – Design / Thermal Parameters	**29**	
(a) Minimum direct west facing façade through building design orientation. Percentage of west facing facade areas over total façade areas = ____ % *Green Mark Points : Points = 10 – [0.2 x (% of west facing external facade areas)]; Max 10 points.* **OR** *Where there is no west facing façade, the total points for this item will be 24 points; the items NRB 1-3 (b)(i), (b)(ii) and (c) as listed below will be not applicable.*		
(b) (i) Minimum west facing window openings Percentage of west facing window areas over total west facing façade areas = ____ % *Green Mark Points : Points = 10 – [0.1 x (% of west facing window areas)].*		
(b) (ii) Effective sunshading provision for windows on the west façade with minimum shading of 30%. Percentage of west facing window areas with sunshading devices over total west facing facade areas = ____ % *Green Mark Points : Points = 0.1 x (% of west facing window areas with sunshading devices); Max 10 points for items NRB 1-3(b)(i) and NRB 1-3(b)(ii).*		

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

(I) Energy Related Requirements

Part 1 : Energy Efficiency	**Max Points Allocated**	**Points Scored**
NRB 1-3 Building Envelope – Design / Thermal Parameters cont'd		
(c) Better Thermal Transmittance (U-value) of external west facing walls.		
Percentage of external west facing walls areas with U-value of 2 W/m^2K or less over total west facing façade areas = ____ %		
Green Mark Points : Points = 0.04 x (% of external west facing walls areas that meet the criteria); Max 4 points.		
(d) Better Thermal Transmittance (U-value) of roof		
Average U-value reduction = ____ W/m^2K		
Green Mark Points : 2 points for every 0.1 W/m^2K reduction; Max 5 points.		
NRB 1-4 Natural Ventilation (exclude carparks)	**13**	
(a) Proper design of building layout that utilises prevailing wind conditions to achieve adequate cross ventilation.		
* Building Layout Design		
Green Mark Points : 0.8 points for every 10%; Max 8 points.		
(b) Use of ventilation simulation software or wind tunnel testing and recommendations for design *(5 points).*		
Sub-Total (B) – For items NRB 1-3 to 1-4 :	**42**	
Exception *: For existing building, item NRB 1-3(a) may be excluded in computation ; Prorate Sub-Total (B) accordingly.*		
Prorate Sub-Total (B) - by percentage of non air-conditioned areas where applicable:		
Section (C) General		
NRB 1-5 Artificial Lighting	**12**	
Use of better efficient lighting to minimise energy consumption from lighting usage while maintaining proper lighting level.		

Total no. of units/rooms in the development	Units/Rooms with windows facing north and south directions	
	Total no.	Percentage

Percentage improvement in lighting power budget (as compared with SS530 requirements) *(0.5 points for every percentage improvement)*		
Include tenants' lighting provision *(Max 12 points)*	OR	*Exclude tenants'* lighting provision *(Max 5 points)*

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

(I) Energy Related Requirements

Part 1 : Energy Efficiency	**Max Points Allocated**	**Points Scored**
NRB 1-6 Ventilation in Carparks	**5**	

Mode of Ventilation	Max Points (A)	Area (m^2) (B)
Natural ventilation	5	
Fume extract with CO sensors	4	
Mechanical ventilation with CO sensors	3	

Green Mark Points : Max 5 points.

NRB 1-7 Ventilation in Common Areas — **5**

Use of energy efficient design and control ventilation systems in common areas with at least 90% of each applicable area.

Common Areas	Natural Ventilation (1.5 points)	Mechanical Ventilation (0.5 points)
(a) Toilets		
(b) Staircases		
(c) Corridors		
(d) Lift lobbies		
(e) Atriums		

Green Mark Points : Max 5 points.

NRB 1-8 Lifts and Escalators — **3**

(a) Lifts with the following energy efficient features :

(i) AC variable voltage and variable frequency (VVVF) motor drive or equivalent *(1 point).*

(ii) Sleep mode features or equivalent *(1 point).*

(b) Escalators with energy efficient features such as motion sensors *(1 point).*

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

(I) Energy Related Requirements

Part 1 – Energy Efficiency	**Max Points Allocated**	**Points Scored**
NRB 1-9 Energy Efficient Practices & Features	**12**	
(a) Computation of energy consumption based on design load in the form of Energy Efficiency Index (EEI) *(1 point)* EEI = _____ kWh/m^2/year		
(b) The following energy efficient features are deemed acceptable *(indicate where applicable)*		
(i) Thermal storage system		
(ii) Heat recovery devices		
(iii) Light shelves		
(iv) Motion sensors for staircases half landing		
(v) Motion sensors for toilets		
(vi) Sun pipes for natural lighting		
(vii) Ductless fan for basement ventilation		
(viii) Auto-condenser tube cleaning system		
(ix) Photo sensors to maximise the use of daylighting		
Items that are not listed above but with clearance from BCA (i) _____ (ii) _____ (iii) _____		
Based on the energy efficient features selected, the percentage of energy savings over the total building energy consumption = _____ %		
Green Mark Points : 3 points to 1% energy saving ; Max 11 points.		
Sub-Total (C) – For items NRB 1-5 to 1-9 :	**37**	
Prorate Sub-Total (A) - by % of air-conditioned areas where applicable :		
Prorate Sub-Total (B) - by % of non air-conditioned areas where applicable:		
Sub-Total for Part 1 - Prorate Sub-Total (A) + Prorate Sub-Total (B) + Sub-Total (C) :	**79**	
Sub-Total for Part 1 - Prorate Sub-Total (A) + Prorate Sub-Total (B) + Sub-Total (C) ; *(Max 50 points)* **:**		

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

(I) Energy Related Requirements

Part 1 – Energy Efficiency	**Max Points Allocated**	**Points Scored**
NRB 1-10 Renewable Energy *(Bonus Points)*	**20**	
Application of renewable energy sources in buildings. ☐		
Percentage of replacement of electricity by renewable energy (based on total electricity consumption)		
Include tenants' usage (*5 points for every 1% replacement*) / OR / *Exclude tenants'* usage (*3 points for every 1% replacement*)		
Green Mark Points : Max bonus points = 20 points.		
Category Score for Part 1 - {Sub-Total for Part 1 *(Max 50 points)* **+ Item NRB 1-10** *(Bonus Points)***};** *(Min 30 points)* **:**		

(II) Other Green Requirements

Part 2 : Water Efficiency		
NRB 2-1 Water Efficient Fittings	**8**	
Use of water fittings that are certified under the Water Efficiency Labelling Scheme (WELS).		

WELS Rating	Excellent	Very Good	Good	No Approved Rating
No. of Fittings (A)				
Weightage (B)	8	6	4	0

Green Mark Points : Max 8 points.

NRB 2-2 Water Usage and Leak Detection	**2**	
(a) Provision of sub-meters for major water uses which includes irrigation, cooling tower and tenants' usage *(1 point).* ☐		
(b) Linking all sub-meters to the Building Management System (BMS) for leak detection *(1 point).* ☐		
NRB 2-3 Irrigation System	**2**	
(a) Use of non potable water including rainwater for landscape irrigation *(1 point).* ☐		
(b) Use of water efficient irrigation system (served at least 50% of the landscape areas) *(1 point).* ☐		

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

(II) Other Green Requirements

Part 2 : Water Efficiency	**Max Points Allocated**	**Points Scored**
NRB 2-4 Water Consumption of Cooling Tower	**2**	
(a) Use of cooling tower water treatment system which can achieve 6 or more better cycles of concentration at acceptable water quality *(1 point).*		
(b) Use of NEWater or on-site and recycled water from approved sources *(1 point).*		
Category Score for Part 2 - For Items NRB 2-1 to 2-4 :	**14**	
Part 3 : Environmental Protection		
NRB 3-1 Sustainable Construction	**14**	
(a) More efficient concrete usage for building components. % reduction in the prescribed Concrete Usage Index (CUI) limit for the respective building categories = ____ % *Green Mark Points : 0.1 point for every percentage in reduction; Max 4 points.*		
(b) At least 50% of the existing structural elements or building envelopes (by areas) are conserved during redevelopment. *(2 points)*		
(c) Use of sustainable materials and products in building construction such as : (i) Environmental friendly products that are certified under The Singapore Green Labelling Scheme (SGLS). *Green Mark Points :1 point for high impact, 0.5 point for low impact, capped at 4 points.*		
(ii) Products with at least 30% recycled content by weight or volume (applicable to only non-structural elements). *Green Mark Points :1 point for high impact, 0.5 point for low impact, capped at 4 points.*		
NRB 3-2 Greenery	**6**	
(a) Greenery Provision GnP value = ____		
(b) Restoration of trees on site, conserving or relocating of existing trees on site *(1 point).*		
(c) Use of compost recycled from horticulture waste *(1 point).*		

Green Mark Points (Max 4 points) :

GnP	*0.5 to <1.0*	*1.0 to < 1.5*	*1.5 to < 3.0*	*≥ 3.0*
Points Allocated	*1*	*2*	*3*	*4*

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

(II) Other Green Requirements

Part 3 : Environmental Protection	**Max Points Allocated**	**Points Scored**
NRB 3-3 Environmental Management Practice	**8**	
(a) Implement effective environmental management programmes. *(1 point)*		
(b) Building quality assessed under Construction Quality Assessment System (CONQUAS) *(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 :		
(i) One Certified Green Mark Manager (GMM) *(1 point)*		
(ii) One Certified Green Mark Professional (GMP) *(2 points)*		
(e) Provision of building users' guide *(1 point).*		
(f) Provision of facilities or recycling bins for collection and storage of different recyclable waste such as paper, glass, plastic, etc. *(1 point).*		
NRB 3-4 Public Transport Accessibility	**2**	
(a) Good access to nearest MRT/LRT stations or bus stops. *(1 point)*		
(b) Adequate bicycles parking lots *(1 point).*		
NRB 3-5 Refrigerants	**2**	
(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 - For Items NRB 3-1 to 3-5 :	**32**	

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

(II) Other Green Requirements

Part 4 : Indoor Environmental Quality	**Max Points Allocated**	**Points Scored**
NRB 4-1 Thermal Comfort	**2**	
Air-conditioning system is designed to ensure consistent indoor conditions for thermal comfort. Indoor temperature between 22.5 to 25.5 ^{o} C Relative Humidity < 70%.		
NRB 4-2 Noise Level	**2**	
Occupied spaces in buildings are designed with good ambient sound levels as recommended in SS CP13.		
NRB 4-3 Indoor Air Pollutants	**2**	
(a) Use of low volatile organic compounds (VOC) paints certified under The Singapore Green Labelling Scheme *(1 point).* ☐ (b) Use of adhesive certified under The Singapore Green Labelling Scheme for composite wood products *(1 point).* ☐		
NRB 4-4 High Frequency Ballasts	**2**	
Use of high frequency ballasts in the fluorescent luminaries in at least 90% of all applicable areas.		
Category Score for Part 4 - For Items NRB 4-1 to 4-4 :	**8**	
Part 5 : Other Green Features		
NRB 5-1 Green Features and Innovations	**7**	
(a) The following green features are deemed acceptable : **<u>Water Efficiency</u>** (i) Use of self cleaning façade system ☐ - for more than 75% of the external walls *(2 points)* - for more than 50% of the external walls *(1 point)* - for at least 25% of the external walls *(0.5 point)* (ii) Use of grey water recycling system ☐ - for all blocks *(2 points)* - for at least 1 block *(1 point)* (iii) Recycling AHU condensate ☐ - more than 75% of AHU condensate *(1 point)* - for at least 50% of AHU condensate *(0.5 point)* (iv) Use of membrane filtration system to recycling water during construction *(0.5 point)* ☐ (v) Use of non-chemical water treatment for cooling tower *(0.5 point)* ☐		

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

(II) Other Green Requirements

Part 5 : Other Green Features	**Max Points Allocated**	**Points Scored**
NRB 5-1 Green Features and Innovations cont'd		

Environmental Protection

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

(ii) Provision of vertical greening
- for more than 50% of the external wall areas *(1 point)*
- for at least 25% of the external wall areas *(0.5 point)*

(iii) Provision of double refuse chutes to separate recyclable from non-recyclable waste *(1 point)*

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

(v) Use of at least 5 nos. of compost bins to recycle organic waste *(0.5 point).*

(vi) Use of non-chemical water treatment for swimming pools *(0.5 point).*

(vii) Use of approved recycled products to replace at least 10% of the fine and/or coarse aggregate used for concrete production of structural application in at least 50% of all structural elements of the superstructures - 0.5 point for each approved recycled product used *(Up to 1 point).*
- replacement of fine and coarse aggregate *(1 point)*
- replacement of fine aggregate *(0.5 point)*
- replacement of coarse aggregate *(0.5 point)*

Indoor Air Quality

(i) Use of Titanium Dioxide solutions to remove odour of the toilets
- for more than 50% of the toilets *(1 point)*
- for at least 25% of the toilets *(0.5 point)*

(ii) Use of pneumatic waste collection system.*(1 point)*

(iii) Use of UVC emitters in all AHUs to improve indoor air quality *(0.5 point).*

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

(II) Other Green Requirements

Part 5 : Other Green Features	**Max Points Allocated**	**Points Scored**
NRB 5-1 Green Features and Innovations cont'd		
Others (i) Provision of landscape drainage and infiltration trenches (run-off & ground water) ☐ - for at least 25% of the landscape areas *(1 point)* - for less than 25% of the landscape areas *(0.5 point)* (ii) Provision of system to recycle runoff from vertical green wall and sky garden ☐ - for at least 25% of the green areas *(1 point)* - for less than 25% of the green areas *(0.5 point)* (iii) Use of siphonic rainwater discharge system at roof *(0.5 point).* ☐ (iv) Provision of eco pond *(0.5 point)* ☐ (v) Provision of carpark guidance system *(0.5 point)* ☐ (b) Items that are not listed above but with clearance from BCA : (i) _____ ☐ (ii) _____ ☐ (iii) _____ ☐		
Category Score for Part 5 - For Item NRB 5-1	**7**	
Sub-Total for Part 2 to Part 5 :	**61**	
Sub-Total for Part 2 to Part 5 *(Max 50 points; Min 20 points)* **:**		
Green Mark Score - {Sub-Total for Part 1 *(Max 50 points)* **+** **Item NRB 1-10** *(Bonus Points)* **+** **Sub-Total for Part 2 to Part 5** *(Max 50 points)***} :**		

Explanatory Notes :

Forms BPD_GM01, BPD_GM01_Appendix 1 and BPD_GM01_Appendix 2

1) For building works that are subject to the Building Control (Environmental Sustainability) Regulation 2008, the Form BPD_GM01 must be completed, accompanied with 1 set of Form BPD_GM01_Appendix 1 and/or 1 set of Form BPD_GM01_Appendix 2 where applicable. These forms are to be generated using the **Green Mark (GM) e-Filing System** accessible from BCA website and submitted together with the application for building plan approval.

2) For building works that involve mixed-use building which comprises both residential and non-residential buildings, the Green Mark score calculation as in Form BPD_GM01_Appendix 1 and Appendix 2 will have to be submitted together with the Form BPD_GM01 unless the following condition apply :

   - Where any part of the building works that related to a non-residential building or residential building involve a gross floor area (GFA) of less than 2000m^2 and that of the other part of these building works, only the Green Mark score calculation of the larger part of these building works (Form BPD_GM01_Appendix 1 OR Appendix 2) are required to be submitted together with the Form BPD_GM01.
   - For example, if the gross floor area (GFA) of the non-residential buildings is less than 2000m^2 and that of the residential buildings, only the Green Mark score calculation for the residential buildings that is Form BPD_GM01_ Appendix 1 will need to be submitted together with Form BPD_GM01 for building plan approval as illustrated in Table 2-1 below.

Table 2-1 – Applicable Criteria for Mixed-Use Buildings with New GFA ≥ 2000m^2

Project Type	Total New GFA Residential (m^2)	Total New GFA Non-Residential (m^2)	Form BPD_GM01_ Appendix 1	Form BPD_GM01_ Appendix 2
Mixed-use building	≥ 2000	≥ 2000	1 set	1 set
	≥ 2000	< 2000	1 set	Not applicable
	< 2000	≥ 2000	Not applicable	1 set
	< 2000	< GFA for Residential	1 set	Not applicable
	< GFA for Non-Residential	< 2000	Not applicable	1 set