

ENVIRONMENT BUREAU CIRCULAR MEMORANDUM

No. 6/2015

From: Permanent Secretary for the Environment/Director of Environmental Protection

To: Permanent Secretaries,
Heads of Departments

Ref.: EP124/R3/103

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Green Procurement in the Government

Introduction

The Chief Executive announced on 22 June 2009 that the Government would take the lead in making Hong Kong a green city through a number of measures including the expansion of green procurement in the Government. In this connection, the Permanent Secretary for the Environment has set up an Inter-departmental Working Group on Green Government Procurement (the Working Group), with membership and terms of reference as set out in **Annex I**, to take the matter forward. This Circular sets out the additional measures to expand green procurement in the Government, as endorsed by the Working Group. It supersedes the Environment Bureau Circular Memorandum No. 2/2011 issued on 11 March 2011.

Government's Green Procurement Policy

2. In 2000, the Government updated its procurement regulations to require bureaux and departments (B/Ds) to take into account environmental considerations when procuring goods and services. Specifically, B/Ds are encouraged, as far as possible and where economically rational, to purchase green products¹ and avoid single-use

¹ These refer to products (i) with improved recyclability, high recycled content, reduced packaging and greater durability; (ii) with greater energy efficiency; (iii) utilizing clean technology and/or clean fuels;

disposable items. In parallel, we continue to monitor the market situation and has expanded the list of green specifications for items commonly used by B/Ds. We have now drawn up additional measures for adoption by B/Ds with a view to further promoting green procurement in the Government as set out below:

- (a) B/Ds to adopt green specifications for products where such specifications have been promulgated by Environmental Protection Department (EPD) in their purchases as far as practicable;
- (b) B/Ds to make annual report on green product purchase;
- (c) B/Ds to incorporate green guidelines in their new cleansing contracts; and
- (d) B/Ds to incorporate minimum emission standards in their tender requirements for new vehicle hiring services contracts.

Details of these measures are elaborated in the ensuing paragraphs.

To adopt the green specifications

Green specifications for products commonly procured by B/Ds

3. EPD has commissioned consultancy studies to develop green specifications for products commonly used by B/Ds which are centrally procured by the Government Logistics Department (GLD) (e.g. paper, office stationery etc.). As regards products purchased under individual B/Ds' delegated authority², or high-value specific items purchased by GLD as procurement agent on behalf of the procuring B/D, their specifications are drawn up by individual B/Ds having regard to their specific operational requirements.

(iv) which result in reduced water consumption; (v) which emit fewer irritating or toxic substances during installation or use; or (vi) which result in smaller production of toxic substances, or less toxic substances, upon disposal.

² Chapter II of the Stores and Procurement Regulations (SPRs) includes a summary of various types of procurement and the delegated financial limits. The delegated authority to Controlling Officers in procurement of stores, services (excluding services for construction and engineering works) and revenue contracts as stated in SPR 220 is:

- (i) Quotation Limit: \$1.43 million; and
- (ii) Departmental Limit: \$5 million

4. In line with the Government's commitment to promote green procurement, EPD has recently extended its study of green specifications to include products purchased by B/Ds individually. The latest number of products on the Government procurement list with green specifications is 150 items (**Annex II**). The green specifications of these items, as well as their verification methods³, have been uploaded to CCGO website at the following address: <http://epd.host.cngo.hksarg/ERPurchase/index.html>. EPD will continue to review regularly with a view to expanding the list of products with green specifications as appropriate.

5. In exercising the authority under B/Ds' delegated authority⁴, B/Ds are encouraged to adopt the respective green specifications whenever they purchase items on the list in **Annex II** as far as possible. In doing so, B/Ds are also advised to make reference to the procurement practice currently adopted by GLD for bulk contracts for common user items as stated in paragraphs 6 to 10 below.

Green Procurement Practice

6. For the purchase of common user items, GLD has adopted green specifications as "mandatory" features in the tender specifications when the products are available on the market with adequate models and quantities in supply. As a rule of thumb, where there are three or more models meeting the green specifications for that product, GLD would consider that there is an adequate supply of that product on the market. In this connection, "mandatory" green requirements are specified in **Annex II** for reference.

7. For new green specifications developed with uncertain market availability, green specifications will be included in the tender specifications as "desirable" features. "Desirable" green requirements are also specified in **Annex II** for reference. Tenderers are invited to indicate in their offers whether their products can comply with these green features and, where appropriate, to submit supporting documents for

³ For information, local testing and certification services, such as those accredited by Hong Kong Accreditation Service (link: <http://www.itc.gov.hk/en/quality/hkas/about.htm>), are available for verification of compliance of many of the green specifications.

⁴ See Note 2. B/Ds should however note that the procurement of some items, irrespective of their value, is centrally controlled. One example is the procurement of government vehicles which is governed by General Regulation 236.

verification. Experience has indicated that tenderers are often more forthcoming in providing the information in the context of submitting their tenders than in responding to market research enquiries. However, the information should still be cross-checked against and updated by market research as appropriate.

8. The tender assessment panel will evaluate tender offers which can meet the mandatory features and recommend either the lowest conforming offer (for a tender without a marking scheme) or the highest scoring conforming offer (for a tender with a marking scheme) for acceptance. As regards the green desirable features, they are not taken into account in the tender assessment except where there are two or more lowest conforming offers which are identical in all respects, the one which could meet the desirable green specification(s) could be given the preference. These arrangements should be clearly spelt out in the tender document.

9. In order to encourage potential suppliers to offer products that can comply with green specifications, consideration may also be given to adopting a marking scheme with appropriate weighting for green specifications against the price offered. For this purpose, prior approval has to be obtained from the relevant tender board or the departmental tender committee in accordance with SPR350(h) for adopting the marking scheme. In drawing up the marking scheme, due weight should be given to whether it will achieve the value for money objective.

10. GLD will keep record of the offers that can meet the “desirable” green specifications and review the market availability of products meeting individual green specifications on a regular basis based on the tender responses and market information, with a view to changing them into “mandatory” or “desirable requirements attracting marks” in future tender exercises when circumstances warrant. Individual “desirable” green specifications without sufficient models or quantities in supply as mentioned in paragraph 7 above will continue to be included as “desirable” features. A flow chart illustrating the practice is attached at **Annex III**.

Encouraging the trial of green products that come to the attention of B/Ds
Three-tier Approach

1st Tier - Trial Stage

11. In view of the fast developing market for green products, it is possible that B/Ds may come across green products which are new to the international or the local markets, and are outside the list of products with green specifications promulgated by EPD. In such circumstances, the number of market suppliers may be less than two, and there may also be a premium in the prices of the green products as compared with that of the conventional products. In order to facilitate B/Ds in trying out new green products where appropriate, the concerned B/D may kick start the trial use of the green products through direct purchase according to the procedures in the Stores and Procurement Regulations if the purchase is within the B/Ds' Quotation Limit. In doing so, the B/Ds concerned should identify the green features of the product identified, and monitor the performance of the green product with a view to assessing if the product can meet the operational requirements on an objective basis. If the purchase of the green products exceeds the B/D's Quotation Limit, prior consultation with EPD should be made so that all relevant factors including environmental benefits, financial implications, future support services, determination of and verifications of green features can be taken into account before a decision can be made on whether a trial use should be initiated.

2nd Tier - Early Phases of Implementation

12. Subject to the outcome of the trial and that the procurement is within the B/D's Quotation Limit, a wider application of the green products may be pursued if the market has more than one supplier for the green product concerned. As in the case of the trial stage, EPD should be consulted if the proposal to extend the trial of the green products will involve procurement exceeding the B/Ds' Quotation Limit.

3rd Tier - Full Implementation

13. Nonetheless, in line with the consideration of value for money, the use of the green products as replacement or alternative to the conventional products should only be accepted if the rule of adequate

market supply in paragraph 6 above (in terms of having no less than three suppliers in the market) can be met amongst others. Where the experience of the trial and early phases of implementation of green products proves to be successful in terms of meeting the operational requirements and fulfilling the identified environmental benefits (footnote 1 refers), the B/Ds are invited to advise the Working Group of the outcomes, with possible financial implications, so that consideration may be given to incorporating the products into the list of products with green specifications for reference by all B/Ds. In the light of the experience and the market situation, the Working Group will also deliberate if the green specifications developed from the green products after trials should be adopted either as “mandatory” or “desirable requirements attracting marks” in future tenders exercises across the board.

Small Amount Purchase

14. Amongst the 150 government procurement items with full green specifications in **Annex II**, there is a total of 36 items which have been identified as products with small amount purchase need. Small amount purchase refers to a single purchase order not exceeding \$50,000 regardless the quantity of purchase item(s).

15. In order to facilitate small amount purchase of these 36 items by B/Ds, simple green purchase tips have been developed for easy adoption by frontline procurement staff. The green purchase tips come along with practicable verification methods. They can be easily comprehended and adopted for use at point of purchase. B/Ds should follow the green purchase tips at **Annex VII** for small amount purchase. The green purchase tips have been uploaded to CCGO website at the following address: <http://epd.host.ccgohksarg/ERPurchase/index.html>. If the purchase amount per order exceeds \$50,000, B/Ds should adopt the full green specifications applicable for bulk purchase at **Annex II**.

Annual Report on Green Product Purchase

16. To establish a system for monitoring the application of green specifications, we have currently classified the 150 products with green specifications into 23 categories. Each category and product item are

assigned with a specific category code and product code. Combination of these codes would produce a unique product ID. For example, “notebook computer” is classified under the category of “computer equipment and products” with category code and product code of “D” and “04”, respectively. Thus, the product ID of notebook computer is “D04”. Attached at **Annex IV** is the list of product categories.

17. To monitor the green product purchasing situation, EPD will invite the procurement unit of all B/Ds to make a report on its last calendar year’s purchases within the first two months of each calendar year. Officers initiating the procurement are advised to go through the green product list and check whether the products to be purchased are included on the list. If products to be purchased are listed, the officers initiating the procurement should try to apply the recommended green specifications by making reference to the practice mentioned in paragraphs 6 to 10 above. At the same time, the officers initiating the procurement should inform the procurement units of their B/Ds the product ID and indicate whether the recommended green specifications are adopted when they submit the purchase requisitions. The procurement unit should then cross check the product ID and proceed with the normal procurement procedure. In parallel, the procurement units should consolidate the information of the product ID, purchase values and the information on whether green specifications are adopted or not and whether the final purchases meet such green specifications for incorporation into the annual report to EPD excluding those purchases arranged by GLD. A flow chart regarding the proposed purchase procedure and a proforma for the annual reporting are attached at **Annex V** and **Annex VI**.

18. In the annual reporting exercise, the procurement unit of all B/Ds shall also make a report on its small amount purchase of green products in the last calendar year, and indicate whether the green purchase tips are adopted or not for the small amount purchase item(s). A template for the annual reporting of small amount purchase is attached at **Annex VII**.

To incorporate the green guidelines into cleansing contracts

19. In addition to the use of environment-friendly materials, due consideration of environmental factors in the delivery of services can help conserve our resources and protect the environment. In the light of the sizeable volume of cleansing services being provided by major B/Ds with substantial interface with the public, the Working Group considers there is scope to incorporate certain environmental guidelines in their new cleansing contracts, which are set out in **Annex VIII**. These requirements would not only help in conserving the environment but also serve in promoting public understanding of the substantial scope of protecting the environment in our daily life. B/Ds should apply these guidelines in their new cleansing contracts as far as possible.

To incorporate minimum emission standards in vehicle hiring services contracts

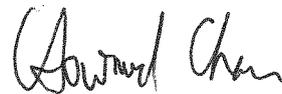
20. Some B/Ds may hire commercial vehicles to meet their transportation needs. The incorporation of minimum emission standards in vehicle hiring services contracts will send a strong signal of the Government's commitment to improving our roadside air quality. We have put in place a set of mandatory emission standards for different types of vehicles that tenderers would need to comply in future tender in **Annex IX**. Tender offers that can provide vehicles meeting the desirable (i.e. more stringent) emission standards on top of the mandatory ones will be preferred. B/Ds are encouraged to adopt the mandatory and desirable emission standards when procuring vehicle hiring services.

Cost Implication

21. B/Ds should absorb any additional cost incurred in procuring products and services with green specifications. While costs of these products and services may in some cases be higher than those without green features, it is expected that the Government's initiative of taking the lead on green procurement would facilitate the development of the relevant market and the prices of products meeting our green specifications would be lowered over time.

Enquiries

22. General enquiries on this circular can be addressed to Assistant Director of Environmental Protection (Waste Reduction and Recycling) on 3509 8631. Questions on GLD's green procurement practice may be addressed to Principal Supplies Officer (Procurement 1) on 2231 5229 for purchase of stores or Government Transport Manager (Operations) on 2231 5219 for hiring of vehicles arranged by GLD.



(Howard Chan)

for Permanent Secretary for the Environment

c.c.

Directors of Bureaux

D/CEO

AA/CS

AA/FS

AA/SJ

Director of Administration

JA

**Inter-departmental Working Group
on Green Government Procurement**

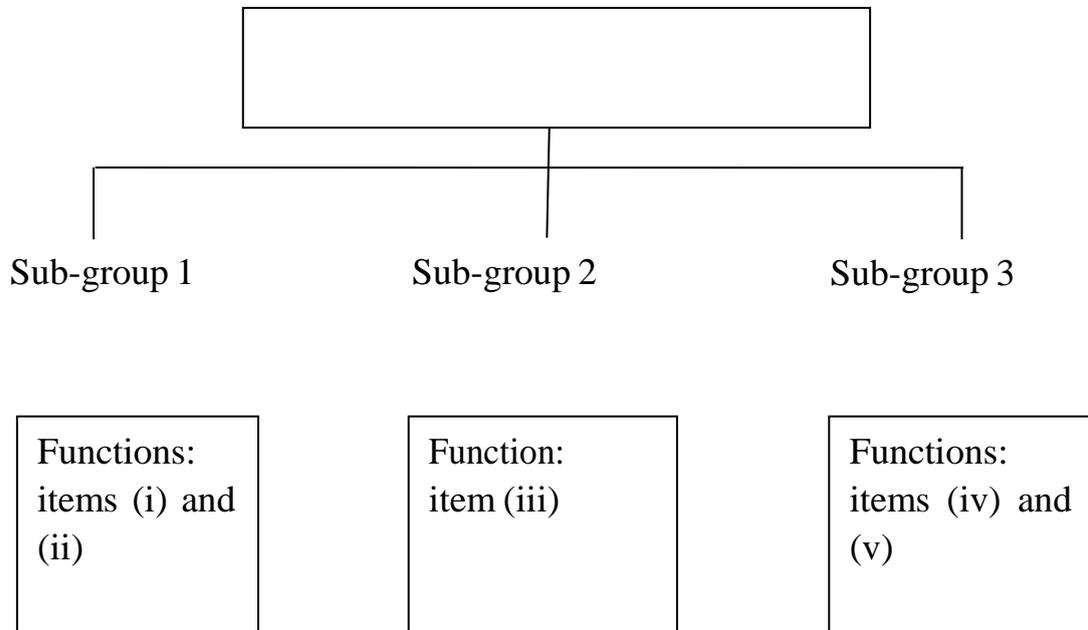
Membership

Permanent Secretary for the Environment	(Convenor)
Permanent Secretary for Development (Works)	} or representative (on a need basis)
Director of Agriculture, Fisheries and Conservation	
Director of Drainage Services	
Director of Electrical and Mechanical Services	
Director of Government Logistics	
Permanent Secretary for Financial Services and the Treasury (Treasury)	
Deputy Director of Environmental Department (2)	
Assistant Director of Environmental Protection (Waste Reduction and Recycling)	(Secretary)

Terms of Reference

- (i) Oversee the adoption of the green specifications that have been developed for government procurement;
- (ii) Oversee a comprehensive review of the common user products and services procured by the GLD with a view to developing more green specifications;
- (iii) Oversee the identification of green materials in public works projects and examine the implications of their use with a view to promoting them in public works projects;
- (iv) As a start, oversee the examination of the departmental purchases of products and services of selected departments with a view to developing guidelines or green specifications as appropriate for adoption and wider application within the Government; and
- (v) Review guidelines for reporting procurement in the Environmental Reports.

In order to carry out these functions, three Sub-groups have been set up under the Working Group as follows:



Annex II**List of 150 items with recommended green specifications**

Agriculture and Horticulture (Category Code – A)		
Product Code	Product Item	Recommended Green Specifications*
A01	Garden machinery (lawn mowers)	Desirable Requirement
		<ul style="list-style-type: none"> Noise emissions: The declared sound intensity level should not exceed the limit of 100 dB(A) during operation Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight The metal content in the individual battery cell should be lower than the values shown below: <ol style="list-style-type: none"> Arsenic ≤ 10.0 ppm Cadmium ≤ 5.0 ppm Lead ≤ 5.0 ppm Mercury < ≤ 0.1 ppm
A02	Pest Control (termiticide)	Mandatory Requirement
		<ul style="list-style-type: none"> The active ingredient(s) of the product must be registered in the register under the Pesticides Ordinance (Cap. 133) or allowed to be possessed or used under and in accordance with a permit issued by the Director of Agriculture, Fisheries and Conservation under Cap. 133.
		Desirable Requirement
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with any substances that are included in the International Agency for Research on Cancer (IARC) lists for proven (Group 1) carcinogens. The product should provide formulation test results in accordance with the relevant OECD guidelines complying with the following requirements: <ol style="list-style-type: none"> Acute Oral LD50 : ≥ 500 mg/kg Acute Dermal LD50: ≥ 2,000 mg/kg Acute Inhalation LC50 : ≥ 1.5 mg/l (Exposure time 4h) Non-irritant to eyes and skin Non-sensitizing Product supplier should provide recollection of waste bottles to government departments to ensure proper disposal of the product containers
A03	Fertilizers / Compost	Desirable Requirement
		Fertilizers
		<ul style="list-style-type: none"> The product should contain no less than 30% by weight of recycled organic materials. In the final product, the content of the following elements should be lower than the values shown below: <ol style="list-style-type: none"> Cadmium < 1mg/kg (dry weight) Chromium < 100mg/kg (dry weight) Lead < 100mg/kg (dry weight) Mercury < 1mg/kg (dry weight)
		Mandatory Requirement
		Compost
		<ul style="list-style-type: none"> The organic matter content should be derived from the processing or re-use of organic waste.[#]

* For information, local testing and certification services, such as those accredited by Hong Kong Accreditation Service (link: <http://www.itc.gov.hk/en/quality/hkas/about.htm>), are available for verification of compliance of many of the green specifications.

[#] Updated in Nov 2018.

Building and Construction Supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications*
B01	Flooring Materials	Desirable Requirement
		<ul style="list-style-type: none"> The plastic floor parts should contain no less than 10% by weight of recycled plastic materials against the total weight of plastic contained in the product.
		<ul style="list-style-type: none"> For wood-based flooring products, the material should meet one of the following requirements: <ol style="list-style-type: none"> 40% of the wood material is from recycled wood; or The wood material should obtain sustainable forest management certification such as Forest Stewardship Council (FSC), PEFC (Programme for the Endorsement of Forest Certification schemes) or equivalent
		<ul style="list-style-type: none"> The product containing paint should not contain any heavy metals or their compounds as listed below: <ol style="list-style-type: none"> Antimony Arsenic Cadmium Hexavalent chromium Lead Mercury
		<ul style="list-style-type: none"> Total emission: Discharge of Volatile Organic Compounds (VOCs) should not exceed 2g/m².
		<ul style="list-style-type: none"> Emission rate: Discharge of Volatile Organic Compounds (VOCs) should not exceed 500µg/m²/hr.
		<ul style="list-style-type: none"> Emission of formaldehyde from the product should not exceed 0.13mg/m³ air.
		<ul style="list-style-type: none"> The product should not contain chlorinated / brominated paraffins, organic tin compounds, phthalates or polybrominated diphenyl ethers (PBDE) content.
B02	PVC Pipe and Fitting	Desirable Requirement
		<ul style="list-style-type: none"> The product should contain at least 30% by weight of waste plastic.
		<ul style="list-style-type: none"> The product should not contain heavy metals including cadmium, lead, mercury and tin.
		<ul style="list-style-type: none"> The product should not contain phthalates.
B03	Solvent-based / Water-based Paint for Building Finish	Mandatory Requirement
		<ul style="list-style-type: none"> The product shall comply with the VOC content requirements on regulated paints stipulated in the Air Pollution Control (VOC) Regulation of Hong Kong.
		Desirable Requirement
		<ul style="list-style-type: none"> The product should not contain the following substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane, carbon tetrachloride). The paint should not be formulated with heavy metals including mercury, arsenic, selenium, lead, cadmium, hexavalent chromium, antimony and their compounds. In particular, the level of the above hazardous elements as impurities should not exceed: <ol style="list-style-type: none"> Cadmium: 100 ppm Hexavalent chromium: 200 ppm Lead: 200 ppm Mercury: 200 ppm
		<ul style="list-style-type: none"> The paint or any thinner used should contain no more than 0.01% by wet weight of formaldehyde.
B04	Carpet	Desirable Requirement
		<ul style="list-style-type: none"> The product should include a post-consumer or post-industrial recycled content of at least 5% in the carpet backing.

* For information, local testing and certification services, such as those accredited by Hong Kong Accreditation Service (link: <http://www.itc.gov.hk/en/quality/hkas/about.htm>), are available for verification of compliance of many of the green specifications.

		<ul style="list-style-type: none"> Emissions of Total Volatile Organic Compounds (TVOCs) should not exceed 0.5 mg/m² per hour. The product should be sold as removable tiles. The product should not be manufactured with topically applied biological inhibitors. Water-based adhesives or adhesive-free shall be used. Carpet backings should be PVC free, and the carpet backings materials should be cotton, jute, resin or polyurethane. Phthalate plasticizers should not be used in the manufacturing process. Dyes used in the product should not be formulated with any chemicals that are included in the International Agency for Research on Cancer (IARC) lists for proven (Group 1), probable (Group 2A), or possible (Group 2B) carcinogens. The product should be recyclable into either new carpet or other products, or should be capable of being refurbished.
B05	Safety Helmet	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> The product should preferably contain recycled plastic content. The product should be marked with an appropriate plastic resin identification code.
B06	Adhesives and Sealants	<p style="text-align: center;">Mandatory Requirement</p> <ul style="list-style-type: none"> The product shall comply with the VOC content limits on regulated adhesives stipulated in the Air Pollution Control (VOC) Regulation of Hong Kong. The product shall not contain the following substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane and carbon tetrachloride). The product shall contain no more than 0.01% by wet weight of formaldehyde. The product shall contain no more than 0.5% by wet weight of the sum total of aromatic compounds, which include benzene, toluene, xylenes, and ethylbenzene.
B07	Concrete	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> The product should contain the following recycled materials in the cementitious content: <ul style="list-style-type: none"> i. Ground Granulated Blastfurnace Slag (GGBS); ii. Condensed Silica Fume (CSF); iii. Fly ash (siliceous or calcareous), including pulverised fuel ash (PFA); of which the combination and proportion shall comply with the General Specification for Civil Engineering Works and General Specification for Building for its intended use. <p>The product shall also conform to the technical requirement for its intended use as specified in the General Specifications.</p> <ul style="list-style-type: none"> The product should contain the following recycled materials to replace natural aggregates. <ul style="list-style-type: none"> i. Recycled aggregates; ii. Crushed old concrete; iii. Crushed surplus rocks from local development projects; of which the combination and proportion shall comply with the General Specification for Civil Engineering Works and General Specification for Building for its intended use. <p>The product shall also conform to the technical requirement for its intended use as specified in the General Specifications.</p>
B08	Timber Doors	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> The wood should meet one of the following requirements: <ul style="list-style-type: none"> i. The wood material is from recycled/waste wood; ii. The wood material obtains sustainable forest management certification such as Forest Stewardship Council (FSC), PEFC (Programme for the Endorsement of Forest Certification schemes) or equivalent. <p style="text-align: center;">Mandatory Requirement</p>

		<ul style="list-style-type: none"> Formaldehyde Emission: All wood panels shall be of Class E1 under EN13986 in respect of formaldehyde emission. The product shall not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> ➤ Arsenic ➤ Cadmium ➤ Copper ➤ Lead ➤ Mercury The following substances shall not be added during manufacturing: elemental chlorine, fluorine, PCP (pentachlorophenol) and tar oils containing benzo(a)pyrene. The product shall have no flame retardant of polybrominated biphenyl (PBB), polybrominated diphenyl ether (PBDE) or short-chain chlorinated paraffin added as formulated components.
B09	Gypsum Plasterboard	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> The product should contain a minimum of 40% by weight of recycled materials against the total weight of the product. <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Building.</p>
B10	Concrete Paving Units (use of recycled aggregates only)	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> The product should contain recycled aggregates, of which the following requirements shall be complied with: <ul style="list-style-type: none"> ➤ The aggregates shall contain not less than 70% by weight of recycled aggregates. ➤ The recycled fine aggregates shall constitute not less than 40% by weight of the total recycled aggregates. ➤ The recycled aggregates shall be of crushed inert construction and demolition materials produced from the crushing plant of the Civil Engineering and Development Department or other local sources approved by the Engineer. <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Civil Engineering Works and General Specification for Building.</p>
B11	Photovoltaic Panel	<p style="text-align: center;">Mandatory Requirement</p> <ul style="list-style-type: none"> Product components (circuit boards, batteries, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight <p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> The heat transfer medium should not be formulated with halogenated organic substances.
B12	Asphalt Pavement	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> The roadbase material should contain a maximum of 15% of reclaimed asphalt pavement (RAP) by mass of the total mix. <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Civil Engineering Works and General Specification for Building.</p>
B13	Fill Materials	<p style="text-align: center;">Desirable Requirement</p> <p>For earthworks</p> <ul style="list-style-type: none"> The fill material should contain recycled aggregates made from inert construction and demolition material or recycled rock. <p>For reclamation</p> <ul style="list-style-type: none"> The fill material should contain recycled aggregates made from inert construction and demolition material or recycled rock. <p>For filling marine structures</p>

		<ul style="list-style-type: none"> The fill material should contain recycled aggregates made from rock fill materials. <p>The fill material shall conform to the technical requirement for its intended use as specified in the General Specification for Civil Engineering Works and General Specification for Building.</p>
B14	Non-structural Steel Work (such as steel mesh, steel tubing, steel door and steel louvre)	Desirable Requirement
		<ul style="list-style-type: none"> The product should contain a minimum of 20% by weight of recycled steel content against the total weight of the product <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Civil Engineering Works and General Specification for Building</p>
B15	Sub-base Materials	Desirable Requirement
		<ul style="list-style-type: none"> The sub-base material should contain a maximum of 12.5% of crushed inert demolition materials by mass of the total mix <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Civil Engineering Works together with the Particular Specification of respective departments, and General Specification for Building</p>
B16	Rubber Mat for Playground	Desirable Requirement
		<ul style="list-style-type: none"> The product should contain a minimum of 80% by weight of recycled or recovered plastic/rubber materials against the total weight of plastic contained in the product
		<ul style="list-style-type: none"> Supplier should preferably provide product take-back/recycling services to users at the end of life of the product
		Mandatory Requirement
		<ul style="list-style-type: none"> The product shall not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> ➤ Arsenic ➤ Cadmium ➤ Chromium ➤ Copper ➤ Lead ➤ Mercury The product shall have no flame retardant of polybrominated biphenyl (PBB), polybrominated diphenyl ether (PBDE) or short-chain chlorinated paraffin added as formulated components.
B17	Thermal Insulation	Mandatory Requirement
		<ul style="list-style-type: none"> Emission rate: Discharge of Volatile Organic Compounds (VOCs) shall not exceed 500 $\mu\text{g}/\text{m}^2/\text{hr}$ The levels of the following hazardous substances as impurities shall not exceed the following: <ul style="list-style-type: none"> ➤ Arsenic: 50 ppm ➤ Cadmium: 10 ppm ➤ Hexavalent chromium: 10 ppm ➤ Lead: 300 ppm ➤ Mercury: 10 ppm ➤ Selenium: 20 ppm ➤ PBDEs (polybrominated diphenyl ether): 100ppm ➤ PBBs (polybrominated byphenyls): 100ppm
		Desirable Requirement
		<ul style="list-style-type: none"> Emission of formaldehyde from the product should not exceed 0.2 $\text{mg}/\text{m}^2/\text{hr}$.
B18	Ceramic Tiles	Mandatory Requirement
		<ul style="list-style-type: none"> Where antimony, cadmium or lead (or any of their compounds) are used in the glazes, their content shall not exceed the following specific limits: <ul style="list-style-type: none"> ➤ Antimony: 0.25% in weight of the glazes ➤ Cadmium: 0.1% in weight of the glazes ➤ Lead: 0.5% in weight of the glazes

		<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> The product should contain a minimum of 10% by weight of recycled or recovered materials against the total weight of the product. <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Civil Engineering Works and General Specification for Building.</p>
B19	Varnish and Wax Polish	<p style="text-align: center;">Mandatory Requirement</p> <ul style="list-style-type: none"> The product shall comply with the VOC content limits on regulated architectural paints (varnishes) stipulated in the Air Pollution Control (VOC) Regulation of Hong Kong. The product shall not contain the following substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane and carbon tetrachloride). The product shall contain no more than 0.01% by wet weight of formaldehyde. The product shall contain no more than 0.5% by wet weight of the sum total of aromatic compounds, which must include benzene, toluene, xylenes, and ethylbenzene.
B20	Windows	<p style="text-align: center;">Mandatory Requirement</p> <ul style="list-style-type: none"> The thermal insulation capacity of the window glass shall not exceed the heat transfer coefficient (U-value) of 1.4W/m²K. The product components (including frame, glass, paint, surface treatment, etc.) shall not be formulated with the following substances or their compounds: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Hexavalent chromium iv. Lead v. Mercury vi. Organic tin vii. Phthalates
B21	Wood Panels	<p style="text-align: center;">Mandatory Requirement</p> <ul style="list-style-type: none"> The content of free formaldehyde in adhesives used in the product shall not exceed 0.5 % by weight of the adhesive. Formaldehyde Emission: All wood panels shall be of Class E1 under EN13986 in respect of formaldehyde emission. The product shall not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> ➤ Arsenic ➤ Cadmium ➤ Copper ➤ Lead ➤ Mercury The following substances shall not be added during manufacturing: elemental chlorine, fluorine, PCP and tar oils containing benzo(a)pyrene. The product shall have no flame retardant of polybrominated biphenyl (PBB), polybrominated diphenyl ether (PBDE) or short-chain chlorinated paraffin added as formulated components. <p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> Requirements of wood or wooden materials The product should meet one of the following requirement: <ul style="list-style-type: none"> i. 40% of the wood material is from recycled/waste wood; or ii. The wood material obtains sustainable forest management certification such as Forest Stewardship Council (FSC), PEFC (Programme for the Endorsement of Forest Certification schemes) or equivalent.

Cleansing Products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications*
C01	All Purpose Cleaners	Mandatory Requirement
		<ul style="list-style-type: none"> The pH of aqueous solution of the detergent shall not be higher than 10.5.
		<ul style="list-style-type: none"> The product shall not be formulated or manufactured with alkylphenol ethoxylates (APEOs) and ethylene diaminetetra acetic acid.
		Desirable Requirement
		<ul style="list-style-type: none"> The product should not contain halogenated substances or solvents, including reactive chlorine compounds.
		<ul style="list-style-type: none"> The product should not contain more than 5% by weight of volatile organic compounds (VOCs).
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with phosphate or phosphonates.
		<ul style="list-style-type: none"> The product should not be formulated with ammonia or ammonium compounds.
		<ul style="list-style-type: none"> The product should be at least 90% biodegradable.
C02	Laundry Detergent / Soap	Mandatory Requirement
		<ul style="list-style-type: none"> The product shall not be formulated or manufactured with alkylphenol ethoxylates (APEOs) and ethylene diaminetetra acetic acid (EDTA).
		Desirable Requirement
		<ul style="list-style-type: none"> The product should not contain halogenated substances or solvents, including reactive chlorine compounds.
		<ul style="list-style-type: none"> The product should not contain more than 5 % by weight of volatile organic compounds (VOCs).
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with phosphate or phosphonates.
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with optical brighteners.
		<ul style="list-style-type: none"> The product should be at least 90% biodegradable.
		<ul style="list-style-type: none"> The product should not contain any heavy metals or their compounds as listed below: <ol style="list-style-type: none"> Arsenic Cadmium Cobalt Hexavalent chromium Lead Mercury Selenium
C03	Sanitary Detergent	Mandatory Requirement
		<ul style="list-style-type: none"> The product shall not be formulated or manufactured with alkylphenol ethoxylates (APEOs) and ethylene diaminetetra acetic acid (EDTA).
		Desirable Requirement
		<ul style="list-style-type: none"> The pH value of product, before dilution, should not be higher than 11.5 or less than 2.
		<ul style="list-style-type: none"> The product should not contain halogenated substances or solvents, including reactive chlorine compounds.

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		<ul style="list-style-type: none"> The product should not contain more than 5% by weight of volatile organic compounds (VOCs). The product should not be formulated or manufactured with phosphate or phosphonates. The product should not be formulated with any chemicals that are included in the International Agency for Research on Cancer (IARC) lists for proven (Group 1), probable (Group 2A), or possible (Group 2B) carcinogens. The surfactant used in the product should be at least 90% biodegradable. The product should not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Cobalt iv. Hexavalent chromium v. Lead vi. Mercury vii. Selenium
C04	Soap Toilet Liquid	Mandatory Requirement
		<ul style="list-style-type: none"> Bio-accumulative preservatives shall not be used.
		Desirable Requirement
		<ul style="list-style-type: none"> The pH value of 5% solution should range from 6-10. The product should not be formulated or manufactured with alkylphenol ethoxylates (APEOs), ethylene diaminetetra acetic acid (EDTA) or nitrilotriacetate (NTA). The product should be at least 60% biodegradable. The product should not be formulated or manufactured with phosphate or phosphonates. The product should not be formulated or manufactured with optical brighteners. Fragrance used in the product should comply with international guidelines, e.g. the Code of Practice of the International Fragrance Association (IFRA). The product shall declare any fragrances on the product label in the ingredient line. The product should not be formulated with any chemicals that are included in the International Agency for Research on Cancer (IARC) lists for proven (Group 1), probable (Group 2A), or possible (Group 2B) carcinogens.
C05	Cleaning Rags and Cotton Waste	Desirable Requirement
		<ul style="list-style-type: none"> Cleaning Rags <ul style="list-style-type: none"> i. Addition of optical brighteners should not be permitted. ii. The content of detectable formaldehyde in the final product should not exceed 0.15 mg/kg. iii. The content of pentachlorophenol (PCP) in the final product should not exceed 0.15 mg/kg. Cotton Waste AOX emissions in the bleaching effluent should be less than 100 mg Cl/kg.
C06	Disinfectant	Desirable Requirement
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with surfactants belonging to alkylphenol ethoxylates (APEOs), ethylene diaminetetra acetic acid (EDTA) or nitrilotriacetate (NTA). The product should not be formulated or manufactured with builders belonging to phosphates. The product should not be formulated with any chemicals that are included in the International Agency for Research on Cancer (IARC) lists for proven (Group 1), probable (Group 2A), or possible (Group 2B) carcinogens. The product should not be formulated or manufactured with aromatic compounds.
C07	Deodorants	Desirable Requirement

		<ul style="list-style-type: none"> • The product should not contain substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs and HCFCs) • The surfactant used in the product should be readily biodegradable • The product should not be formulated or manufactured with alkylphenol ethoxylates (APEOs), ethylene diaminetetra acetic acid (EDTA), nitrilotriacetate (NTA), phthalates, halogenated organic solvents • The product should not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Cobalt iv. Hexavalent chromium v. Lead vi. Mercury vii. Selenium • The product should not contain more than 5% by weight of volatile organic compounds (VOCs) • The product should not contain phosphorus content of more than 0.2% by weight • The sum of benzene, toluene, xylene, ethylbenzene, 1,4- Dichlorobenzene, and styrene contents should be smaller than 0.1% by weight • The undiluted product should not contain any of the following components: <ul style="list-style-type: none"> i. Formaldehyde donors ii. Monoethanolamine, diethanolamine, and triethanolamine alone or in compounds iii. Parabens iv. Triclosan v. Nitromusk and polycyclic musk fragrances
C08	Detergents for Dishwashers	Desirable Requirement
		<ul style="list-style-type: none"> • The pH value of product should not be higher than 11 or less than 2 • The product should be at least 90% biodegradable • The product should not be formulated or manufactured with alkylphenol ethoxylates (APEOs), diethylene triamine pentaacetic acid (DTPA), ethylene diaminetetra acetic acid (EDTA), nitrilotriacetate (NTA), halogenated organic solvents • The product should not contain phosphorus or phosphonates at more than 0.5% by weight • The product should not be formulated or manufactured with optical brighteners • The product should not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Cobalt iv. Hexavalent chromium v. Lead vi. Mercury vii. Selenium • The product should not contain halogenated substances or solvents, including reactive chlorine compounds • The product should not contain the following substances: <ul style="list-style-type: none"> i. Formalin ii. Triclosan iii. Nitromusks and polycyclic musks
C09	Hand Soaps	Desirable Requirement

		<ul style="list-style-type: none"> The pH value of product should not be higher than 11 or less than 2
		<ul style="list-style-type: none"> The product should be at least 90% biodegradable and not bioaccumulative
		<ul style="list-style-type: none"> The product should not contain nitromusk and polycyclic musk fragrances
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with alkylphenol ethoxylates (APEOs), ethylene diaminetetra acetic acid (EDTA), nitrilotriacetate (NTA), halogenated organic solvents
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with phosphate or phosphonates
		<ul style="list-style-type: none"> The product should not contain more than 1 % by weight of volatile organic compounds (VOCs)
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with optical brighteners

Computer Equipment and Products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications*
D01	Desktop Computer	Desirable Requirement
		<ul style="list-style-type: none"> The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		<ul style="list-style-type: none"> The product should comply with international power consumption standard such as Energy Star.
		<ul style="list-style-type: none"> The energy consumption of the product should not be greater than 3W and 1W during sleep mode and off mode, respectively.
		<ul style="list-style-type: none"> Product components (circuit boards, batteries, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> Any plastic parts should be manufactured without chlorinated paraffins flame retardants.
		<ul style="list-style-type: none"> Component parts should not contain halogenated substances.
D02	LCD Monitor	Desirable Requirement
		<ul style="list-style-type: none"> The equipment should comply with power saving standard stipulated in Energy Star or should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		<ul style="list-style-type: none"> The energy consumption of the product should not be greater than 2W and 1W during sleep mode and off mode respectively.
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight The background illumination for the product should not contain more than 3 mg of mercury per lamp.

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		<ul style="list-style-type: none"> Any plastic parts should be manufactured without chlorinated paraffins flame retardants. Component parts should not contain halogenated substances.
D03	Network Products (including LAN switches, routers, cables, etc.)	Desirable Requirement
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> Any plastic parts should be manufactured without chlorinated paraffins flame retardants.
		<ul style="list-style-type: none"> Component parts should not contain halogenated substances.
D04	Notebook Computer	Desirable Requirement
		<ul style="list-style-type: none"> The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		<ul style="list-style-type: none"> The product should comply with international power consumption standard such as Energy Star.
		<ul style="list-style-type: none"> The energy consumption of the product should not be greater than 3W during sleep mode.
		<ul style="list-style-type: none"> Product components (circuit boards, batteries, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> Any plastic parts should be manufactured without chlorinated paraffins flame retardants. Component parts should not contain halogenated substances.
D05	Printer	Desirable Requirement
		<ul style="list-style-type: none"> The equipment should comply with power saving standard stipulated in Energy Star or should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		<ul style="list-style-type: none"> The energy consumption of the product should not be greater than 2W when switched off.
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> Any plastic parts should be manufactured without chlorinated paraffins flame retardants.
		<ul style="list-style-type: none"> Substances regulated in the Montreal Protocol (particularly CFCs, HCFCs, 1,1,1-trichloroethane, carbon tetrachloride) should not be used in the end production of the machines or in the production of circuit boards.
		<ul style="list-style-type: none"> Should not cause an ambient ozone concentration in excess of 0.04mg/m³.
		<ul style="list-style-type: none"> Should not cause a dust concentration in excess of 0.25mg/m³.
D06	Server	Desirable Requirement
		<ul style="list-style-type: none"> The product should comply with international power consumption standard such as Energy Star.
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances

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		<p>are:</p> <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight <ul style="list-style-type: none"> • Any plastic parts should be manufactured without chlorinated paraffins flame retardants. • Component parts should not contain halogenated substances.
D07	All-in-one Multifunctional Devices (for copying, printing and fax)	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The equipment should comply with power saving standard stipulated in Energy Star or should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD). • The energy consumption of the product should not be greater than 2W when switch off. • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight • Any plastic parts should be manufactured without chlorinated paraffins flame retardants. • Plastic parts should not contain halogenated substances • Should not cause an ambient ozone concentration in excess of 0.04mg/m³. • Should not cause a dust concentration in excess of 0.25mg/m³.
D08	Scanner	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The product should comply with international power consumption standard such as Energy Star. • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight • Any plastic parts should be manufactured without chlorinated paraffins flame retardants. • Component parts should not contain halogenated substances.

Distilled Water (Category Code – E)		
Product Code	Product Item	Recommended Green Specifications*
E01	Water Carboy for Water Dispenser	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The product supplier should provide recollection, recycling and delivery services to various government departments. • Packaging material should contain information on recycling/recollection channel/method.

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Electrical and gas appliances and light fittings (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications*
F01	Domestic Exhaust Fan	Desirable Requirement
		<ul style="list-style-type: none"> The power factor should not be less than 0.85, or it should comply with international power consumption standard such as Energy Star.
		<ul style="list-style-type: none"> Corrugated cartons used in packaging should be made from recycled paper.
		<ul style="list-style-type: none"> Plastic packaging should not contain PVC or other chlorine containing plastics.
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight
F02	Electric Fan	Desirable Requirement
		<ul style="list-style-type: none"> The power factor should not be less than 0.8, or it should comply with international power consumption standard such as Energy Star.
		<ul style="list-style-type: none"> Corrugated cartons used in packaging should be made from recycled paper.
		<ul style="list-style-type: none"> Plastic packaging should not contain PVC or other chlorine containing plastics.
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight
F03	Electric Radiator (oil filled)	Desirable Requirement
		<ul style="list-style-type: none"> The product should comply with power consumption standard such as Energy Star.
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight
F04	LPG Hot Plate	Desirable Requirement
		<ul style="list-style-type: none"> Concentration of NO_x in the emission during operation should be ≤ 100ppm.
		<ul style="list-style-type: none"> Concentration of CO in the emission during operation should be ≤ 300ppm.
		<ul style="list-style-type: none"> The thermal efficiency of the product should not be less than 60%.
F05	LPG water heater	Mandatory Requirement

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		<ul style="list-style-type: none"> LPG domestic instantaneous water heater with heat input not exceeding 70kW shall have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		Desirable Requirement
		<ul style="list-style-type: none"> NOx emission rate of 60mg/kWh or less should be met.
		<ul style="list-style-type: none"> CO emission level of 56ppm or less should be met.
F06	Refrigerator	Mandatory Requirement
		<ul style="list-style-type: none"> The equipment shall have obtained a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		<ul style="list-style-type: none"> No "Controlled Refrigerant", as defined under the Ozone Layer Protection (Controlled Refrigerants) Regulation, Cap 403 of Laws of Hong Kong shall be used in the equipment.
		Desirable Requirement
		<ul style="list-style-type: none"> The refrigerants and foaming agents used for the insulation of the appliance should have a global warming potential equal to or lower than 15 (rated as CO₂ equivalents over a period of 100 years).
		<ul style="list-style-type: none"> The product should not contain the following substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane and carbon tetrachloride).
		<ul style="list-style-type: none"> The following substances should not be used in the production of products: <ul style="list-style-type: none"> i. Phthalates ii. Elemental halogens (e.g. fluorine, chlorine, including in-situ precursors from halide salts) iii. APEO, their derivatives (APDs), or linear alkylbenzene sulphonates
F07	Room Air Cooler	Mandatory Requirement
		<ul style="list-style-type: none"> The equipment shall have obtained a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		<ul style="list-style-type: none"> The refrigerant used in the room air coolers shall be of non-CFCs type.
		Desirable Requirement
		<ul style="list-style-type: none"> The product should not contain the following substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane and carbon tetrachloride).
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
		F08
<ul style="list-style-type: none"> Concentration of NOx in the emission during operation should be ≤ 60ppm. 		
<ul style="list-style-type: none"> The thermal efficiency of the product should not be less than 60%. 		

		<ul style="list-style-type: none"> Corrugated cartons used in packaging should be made from recycled paper. 										
F09	Town Gas Water Heater	Mandatory Requirement										
		<ul style="list-style-type: none"> Domestic instantaneous gas water heater with heat input not exceeding 70kW shall have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD). 										
		Desirable Requirement										
		<ul style="list-style-type: none"> NOx emission rate of 60mg/kWh or less should be met. CO emission level of 56ppm or less should be met. 										
F10	Air Purifier / Cleaners	Desirable Requirement										
		<ul style="list-style-type: none"> The product should comply with international power consumption standard such as Energy Star. 										
		<ul style="list-style-type: none"> Ozone emission of the product should not exceed 0.01 ppm. 										
		<ul style="list-style-type: none"> Noise emissions: sound pressure level should satisfy the following requirements <table border="1" style="margin-left: 20px;"> <tr> <td>Air flow (m³/min)</td> <td><5</td> <td>5-10</td> <td>10-20</td> <td><20</td> </tr> <tr> <td>Sound Pressure Level [dB(A)]</td> <td><45</td> <td><50</td> <td><55</td> <td><60</td> </tr> </table>	Air flow (m ³ /min)	<5	5-10	10-20	<20	Sound Pressure Level [dB(A)]	<45	<50	<55	<60
		Air flow (m ³ /min)	<5	5-10	10-20	<20						
		Sound Pressure Level [dB(A)]	<45	<50	<55	<60						
		<ul style="list-style-type: none"> The product should have no short-chain chlorinated paraffin added as formulated components. 										
<ul style="list-style-type: none"> Plastic parts should not contain halogenated substances. 												
<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight 												
F11	Dehumidifier	Mandatory Requirement										
		<ul style="list-style-type: none"> The equipment with rated dehumidifying capacity not exceeding 35 litres per day shall have obtained a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD). 										
		Desirable Requirement										
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight 										
F12	Dish Washer	Desirable Requirement										
		<ul style="list-style-type: none"> The product should comply with international power consumption standard such as Energy Star. 										
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight 										

		<ul style="list-style-type: none"> vi. PBDEs: 0.1% by weight <ul style="list-style-type: none"> • The product should have no short-chain chlorinated paraffin added as formulated components. • Plastic parts should not contain halogenated substances. • Water consumption should not be more than 25 litres per normal wash cycle. • The product should have clear volumetric markings on the detergent dispenser to allow adjustment according to degree of soiling. • Airborne noise emission from the appliance, measured as sound power level, should not exceed 57 dB (A) on freestanding models and 51 dB (A) on built-in models.
F13	Electric Storage Water Heater	Mandatory Requirement
		<ul style="list-style-type: none"> • Water heater with storage capacity not exceeding 300 litres shall have obtained a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		Desirable Requirement
		<ul style="list-style-type: none"> • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
F14	Electronic Ballast for Fluorescent Tube / Lamp	Mandatory Requirement
		<ul style="list-style-type: none"> • The equipment shall have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		Desirable Requirement
		<ul style="list-style-type: none"> • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> • The minimum service life should be 50,000 lighting hours at the maximum permissible measuring-point temperature (tc) and under standard network conditions.
		<ul style="list-style-type: none"> • The electronic ballast should be easily dismantlable into case, insulating foil, printed circuit board and electrolyte-containing components to allow material-specific recycling. • Any plastic parts should be manufactured without chlorinated paraffins flame retardants. • Packaging requirements: <ul style="list-style-type: none"> i. Corrugated cartons used in packaging should be made from recycled paper ii. Plastic packaging should not contain PVC or other chlorine containing plastics
F15	Fluorescent Tube / Compact Fluorescent Lamp	Mandatory Requirement
		<ul style="list-style-type: none"> • The integrated compact fluorescent lamp up to 60W shall have obtained a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD). The non-integrated compact fluorescent lamp shall have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		Desirable Requirement
		<ul style="list-style-type: none"> • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight

		<ul style="list-style-type: none"> iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> • Colour Rendering Index (CRI) of at least 80.
		<ul style="list-style-type: none"> • Packaging requirements: <ul style="list-style-type: none"> i. Corrugated cartons used in packaging should be made from recycled paper ii. Plastic packaging should not contain PVC or other chlorine containing plastics
F16	LCD Projector	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The product should comply with international power consumption standard such as Energy Star. • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight • Any plastic parts should be manufactured without chlorinated paraffins flame retardants. • Plastic parts should not contain halogenated substances. • Packaging requirements: <ul style="list-style-type: none"> i. Corrugated cartons used in packaging should be made from recycled paper ii. Plastic packaging should not contain PVC or other chlorine containing plastics
F17	LED Lamp for Households and Offices (including LED exit sign)	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The LED lamp should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD). • The product should comply with international power consumption standard such as Energy Star. • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight • Colour Rendering Index (CRI) of at least 80. <p>The luminous efficacy of new LED should meet the following requirements:</p> <ul style="list-style-type: none"> i. Omni-directional lamp: Luminous efficacy (lm/W) for LED lamp power <10W should meet 50lm/W Luminous efficacy (lm/W) for LED lamp power ≥10W should meet 55lm/W ii. Directional lamp: Luminous efficacy (lm/W) for lamp diameter ≤ 20/8 inch should meet 40lm/W Luminous efficacy (lm/W) for lamp diameter ≥ 20/8 inch should meet 45lm/W
F18	Microwave Oven	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The product should comply with international power consumption standard such as Energy Star. • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight

		<ul style="list-style-type: none"> iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight <ul style="list-style-type: none"> • Any plastic parts should be manufactured without chloroparaffin flame retardants. • Plastic parts should not contain halogenated substances. • Packaging requirements: <ul style="list-style-type: none"> i. Corrugated cartons used in packaging should be made from recycled paper ii. Plastic packaging should not contain PVC or other chlorine containing plastics 						
F19	Television	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The equipment should have obtained a Grade 1 or 2 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD). • The product should comply with international power consumption standard such as Energy Star. • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight • The product should be capable, in default settings, of entering a low power-consumption mode (standby mode) automatically when the unit is inactive for 20 minutes. The power consumption at the standby mode should be less than 1 watt. • Packaging requirements: <ul style="list-style-type: none"> i. Corrugated cartons used in packaging should be made from recycled paper ii. Plastic packaging should not contain PVC or other chlorine containing plastics 						
F20	Vacuum Cleaner	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight • Any plastic parts should be manufactured without chloroparaffin flame retardants. • Plastic parts should not contain halogenated substances. • Noise emission of the product (sound pressure level or sound power level) should comply with the following requirements: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Class</th> <th>sound pressure level [dB(A)]</th> <th>sound power level [dB(A)]</th> </tr> </thead> <tbody> <tr> <td>Requirements</td> <td>≤65</td> <td>≤76</td> </tr> </tbody> </table> • Packaging requirements: <ul style="list-style-type: none"> i. Corrugated cartons used in packaging should be made from recycled paper ii. Plastic packaging should not contain PVC or other chlorine containing plastics 	Class	sound pressure level [dB(A)]	sound power level [dB(A)]	Requirements	≤65	≤76
Class	sound pressure level [dB(A)]	sound power level [dB(A)]						
Requirements	≤65	≤76						
F21	Washing Machine / Dryer	<p style="text-align: center;">Mandatory Requirement</p> <ul style="list-style-type: none"> • The washing machines / dryers shall have obtained a Grading Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD) and its Grading shall be Grade 2 or above with preference on Grade 1. • The washing machine shall have obtained a Grading Type Water Efficiency Label under the Water Efficiency Labelling Scheme of Water Supplies Department (WSD) and its Grading shall be Grade 2 or above with preference on Grade 1. 						

* For information, local testing and certification services, such as those accredited by Hong Kong Accreditation Service (link: <http://www.itc.gov.hk/en/quality/hkas/about.htm>), are available for verification of compliance of many of the green specifications.

		<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • For washing machines that have a rated washing capacity exceeding 7 kilograms (i.e. not regulated under the Energy Efficiency (Labelling of Products) Ordinance, Cap. 598), it should comply with international power consumption standard such as Energy Star. • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vii. PBDEs: 0.1% by weight • Airborne noise emission from the appliance, measured as sound power level, should not exceed 60 dB (A) during washing and 76 dB(A) during spinning. • Packaging requirements: <ul style="list-style-type: none"> i. Corrugated cartons used in packaging should be made from recycled paper ii. Plastic packaging should not contain PVC or other chlorine containing plastics
F22	Audio Equipment (stereo system)	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The product should comply with international power consumption standard such as Energy Star • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight • Any plastic parts should be manufactured without chlorinated paraffins flame retardants • Component parts should not contain halogenated substances
F23	Induction Cooker	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD) • Product components (coatings, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight • Any plastic parts should be manufactured without chlorinated paraffins flame retardants • Component parts should not contain halogenated substances
F24	Video Equipment (video players and recorders)	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The product should comply with international power consumption standard such as Energy Star • Product components (batteries, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight

		<ul style="list-style-type: none"> ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> • Any plastic parts should be manufactured without chlorinated paraffins flame retardants
		<ul style="list-style-type: none"> • Component parts should not contain halogenated substances
F25	Water Boilers	Desirable Requirement
		<ul style="list-style-type: none"> • The thermal efficiency of the boiler should be at least 80%
		<ul style="list-style-type: none"> • Product components (coatings, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> • Any plastic parts should be manufactured without chlorinated paraffins flame retardants
		<ul style="list-style-type: none"> • Component parts should not contain halogenated substances
		<ul style="list-style-type: none"> • Plastic parts and sealing materials that come into contact with drinking water should not release bisphenol A

Fuel Oils and Hydrocarbon Lubricants (Category Code – G)		
Product Code	Product Item	Recommended Green Specifications*
G01	Automotive Fuel Oil	Mandatory Requirement
		<ul style="list-style-type: none"> • The product shall meet the requirements specified in Air Pollution Control (Motor Vehicle Fuel) Regulation of Hong Kong.
		Desirable Requirement
		<ul style="list-style-type: none"> • The product should contain biodiesel: a fatty acid methyl ester content of 5% by volume in diesel.
G02	Lubricating Oil / Grease	Desirable Requirement
		<ul style="list-style-type: none"> • The product should preferably have recycled content.
		<ul style="list-style-type: none"> • High temperature water-resistant grease should be lead-free.
		<ul style="list-style-type: none"> • The product should contain less than: <ul style="list-style-type: none"> i. 5ppm total organic halides; ii. 1ppm PCBs; and iii. 5ppm each of benzo(a)pyrene and benzo(a)anthracene
G03	Fuel Oil for Non-road Based Applications	Mandatory Requirement
		<ul style="list-style-type: none"> • The product shall meet the requirements specified in Air Pollution Control (Motor Vehicle Fuel) Regulation of Hong Kong.
		Desirable Requirement

* For information, local testing and certification services, such as those accredited by Hong Kong Accreditation Service (link: <http://www.itc.gov.hk/en/quality/hkas/about.htm>), are available for verification of compliance of many of the green specifications.

		<ul style="list-style-type: none"> For diesel oil, the product should contain biodiesel: a fatty acid methyl ester content of not less than 5% by volume in diesel.
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Furniture (Category Code – H)		
Product Code	Product Item	Recommended Green Specifications*
H01	Chair	Desirable Requirement
		<ul style="list-style-type: none"> Requirements of wood materials The product should meet one of the following requirements: <ol style="list-style-type: none"> 40% of the wood material is from recycled/waste wood; or The wood material obtains sustainable forest management certification such as Forest Stewardship Council (FSC), PEFC (Programme for the Endorsement of Forest Certification schemes) or equivalent.
		<ul style="list-style-type: none"> Formaldehyde emission: All wood panels should be of Class E1 under EN13986 in respect of formaldehyde emission, and the requirements are as follows: <ol style="list-style-type: none"> MDF board : release $\leq 8\text{mg}/100\text{g}$ (by test method EN120) Plywood/solid wood/other panels : release $\leq 0.124\text{mg}/\text{m}^3$ air (by test method EN 717-1)
		<ul style="list-style-type: none"> The plastic component of the product should not contain any heavy metals and hazardous substances as listed below: <ol style="list-style-type: none"> Lead Chromium Cadmium Mercury Phthalates Halogenated organic substances
		<ul style="list-style-type: none"> Requirements of cushioning materials The formaldehyde emission of foam synthetic resin should be 30mg/kg (30ppm) or less.
		<ul style="list-style-type: none"> Requirements of the paint used on the surface of the chair The sum of lead, cadmium, mercury, and hexavalent chromium included in the paint should be below the weight percentage of 0.1 (1,000mg/kg).
H02	Mattress	Desirable Requirement
		<ul style="list-style-type: none"> The following requirements should be met for Latex foam: <ol style="list-style-type: none"> Heavy metals : <ul style="list-style-type: none"> ➤ copper < 2ppm ➤ chromium, nickel < 1ppm ➤ arsenic, lead, antimony, cobalt < 0.5ppm ➤ cadmium < 0.1ppm ➤ mercury < 0.02ppm ii. Extractable formaldehyde : < 30ppm iii. VOC : < 0.5mg/m³ iv. Metal complex dyes based on copper, lead, chromium or nickel should not be used v. Chlorophenols (salts and esters): < 0.1ppm; mono, di-chlorinated phenols (salts and esters) < 0.1ppm vi. Butadiene: < 1ppm vii. Nitrosamines: < 0.001mg/m³
		<ul style="list-style-type: none"> The following requirements should be met for Polyurethane (PUR) foam: <ol style="list-style-type: none"> Heavy metals : <ul style="list-style-type: none"> ➤ copper < 2ppm ➤ chromium and nickel < 1ppm ➤ arsenic, lead, antimony and cobalt < 0.5ppm ➤ cadmium < 0.1ppm ➤ mercury < 0.02ppm ii. Extractable formaldehyde : < 30ppm iii. VOC : < 0.5mg/m³ iv. Metal complex dyes based on copper, lead, chromium or nickel should not be used v. CFCs, HCFCs, HFCs, methylene chloride should not be used as blowing agents vi. Tin in organic form (tin bonded to a carbon atom) should not be used
		<ul style="list-style-type: none"> Glues used should not contain benzene and chlorobenzenes.

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		<ul style="list-style-type: none"> Cushioning material should not contain formaldehyde, aromatic hydrocarbons, phthalates, organic tins, cadmium, lead, hexavalent chromium, mercury and their compounds.
H03	Partition Screen	Mandatory Requirement
		<ul style="list-style-type: none"> Formaldehyde emission: All wood panels shall be of Class E1 under EN13986 in respect of formaldehyde emission, and the requirements are as follows: <ul style="list-style-type: none"> i. MDF board : release $\leq 8\text{mg}/100\text{g}$ (by test method EN120) ii. Plywood/solid wood/other panels : release $\leq 0.124\text{mg}/\text{m}^3$ air (by test method EN 717-1)
		Desirable Requirement
		<ul style="list-style-type: none"> The following substances should not be added during manufacturing: fluorine, pentachlorophenol (PCP), tar oils containing benzo(a)pyrene.
		<ul style="list-style-type: none"> Coatings / Treatments: Furniture and fittings products (or components) should not be impregnated, labelled, coated or otherwise treated in a manner which would prevent post consumer recycling.
		<ul style="list-style-type: none"> Packaging requirements: Chlorinated or halogenated plastics should not be used in product packaging. The product should not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Lead iv. Mercury
H04	Sofa	Desirable Requirement
		<ul style="list-style-type: none"> The wood materials of the product should preferably contain recovered/recycled wood. For virgin wood products, wood material is originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC].
		<ul style="list-style-type: none"> Requirements of cushioning and filling materials <ul style="list-style-type: none"> i. Halogenated flame retardants should not be added ii. Organic bleaching agent should not be used in production iii. Dye stuff should not contain lead, tin, cadmium, hexavalent chromium and mercury
		<ul style="list-style-type: none"> Packaging requirements: Chlorinated or halogenated plastics should not be used in product packaging.
		<ul style="list-style-type: none"> The plastic component of the product should not contain any heavy metals and hazardous substances as listed below: <ul style="list-style-type: none"> i. Lead ii. Chromium iii. Cadmium iv. Mercury v. Phthalates vi. Halogenated organic substances
H05	Steel Filing Cabinet	Desirable Requirement
		<ul style="list-style-type: none"> Colour coating should not contain: <ul style="list-style-type: none"> i. Formaldehyde or halogenated solvent ii. Any heavy metallic substances such as mercury, lead, cadmium, chromium or their oxide iii. Aromatic hydrocarbon including solvents of thinner toluene or xylene iv. Volatile organic compounds (VOCs) over 250g/litre
		<ul style="list-style-type: none"> The compound of 1, 1, 1-trichloroethane should not be used for the surface preparing process.
H06	Workstation Panel	Mandatory Requirement
		<ul style="list-style-type: none"> Formaldehyde emission: All wood panels shall be of Class E1 under EN13986 in respect of formaldehyde emission, and the requirements are as follows: <ul style="list-style-type: none"> i. MDF board : release $\leq 8\text{mg}/100\text{g}$ (by test method EN120) ii. Plywood/solid wood/other panels : release $\leq 0.124\text{mg}/\text{m}^3$ air (by test method EN 717-1)
		Desirable Requirement
		<ul style="list-style-type: none"> The following substances should not be added during manufacturing: fluorine, pentachlorophenol (PCP), tar oils containing benzo(a)pyrene. Coatings / Treatments: Furniture and fittings products (or components) should not be impregnated, labelled, coated or otherwise treated in a manner which would prevent post consumer recycling.

		<ul style="list-style-type: none"> • Packaging requirements: Chlorinated or halogenated plastics should not be used in product packaging. • The product should not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Lead iv. Mercury
H07	Metal Furniture	Desirable Requirement
		<ul style="list-style-type: none"> • Colour coating should not contain: <ul style="list-style-type: none"> i. Formaldehyde or halogenated solvent ii. Any heavy metallic substances such as mercury, lead, cadmium, chromium or their compounds • The plastic component of the product should not contain any heavy metals and hazardous substances as listed below: <ul style="list-style-type: none"> i. Lead ii. Chromium iii. Cadmium iv. Mercury v. Phthalates vi. Halogenated organic substances
		<ul style="list-style-type: none"> • It should be possible to separate the metals from other materials in the product without the use of special tools. This requirement does not apply to metals used in surface treatments.
H08	Wooden Furniture	Desirable Requirement
		<ul style="list-style-type: none"> • The wood materials of the product should preferably contain recovered/recycled wood. For virgin wood products, wood material is originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC]. • Formaldehyde emission: All wood panels should be of Class E1 under EN13986 in respect of formaldehyde emission, and the requirements are as follows: <ul style="list-style-type: none"> i. MDF board: <ul style="list-style-type: none"> ≤8mg/100g of free formaldehyde content (by test method EN120) or release ≤0.124mg/m³ air (by test method EN 717-1); ii. Plywood/solid wood/other panels: <ul style="list-style-type: none"> ≤ 4mg/100g of free formaldehyde content (by test method EN120) or release ≤ 0.124mg/m³ air (by test method EN 717-1).
		<ul style="list-style-type: none"> • The following substances should not be added during manufacturing: fluorine, pentachlorophenol (PCP), tar oils containing benzo(a)pyrene.
		<ul style="list-style-type: none"> • The product should not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Lead iv. Mercury
H09	Outdoor Furniture	Desirable Requirement
		<ul style="list-style-type: none"> • Wood material or fibre should be derived from recycled content or from sustainably managed forest which is certified by internationally recognised standard [e.g. Forest Stewardship Council (FSC), Programme for the Endorsement of Forest Certification (PEFC) or equivalent] • If the product contains wooden panels, the panels should be of Class E1 under EN13986 in respect of formaldehyde emission, and the requirements are as follows: <ul style="list-style-type: none"> i. MDF board : <ul style="list-style-type: none"> ≤5mg/100g of free formaldehyde content (by test method EN120) or release ≤0.124mg/m³ air (by test method EN 717-1);or ii. Plywood/solid wood/other panels: <ul style="list-style-type: none"> ≤ 4mg/100g of free formaldehyde content (by test method EN120) or release ≤ 0.07 mg/m³ air (by test method EN 717-1)
		<ul style="list-style-type: none"> • The product (coatings, sealants, additives, wooden, metal or plastic parts) should not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Hexavalent chromium iv. Lead

		<ul style="list-style-type: none"> v. Mercury vi. Nickel vii. Tin
		<ul style="list-style-type: none"> • The product should not contain the following substances: <ul style="list-style-type: none"> i. Pentachlorophenol (PCP) ii. Phthalates iii. Halogenated organic substances iv. Reactive or organic chlorinated compounds (e.g. sodium hypochlorite) v. Tar oils containing benzo(a)pyrene
		<ul style="list-style-type: none"> • It should be possible to separate the metals from other materials in the product without the use of special tools. This requirement does not apply to metals used in surface treatments.

General Stores and General Services (Category Code – I)

Product Code	Product Item	Recommended Green Specifications*
I01	Mobile plastic waste containers	Desirable Requirement
		<ul style="list-style-type: none"> • The percentage of recycled plastic materials in the finished products should be at least 20% by weight of the plastic used
		<ul style="list-style-type: none"> • The product should have no flame retardant of polybrominated biphenyl (PBB), polybrominated diphenyl ether (PBDE) or short-chain chlorinated paraffin added as formulated components
		<ul style="list-style-type: none"> • The product should not contain phthalates
		<ul style="list-style-type: none"> • The product should be marked with an appropriate plastic resin identification code
		<ul style="list-style-type: none"> • The levels of the following hazardous substances as impurities should not exceed: <ul style="list-style-type: none"> i. Arsenic: 50 ppm ii. Cadmium: 20 ppm iii. Hexavalent chromium: 100 ppm iv. Lead: 100 ppm v. Mercury: 10 ppm vi. Selenium: 20 ppm
I02	Stainless Steel Recyclables Collection Bins	Desirable Requirement
		<ul style="list-style-type: none"> • The product (coatings, sealants, additives, metal or plastic parts) should not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Hexavalent chromium iv. Lead v. Mercury vi. Nickel vii. Tin

Household Goods (Category Code – J)

Product Code	Product Item	Recommended Green Specifications*
J01	Bag / Backpack	Desirable Requirement
		<ul style="list-style-type: none"> • The product should preferably contain recycled materials, for example, recycled textile fiber.

* For information, local testing and certification services, such as those accredited by Hong Kong Accreditation Service (link: <http://www.itc.gov.hk/en/quality/hkas/about.htm>), are available for verification of compliance of many of the green specifications.

		<ul style="list-style-type: none"> Each material type (e.g. buttons, zipper, buckles, reflectors, plastic emblems, metal parts) should not contain lead, cadmium or nickel. Also, plastic parts must not contain phthalates or consist of chlorinated plastic. 																
		<ul style="list-style-type: none"> The product should not include polyvinyl chloride (PVC) material. 																
		<ul style="list-style-type: none"> The levels of ionic impurities for pigments used should not exceed the following: <table border="1"> <thead> <tr> <th>Items</th> <th>Levels of ionic impurities</th> </tr> </thead> <tbody> <tr> <td>Arsenic</td> <td>50 ppm</td> </tr> <tr> <td>Cadmium</td> <td>50 ppm</td> </tr> <tr> <td>Chromium</td> <td>100 ppm</td> </tr> <tr> <td>Lead</td> <td>100 ppm</td> </tr> <tr> <td>Mercury</td> <td>25 ppm</td> </tr> </tbody> </table>	Items	Levels of ionic impurities	Arsenic	50 ppm	Cadmium	50 ppm	Chromium	100 ppm	Lead	100 ppm	Mercury	25 ppm				
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Chromium	100 ppm																	
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		<ul style="list-style-type: none"> The levels of ionic impurities for dyes used should not exceed the following: <table border="1"> <thead> <tr> <th>Items</th> <th>Levels of ionic impurities</th> </tr> </thead> <tbody> <tr> <td>Arsenic</td> <td>50 ppm</td> </tr> <tr> <td>Cadmium</td> <td>20 ppm</td> </tr> <tr> <td>Chromium</td> <td>100 ppm</td> </tr> <tr> <td>Cobalt</td> <td>500 ppm</td> </tr> <tr> <td>Copper</td> <td>250 ppm</td> </tr> <tr> <td>Lead</td> <td>100 ppm</td> </tr> <tr> <td>Mercury</td> <td>4 ppm</td> </tr> </tbody> </table>	Items	Levels of ionic impurities	Arsenic	50 ppm	Cadmium	20 ppm	Chromium	100 ppm	Cobalt	500 ppm	Copper	250 ppm	Lead	100 ppm	Mercury	4 ppm
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Cobalt	500 ppm																	
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Lead	100 ppm																	
Mercury	4 ppm																	
		<ul style="list-style-type: none"> Azo dyes should not be used. 																
J02	Glove for Field Work [polythene (disposable), rubber (industrial), white cotton]	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> For polythene (disposable) and rubber (industrial) gloves: The product should not be impregnated, labelled, coated or otherwise treated in a manner which would prevent post consumer recycling. 																

Office Equipment (Category Code – K)		
Product Code	Product Item	Recommended Green Specifications*
K01	Facsimile Equipment	Desirable Requirement
		<ul style="list-style-type: none"> The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		<ul style="list-style-type: none"> The product should comply with international power consumption standard such as Energy Star.
		<ul style="list-style-type: none"> Any plastic parts should be manufactured without chloroparaffin flame retardants.
		<ul style="list-style-type: none"> Component parts should not contain halogenated substances.
		<ul style="list-style-type: none"> Should not cause an ambient ozone concentration in excess of 0.04mg/m³.
		<ul style="list-style-type: none"> Should not cause a dust concentration in excess of 0.25mg/m³.
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight

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K02	Photocopier	Desirable Requirement
		<ul style="list-style-type: none"> The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
		<ul style="list-style-type: none"> The product should comply with international power consumption standard such as Energy Star.
		<ul style="list-style-type: none"> Any plastic parts should be manufactured without chlorinated paraffins flame retardants.
		<ul style="list-style-type: none"> Component parts should not contain halogenated substances.
		<ul style="list-style-type: none"> Should not cause an ambient ozone concentration in excess of 0.04mg/m³.
		<ul style="list-style-type: none"> Should not cause a dust concentration in excess of 0.25mg/m³.
K03	Fire Extinguisher	Desirable Requirement
		<ul style="list-style-type: none"> The product should not use halon or its compounds as the fire extinguishing agent.
		<ul style="list-style-type: none"> Fire extinguishing agents should comply with the following maximum allowable concentrations of heavy metals: <ol style="list-style-type: none"> Cadmium (Cd) < 0.003 mg/L Copper (Cu) < 2 mg/L Lead (Pb) < 0.01 mg/L Mercury (Hg) < 0.006 mg/L Zinc (Zn) < 3 mg/L
		<ul style="list-style-type: none"> Plastic materials used for packaging should not contain halogenated polymers.
K04	Paper Shredder	Desirable Requirement
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> Any plastic parts should be manufactured without chlorinated paraffins flame retardants.
K05	Hot / Cold Bottled Water Dispensers	<ul style="list-style-type: none"> Component parts should not contain halogenated substances.
		Desirable Requirement
		<ul style="list-style-type: none"> The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).
K05	Hot / Cold Bottled Water Dispensers	<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> Any plastic parts should be manufactured without chlorinated paraffins flame retardants.
		<ul style="list-style-type: none"> Component parts should not contain halogenated substances.

Packaging Materials (Category Code – L)		
Product Code	Product Item	Recommended Green Specifications*
L01	Food Packaging - Plastic Films	Desirable Requirement
		<ul style="list-style-type: none"> The product should not contain or be manufactured with: <ol style="list-style-type: none"> phthalates; halogenated organic compounds; compounds containing mercury, lead, cadmium, arsenic or hexavalent chromium; and any chemicals that are included in the International Agency for Research on Cancer (IARC) lists for proven (Group 1), probable (Group 2A), or possible (Group 2B) carcinogens
L02	Packaging Paper	Desirable Requirement
		<ul style="list-style-type: none"> The fibre source of the product should meet one of the following: <ol style="list-style-type: none"> A minimum of 50% recycled content with at least 20% of post-consumer fibre by weight; or For virgin wood fibers, fibre is originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC or equivalent]
		<ul style="list-style-type: none"> The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ol style="list-style-type: none"> Elemental chlorine; and Halogenated bleaching agents that produce elemental halogens in-situ
		<ul style="list-style-type: none"> Surfactant used in pulp/paper production, if necessary, should be biodegradable
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents
		<ul style="list-style-type: none"> Colorants (pigments or dyes) containing mercury, lead, cadmium or hexavalent chromium compounds as constituents should not be used
L03	Plastic Films and Sheets	Desirable Requirement
		<ul style="list-style-type: none"> The product should preferably have recycled content
		<ul style="list-style-type: none"> The product should not contain intentionally added heavy metals of lead, mercury, cadmium and hexavalent chromium, excepting those added as result of using recycled content, the sum of which shall not exceed 100 ppm by weight

Paper for Printing and Photocopying (Category Code – M)		
Product Code	Product Item	Recommended Green Specifications*
M01	Continuous Stationery for Computer-generated Form	Desirable Requirement
		<ul style="list-style-type: none"> The product should contain 50% of recovered/recycled fibre, including a minimum of 30% of postconsumer materials.
M02	Photocopying Recycled Paper	Mandatory Requirement
		<ul style="list-style-type: none"> The paper shall contain at least 80% recovered fibre or at least 40% postconsumer fibre by weight
		<ul style="list-style-type: none"> Paper packing (paper wrapper and carton box) shall be made from 100% recovered fibre by weight. Shall obtain a copy of forestry label(s) or certification(s) of Forest Stewardship Council (FSC) or Programme for the Endorsement of Forestry Certification (PEFC) awarded to the brand product offered or the manufacturer.#

Updated in Nov 2018.

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		<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine ii. Halogenated bleaching agents that produce elemental halogens in-situ iii. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives • Surfactant used in pulp/paper production, if necessary, preferably is biodegradable. • The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents. • The product should not be manufactured with dyes, pigments or coatings that contain phthalates, mercury, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts. • Chemical Oxygen Demand (COD) in water discharge during pulp and paper production preferably is less than 20kg/tonne of paper produced.
M03	Recycled Paper for Printing	<p style="text-align: center;">Mandatory Requirement</p> <ul style="list-style-type: none"> • Shall obtain a copy of forestry label(s) or certification(s) of Forest Stewardship Council (FSC) or Programme for the Endorsement of Forestry Certification (PEFC) awarded to the brand product offered or the manufacturer.#
		<p style="text-align: center;">Desirable Requirement</p>
		<ul style="list-style-type: none"> • The fibre source of the product should consist of a minimum of 80% recovered fibre, including a minimum of 40% postconsumer fibre by weight.
		<ul style="list-style-type: none"> • Paper packing (paper wrapper and carton box) should be made from 100% recovered fibre by weight.
		<ul style="list-style-type: none"> • The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine ii. Halogenated bleaching agents that produce elemental halogens in-situ iii. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives
		<ul style="list-style-type: none"> • Surfactant used in pulp/paper production, if necessary, preferably is biodegradable.
		<ul style="list-style-type: none"> • The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents.
		<ul style="list-style-type: none"> • The product should not be manufactured with dyes, pigments or coatings that contain phthalates, mercury, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.
		<ul style="list-style-type: none"> • Chemical Oxygen Demand (COD) in water discharge during pulp and paper production preferably is less than 20kg/tonne of paper produced. • Pallet packing material should not contain chlorine-based plastics.
M04	Woodfree Photocopying Paper	<p style="text-align: center;">Mandatory Requirement</p>
		<ul style="list-style-type: none"> • The paper pulp shall be made from sustainably managed forests and materials with recycled content are preferable.
		<ul style="list-style-type: none"> • Paper packing (paper wrapper and carton box) shall be made from 100% recovered fibre by weight.
		<ul style="list-style-type: none"> • Shall obtain a copy of forestry label(s) or certification(s) of Forest Stewardship Council (FSC) or Programme for the Endorsement of Forestry Certification (PEFC) awarded to the brand product offered or the manufacturer.#
		<p style="text-align: center;">Desirable Requirement</p>
<ul style="list-style-type: none"> • The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine ii. Halogenated bleaching agents that produce elemental halogens in-situ iii. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives 		
<ul style="list-style-type: none"> • Surfactant used in pulp/paper production, if necessary, preferably is biodegradable. 		

Updated in Nov 2018.

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		<ul style="list-style-type: none"> The product should not be manufactured with dyes, pigments or coatings that contain lead, copper, chromium, nickel, aluminium or cadmium as constituent parts. The manufacturer should have implemented a sound environmental, and/or management system and are adhering to sound environmental, and/or energy management practices at the production facility. Chemical Oxygen Demand (COD) in water discharge during pulp and paper production preferably is less than 20kg/tonne of paper produced.
M05	Printing Paper Coated on Both Sides	Mandatory Requirement
		<ul style="list-style-type: none"> Shall obtain a copy of forestry label(s) or certification(s) of Forest Stewardship Council (FSC) or Programme for the Endorsement of Forestry Certification (PEFC) awarded to the brand product offered or the manufacturer.#
		Desirable Requirement
		<ul style="list-style-type: none"> The fibre source of the product should consist of a minimum of 80% recovered fibre, including a minimum of 40% postconsumer fibre by weight. Paper packing (paper wrapper and carton box) should be made from 100% recovered fibre by weight. The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine ii. Halogenated bleaching agents that produce elemental halogens in-situ iii. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives Surfactant used in pulp/paper production, if necessary, preferably is biodegradable. The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents. The product should not be manufactured with dyes, pigments or coatings that contain phthalates, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts. Chemical Oxygen Demand (COD) in water discharge during pulp and paper production preferably is less than 20kg/tonne of paper produced. Plastic packing, if applicable, should be made from chlorine free plastics.
M06	Woodfree Printing Paper	Mandatory Requirement
		<ul style="list-style-type: none"> Shall obtain a copy of forestry label(s) or certification(s) of Forest Stewardship Council (FSC) or Programme for the Endorsement of Forestry Certification (PEFC) awarded to the brand product offered or the manufacturer.#
		Desirable Requirement
		<ul style="list-style-type: none"> The paper pulp should be made from sustainably managed forests and materials with recycled content are preferable. Paper packing (paper wrapper and carton box) should be made from 100% recovered fibre by weight. The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine ii. Halogenated bleaching agents that produce elemental halogens in-situ iii. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives Surfactant used in pulp/paper production, if necessary, preferably is biodegradable. The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents. The product should not be manufactured with dyes, pigments or coatings that contain lead as constituent parts. The manufacturer should have implemented a sound environmental, and/or management system and are adhering to sound environmental, and/or energy management practices at the production facility. Chemical Oxygen Demand (COD) in water discharge during pulp and paper production preferably is less than 20kg/tonne of paper produced.

Updated in Nov 2018.

Paper Products other than for Printing and Photocopying (Category Code – N)			
Product Code	Product Item	Recommended Green Specifications*	
N01	Brown Wrapping Paper	Desirable Requirement	
		<ul style="list-style-type: none"> The product should consist of a minimum of 30% recovered fibre, including a minimum of 25% postconsumer fibre by weight. 	
		<ul style="list-style-type: none"> The wood pulp should be derived from sustainably managed forests. 	
N02	Toilet paper & Paper Towel	Mandatory Requirement	
		Toilet Paper in Rolls	
		<ul style="list-style-type: none"> The toilet paper must contain by weight 100% recovered fibre and that recovered fibre must contain not less than 60% postconsumer fibre. 	
		<ul style="list-style-type: none"> Bleaching agent used in pulp/paper production, if necessary, must not contain chlorine. 	
		<ul style="list-style-type: none"> Surfactant used in pulp/paper production, if necessary, must be biodegradable. 	
		<ul style="list-style-type: none"> The core and carton box packing must be made from 100% recovered fibre. 	
		Paper Towel (Manifold)	
		<ul style="list-style-type: none"> Contains by weight 100% recovered fibre and that recovered fibre must contain not less than 60% postconsumer fibre. 	
		<ul style="list-style-type: none"> Bleaching agent used in pulp/paper production, if necessary, must not contain chlorine. 	
		<ul style="list-style-type: none"> Surfactant used in pulp/paper production, if necessary, must be biodegradable. 	
		<ul style="list-style-type: none"> Packing: carbon box must be made of 100% recovered fibre. 	
		Jumbo Roll Toilet Paper	
		<ul style="list-style-type: none"> The toilet paper must contain by weight 100% recovered fibre and that recovered fibre must contain not less than 60% postconsumer fibre. 	
		<ul style="list-style-type: none"> Bleaching agent used in pulp/paper production, if necessary, must not contain chlorine. 	
		<ul style="list-style-type: none"> Surfactant used in pulp/paper production, if necessary, must be biodegradable. 	
		<ul style="list-style-type: none"> The core and carton box packing must be made of 100% recovered fibre. 	
		Hand Roll Paper Towel	
		<ul style="list-style-type: none"> The paper towel must contain by weight 100% recovered fibre and that recovered fibre must contain not less than 60% postconsumer fibre. 	
		<ul style="list-style-type: none"> Bleaching agent used in pulp/paper production, if necessary, must not contain chlorine. 	
		<ul style="list-style-type: none"> Surfactant used in pulp/paper production, if necessary, must be biodegradable. 	
		<ul style="list-style-type: none"> The core and carton box packing must be made of 100% recovered fibre. 	
		Desirable Requirement	
		Toilet Paper in Rolls	
<ul style="list-style-type: none"> The product should not be formulated or manufactured with optical brighteners. 			
<ul style="list-style-type: none"> Packing: To be packed in strong cartons made from 100% recovered fibre, and should be with 100 rolls in each carton. The cartons must be strong enough for storage and transit. 			
Paper Towel (Manifold)			
<ul style="list-style-type: none"> The product should not be formulated or manufactured with optical brighteners. 			
Jumbo Roll Toilet Paper			
<ul style="list-style-type: none"> The product should not be formulated or manufactured with optical brighteners. 			
Hand Roll Paper Towel			
<ul style="list-style-type: none"> The product should not be formulated or manufactured with optical brighteners. 			
N03	Index Card (paper)	Desirable Requirement	
		<ul style="list-style-type: none"> The product should contain 50% of recovered/recycled fibre, including a minimum of 30% of postconsumer materials. 	
N04	Compostable Paper Bag	Desirable Requirement	
		<ul style="list-style-type: none"> The product should contain a minimum of 40% recycled fibre by weight, including a minimum of 20% postconsumer fibre. 	
		<ul style="list-style-type: none"> The product should be biodegradable. 	

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N05	Notepad	Desirable Requirement
		<ul style="list-style-type: none"> • The fibre source of the product should meet one of the following requirements: <ul style="list-style-type: none"> i. A minimum of 50% recycled content with at least 20% postconsumer fibre by weight; or ii. For virgin fibre products, fibre is originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC or equivalent]; or iii. For mixed fibre products, at least 70% of the total fibre should be a combination of recycled content, waste wood or certified sustainable source
		<ul style="list-style-type: none"> • The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine; ii. Halogenated bleaching agents that produce elemental halogens in-situ; and iii. Non-biodegradable complexing agents such as ethylenediamine tetraacetic acid (EDTA) or its derivatives
		<ul style="list-style-type: none"> • Surfactant used in pulp/paper production, if necessary, should be biodegradable
		<ul style="list-style-type: none"> • The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents
		<ul style="list-style-type: none"> • For product with recycled content, the product and their packaging should bear a label reading "Made of XX% Recycled Paper"
N06	Printed Labels	Desirable Requirement
		<ul style="list-style-type: none"> • The fibre source of the product should meet one of the following: <ul style="list-style-type: none"> i. A minimum of 50% recycled content with at least 20% of post-consumer fibre by weight; or ii. For virgin wood fibers, fibre is originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC or equivalent]
		<ul style="list-style-type: none"> • The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine; and ii. Halogenated bleaching agents that produce elemental halogens in-situ
		<ul style="list-style-type: none"> • The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents
		<ul style="list-style-type: none"> • The adhesives should not contain alkylphenol ethoxylates (APEOs), phthalates, halogenated solvents or ethylene glycol ethers

Plastic and Rubber Products (Category Code – O)		
Product Code	Product Item	Recommended Green Specifications*
O01	Garbage Collection Bin	Desirable Requirement
		<ul style="list-style-type: none"> • The product should contain at least 25% recycled plastic content.
		<ul style="list-style-type: none"> • The product should be marked with an appropriate plastic resin identification code.
		<ul style="list-style-type: none"> • The product should not contain cadmium and lead.
O02	Plastic Garbage Bag	Desirable Requirement
		<p style="text-align: center;">Garbage bags for collecting non-recyclable waste for disposal at landfills</p> <ul style="list-style-type: none"> • The product should be made from at least 50% of recycled plastics content, including a minimum of 30% post-consumer or post-industrial material.
		<ul style="list-style-type: none"> • The product should be made of materials that are degradable.
		<ul style="list-style-type: none"> • The product should be marked with an appropriate plastic resin identification code.

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		<p>Garbage bags for collecting organic waste for anaerobic digestion:</p> <ul style="list-style-type: none"> Should be at least 60% biodegradation within 180 days according to HS2001 biodegradability test or equivalent. The product should be marked with an appropriate plastic resin identification code. <p>Garbage bags for collecting non-recyclable waste for waste-to-energy MSW treatment</p> <ul style="list-style-type: none"> The product should be made from at least 50% of recycled plastics content, including a minimum of 30% post-consumer or post-industrial material.
O03	Plastic Bags (other uses)	<p>Desirable Requirement</p> <p>For plastic bags with recycled contents:</p> <ul style="list-style-type: none"> It should contain a minimum of 30% by weight of recycled plastic. The product should be marked with an appropriate plastic resin identification code. <p>For plastic bags which are degradable:</p> <ul style="list-style-type: none"> Should be at least 60% biodegradation within 180 days according to HS2001 biodegradability test or equivalent.
O04	Traffic Bollard	<p>Mandatory Requirement</p> <ul style="list-style-type: none"> The product shall contain a minimum of 50% by weight of recycled or recovered plastic materials against the total weight of plastic contained in the product. The percentage of recycled plastic content must be stated. <p>Desirable Requirement</p> <ul style="list-style-type: none"> The product should be marked with an appropriate plastic resin identification code. The following substances should not be added during manufacturing processes: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Chromium iv. Lead v. Mercury vi. Tin (including organic tin catalysts or stabilizers) vii. Fluorine viii. Chlorine ix. Pentachlorophenol (PCP) x. Tar oils (benzo(a)pyrene) The recycled plastic product (or component) should not be impregnated, labelled, coated or otherwise treated in a manner which would prevent post-consumer recycling. Exemption may be made for products with a long product life where a coating or treatment would further extend the useful life of the product. If 1,3-butadiene is used in latex, rubber or foams, its concentration should be less than 1mg/kg. Chlorinated or halogenated plastics should not be used in product packaging. Used packaging should be able to be recycled by local recycling systems.
O05	General Plastic Products	<p>Desirable Requirement</p> <ul style="list-style-type: none"> The product should contain a minimum of 25% by weight of recycled or recovered plastic materials against the total weight of plastic contained in the product. The product should be marked with an appropriate plastic resin identification code. The following substances should not be added during manufacturing processes: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Chromium iv. Copper v. Lead vi. Mercury vii. Tin (including organic tin catalysts or stabilizers) viii. Fluorine ix. Chlorine x. Pentachlorophenol (PCP) xi. Tar oils (benzo(a)pyrene)
O06	General Rubber Products	<p>Desirable Requirement</p> <ul style="list-style-type: none"> The product should not contain the following substances:

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		<ul style="list-style-type: none"> i. Halogenated organic solvents or binding agents ii. Elemental halogens (e.g. fluorine, chlorine, including in-situ precursors from halide salts) iii. Fluoropolymer additives or coatings iv. Aniline based amines v. Phthalates vi. Aziridine or polyaziridines vii. Pigments and additives that contain lead, tin, arsenic, cadmium, mercury or their compounds viii. CFCs, HCFCs, HFCs or any ozone depleting substances ix. PBDEs, or chlorinated organic flame retardants x. 1,3-butadiene
		<ul style="list-style-type: none"> • The product should contain a minimum of 30% by weight of recycled or recovered rubber materials against the total weight of plastic contained in the product.
		<ul style="list-style-type: none"> • The recycled rubber product (or component) should not be impregnated, labeled, coated or otherwise treated in a manner which would prevent further post-consumer recycling.

Printing and Publishing Supplies (Category Code – P)

Product Code	Product Item	Recommended Green Specifications*
P01	Environment-friendly Lithographic Process Inks	Mandatory Requirement
		<ul style="list-style-type: none"> • The ink shall comply with the VOC limits for regulated printing inks stipulated in the Air Pollution Control (VOC) Regulation of Hong Kong.
		<ul style="list-style-type: none"> • The ink shall contain a minimum of 20% vegetable or soybean oil in its compositions.
		Desirable Requirement
		<ul style="list-style-type: none"> • The product should not be formulated with pigments based on compounds of antimony, arsenic, cadmium, hexavalent chromium, lead, mercury and selenium.
		<ul style="list-style-type: none"> • The product should not be formulated with <ul style="list-style-type: none"> i. Phthalates ii. Halogenated solvents iii. Aromatic hydrocarbons at concentrations exceeding 1% in total by weight
		<ul style="list-style-type: none"> • Methanol should not be used, except in industrial methylated spirits at most 5%.
		<ul style="list-style-type: none"> • Inks should not use hydroquinone and formaldehyde or they should not have potentials to release formaldehyde during use.
		<ul style="list-style-type: none"> • The product should not exceed the following VOC and mineral oil content levels: <ul style="list-style-type: none"> i. Water-based inks: VOC < 5%; mineral oil content = 0% ii. Sheetfed offset inks: VOC < 3%; mineral oil content < 1% iii. Heatset web offset inks: VOC < 25%; mineral oil content < 25% iv. Coldset web offset and letterpress inks: VOC < 4%; mineral oil content < 25% v. Ultraviolet cured inks: VOC < 2%; mineral oil content = 0%
		<ul style="list-style-type: none"> • Solvents should not exceed 10% by weight.
		<ul style="list-style-type: none"> • Ink containers should be recyclable.

Shoes and Boots (Category Code – Q)

Product Code	Product Item	Recommended Green Specifications*
Q01	Rainboot	Desirable Requirement
		<ul style="list-style-type: none"> • The rainboot should contain at least 20% recycled plastics or rubber.
		<ul style="list-style-type: none"> • The amount of formaldehyde of the footwear should not exceed 75 mg/kg.
Q02	Safety Boot / Shoe	Desirable Requirement
		<ul style="list-style-type: none"> • The footwear should contain recycled content. The blending ratio of recycled material should satisfy any of the following requirements:

* For information, local testing and certification services, such as those accredited by Hong Kong Accreditation Service (link: <http://www.itc.gov.hk/en/quality/hkas/about.htm>), are available for verification of compliance of many of the green specifications.

Material classification	Recycled material	Reference compounding ratio (mass%) in main material of uppers or soles
Textiles	Post-/Pre-consumer polymer recycled fibers, chemical recycled fibers	More than 40%
	Organically grown cotton	100%
Plastics	Recycled plastics	More than 20%
Rubber	Recycled rubber	More than 20%
<ul style="list-style-type: none"> The product should not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> i. Arsenic ii. Cadmium iii. Hexavalent chromium iv. Lead The product should not contain Pentachlorophenol (PCP), Tetrachlorophenol (TCP) and its salts and esters. Halogenated compounds such as PVC should not be used for producing plastic parts weighing 25g or more. Recycled PVC can be used for outsoles however. The amount of formaldehyde of the footwear should not exceed the following limits: <ul style="list-style-type: none"> i. textile: 75 mg/kg ii. leather: 150 mg/kg The levels of dimethylformamide (DMF) should not exceed 0.1 mg/kg. 		

Stationery and Office Supplies (Category Code – R)		
Product Code	Product Item	Recommended Green Specifications*
R01	Adhesive Tape and Tape Dispenser	Desirable Requirement
		Adhesive tape:
		<ul style="list-style-type: none"> The adhesives used in the adhesive coating layers should not contain organic solvents. The product should not contain detectable phthalate plasticizers.
		<ul style="list-style-type: none"> The product should comply with the following maximum allowable concentrations of hazardous substances: <ul style="list-style-type: none"> i. Antimony: < 60 mg/kg by weight ii. Arsenic: < 25 mg/kg by weight iii. Cadmium: < 75 mg/kg by weight iv. Hexavalent chromium: < 60 mg/kg by weight v. Lead: < 90 mg/kg by weight vi. Selenium: < 500 mg/kg by weight Adhesive tape core should preferably made of recycled paper or recycled plastic materials.
		Adhesive tape dispenser
		<ul style="list-style-type: none"> The product should contain at least 25% recycled plastic content. The product should not contain PVC or other chlorine-containing plastics. The product should be marked with an appropriate resin identification code to ease recycling.
R02	Correction Fluid and Thinner	Mandatory Requirement
		<ul style="list-style-type: none"> The product shall not contain ozone depleting substance regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane, carbon tetrachloride). The product shall comply with EN71 Part 3 latest version or equivalent.
R03	File Box	Mandatory Requirement
		<ul style="list-style-type: none"> The box shall be made of hard and stiff cardboard containing a minimum of 50% recycled paper fibre.

* For information, local testing and certification services, such as those accredited by Hong Kong Accreditation Service (link: <http://www.itc.gov.hk/en/quality/hkas/about.htm>), are available for verification of compliance of many of the green specifications.

		<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • For virgin fibre products, fibre should be originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC]. • The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine ii. Halogenated bleaching agents that produce elemental halogens in-situ iii. Optical brighteners iv. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives
R04	General Office Stationery	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The product should comprise more than 25% of recycled raw materials (particularly for the constituent paper fibre and plastics) of the total product weight. • The product should not be manufactured with dyes, pigments or coatings that contain mercury, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts. • The product should not contain alkylphenol ethoxylates (APEOs), phthalates or halogenated solvents.
R05	Ink / Toner Cartridge	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The recycling percentage of recovered toner cartridge parts should be over 95% of the total product weight (excluding the toner). • Any plastic parts are manufactured without the following halogenated flame retardants: poly-brominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs) and chlorinated paraffins. • The toners should not contain azo colourants (dyes or colour pigments) that can release carcinogenic substances. • The product supplier should provide collection, recycling and delivery services to various government departments. • Paper packaging, if applicable, should contain recycled paper content with at least 50% recovered fibre content by weight. • Packaging material should contain information on recycling channel/method. • The product should not contain any materials containing mercury, cadmium, lead, nickel or hexavalent chromium compounds as constituent parts.
R06	Self-stick Note-pad	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The fibre source of the product should consist of a minimum of 25% recycled post consumer fibre. • For virgin fibre products, at least 25% should be originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC]. • The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine ii. Halogenated bleaching agents that produce elemental halogens in-situ iii. Optical brighteners iv. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives • The product should not be manufactured with dyes, pigments or coatings that contain mercury, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts. • The product should not contain alkylphenol ethoxylates (APEOs), phthalates, halogenated solvents or ethylene glycol ethers as adhesives.
R07	Paper Envelope	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> • The fibre source of the product should consist of a minimum of 30% recovered fibre by weight and that recovered fibre should contain not less than 30% post consumer fibre. • For virgin fibre products, at least 25% should be originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC]. • The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine ii. Halogenated bleaching agents that produce elemental halogens in-situ iii. Optical brighteners

		<ul style="list-style-type: none"> iv. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives • The product should not contain alkylphenol ethoxylates (APEOs), phthalates, halogenated solvents or ethylene glycol ethers as adhesives. • The product should not be manufactured with dyes, pigments or coatings that contain mercury, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.
R08	Paper File Jacket	Mandatory Requirement
		<ul style="list-style-type: none"> • Covers shall be made of hard and stiff cardboard containing a minimum of 50% recovered fibre by weight.
		Desirable Requirement
		<ul style="list-style-type: none"> • For virgin fibre products, at least 25% should be originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC]. • The product should not be manufactured with dyes, pigments or coatings that contain mercury, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts. • The product should not contain alkylphenol ethoxylates (APEOs), phthalates, halogenated solvents or ethylene glycol ethers as adhesives. • The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine ii. Halogenated bleaching agents that produce elemental halogens in-situ iii. Optical brighteners iv. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives
R09	Pen	Mandatory Requirement
		<p>White Board Marking Pen</p> <ul style="list-style-type: none"> • Toxic elements for surface coating and ink must comply with EN71 Part 3:2013 or latest version.
		Desirable Requirement
		<p>Pen</p> <ul style="list-style-type: none"> • Should comply with EN71 Part 3:2013 or latest version. • The product should use refillable ink or refills, and such refill products should be available. • The ink should not contain volatile organic solvent, aromatic or halogenated hydrocarbons. • Bio-accumulable preservatives should not be used.
R10	Pencil	Mandatory Requirement
		<ul style="list-style-type: none"> • The pencil barrel shall be made of recycled fibre or materials • Colour paint used must be non-toxic.
		Desirable Requirement
		<ul style="list-style-type: none"> • No heavy metals in the dye of graphite. • The pencil lead should not contain aromatic or halogenated hydrocarbons. • Bio-accumulable preservatives should not be used.
R11	Plastic File Jacket	Mandatory Requirement
		<ul style="list-style-type: none"> • For file jacket with plastics laminated and welded paper cardboard and 2-ring spring mechanism, the cardboard must be hard and stiff and containing at least 50% recovered fibre which should contain a minimum of 50% postconsumer fibre.
		Desirable Requirement
		<ul style="list-style-type: none"> • The product should be marked with an appropriate plastic resin identification code. • For file with clear pockets, it should contain a minimum of 30% plastics recycled material by weight, as a proportion of total plastic content. • The sum of total of lead, cadmium, mercury, and hexavalent chromium in the product should not be greater than 100 mg/kg.

R12	Rechargeable Battery	Mandatory Requirement
		<ul style="list-style-type: none"> The heavy metal content of the entire battery shall not exceed the limits given below: <ol style="list-style-type: none"> Cadmium: ≤ 20 ppm Lead: ≤ 40 ppm Mercury: ≤ 5 ppm
		Desirable Requirement
R13	Standard / Alkaline Dry Battery	Mandatory Requirement
		<ul style="list-style-type: none"> The heavy metal content of the entire battery shall not exceed the limits given below: <ol style="list-style-type: none"> Cadmium: ≤ 10 ppm Lead: ≤ 40 ppm Mercury: ≤ 1 ppm
		Desirable Requirement
R14	Calculators	Desirable Requirement
		<ul style="list-style-type: none"> Solar cell calculators should ensure full functioning at a minimum luminal flux of 50 lux or lower. The product should not contain organic halogen compounds (e.g. polychlorinated biphenyls) as flame retardants. Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ol style="list-style-type: none"> Lead: 0.1% by weight Cadmium: 0.01% by weight Mercury: 0.1% by weight Hexavalent chromium: 0.1% by weight PBBs: 0.1% by weight PBDEs: 0.1% by weight
		Desirable Requirement
R15	Correction Tapes	Desirable Requirement
		<ul style="list-style-type: none"> The plastic part of the product should contain a minimum of 25% of recycled plastic material. The product should use refillable materials which are readily available. The product should not contain the following substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane, carbon tetrachloride).
		Desirable Requirement
R16	Glue/ Adhesive	Desirable Requirement
		<ul style="list-style-type: none"> The product should not contain alkylphenol ethoxylates (APEOs), phthalates, halogenated solvents or bioaccumulative preservatives. Adhesive products should not contain more than 5% by weight of Volatile Organic Compounds (VOCs). The product should comply with the following maximum allowable concentrations of hazardous substances: <ol style="list-style-type: none"> Cadmium: ≤ 0.5 mg/kg Hexavalent chromium: ≤ 0.5 mg/kg Lead: ≤ 50.0 mg/kg Mercury: ≤ 0.5 mg/kg
		Desirable Requirement
R17	Ink for Stamp Pad	Desirable Requirement
		<ul style="list-style-type: none"> Ink and dye used should not contain aromatic hydrocarbons and halogenated solvent. Toxic elements for ink should comply with EN71 Part 3:2013 or latest version. The product should not be formulated with pigments based on compounds of antimony, arsenic, cadmium, hexavalent chromium, lead, mercury, nickel, and selenium. The product should not be formulated or manufactured with phthalate plasticizers. The product should contain less than 5% and 30% of volatile organic compounds (VOCs) for water-based and solvent-based inks respectively.
		Desirable Requirement
		Desirable Requirement
		Desirable Requirement

R18	Pre-inked Stamp	Desirable Requirement
		<ul style="list-style-type: none"> Ink and dye used should not contain aromatic hydrocarbons and halogenated solvent.
		<ul style="list-style-type: none"> Toxic elements for ink should comply with EN71 Part 3:2013 or latest version.
		<ul style="list-style-type: none"> The product should not be formulated with pigments based on compounds of antimony, arsenic, cadmium, hexavalent chromium, lead, mercury, nickel, and selenium.
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with phthalate plasticizers.
		<ul style="list-style-type: none"> The plastic part of the product should contain a minimum of 25% of recycled plastic material.
R19	Carton Boxes	Desirable Requirement
		<ul style="list-style-type: none"> The product should be made of paper fibre with 100% recycled content
		<ul style="list-style-type: none"> The product should not be manufactured with the use of the following bleaching agents at any stage in the production/processing of fibre: <ul style="list-style-type: none"> i. Elemental chlorine; and ii. Halogenated bleaching agents that produce elemental halogens in-situ
		<ul style="list-style-type: none"> Colorants (pigments or dyes) containing mercury, lead, cadmium or hexavalent chromium compounds as constituents should not be used
		<ul style="list-style-type: none"> The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents

Telecommunication Equipment and Spares (Category Code – S)

Product Code	Product Item	Recommended Green Specifications*
S01	Key Telephone System	Desirable Requirement
		<ul style="list-style-type: none"> Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> The product should comply with international power consumption standards such as Energy Star.
		<ul style="list-style-type: none"> The supplier should preferably provide product take-back/ recycling services to government departments at the end of life of the product.
S02	Mobile Phone	Desirable Requirement
		<ul style="list-style-type: none"> Product components (circuit boards, batteries, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> The product should not contain beryllium oxide.
		<ul style="list-style-type: none"> The outer casing and surface coating of the product should not contain nickel.
		<ul style="list-style-type: none"> Any plastic parts should be manufactured without chlorinated paraffins flame retardants.

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S03	Radio Communication System	Desirable Requirement
		<ul style="list-style-type: none"> • Product components (circuit boards, batteries, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> • Any plastic parts should be manufactured without chlorinated paraffins flame retardants.
		<ul style="list-style-type: none"> • Component parts should not contain halogenated substances.
		<ul style="list-style-type: none"> • The heavy metal content in the rechargeable battery should not exceed the limits given below: <ul style="list-style-type: none"> i. Cadmium: ≤ 20 ppm ii. Lead: ≤ 40 ppm iii. Mercury: ≤ 5 ppm
		<ul style="list-style-type: none"> • The supplier should preferably provide product take-back/ recycling services to government departments at the end of life of the product.
S04	Radio Paging Equipment	Desirable Requirement
		<ul style="list-style-type: none"> • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> • Component parts should not contain halogenated substances.
		<ul style="list-style-type: none"> • Any plastic parts should be manufactured without chlorinated paraffins flame retardants.
		<ul style="list-style-type: none"> • The supplier should preferably provide product take-back/ recycling services to government departments at the end of life of the product.
S05	Radio Transceiver	Desirable Requirement
		<ul style="list-style-type: none"> • Product components (circuit boards, electrical, electronic and plastic components) should comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> i. Lead: 0.1% by weight ii. Cadmium: 0.01% by weight iii. Mercury: 0.1% by weight iv. Hexavalent chromium: 0.1% by weight v. PBBs: 0.1% by weight vi. PBDEs: 0.1% by weight
		<ul style="list-style-type: none"> • The levels of the following hazardous substances in the rechargeable battery should not exceed the following: <ul style="list-style-type: none"> i. Lead: 40 ppm ii. Cadmium: 20 ppm iii. Mercury: 5 ppm
		<ul style="list-style-type: none"> • The supplier should preferably provide product take-back/ recycling services to government departments at the end of life of the product.
S06	Telephone Battery	Desirable Requirement
		<ul style="list-style-type: none"> • The levels of the following hazardous substances in the rechargeable battery should not exceed the following: <ul style="list-style-type: none"> i. Lead ≤ 15 ppm ii. Cadmium ≤ 5 ppm iii. Mercury ≤ 5 ppm

Textile Materials and Garment (Category Code – T)																
Product Code	Product Item	Recommended Green Specifications*														
T01	Clothing and Textile Products	Desirable Requirement														
		<ul style="list-style-type: none"> The product should preferably contain recycled textile fiber materials. 														
		<ul style="list-style-type: none"> The levels of ionic impurities for pigments used should not exceed the following: <table border="1"> <thead> <tr> <th>Items</th> <th>Levels of ionic impurities</th> </tr> </thead> <tbody> <tr> <td>Arsenic</td> <td>50 ppm</td> </tr> <tr> <td>Cadmium</td> <td>50 ppm</td> </tr> <tr> <td>Chromium</td> <td>100 ppm</td> </tr> <tr> <td>Lead</td> <td>100 ppm</td> </tr> <tr> <td>Mercury</td> <td>25 ppm</td> </tr> </tbody> </table>	Items	Levels of ionic impurities	Arsenic	50 ppm	Cadmium	50 ppm	Chromium	100 ppm	Lead	100 ppm	Mercury	25 ppm		
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Mercury	25 ppm															
<ul style="list-style-type: none"> The levels of ionic impurities for dyes used should not exceed the following: <table border="1"> <thead> <tr> <th>Items</th> <th>Levels of ionic impurities</th> </tr> </thead> <tbody> <tr> <td>Arsenic</td> <td>50 ppm</td> </tr> <tr> <td>Cadmium</td> <td>20 ppm</td> </tr> <tr> <td>Chromium</td> <td>100 ppm</td> </tr> <tr> <td>Cobalt</td> <td>500 ppm</td> </tr> <tr> <td>Copper</td> <td>250 ppm</td> </tr> <tr> <td>Lead</td> <td>100 ppm</td> </tr> <tr> <td>Mercury</td> <td>4 ppm</td> </tr> </tbody> </table>	Items	Levels of ionic impurities	Arsenic	50 ppm	Cadmium	20 ppm	Chromium	100 ppm	Cobalt	500 ppm	Copper	250 ppm	Lead	100 ppm	Mercury	4 ppm
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Arsenic	50 ppm															
Cadmium	20 ppm															
Chromium	100 ppm															
Cobalt	500 ppm															
Copper	250 ppm															
Lead	100 ppm															
Mercury	4 ppm															
<ul style="list-style-type: none"> Azo dyes should not be used. 																
<ul style="list-style-type: none"> For products which contact the skins directly, the levels of formaldehyde should not exceed 75 ppm. 																
T02	Textile Bag (nylon, canvas and gunny bag)	Desirable Requirement														
		<ul style="list-style-type: none"> The product should preferably contain recycled textile fiber materials. 														
		<ul style="list-style-type: none"> The product should not include polyvinyl chloride (PVC) material. 														
		<ul style="list-style-type: none"> The sum of lead, mercury, cadmium, and hexavalent chromium should not exceed 100 parts per million (ppm) by weight. 														
		<ul style="list-style-type: none"> Azo dyes should not be used. 														

Transportation Services (Category Code – U)		
Product Code	Product Item	Recommended Green Specifications*
U01	Hiring of Light Goods Vehicles	Desirable Requirement
		<ul style="list-style-type: none"> The vehicle hired in carrying out the service should be registered on or after 1 January 2007 which meets EURO IV Standard.
U02	Hiring of Lorries	Desirable Requirement
		<ul style="list-style-type: none"> The vehicle hired in carrying out the service should be registered on or after 1 June 2012 which meets EURO V Standard.
U03	Hiring of Saloon Cars	Desirable Requirement
		<ul style="list-style-type: none"> The vehicle hired in carrying out the service should be registered on or after 1 June 2012 which meets EURO V Standard.
U04	Hiring of 20-30 and 40-61 Seater Coaches	Desirable Requirement
		<ul style="list-style-type: none"> The vehicle hired in carrying out the service should be registered on or after 1 June 2012 which meets EURO V Standard.

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Vehicles and Spare Parts (Category Code – V)		
Product Code	Product Item	Recommended Green Specifications*
V01	Environment-friendly Vehicles (private/commercial vehicles)	Mandatory Requirement
		<ul style="list-style-type: none"> The emissions of the driving engine of the vehicle shall meet the Environmental Protection Department's qualifying standards for tax incentive scheme for environment-friendly petrol private cars or commercial vehicles.
		Desirable Requirement
		<ul style="list-style-type: none"> Should be hybrid or electric vehicles.
V02	Light Bus	Mandatory Requirement
		<ul style="list-style-type: none"> The emissions of the driving engine of the vehicle shall meet the Environmental Protection Department's qualifying standards for tax incentive scheme for environment-friendly petrol private cars or commercial vehicles.
		Desirable Requirement
		<ul style="list-style-type: none"> Shall use LPG fuel or it should be hybrid or electric vehicles.
V03	Rubber / Retreaded Tyre	Desirable Requirement
		<ul style="list-style-type: none"> Tyres should contain at least 5% recycled rubber by weight, as a proportion of total content of rubber compound..
		<ul style="list-style-type: none"> The following compounds should not be added to the finished products: <ol style="list-style-type: none"> Halogenated organic solvents or binding agents Elemental halogens (e.g. fluorine, chlorine, including in-situ precursors from halide salts) Fluoropolymer additives or coatings Aniline based amines Phthalates Aziridine or polyaziridines Pigments and additives that contain lead, tin, arsenic, cadmium, mercury or their compounds CFCs, HCFCs, HFCs or any ozone depleting substances PBDEs, or chlorinated organic flame retardants 1,3-butadiene

Water using equipment (Category Code – W)		
Product Code	Product Item	Recommended Green Specifications*
W01	Showers for Bathing	Mandatory Requirement
		<ul style="list-style-type: none"> The product shall meet the Grade 1 water efficiency rating (i.e. nominal flow rate of less than or equal to 9 litres per minute) for Showers for Bathing of the Voluntary Water Efficiency Labelling Scheme (WELS) of Water Supplies Department
		Desirable Requirement
		<ul style="list-style-type: none"> Product and their packaging materials should be recyclable in nature which do not contain heavy metals like lead, cadmium, mercury or hexavalent chromium, and should not contain organically bound halogens
W02	Urinal equipment	Mandatory Requirement
		<ul style="list-style-type: none"> The product shall meet the Grade 1 water efficiency rating for Urinal Equipment of the Voluntary Water Efficiency Labelling Scheme (WELS) of Water Supplies Department, unless product with other water efficiency ratings is required to meet particular functional purpose

* For information, local testing and certification services, such as those accredited by Hong Kong Accreditation Service (link: <http://www.itc.gov.hk/en/quality/hkas/about.htm>), are available for verification of compliance of many of the green specifications.

		<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> Product and their packaging materials should be recyclable in nature which do not contain heavy metals like lead, cadmium, mercury or hexavalent chromium, and should not contain organically bound halogens
W03	Water taps	<p style="text-align: center;">Mandatory Requirement</p> <ul style="list-style-type: none"> The product shall meet the Grade 1 water efficiency rating for Water Taps of the Voluntary Water Efficiency Labelling Scheme (WELS) of Water Supplies Department, unless product with other water efficiency ratings is required to meet particular functional purpose
		<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> Product and their packaging materials should be recyclable in nature which do not contain heavy metals like lead, cadmium, mercury or hexavalent chromium, and should not contain organically bound halogens
W04	Water Saving Flushing Boxes and Cisterns	<p style="text-align: center;">Desirable Requirement</p> <ul style="list-style-type: none"> The toilet should be dual-flush type, and the maximum flushing-water volume should meet the following requirements: <ul style="list-style-type: none"> i. Less than 3 litres per reduce flush ii. Less than 6 litres per full flush
		<ul style="list-style-type: none"> Product and their packaging materials should be recyclable in nature which do not contain heavy metals like lead, cadmium, mercury or hexavalent chromium, and should not contain organically bound halogens

Glossary:

ACPI: Advanced Configuration and Power Interface

AFCS: The Australian Forest Certification Scheme

AOX: Adsorbable Organic Halogens

APDs: Alkylphenol derivatives

APEO: Alkylphenol ethoxylates

ASTM: American Society for Testing and Materials

BBP: Benzylbutylphthalate

BS: British Standards

BS 3761: Specification for solvent-based paint remover

CFCs: Chlorofluorocarbons

CFR: Code of Federal Regulations

Cl: Chlorine

CO: Carbon monoxide

COD: Chemical Oxygen Demand

CRI: Colour Rendering IndexdB(A): decibel (A-weighted measurements)

DBP: Dibutyl phthalate

DDT: Dichlorodiphenyltrichloroethane

DEHP: Bis(2-ethylhexyl)phthalate

DHTDMAC: Di(hardened tallow) dimethyl ammonium chloride

DIN EN ISO 15320:2004: Pulp, paper and board - Determination of pentachlorophenol in an aqueous extract

DMF: Dimethylformate

DSDMAC: Distearyl dimethyl ammonium chloride

DTDMAC: Bis(hydrogenated tallow alkyl) dimethyl ammonium chloride

DTPA: Diethylene triamine penta acetate

EDTA: Ethylene Diamine Tetraacetate

EN: European Standards

EN71 part 3: Safety of toys — Part 3: Migration of certain elements

EN120: Wood based panels. Determination of formaldehyde content. Extraction method called the perforator method

EN717-1: Wood-based panels - Determination of formaldehyde release - Part 1: Formaldehyde emission by the chamber method

FSC: Forest Stewardship Council

HCFCs: Hydrochlorofluorocarbons

HFCs: Hydrofluorocarbons

HS2001: HS2001 Biodegradability Test

ISO: International Organization for Standardization

ISO 14001: Environmental management systems -- Requirements with guidance for use

LAS: Linear alkylbenzene sulfonates

LED: Light-emitting diode

lm: Lumen

lux: illuminance

MDF board: Medium-density fibreboard

NOx: Mono-nitrogen oxides (i.e., nitrogen (II) oxide and nitrogen (IV) oxide)

OECD: Organisation for Economic Co-operation and Development

PBBs: Polybrominated biphenyls

PBDEs: Polybrominated diphenyl ethers

PCBs: Polychlorinated biphenyls

PCP: Pentachlorophenol

ppm: Parts-per-million

PVC: polyvinyl chloride

RoHS: the Restriction of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations

TBT: Tributyltin

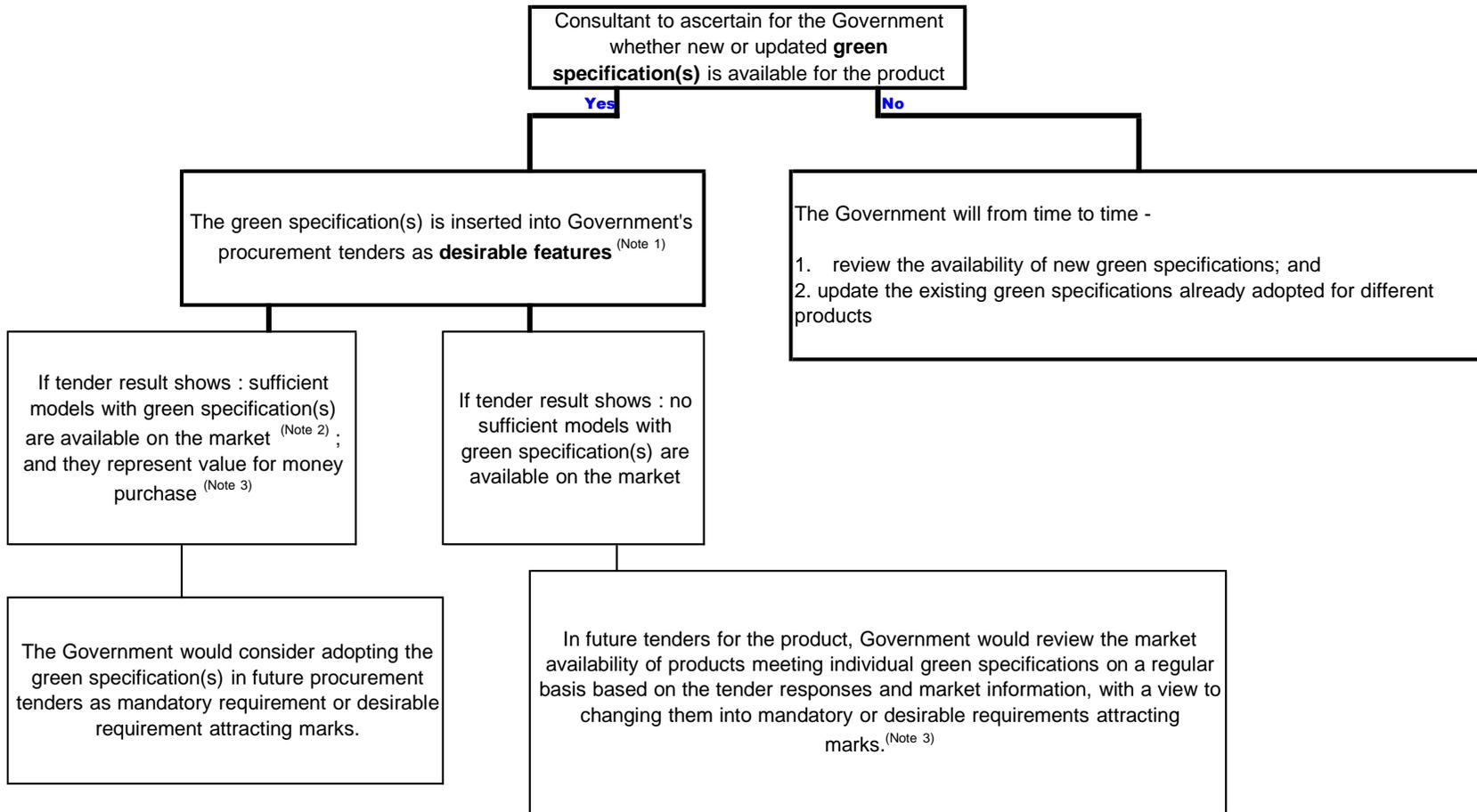
TVOCs: Total Volatile Organic Compounds (TVOCs)

TPT: Triphenyltin

USEPA: United States Environmental Protection Agency

VOC: Volatile organic compounds

Flow chart showing existing green procurement mechanism



Note 1 Desirable features mean the preferable features in a product. Under normal circumstances, the green features will not be taken into account in the tender assessment. But if there are two or more lowest conforming offers which are identical in all other respects and only one desirable specification such as a green feature, an offer meeting the “desirable” specification may be given preference. The intention should be spelt out clearly in the tender document.

Note 2 Each case has to be considered on its own merits and there is no fixed number on what constitutes adequate supply in each case. Nonetheless, if there are less than three models meeting the specifications for that product, generally GLD would consider that there is not yet an adequate supply of that product with green specifications.

Note 3 GLD usually assesses whether it is economically rational to procure a product with green specifications on a case by case basis and would take into account other factors such as whether there is policy support for such procurement. Consideration may also be given to adopting a marking scheme with appropriate weighting the green features against the price offered.

List of item categories

Cat. Code	Category	Product Code	Product Item
A	Agriculture and horticulture	A01	Garden machinery (lawn mowers)
		A02	Pest control (termiticide)
		A03	Fertilizers / Compost
B	Building and construction supplies	B01	Flooring materials
		B02	PVC pipe and fitting
		B03	Solvent-based / Water-based paint for building finish
		B04	Carpet
		B05	Safety helmet
		B06	Adhesives and sealants
		B07	Concrete
		B08	Timber doors
		B09	Gypsum plasterboard
		B10	Concrete paving units (use of recycled aggregates only)
		B11	Photovoltaic panel
		B12	Asphalt pavement
		B13	Fill materials
		B14	Non-structural Steel Work
		B15	Sub-base materials
		B16	Rubber mat for playground
		B17	Thermal insulation
		B18	Ceramic tiles
		B19	Varnish and wax polish
		B20	Windows
		B21	Wood panels
C	Cleansing products	C01	All purpose cleaners
		C02	Laundry detergent /soap
		C03	Sanitary detergent
		C04	Soap toilet liquid
		C05	Cleaning rags and cotton waste
		C06	Disinfectant
		C07	Deodorants

		C08	Detergents for dishwashers
		C09	Hand soaps
D	Computer equipment and products	D01	Desktop computer
		D02	LCD monitor
		D03	Network products (including LAN switches, routers, cables, etc.)
		D04	Notebook computer
		D05	Printer
		D06	Server
		D07	All-in-one multifunctional devices
		D08	Scanner
E	Distilled water	E01	Water carboy for water dispenser
F	Electrical and gas appliances and light fittings	F01	Domestic exhaust fan
		F02	Electric fan
		F03	Electric radiator (oil filled)
		F04	LPG hot plate
		F05	LPG water heater
		F06	Refrigerator
		F07	Room air cooler
		F08	Town gas cooker
		F09	Town gas water heater
		F10	Air purifier /cleaners
		F11	Dehumidifier
		F12	Dish washer
		F13	Electric storage water heater
		F14	Electronic ballast for fluorescent tube / lamp
		F15	Fluorescent tube / Compact fluorescent lamp
		F16	LCD projector
		F17	LED lamp for households and offices (including LED exit sign)
		F18	Microwave oven
		F19	Television
		F20	Vacuum cleaner
		F21	Washing machine / Dryer
		F22	Audio equipment (stereo system)
		F23	Induction cookers

		F24	Video equipment (video players & recorders)
		F25	Water boilers
G	Fuel oils and hydrocarbon lubricants	G01	Automotive fuel oil
		G02	Lubricating oil / grease
		G03	Fuel oil for non-road based applications
H	Furniture	H01	Chair
		H02	Mattress
		H03	Partition screen
		H04	Sofa
		H05	Steel filing cabinet
		H06	Workstation panel
		H07	Metal furniture
		H08	Wooden furniture
		H09	Outdoor furniture (chair,table & bench)
I	General stores and general services	I01	Mobile plastic waste containers
		I02	Stainless steel recyclables collection bins
J	Household goods	J01	Bag / Backpack
		J02	Glove for field work (polythene, disposable) (rubber, industrial) (white cotton)
K	Office equipment	K01	Facsimile equipment
		K02	Photocopier
		K03	Fire extinguisher
		K04	Paper shredder
		K05	Hot / Cold bottled water dispensers
L	Packaging materials	L01	Food packaging- plastic films
		L02	Packaging paper
		L03	Plastic films and sheets
M	Paper for printing and photocopying	M01	Continuous stationery for computer-generated form
		M02	Photocopying recycled paper
		M03	Recycled paper for printing
		M04	Woodfree photocopying paper
		M05	Printing paper coated on both sides
		M06	Woodfree printing paper
N	Paper products other than for printing and photocopying	N01	Brown wrapping paper
		N02	Toilet paper & paper towel

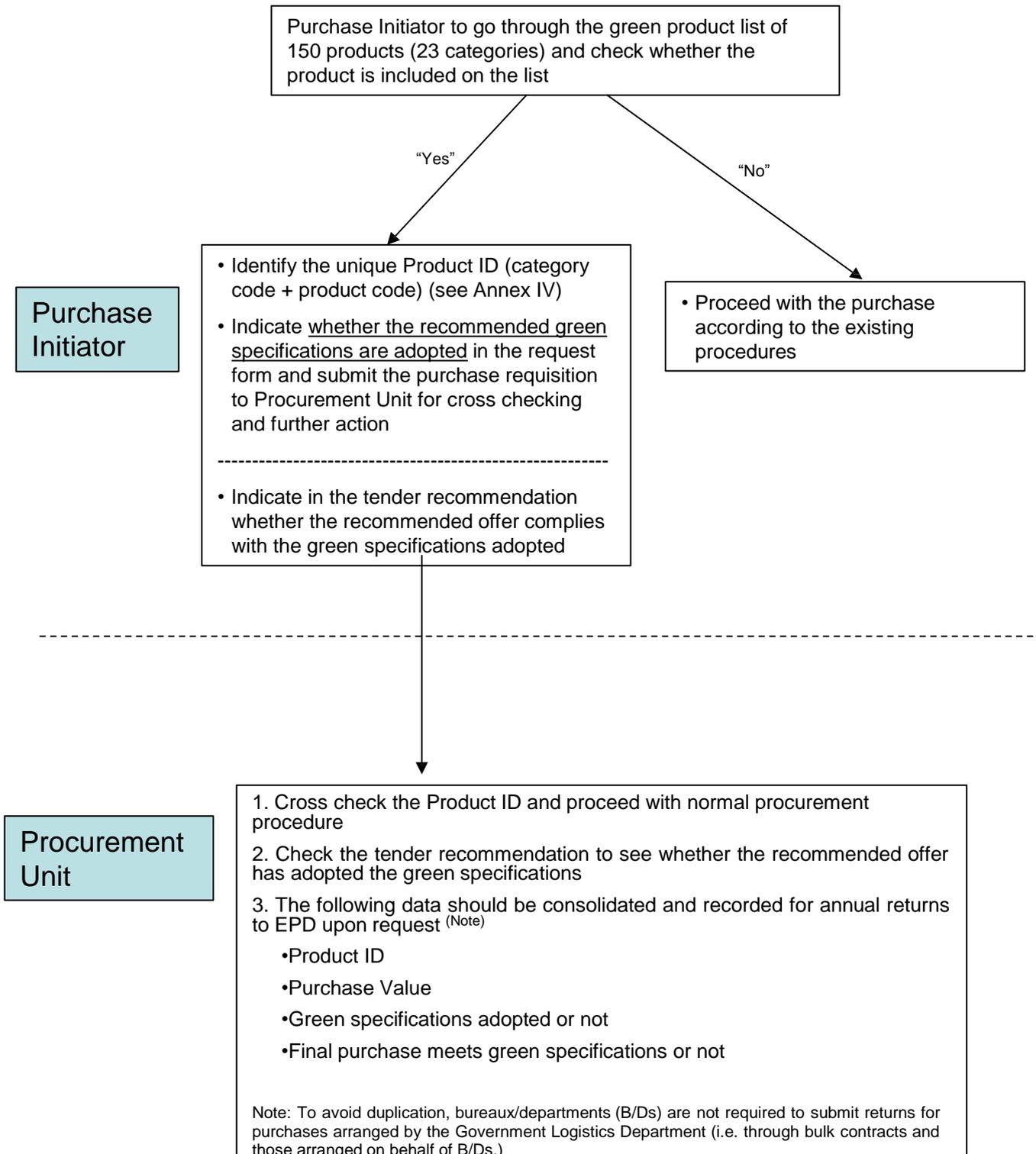
		N03	Index card (paper)
		N04	Compostable paper bag
		N05	Notepad
		N06	Printed labels
O	Plastic and rubber products	O01	Garbage collection bin
		O02	Plastic garbage bag
		O03	Plastic bags (other uses)
		O04	Traffic bollard
		O05	General plastic products
		O06	General rubber products
P	Printing and publishing supplies	P01	Environment-friendly lithographic process inks
Q	Shoes and boots	Q01	Rainboot
		Q02	Safety boot / shoe
R	Stationery and office supplies	R01	Adhesive tape & tape dispenser
		R02	Correction fluid and thinner
		R03	File box
		R04	General office stationery
		R05	Ink / Toner cartridge
		R06	Self-stick note pad
		R07	Paper envelope
		R08	Paper file jacket
		R09	Pen
		R10	Pencil
		R11	Plastic file jacket
		R12	Rechargeable battery
		R13	Standard / Alkaline dry battery
		R14	Calculator
		R15	Correction tape
		R16	Glue / Adhesive
		R17	Ink for stamp pad
		R18	Pre-inked stamp
		R19	Carton boxes
S	Telecommunication equipment and spares	S01	Key telephone system
		S02	Mobile phone
		S03	Radio communication system

		S04	Radio paging equipment
		S05	Radio transceiver
		S06	Telephone battery
T	Textile materials and garment	T01	Clothing and textile products
		T02	Textile bag (nylon, canvas and gunny bag)
U	Transportation services	U01	Hiring of light goods vehicles
		U02	Hiring of lorries
		U03	Hiring of saloon cars
		U04	Hiring of 20-30 & 40-61 seater coaches
V	Vehicles and spare parts	V01	Environment-friendly vehicles (private/commercial vehicles)
		V02	Light bus
		V03	Rubber / Retreaded tyre
W	Water using equipment	W01	Showers for bathing
		W02	Urinal equipment
		W03	Water taps
		W04	Water saving flushing boxes and cisterns



New categories or products

Proposed Purchase Procedure



Template for Reporting Green Procurement to EPD

To: EPD (Fax: 2574 6571; e-mail: dkkchan@epd.gov.hk); please provide last calendar year's return by end of February of each year¹

From: Bureau/Department: _____ Contact: _____
 Tel: _____ E-mail: _____

Cat. Code	Category	Product Code	Product Item	Value of purchases with green specifications (at least one) adopted (HK\$)	Value of purchases without green specifications (HK\$)
A	Agriculture and horticulture	A01	Garden machinery (lawn mowers)		
		A02	Pest control (termiticide)		
		A03	Fertilizers / Compost		
B	Building and construction supplies	B01	Flooring materials		
		B02	PVC pipe and fitting		
		B03	Solvent-based / Water-based paint for building finish		
		B04	Carpet		
		B05	Safety helmet		
		B06	Adhesives and sealants		
		B07	Concrete		
		B08	Timber doors		
		B09	Gypsum plasterboard		
		B10	Concrete paving units (use of recycled		
		B11	Photovoltaic panel		
		B12	Asphalt pavement		
		B13	Fill materials		
		B14	Non-structural Steel Work		

¹ To avoid duplication, bureaux/departments are not required to submit returns for purchases arranged by GLD (i.e. through bulk contracts and those arranged on behalf of B/Ds by GLD).

Cat. Code	Category	Product Code	Product Item	Value of purchases with green specifications (at least one) adopted (HK\$)	Value of purchases without green specifications (HK\$)
		B15	Sub-base materials		
		B16	Rubber mat for playground		
		B17	Thermal insulation		
		B18	Ceramic tiles		
		B19	Varnish and wax polish		
		B20	Windows		
		B21	Wood panels		
C	Cleansing products	C01	All purpose cleaners		
		C02	Laundry detergent /soap		
		C03	Sanitary detergent		
		C04	Soap toilet liquid		
		C05	Cleaning rags and cotton waste		
		C06	Disinfectant		
		C07	Deodorants		
		C08	Detergents for dishwashers		
		C09	Hand soaps		
D	Computer equipment and products	D01	Desktop computer		
		D02	LCD monitor		
		D03	Network products (including LAN switches, routers, cables, etc.)		
		D04	Notebook computer		
		D05	Printer		
		D06	Server		
		D07	All-in-one multifunctional devices		

Cat. Code	Category	Product Code	Product Item	Value of purchases with green specifications (at least one) adopted (HK\$)	Value of purchases without green specifications (HK\$)
		D08	Scanner		
E	Distilled water	E01	Water carboy for water dispenser		
F	Electrical and gas appliances and light fittings	F01	Domestic exhaust fan		
		F02	Electric fan		
		F03	Electric radiator (oil filled)		
		F04	LPG hot plate		
		F05	LPG water heater		
		F06	Refrigerator		
		F07	Room air cooler		
		F08	Town gas cooker		
		F09	Town gas water heater		
		F10	Air purifier /cleaners		
		F11	Dehumidifier		
		F12	Dish washer		
		F13	Electric storage water heater		
		F14	Electronic ballast for fluorescent tube / lamp		
		F15	Fluorescent tube / Compact fluorescent lamp		
		F16	LCD projector		
		F17	LED lamp for households and offices (including LED exit sign)		
		F18	Microwave oven		
		F19	Television		
		F20	Vacuum cleaner		
		F21	Washing machine / Dryer		

		Product Code	Product Item	Value of purchases with green specifications (at least one) adopted (HK\$)	Value of purchases without green specifications (HK\$)
		F22	Audio equipment (stereo system)		
		F23	Induction cookers		
		F24	Video equipment (video players & recorders)		
		F25	Water boilers		
G	Fuel oils and hydrocarbon lubricants	G01	Automotive fuel oil		
		G02	Lubricating oil / grease		
		G03	Fuel oil for non-road based applications		
H	Furniture	H01	Chair		
		H02	Mattress		
		H03	Partition screen		
		H04	Sofa		
		H05	Steel filing cabinet		
		H06	Workstation panel		
		H07	Metal furniture		
		H08	Wooden furniture		
		H09	Outdoor furniture (chair, table & bench)		
I	General stores and general services	I01	Mobile plastic waste containers		
		I02	Stainless steel recyclables collection bins		
J	Household goods	J01	Bag / Backpack		
		J02	Glove for field work (polythene, disposable) (rubber, industrial) (white cotton)		
K	Office equipment	K01	Facsimile equipment		
		K02	Photocopier		
		K03	Fire extinguisher		
		K04	Paper shredder		

Cat. Code	Category	Product Code	Product Item	Value of purchases with green specifications (at least one) adopted (HK\$)	Value of purchases without green specifications (HK\$)
		K05	Hot / Cold bottled water dispensers		
L	Packaging materials	L01	Food packaging- plastic films		
		L02	Packaging paper		
		L03	Plastic films and sheets		
M	Paper for printing and photocopying	M01	Continuous stationery for computer-generated form		
		M02	Photocopying recycled paper		
		M03	Recycled paper for printing		
		M04	Woodfree photocopying paper		
		M05	Printing paper coated on both sides		
		M06	Woodfree printing paper		
N	Paper products other than for printing and photocopying	N01	Brown wrapping paper		
		N02	Toilet paper & paper towel		
		N03	Index card (paper)		
		N04	Compostable paper bag		
		N05	Notepad		
		N06	Printed labels		
O	Plastic and rubber products	O01	Garbage collection bin		
		O02	Plastic garbage bag		
		O03	Plastic bags (other uses)		
		O04	Traffic bollard		
		O05	General plastic products		
		O06	General rubber products		
P	Printing and publishing supplies	P01	Environment-friendly lithographic process inks		
Q	Shoes and boots	Q01	Rainboot		

Cat. Code	Category	Product Code	Product Item	Value of purchases with green specifications (at least one) adopted (HK\$)	Value of purchases without green specifications (HK\$)
		Q02	Safety boot / shoe		
R	Stationery and office supplies	R01	Adhesive tape & tape dispenser		
		R02	Correction fluid and thinner		
		R03	File box		
		R04	General office stationery		
		R05	Ink / Toner cartridge		
		R06	Self-stick note pad		
		R07	Paper envelope		
		R08	Paper file jacket		
		R09	Pen		
		R10	Pencil		
		R11	Plastic file jacket		
		R12	Rechargeable battery		
		R13	Standard / Alkaline dry battery		
		R14	Calculator		
		R15	Correction tape		
		R16	Glue / Adhesive		
		R17	Ink for stamp pad		
		R18	Pre-inked stamp		
		R19	Carton boxes		
S	Telecommunication equipment and spares	S01	Key telephone system		
		S02	Mobile phone		
		S03	Radio communication system		
		S04	Radio paging equipment		

Cat. Code	Category	Product Code	Product Item	Value of purchases with green specifications (at least one) adopted (HK\$)	Value of purchases without green specifications (HK\$)
		S05	Radio transceiver		
		S06	Telephone battery		
T	Textile materials and garment	T01	Clothing and textile products		
		T02	Textile bag (nylon, canvas and gunny bag)		
U	Transportation services	U01	Hiring of light goods vehicles		
		U02	Hiring of lorries		
		U03	Hiring of saloon cars		
		U04	Hiring of 20-30 & 40-61 seater coaches		
V	Vehicles and spare parts	V01	Environment-friendly vehicles (private/commercial vehicles)		
		V02	Light bus		
		V03	Rubber / Retreaded tyre		
W	Water using equipment	W01	Showers for bathing		
		W02	Urinal equipment		
		W03	Water taps		
		W04	Water saving flushing boxes and cisterns		
Subtotal:					

Please also provide the total purchases of goods (not limited to the above product items) made by your bureau/department in the last calendar year in the right box	HK\$
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Green Purchase Tips for Small Amount Purchase and Template for Reporting Green Procurement to EPD

To: EPD (Fax: 2574 6571; e-mail: dkkchan@epd.gov.hk); please provide last calendar year's return by end of February of each year¹

From: Bureau/Department: _____ Contact: _____
 Tel: _____ E-mail: _____

Among the 150 government procurement items with established green specifications, there is a total of 36 items (tabulated as below) which have been identified by the government as products with small amount purchase need. Small amount purchase refers to a maximum single purchase value of HK\$50,000 per order regardless of the quantity of the purchase item. Bureau/department can follow the below green purchase tips to facilitate small amount purchase of these 36 designated items.

	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (≤ HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
<input type="checkbox"/>	C01	All purpose cleaners	Look for at least one product declaration below: <input type="checkbox"/> Contain no chlorine (氯) <input type="checkbox"/> Contain no phosphate (磷) <input type="checkbox"/> Biodegradable (可生物降解)		
<input type="checkbox"/>	D07	All-in-one multifunctional devices (for copying, printing and fax)	<input type="checkbox"/> Look for at least one green label: 		
			Or look for product declaration: <input type="checkbox"/> Complying RoHS		

¹ To avoid duplication, bureaux/departments are not required to submit returns for purchases arranged by GLD (i.e. through bulk contracts and those arranged on behalf of B/Ds by GLD).

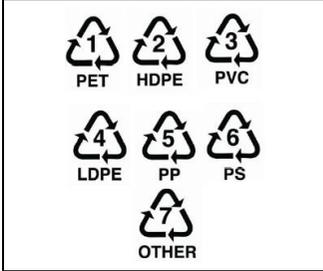
	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (≤ HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
<input type="checkbox"/>	D08	Scanner	<input type="checkbox"/> Look for green label: 		
			Or look for product declaration: <input type="checkbox"/> Complying RoHS		
<input type="checkbox"/>	F02	Electric fan	<input type="checkbox"/> Look for green label: 		
			Or look for product declaration: <input type="checkbox"/> Complying RoHS		
<input type="checkbox"/>	F06	Refrigerator	<input type="checkbox"/> Look for green label: 		
			Or look for at least one product declaration below: <input type="checkbox"/> Use of non-ozone depleting refrigerant <input type="checkbox"/> Complying RoHS		

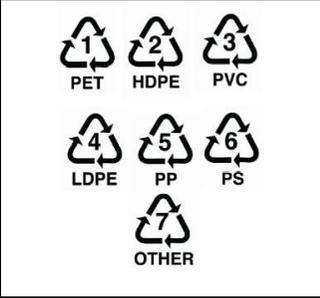
	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (\leq HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
<input type="checkbox"/>	F10	Air Purifier/Cleaners	<input type="checkbox"/> Look for green label: 		
			Or look for product declaration: <input type="checkbox"/> Complying RoHS		
<input type="checkbox"/>	F15	Fluorescent tube/compact fluorescent lamp	For integrated compact florescent lamp: <input type="checkbox"/> Look for green label 		
			For non-integrated compact fluorescent lamp <input type="checkbox"/> Look for green label 		
<input type="checkbox"/>	F16	LCD projector	Look for product declaration: <input type="checkbox"/> Complying RoHS		

	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (≤ HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
<input type="checkbox"/>	F17	LED lamp for households and offices (including LED exit sign)	<input type="checkbox"/> Look for at least one green label 		
			Or look for product declaration: <input type="checkbox"/> Complying RoHS		
<input type="checkbox"/>	F18	Microwave oven	Look for product declaration: <input type="checkbox"/> Complying RoHS		
<input type="checkbox"/>	F19	Television	<input type="checkbox"/> Look for at least one green label: 		
			Or look for product declaration: <input type="checkbox"/> Complying RoHS		
<input type="checkbox"/>	H01	Chair	<input type="checkbox"/> Look for at least one green label: 		
			Or look for at least one product declaration below: <input type="checkbox"/> No or low formaldehyde (甲醛)		

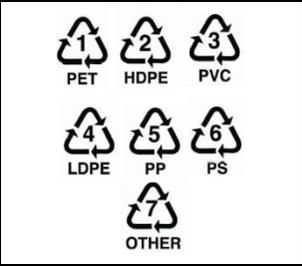
	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (\leq HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
			<p>emissions</p> <input type="checkbox"/> Contain recycled or waste wood		
<input type="checkbox"/>	H03	Partition screen	<p>Look for at least one product declaration below:</p> <input type="checkbox"/> Wood panels should be of Class E1 under EN13986 in respect of formaldehyde (甲醛) emission <input type="checkbox"/> Contain recycled or waste wood		
<input type="checkbox"/>	H05	Steel filing cabinet	<p>Look for at least one product declaration below:</p> <input type="checkbox"/> No or low formaldehyde (甲醛) emissions <input type="checkbox"/> Coating contain no heavy metals		
<input type="checkbox"/>	H07	Metal furniture	<p>Look for at least one product declaration below:</p> <input type="checkbox"/> No or low formaldehyde (甲醛) emissions <input type="checkbox"/> Coating contain no heavy metals		
<input type="checkbox"/>	H08	Wooden furniture	<p>Look for at least one product declaration below:</p> <input type="checkbox"/> Contain recycled or waste wood <input type="checkbox"/> No or low formaldehyde (甲醛) emissions		

	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (\leq HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
			Or look for at least one green label: 		
<input type="checkbox"/>	K01	Facsimile equipment	<input type="checkbox"/> Look for at least one green label: 		
			Or look for at least one product declaration below: <input type="checkbox"/> Not causing high ambient ozone or dust concentration <input type="checkbox"/> Complying RoHS		
<input type="checkbox"/>	K04	Paper shredder	Look for product declaration: <input type="checkbox"/> Complying RoHS		
<input type="checkbox"/>	K05	Hot/cold bottled water dispenser	<input type="checkbox"/> Look for green label: 		
			Or look for product declaration: <input type="checkbox"/> Complying RoHS		

	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (≤ HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
<input type="checkbox"/>	M03	Recycled paper for printing	<input type="checkbox"/> Look for at least one green label:  Or look for at least one product declaration below: <input type="checkbox"/> No chlorine bleaching agent (含氯漂白劑) used <input type="checkbox"/> Contain recycled or recovered paper fibre <input type="checkbox"/> Packing made from recycled or recovered paper fibre		
<input type="checkbox"/>	O01	Garbage Collection Bin	<input type="checkbox"/> Look for plastic resin identification code (塑膠分類標誌): 		
<input type="checkbox"/>	O02	Plastic Garbage Bag	Look for product declaration <input type="checkbox"/> Biodegradable (可生物降解)		
<input type="checkbox"/>	O03	Plastic Bags (other uses)	Look for at least one product declaration below:		

	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (≤ HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
			<input type="checkbox"/> Contain recycled plastic content <input type="checkbox"/> Biodegradable (可生物降解)		
<input type="checkbox"/>	O05	General plastic products	Look for at least one product declaration below: <input type="checkbox"/> Contain recycled or recovered plastic content <input type="checkbox"/> Phthalate-free (無鄰苯二甲酸酯) <input type="checkbox"/> Or look for plastic resin identification code (塑膠分類標誌): <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div>		
<input type="checkbox"/>	Q02	Safety Boot / Shoe	Look for at least one product declaration below: <input type="checkbox"/> Footwear contains recycled plastic content <input type="checkbox"/> No PVC (聚氯乙烯) used		
<input type="checkbox"/>	R01	Adhesive tape and tape dispenser	Adhesive tape Look for at least one product declaration below: <input type="checkbox"/> No organic solvents (有機溶劑) used in the adhesive layer <input type="checkbox"/> Phthalate-free (無鄰苯二甲酸酯)		

	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (≤ HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
			<p>Adhesive tape dispenser</p> <p>Look for product declaration:</p> <p><input type="checkbox"/> No PVC (聚氯乙烯)</p> <p><input type="checkbox"/> Or look for plastic resin identification code (塑膠分類標誌):</p> <div data-bbox="725 453 1048 751" style="border: 1px solid black; padding: 5px; text-align: center;">  </div>		
<input type="checkbox"/>	R04	General office stationery	<p>Look for at least one product declaration below:</p> <p><input type="checkbox"/> Contain recycled content or material</p> <p><input type="checkbox"/> Phthalate-free (無鄰苯二甲酸酯)</p>		
<input type="checkbox"/>	R05	Ink/toner cartridge	<p>Look for at least one product declaration below:</p> <p><input type="checkbox"/> The recycling percentage of recovered toner cartridge parts should be over 95% of the total product weight (excluding the toner)</p> <p><input type="checkbox"/> Packing contains recycled or recovered paper fibre</p>		

	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (≤ HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
<input type="checkbox"/>	R06	Self-stick note-pad	<p>Look for at least one product declaration below:</p> <p><input type="checkbox"/> Contain recycled or recovered paper fibre</p> <p><input type="checkbox"/> Chlorine bleach-free (無氯漂白劑)</p> <p><input type="checkbox"/> Or look for at least one green label:</p> <div style="text-align: center;">   </div>		
<input type="checkbox"/>	R09	Pen	<p>Look for at least one product declaration below:</p> <p><input type="checkbox"/> Non-toxic or complying EN-71-3</p> <p><input type="checkbox"/> The product should use refillable ink or refills, and such refill products should be available</p> <p><input type="checkbox"/> Contain no volatile organic solvent (揮發性有機溶劑)</p>		
<input type="checkbox"/>	R11	Plastic file jacket	<p><input type="checkbox"/> Look for plastic resin identification code (塑膠分類標誌):</p> <div style="text-align: center; border: 1px solid black; padding: 5px;">  </div>		

	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (\leq HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
			Or look for product declaration: <input type="checkbox"/> Contain recycled plastics		
<input type="checkbox"/>	R12	Rechargeable battery	Look for at least one product declaration below: <input type="checkbox"/> Cadmium-free/ No Cd (不含鎘/無鎘) <input type="checkbox"/> Lead-free/ No Pb (不含鉛/無鉛) <input type="checkbox"/> Mercury-free/ No Hg (不含水銀/無水銀)		
<input type="checkbox"/>	R13	Standard/alkaline dry battery	Look for at least one product declaration below: <input type="checkbox"/> Cadmium-free/ No Cd (不含鎘/無鎘) <input type="checkbox"/> Lead-free/ No Pb (不含鉛/無鉛) <input type="checkbox"/> Mercury-free/ No Hg (不含水銀/無水銀)		
<input type="checkbox"/>	R15	Correction tape	Look for at least one product declaration below: <input type="checkbox"/> Plastic part contains recycled plastic content <input type="checkbox"/> The product should use refillable materials which are readily available <input type="checkbox"/> Contain no CFCs (氟氯化碳)		
<input type="checkbox"/>	R18	Pre-inked stamp	Look for at least one product declaration below: <input type="checkbox"/> Non-toxic or complying with EN-71-3 <input type="checkbox"/> Plastic part contains recycled plastic material		
<input type="checkbox"/>	T01	Clothing and textile products	Look for at least one product declaration below: <input type="checkbox"/> Contain no PVC (聚氯乙烯)		

	Product Code	Product Item	Green Purchase Tips for Small Amount Purchase (\leq HK\$50,000 per order)	Value of Small Amount Purchases following established green purchase tips (at least one) (HK\$)	Value of Small Amount Purchases not following green purchase tips (HK\$)
			<input type="checkbox"/> No azo dyes (偶氮染料) used <input type="checkbox"/> Contain recycled or reclaimed textile fiber materials		
Subtotal:					

Please also provide the total small amount purchases of goods (not limited to the above product items) made by your bureau/department in the last calendar year in the right box	HK\$
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1. Waste Recovery and Recycling Practice

- The Contractors should co-ordinate waste recycling for (including, but not limited to) paper, plastics and metals. This includes the following responsibilities:
 - (i) Sort and store recyclable waste in recycling facilities; and
 - (ii) Engage waste recycling contractors for collection of recyclable materials or facilitate the collection by Government contractor

2. Cleansing Products and Supplies

- The contractor should, as far as possible, use cleansing products that comply with the green specifications developed by EPD & GLD.

3. Water Saving

- Wash in a basin rather than under running water whenever practical.
- Reduce spillage by keeping water level in rinsing and washing basins to minimum.
- Report any leakage of faucets and hoses for repairing immediately
- Use mops instead of running water hoses for cleaning floors whenever practical.

4. Energy Saving

- All powered equipment should be switched off and remove the plug from socket when not in use.
- Filters of vacuum cleaners should be changed or cleaned regularly to attain the optimal cleaning efficiency.

5. Staff Training

- All workers of the contractors shall receive regular trainings to maintain knowledge of correct procedures for equipment and techniques used to maintain environmental standards.

Annex IX

Type of vehicle hiring contract	Mandatory emission standard	Desirable emission standard
Saloon car	Euro IV (date of First Registration on or after 1 Jan 2006)	Euro V (date of First Registration on or after 1 June 2012)
7-Seater passenger medium van and 6-seater multi-purpose van	Euro III (date of First Registration on or after 1 Jan 2002)	Euro IV (date of First Registration on or after 1 Jan 2007)
Light goods vehicle		
20-30 and 40-60 seater coach	Euro III (date of First Registration on or after 1 Oct 2001)	Euro V (date of First Registration on or after 1 June 2012)
Box-type lorry, open/covered lorry, tipper lorry, grab lorry and hook-lift truck		