

Agriculture and horticulture (Category Code – A)		
Product Code	Product Item	Recommended Green Specifications
A01	Garden machinery (lawn mowers)	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Noise emissions: The declared sound power level should not exceed the limit of 100 dB(A) during operation.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The metal content in the individual battery cell should be lower than the values shown below: <ul style="list-style-type: none"> <li>i. Arsenic <math>\leq</math> 10.0 ppm</li> <li>ii. Cadmium <math>\leq</math> 5.0 ppm</li> <li>iii. Lead <math>\leq</math> 5.0 ppm</li> <li>iv. Mercury <math>\leq</math> 0.1 ppm</li> </ul> </li> </ul>

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A02	Pest control (termiteicide)	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> <li>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"> <li>Acute Oral LD50 : <math>\geq 500</math> mg/kg</li> <li>Acute Dermal LD50: <math>\geq 2,000</math>mg/kg</li> <li>Acute Inhalation LC50 : <math>\geq 1.5</math>mg/l (Exposure time 4h)</li> <li>Non-irritant to eyes and skin</li> <li>Non-sensitizing</li> </ol> </li> <li>Product supplier should provide recollection of waste bottles to government departments to ensure proper disposal of the product containers.</li> </ul>

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A03	Fertilizers/ Compost	<b>Mandatory Requirement:</b>
		<b>Compost</b> <ul style="list-style-type: none"> <li>The product shall be derived from the processing or re-use of organic waste.</li> </ul>
		<b>Desirable Requirement:</b>
		<b>Fertilizers</b> <ul style="list-style-type: none"> <li>The product should contain no less than 30% by weight of recycled organic matter.</li> </ul>
		<ul style="list-style-type: none"> <li>In the final product, the content of the following elements should be lower than the values shown below: <ul style="list-style-type: none"> <li>i. Cadmium &lt; 1mg/kg (dry weight)</li> <li>ii. Chromium &lt; 100mg/kg (dry weight)</li> <li>iii. Lead &lt; 100mg/kg (dry weight)</li> <li>iv. Mercury &lt; 1mg/kg (dry weight)</li> </ul> </li> </ul>

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A04	Mulch for horticultural use	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall be 100% composed of organic matters such as leaf litter, tree bark, wood shavings, decomposed sawdust and chopped tree fern.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The content of pathogens in the product should not exceed below levels: <ul style="list-style-type: none"> <li>i. E. coli: ≤ 1 000 CFU/g fresh weight;</li> <li>ii. Salmonella spp.: absent in 25 g fresh weight</li> </ul> </li> <li>The content of heavy metals or their compounds (dry weight) in the product should not exceed below levels: <ul style="list-style-type: none"> <li>i. Cadmium: 1 mg/kg</li> <li>ii. Chromium total: 100 mg/kg</li> <li>iii. Copper: 100 mg/kg</li> <li>iv. Mercury: 1 mg/kg</li> <li>v. Nickel: 50 mg/kg</li> <li>vi. Lead: 100 mg/kg</li> <li>vii. Zinc: 300 mg/kg</li> </ul> </li> </ul>

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A05	Growing media	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The organic matter content (dry matter) shall not be less than 30% by weight.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should not contain peat.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should be free from all kinds of pests, pernicious and/or perennial weeds and roots, grass, clay lumps, non-soil material, brick, cement, concrete and other building materials, foreign matter and contamination.</li> </ul>
		<ul style="list-style-type: none"> <li>The content of heavy metals or their compounds (dry weight) in the product should not exceed below levels:               <ol style="list-style-type: none"> <li>Cadmium: 3 mg/kg</li> <li>Chromium total: 150 mg/kg</li> <li>Copper: 100 mg/kg</li> <li>Mercury: 1 mg/kg</li> <li>Nickel: 90 mg/kg</li> <li>Lead: 150 mg/kg</li> <li>Zinc: 300 mg/kg</li> </ol> </li> </ul>

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Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B01	Flooring materials (plastic-, wood-, cork- or bamboo-based)	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Emission of formaldehyde from the product shall not exceed 0.13mg/m<sup>3</sup> air.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>For plastic flooring product, 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.</li> </ul>
		<ul style="list-style-type: none"> <li>For wood-, cork- and bamboo-based flooring products, the material should meet one of the following requirements:               <ol style="list-style-type: none"> <li>40% of the wood, cork and/or bamboo material is from recycled material; or</li> <li>The wood, cork and/or bamboo material should obtain sustainable forest management certification such as Forest Stewardship Council (FSC), PEFC (Programme for the Endorsement of Forest Certification schemes) or equivalent.</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The product containing paint should not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Antimony</li> <li>Arsenic</li> <li>Cadmium</li> <li>Hexavalent chromium</li> <li>Lead</li> <li>Mercury</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Total emission: Discharge of Volatile Organic Compounds (VOCs) should not exceed 2g/m<sup>2</sup>.</li> </ul>
		<ul style="list-style-type: none"> <li>Emission rate: Discharge of Volatile Organic Compounds (VOCs) should not exceed 500µg/m<sup>2</sup>/hr.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain chlorinated / brominated paraffins, organic tin compounds, phthalates or polybrominated diphenyl ethers (PBDE) content.</li> </ul>

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B02	PVC pipe and fitting	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall not contain heavy metals including cadmium, lead, mercury and tin.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain at least 30% by weight of waste plastic.</li> <li>The product should not contain phthalates.</li> </ul>

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B03	Solvent-based / Water-based paint for building finish	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall comply with the VOC content requirements on regulated paints stipulated in the Air Pollution Control (VOC) Regulation of Hong Kong.</li> </ul>
		<ul style="list-style-type: none"> <li>The paint or any thinner used shall contain no more than 0.01% by wet weight of formaldehyde.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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: <ul style="list-style-type: none"> <li>i. Cadmium: 100 ppm</li> <li>ii. Hexavalent chromium: 200 ppm</li> <li>iii. Lead: 200 ppm</li> <li>iv. Mercury: 200 ppm</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain the substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane, carbon tetrachloride).</li> </ul>
		<ul style="list-style-type: none"> <li>If the product contains more than 3 % w/w of titanium dioxide, the emissions and discharges of wastes from the production of any titanium dioxide pigment used should not exceed the following (2): For the sulphate process: <ul style="list-style-type: none"> <li>- SO<sub>x</sub> (SO<sub>2</sub>): 7 kg/tonne TiO<sub>2</sub> pigment.</li> <li>- Sulphate waste: 500 kg/tonne TiO<sub>2</sub> pigment.</li> <li>- For the chloride process:</li> <li>- 103, 179 and 329 kg chloride waste/tonne TiO<sub>2</sub> pigment if natural rutile ore, synthetic rutile ore and slag ore are used.</li> </ul> </li> </ul>

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B04	Carpet	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall include a post-consumer or post-industrial recycled content of at least 5% in the carpet face fiber, primary backing or secondary backing.</li> </ul>
		<ul style="list-style-type: none"> <li>Emissions of Total Volatile Organic Compounds (TVOCs) shall not exceed 0.5 mg/m<sup>2</sup> per hour.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall be sold as removable tiles.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be manufactured with topically applied biological inhibitors.</li> </ul>
		<ul style="list-style-type: none"> <li>Water-based adhesives or adhesive-free shall be used.</li> </ul>
		<ul style="list-style-type: none"> <li>Carpet backings shall be PVC free, and the carpet backings materials shall be cotton, jute, resin or polyurethane.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall be recyclable into either new carpet or other products, or shall be capable of being refurbished.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Phthalate plasticizers should not be used in the manufacturing process.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>

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B05	Adhesives and sealants	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall comply with the VOC content limits on regulated adhesives stipulated in the Air Pollution Control (VOC) Regulation of Hong Kong.</li> </ul>
		<ul style="list-style-type: none"> <li>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).</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall contain no more than 0.01% by wet weight of formaldehyde.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should not contain phthalates.</li> </ul>

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B06	Concrete	<b>Desirable Requirement:</b> <ul style="list-style-type: none"> <li>The product should contain at least one of the following recycled materials in the cementitious content: <ul style="list-style-type: none"> <li>i. Ground Granulated Blastfurnace Slag (GGBS);</li> <li>ii. Condensed Silica Fume (CSF);</li> <li>iii. Fly ash (siliceous or calcareous), including pulverised fuel ash (PFA)</li> </ul> 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.</li> </ul> <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"> <li>The product should contain at least one of the following recycled materials to replace natural aggregates. <ul style="list-style-type: none"> <li>i. Recycled aggregates;</li> <li>ii. Crushed old concrete;</li> <li>iii. Crushed surplus rocks from local development projects;</li> </ul> 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.</li> </ul> <p>The product shall also conform to the technical requirement for its intended use as specified in the General Specifications.</p>

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B07	Timber door	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Formaldehyde Emission: All wood panels shall be of Class E1 under EN13986 in respect of formaldehyde emission.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Copper</li> <li>Lead</li> <li>Mercury</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The following substances shall not be added during manufacturing: elemental chlorine, fluorine, PCP (pentachlorophenol) and tar oils containing benzo(a)pyrene.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall have no flame retardant of polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs) or short-chain chlorinated paraffins added as formulated components.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The wood should meet one of the following requirements:               <ol style="list-style-type: none"> <li>Minimum 70% of wood material is from recycled/waste wood;</li> <li>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.</li> </ol> </li> </ul>

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B08	Gypsum plasterboard	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The product should contain a minimum of 40% by weight of recycled materials against the total weight of the product.</li></ul> <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Building.</p>
		<ul style="list-style-type: none"><li>The paper in gypsum plasterboard should be made from 100% recycled paper.</li></ul> <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Building.</p>

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B09	Concrete paving units (use of recycled aggregates only)	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain recycled aggregates, of which the following requirements shall be complied with: <ul style="list-style-type: none"> <li>The aggregates should contain not less than 70% by weight of recycled aggregates;</li> <li>The recycled fine aggregates should constitute not less than 40% by weight of the total recycled aggregates. The recycled glass cullet should be included as recycled fine aggregates and should constitute 20% to 25% by weight of the total aggregates;</li> <li>The recycled aggregates, except recycled glass cullet, should be of crushed inert construction and demolition materials produced from the crushing plant of the Civil Engineering and Development Department or other sources approved by the Engineer.</li> </ul> </li> </ul> <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>

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B10	Photovoltaic panel	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, batteries, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The heat transfer medium should not be formulated with halogenated organic substances.</li> </ul>

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B11	Asphalt pavement	<b>Mandatory Requirement:</b> <ul style="list-style-type: none"> <li>The roadbase material shall be in a range of 10% to 15% of reclaimed asphalt pavement (RAP) by mass of the total mix.</li> </ul> <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Civil Engineering Works.</p>
		<ul style="list-style-type: none"> <li>Bituminous wearing course and base course materials shall be in a range of 20 to 30% of reclaimed asphalt pavement (RAP) by mass of the total mix. RAP shall be incorporated in the bituminous pavement unless there is a shortage of supply of RAP and it is subject to Engineer/ Project Manager's approval.</li> </ul> <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Civil Engineering Works.</p>

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B12	Fill materials	<b>Desirable Requirement:</b>
		<b>For earthworks</b> <ul style="list-style-type: none"> <li>The fill material should contain recycled aggregates made from inert construction and demolition material or recycled rock.</li> </ul>
		<b>For reclamation</b> <ul style="list-style-type: none"> <li>The fill material should contain recycled aggregates made from inert construction and demolition material or recycled rock.</li> </ul>
		<b>For filling marine structures</b> <ul style="list-style-type: none"> <li>The fill material should contain recycled aggregates made from rock fill materials.</li> </ul> <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>

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B13	Non-structural steel work (such as steel mesh, steel tubing, steel door and steel louvre)	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should not contain heavy metals exceeding 1000ppm as listed below:               <ol style="list-style-type: none"> <li>Mercury</li> <li>Lead</li> <li>Cadmium</li> <li>Hexavalent chromium</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The steel product should not be treated with halogenated organic compound.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should contain a minimum of 20% by weight of recycled steel content against the total weight of the product.</li> </ul> <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>

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B14	Sub-base materials	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The layer of recycled sub-base material shall contain crushed rock, crushed concrete, clean crushed inert demolition material or recycled glass cullet.</li> </ul> <p>The product shall conform to the technical requirement for its intended use as specified in the General Specification for Civil Engineering Works.</p>

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B15	Rubber mat for playground	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall have no flame retardant of polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs) or short-chain chlorinated paraffins added as formulated components.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Chromium</li> <li>Copper</li> <li>Lead</li> <li>Mercury</li> </ol> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain a minimum of 80% by weight of recycled or recovered rubber materials against the total weight of rubber contained in the product.</li> </ul>
		<ul style="list-style-type: none"> <li>Supplier should provide product take-back/ recycling services to users at the end of life of the product.</li> </ul>

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B16	Thermal insulation	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Emission rate: Discharge of Volatile Organic Compounds (VOCs) shall not exceed 500 µg/m<sup>2</sup>/hr.</li> </ul>
		<ul style="list-style-type: none"> <li>The levels of the following hazardous substances as impurities shall not exceed the following: <ul style="list-style-type: none"> <li>i. Arsenic: 50 ppm</li> <li>ii. Cadmium: 10 ppm</li> <li>iii. Hexavalent chromium: 10 ppm</li> <li>iv. Lead: 300 ppm</li> <li>v. Mercury: 10 ppm</li> <li>vi. Selenium: 20 ppm</li> <li>vii. PBDEs (polybrominated diphenyl ethers): 100ppm</li> <li>viii. PBBs (polybrominated biphenyls): 100ppm</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain below minimum percentage of recycled content for each type of materials by weight: <ul style="list-style-type: none"> <li>i. glass wool - 40%</li> <li>ii. mineral wool - 20%</li> <li>iii. rock wool - 40%</li> <li>iv. cellulose - 80%</li> </ul> </li> <li>Emission rate of formaldehyde from the product should not exceed 0.2 mg/m<sup>2</sup>/hr.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B17	Ceramic tiles	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>i. Antimony: 0.25% in weight of the glazes</li> <li>ii. Cadmium: 0.1% in weight of the glazes</li> <li>iii. Lead: 0.5% in weight of the glazes</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain a minimum of 10% by weight of recycled or recovered materials against the total weight of the product.</li> </ul> <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>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B18	Varnish and wax polish	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain the substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane and carbon tetrachloride).</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall contain no more than 0.01% by wet weight of formaldehyde.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall contain no more than 0.5% by wet weight of the sum total of aromatic compounds, which shall include benzene, toluene, xylenes, and ethylbenzene.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B19	Window	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"><li>The thermal insulation capacity of the window glass shall not exceed the heat transfer coefficient (U-value) of 1.4W/m<sup>2</sup>K.</li></ul>
		<ul style="list-style-type: none"><li>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"><li>i. Arsenic</li><li>ii. Cadmium</li><li>iii. Hexavalent chromium</li><li>iv. Lead</li><li>v. Mercury</li><li>vi. Organic tin</li><li>vii. Phthalates</li></ul></li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B20	Wood panel	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The content of free formaldehyde in adhesives used in the product shall not exceed 0.5 % by weight of the adhesive.</li> </ul>
		<ul style="list-style-type: none"> <li>Formaldehyde Emission: All wood panels shall be of Class E1 under EN13986 in respect of formaldehyde emission.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Copper</li> <li>Lead</li> <li>Mercury</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The following substances shall not be added during manufacturing: elemental chlorine, fluorine, PCP (pentachlorophenol) and tar oils containing benzo(a)pyrene.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall have no flame retardant of polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs) or short-chain chlorinated paraffins added as formulated components.</li> </ul>
		<ul style="list-style-type: none"> <li>Requirements of wood or wooden materials: the product shall meet one of the following requirement:               <ol style="list-style-type: none"> <li>40% of the wood material is from recycled/waste wood;</li> <li>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.</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B21	Cement	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The product should contain at least one of the following recycled materials:<ul style="list-style-type: none"><li>i. gypsum produced by the desulfurization process of pollution control equipment</li><li>ii. waste glass</li></ul>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.</li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B22	Paint and varnish remover	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The VOC content of the product shall be less than 5% by volume.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should be readily biodegradable.</li> <li>The product should not be manufactured or formulated with Methylene Chloride, N-Methylpyrrolidone (NMP) and Trichloroethylene (TCE).</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B23	Partition wall block	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The content of heavy metals or their compounds in the product shall not exceed below levels:               <ol style="list-style-type: none"> <li>Cadmium: 1 mg/L</li> <li>Lead: 5 mg/L</li> <li>Arsenic: 5 mg/L</li> <li>Mercury: 0.2 mg/L</li> <li>Hexavalent Chromium: 5 mg/L</li> </ol> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain at least 30% by weight of recycled materials, such as waste ceramic materials, waste plaster and waste glass.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B24	Wallpaper	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The emission rate of formaldehyde shall be less than 0.08 mg/m<sup>2</sup>/hr.</li> </ul>
		<ul style="list-style-type: none"> <li>The content of vinyl chloride monomer (VCM) compound in PVC wallpaper shall be less than 1mg/kg.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain at least 20% by weight of recycled fibers/ papers.</li> </ul>
		<ul style="list-style-type: none"> <li>The emission rate of VOCs should be less than 0.4mg/m<sup>2</sup>/hr.</li> </ul>
		<ul style="list-style-type: none"> <li>The content of heavy metals or their compounds in the product should be less than below levels: <ul style="list-style-type: none"> <li>i. Cadmium: 2 mg/kg</li> <li>ii. Lead: 2 mg/kg</li> <li>iii. Hexavalent Chromium: 3 mg/kg</li> <li>iv. Mercury: 2 mg/kg</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B25	Heat pump	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"><li>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.</li></ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The product should comply with international power consumption standard such as Energy Star.</li></ul>
		<ul style="list-style-type: none"><li>The product should comply to the minimum coefficient of performance (COP) at full-load as specified in the Building Energy Code (BEC), promulgated by Electrical and Mechanical Services Department.</li></ul>
		<ul style="list-style-type: none"><li>Any plastic parts should be manufactured without short-chain chlorinated paraffins.</li></ul>
		<ul style="list-style-type: none"><li>Product components (circuit boards, electrical, electronic and plastic components) should not contain cadmium, lead, mercury, hexavalent chromium, PBBs and PBDEs.</li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B26	Chiller	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The minimum efficiency of the product with full-load optimized applications should comply to coefficient of performance (COP) at full load as specified in the Building Energy Code (BEC) promulgated by Electrical and Mechanical Services Department.</li> </ul>
		<ul style="list-style-type: none"> <li>Airborne noise emission from the appliance, measured as sound power level, should not exceed 90 dB (A) during operation.</li> </ul>
		<ul style="list-style-type: none"> <li>The maximum annual system leakage rate of the refrigerant should be equal to or less than 1% of full refrigerant charge.</li> </ul>
		<ul style="list-style-type: none"> <li>The external coating of product should not contain the restricted substances exceeding the following concentrations:               <ol style="list-style-type: none"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Building and construction supplies (Category Code – B)		
Product Code	Product Item	Recommended Green Specifications
B27	Water pump / Pool pump	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>Airborne noise emission from the appliance, measured as sound power level, should not exceed the requirement in IEC 60034-9.</li> </ul>
		<ul style="list-style-type: none"> <li>The external coating of the product should not contain heavy metals and VOC exceeding the following concentrations: <ul style="list-style-type: none"> <li>i. Cadmium: 0.01% by weight</li> <li>ii. Lead: 0.01% by weight</li> <li>iii. Hexavalent chromium: 0.01% by weight</li> <li>iv. Mercury: 0.01% by weight</li> <li>v. Barium: 0.1% by weight</li> <li>vi. VOC: &lt;500g/L water</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Cleansing products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications
C01	All purpose cleaner	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The pH of aqueous solution of the detergent shall not be higher than 10.5.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with alkylphenol ethoxylates (APEOs) and ethylenediaminetetraacetic acid (EDTA).</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain halogenated substances or solvents, including reactive chlorine compounds.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with phosphate or phosphonates.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated with ammonia or ammonium compounds.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall be at least 90% biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> <li>i. Arsenic</li> <li>ii. Cadmium</li> <li>iii. Cobalt</li> <li>iv. Hexavalent chromium</li> <li>v. Lead</li> <li>vi. Mercury</li> <li>vii. Selenium</li> </ul> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The product should not contain more than 3% by weight of volatile organic compounds (VOCs).</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Cleansing products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications
C02	Laundry detergent / soap	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with alkylphenol ethoxylates (APEOs) and ethylenediaminetetraacetic acid (EDTA).</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain halogenated substances or solvents, including reactive chlorine compounds.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with phosphate or phosphonates.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with optical brighteners.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall be at least 90% biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Cobalt</li> <li>Hexavalent chromium</li> <li>Lead</li> <li>Mercury</li> <li>Selenium</li> </ol> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The product should not contain more than 5 % by weight of volatile organic compounds (VOCs).</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Cleansing products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications
C03	Sanitary detergent	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with alkylphenol ethoxylates (APEOs) and ethylenediaminetetraacetic acid (EDTA).</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain halogenated substances or solvents, including reactive chlorine compounds.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain more than 5% by weight of volatile organic compounds (VOCs).</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with phosphate or phosphonates.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall 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.</li> </ul>
		<ul style="list-style-type: none"> <li>The surfactant used in the product shall be at least 90% biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Cobalt</li> <li>Hexavalent chromium</li> <li>Lead</li> <li>Mercury</li> <li>Selenium</li> </ol> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The pH value of product, before dilution, should not be higher than 11.5 or less than 2.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Cleansing products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications
C04	Soap toilet liquid	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>Bioaccumulative preservatives shall not be used.</li> </ul>
		<ul style="list-style-type: none"> <li>The pH value of 5% solution shall range from 6-10.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall be at least 60% biodegradable.</li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with alkylphenol ethoxylates (APEOs), ethylenediaminetetraacetic acid (EDTA) or nitrilotriacetate (NTA).</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with phosphate or phosphonates.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with optical brighteners.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>The final products (as sold) should not contain more than 6 % (by weight) of volatile organic compounds (VOCs) with a boiling point lower than 150 °C.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Cleansing products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications
C05	Cleaning rags and cotton waste	<b>Desirable Requirement</b>
		<ul style="list-style-type: none"><li>• <b>Cleaning Rags</b><ul style="list-style-type: none"><li>i. Addition of optical brighteners should not be permitted.</li><li>ii. The content of detectable formaldehyde in the final product should not exceed 0.15 mg/kg.</li><li>iii. The content of pentachlorophenol (PCP) in the final product should not exceed 0.15 mg/kg.</li></ul></li></ul>
		<ul style="list-style-type: none"><li>• <b>Cotton Waste</b> AOX emissions in the bleaching effluent should be less than 100 mg Cl/kg.</li></ul>
		<ul style="list-style-type: none"><li>• For product containing fibres, these fibres should contain recycled content and should take up to at least 70% by weight of the product.</li></ul>

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GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Cleansing products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications
C06	Disinfectant	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with builders belonging to phosphates.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall 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.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with aromatic compounds.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with alkylphenol ethoxylates (APEOs) and their alkylphenol derivatives (APDs), and ethylenediaminetetraacetic acid (EDTA).</li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The disinfectant should not be formulated or manufactured with fragrances and dyes, or only contain food grade dyes that comprise no more than 0.1% by weight of the total, undiluted formulation.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with surfactants belonging to nitrilotriacetate (NTA), diethylenetriaminepentaacetic acid (DTPA) or any of its salts, or reactive chlorine compounds such as sodium hypochlorite or organic chlorinated compounds of chlorine, quaternary ammonium salts that are not readily biodegradable.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Cleansing products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications
C07	Deodorant	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The product shall not contain substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs and HCFCs).</li> </ul>
		<ul style="list-style-type: none"> <li>The surfactant used in the product shall be readily biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with alkylphenol ethoxylates (APEOs), ethylene diaminetetra acetic acid (EDTA), nitrilotriacetate (NTA), phthalates, and halogenated organic solvents.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Cobalt</li> <li>Hexavalent chromium</li> <li>Lead</li> <li>Mercury</li> <li>Selenium</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain phosphorus content of more than 0.2% by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>The sum of benzene, toluene, xylene, ethylbenzene, 1,4-Dichlorobenzene, and styrene contents shall be smaller than 0.1% by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>The undiluted product shall not contain any of the following components:               <ol style="list-style-type: none"> <li>Formaldehyde donors</li> <li>Monoethanolamine, diethanolamine, and triethanolamine alone or in compounds</li> <li>Parabens</li> <li>Triclosan</li> <li>Nitromusk and polycyclic musk fragrances</li> </ol> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The product should not contain more than 1% by weight of volatile organic compounds (VOCs).</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
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Cleansing products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications
C08	Detergent for dishwasher	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The product shall not be formulated with phosphates, phosphonates or any phosphorus compounds.</li> </ul>
		<ul style="list-style-type: none"> <li>The pH value of product shall not be higher than 11 or less than 2</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall be at least 90% biodegradable</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with alkylphenol ethoxylates (APEOs), diethylenetriaminepentaacetic acid (DTPA), ethylene diaminetetra acetic acid (EDTA), nitrilotriacetate (NTA), halogenated organic solvents</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with optical brighteners</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Cobalt</li> <li>Hexavalent chromium</li> <li>Lead</li> <li>Mercury</li> <li>Selenium</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain halogenated substances or solvents, including reactive chlorine compounds</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should not contain the following substances:               <ol style="list-style-type: none"> <li>Formalin</li> <li>Triclosan</li> <li>Nitromusks and polycyclic musks</li> <li>Atranol and Chloroatranol</li> <li>Hydroxyisohexyl 3-cyclohexene carboxaldehyde (HICC)</li> <li>Microplastics</li> <li>Nanosilver</li> <li>Formaldehyde</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Cleansing products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications
C09	Hand soap	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The pH value of product shall not be higher than 11 or less than 2.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain nitromusk and polycyclic musk fragrances.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with alkylphenol ethoxylates (APEOs), ethylenediaminetetraacetic acid (EDTA), nitrilotriacetate (NTA), halogenated organic solvents.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with phosphate or phosphonates.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with optical brighteners.</li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The product should be at least 90% biodegradable and not bioaccumulative.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain more than 1 % by weight of volatile organic compounds (VOCs).</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Cleansing products (Category Code – C)		
Product Code	Product Item	Recommended Green Specifications
C10	Personal care products	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with phosphorous, phosphates or phosphonate.</li> </ul>
		<ul style="list-style-type: none"> <li>Any fragrance added to the product shall be manufactured and handled following the code of practice of the International Fragrance Association (IFRA). The following fragrances and ingredients of fragrance mixtures shall not be included in the product:               <ol style="list-style-type: none"> <li>Hydroxyisohexyl 3-cyclohexene carboxaldehyde (HICC)</li> <li>Atranol</li> <li>Chloroatranol</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The total concentration of the following heavy metals in the product shall not exceed 25ppm:               <ol style="list-style-type: none"> <li>Lead</li> <li>Mercury</li> <li>Cadmium</li> <li>Hexavalent Chromium</li> </ol> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>All surfactants and organic ingredients in the product should be readily biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with the following substances:               <ol style="list-style-type: none"> <li>Alkylphenol ethoxylates (APEOs)</li> <li>Nitrilotriacetate acid (NTA)</li> <li>Ethylenediaminetetraacetate acid (EDTA)</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Micro-plastics should not be added in the product.</li> </ul>
		<ul style="list-style-type: none"> <li>Palm oil used in the product should be from sustainable source certified by internationally recognized standards (such as “Roundtable on Sustainable Palm Oil [RSPO]” and “Roundtable on Sustainable Biomaterials [RSB]”).</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Computer equipment and products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications
D01	Desktop computer	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, batteries, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The product shall comply with international power consumption standard such as Energy Star.</li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>The energy consumption of the product should not be greater than 3W and 1W during sleep mode and off mode, respectively.</li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

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

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Computer equipment and products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications
D03	Network products (including LAN switches, routers, etc.)	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The product should comply with international power consumption standard such as Energy Star.</li> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> <li>Component parts should not contain halogenated substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Computer equipment and products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications
D04	Notebook computer	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The product shall comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>The energy consumption of the product shall not be greater than 3W during sleep mode.</li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Computer equipment and products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications
D05	Printer	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The equipment shall comply with power saving standard stipulated in Energy Star or shall have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>The energy consumption of the product shall not be greater than 2W when switched off.</li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>Should not cause an ambient ozone concentration in excess of 0.04mg/m<sup>3</sup>.</li> </ul>
		<ul style="list-style-type: none"> <li>Should not cause a dust concentration in excess of 0.25mg/m<sup>3</sup>.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Computer equipment and products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications
D06	Server	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The product shall comply with international power consumption standard such as Energy Star.</li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Computer equipment and products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications
D07	All-in-one multifunctional devices	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The equipment shall comply with power saving standard stipulated in Energy Star or shall have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>The energy consumption of the product shall not be greater than 2W when switch off.</li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are:               <ol style="list-style-type: none"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Plastic parts should not contain halogenated substances</li> </ul>
		<ul style="list-style-type: none"> <li>Should not cause an ambient ozone concentration in excess of 0.04mg/m<sup>3</sup>.</li> </ul>
		<ul style="list-style-type: none"> <li>Should not cause a dust concentration in excess of 0.25mg/m<sup>3</sup>.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Computer equipment and products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications
D08	Scanner	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The product shall comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Computer equipment and products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications
D09	Computer keyboard & mouse	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The plastic parts of the product shall not have metallic coating.</li> </ul>
		<ul style="list-style-type: none"> <li>The product (printed circuit boards and plastic components) shall not contain halogenated substances including Polyvinyl Chloride (PVC), Brominated Flame Retardant (BFR) and Chlorinated Flame Retardants (CFR) that the concentrations of halogens shall not exceed the following values under IEC 61249-2-21: <ul style="list-style-type: none"> <li>i. Total halogens: 1,500 ppm</li> <li>ii. Chlorine: 900 ppm</li> <li>iii. Bromine: 900 ppm</li> </ul> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>Any plastic components of the product should be made of recycled materials.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Computer equipment and products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications
D10	Tablet computer	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The product (printed circuit boards and plastic components) shall not contain halogenated substances including Polyvinyl Chloride (PVC), Brominated Flame Retardant (BFR) and Chlorinated Flame Retardants (CFR) that the concentrations of halogens shall not exceed the following values under IEC 61249-2-21:               <ol style="list-style-type: none"> <li>Total halogens: 1,500 ppm</li> <li>Chlorine: 900 ppm</li> <li>Bromine: 900 ppm</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The product shall comply with international power consumption standard such as Energy Star.</li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) should not contain the restricted substances exceeding the following concentrations:               <ol style="list-style-type: none"> <li>DEHPs: 0.1% by weight</li> <li>BBPs: 0.1% by weight</li> <li>DBPs: 0.1% by weight</li> <li>DIBPs: 0.1% by weight</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Computer equipment and products (Category Code – D)		
Product Code	Product Item	Recommended Green Specifications
D11	External hard disk	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are:               <ol style="list-style-type: none"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The product (printed circuit boards and plastic components) should not contain halogenated substances including Polyvinyl Chloride (PVC), Brominated Flame Retardant (BFR) and Chlorinated Flame Retardants (CFR) that the concentrations of halogens should not exceed the following values under IEC 61249-2-21:               <ol style="list-style-type: none"> <li>Total halogens: 1,500 ppm</li> <li>Chlorine: 900 ppm</li> <li>Bromine: 900 ppm</li> </ol> </li> <li>Product components (circuit boards, electrical, electronic and plastic components) should not contain the restricted substances exceeding the following concentrations:               <ol style="list-style-type: none"> <li>DEHPs: 0.1% by weight</li> <li>BBPs: 0.1% by weight</li> <li>DBPs: 0.1% by weight</li> <li>DIBPs: 0.1% by weight</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Water dispenser & accessories (Category Code – E)		
Product Code	Product Item	Recommended Green Specifications
E01	Hot / Cold water dispensers	<b>Mandatory requirement:</b>
		<ul style="list-style-type: none"><li>• The water dispenser shall be filtered water dispenser connected to water mains.</li><li>• If filtered water dispenser connected to water mains cannot be installed, the water dispenser shall have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li></ul>
		<b>Desirable requirement:</b>
		<ul style="list-style-type: none"><li>• 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"><li>i. Lead: 0.1% by weight</li><li>ii. Cadmium: 0.01% by weight</li><li>iii. Mercury: 0.1% by weight</li><li>iv. Hexavalent chromium: 0.1% by weight</li><li>v. PBBs: 0.1% by weight</li><li>vi. PBDEs: 0.1% by weight</li></ul></li></ul>
		<ul style="list-style-type: none"><li>• Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li></ul>
		<ul style="list-style-type: none"><li>• Component parts should not contain halogenated substances.</li></ul>
		<b>Reminder:</b> Avoid using single-use disposable cup.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Water dispenser & accessories (Category Code – E)		
Product Code	Product Item	Recommended Green Specifications
E02	Water carboy for water dispenser	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product supplier shall provide recollection, recycling and delivery services to various government departments.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall be marked with an appropriate plastic resin identification code.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Packaging material should contain information on recycling/recollection channel/method.</li> </ul>
		<b>Reminder:</b>
		<ul style="list-style-type: none"> <li>Avoid using single-use disposable cup.</li> </ul>
		<ul style="list-style-type: none"> <li>Consider “filtered water dispensers connected to water mains” as an alternative to minimise use of bottled water.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F01	Domestic exhaust fan	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The power factor shall not be less than 0.85, or it shall comply with international power consumption standard such as Energy Star.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.





Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F02	Electric fan	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The power factor should not be less than 0.8, or it should comply with international power consumption standard such as Energy Star.</li></ul>
		<ul style="list-style-type: none"><li>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"><li>i. Lead: 0.1% by weight</li><li>ii. Cadmium: 0.01% by weight</li><li>iii. Mercury: 0.1% by weight</li><li>iv. Hexavalent chromium: 0.1% by weight</li><li>v. PBBs: 0.1% by weight</li><li>vi. PBDEs: 0.1% by weight</li></ul></li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F03	Electric radiator (oil filled)	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The power factor should not be less than 0.8.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F04	Refrigerator	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The equipment shall have obtained a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>The refrigerants and foaming agents used for the insulation of the appliance shall have a global warming potential equal to or lower than 15 (rated as CO<sub>2</sub> equivalents over a period of 100 years).</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain the substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane and carbon tetrachloride).</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The following substances should not be used in the production of products: <ul style="list-style-type: none"> <li>i. Phthalates</li> <li>ii. Elemental halogens (e.g. fluorine, chlorine, including in-situ precursors from halide salts)</li> <li>iii. APEO, their derivatives (APDs), or linear alkylbenzene sulphonates</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F05	Room air conditioner	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The equipment shall have obtained an Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD) as follows: <ul style="list-style-type: none"> <li>Room air conditioner, with preference on the split type room air conditioner: Energy Label with Grade 1;</li> <li>Single package type (“window type”) room air conditioner: Energy Label with Grade 4 or above with preference on higher Grade (from 31 December 2021)</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The refrigerant used in the room air conditioners shall be of non-CFCs type.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should not contain the substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane and carbon tetrachloride).</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)															
Product Code	Product Item	Recommended Green Specifications													
F06	Air purifier / cleaner	<b>Mandatory Requirement:</b>													
		<ul style="list-style-type: none"><li>Ozone emission of the product shall not exceed 0.01 ppm.</li></ul>													
		<b>Desirable Requirement:</b>													
		<ul style="list-style-type: none"><li>The product should comply with international power consumption standard such as Energy Star.</li></ul>													
		<ul style="list-style-type: none"><li>Noise emissions: sound pressure level should satisfy the following requirements:</li></ul>													
		<table><tr><td>Air flow (m³/min)</td><td>&lt; 5</td><td>5-10</td><td>10-20</td><td>&gt; 20</td></tr><tr><td>Sound Pressure Level [dB(A)]</td><td>&lt; 45</td><td>&lt; 50</td><td>&lt; 55</td><td>&lt; 60</td></tr></table>				Air flow (m³/min)	< 5	5-10	10-20	> 20	Sound Pressure Level [dB(A)]	< 45	< 50	< 55	< 60
		Air flow (m³/min)	< 5	5-10	10-20	> 20									
		Sound Pressure Level [dB(A)]	< 45	< 50	< 55	< 60									
<ul style="list-style-type: none"><li>The product should have no short-chain chlorinated paraffins added as formulated components.</li></ul>															
<ul style="list-style-type: none"><li>Plastic parts should not contain halogenated substances.</li></ul>															
<ul style="list-style-type: none"><li>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"><li>i. Lead: 0.1% by weight</li><li>ii. Cadmium: 0.01% by weight</li><li>iii. Mercury: 0.1% by weight</li><li>iv. Hexavalent chromium: 0.1% by weight</li><li>v. PBBs: 0.1% by weight</li><li>vi. PBDEs: 0.1% by weight</li></ul></li></ul>															

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F07	Dehumidifier	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The equipment with rated dehumidifying capacity not exceeding 35 litres per day shall have obtained a Grade 2 or above with preference on a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The equipment with rated dehumidifying capacity over 35 litres but not exceeding 87 litres per day should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> <li>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"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F08	Dish washer	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Water consumption shall not be more than 25 litres per normal wash cycle.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The product should have no short-chain chlorinated paraffins added as formulated components.</li> </ul>
		<ul style="list-style-type: none"> <li>Plastic parts should not contain halogenated substances.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should have clear volumetric markings on the detergent dispenser to allow adjustment according to degree of soiling.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F09	Electric storage water heater	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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).</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Electrical appliances (Category Code – F)														
Product Code	Product Item	Recommended Green Specifications												
F10	LCD projector	<b>Mandatory Requirement:</b>												
		<ul style="list-style-type: none"><li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are:<ul style="list-style-type: none"><li>i. Lead: 0.1% by weight</li><li>ii. Cadmium: 0.01% by weight</li><li>iii. Mercury: 0.1% by weight</li><li>iv. Hexavalent chromium: 0.1% by weight</li><li>v. PBBs: 0.1% by weight</li><li>vi. PBDEs: 0.1% by weight</li></ul></li></ul>												
		<b>Desirable Requirement:</b>												
		<ul style="list-style-type: none"><li>The product should comply with international power consumption standard such as Energy Star.</li></ul>												
		<ul style="list-style-type: none"><li>The power consumption should be less than or equal to 0.085 W/lm.</li></ul>												
		<ul style="list-style-type: none"><li>Standby power consumption of this equipment should not exceed 1 W.</li></ul>												
		<ul style="list-style-type: none"><li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li></ul>												
		<ul style="list-style-type: none"><li>Plastic parts should not contain halogenated substances.</li></ul>												
<ul style="list-style-type: none"><li>Noise emissions: sound power level should satisfy the following requirements:</li></ul>														
		<table><tr><td rowspan="2">Classification</td><td colspan="3">Light Output [lm]</td></tr><tr><td>≤1,000</td><td>≤3,000</td><td>&gt;3000</td></tr><tr><td>Sound Power Level [dB(A)]</td><td>≤30</td><td>≤35</td><td>≤40</td></tr></table>		Classification	Light Output [lm]			≤1,000	≤3,000	>3000	Sound Power Level [dB(A)]	≤30	≤35	≤40
Classification	Light Output [lm]													
	≤1,000	≤3,000	>3000											
Sound Power Level [dB(A)]	≤30	≤35	≤40											

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F11	Microwave oven	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Domestic oven using electromagnetic energy in the ISM frequency band of 2,450 MHz, with rated power input of less than 2,500 Watt should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffin flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Plastic parts should not contain halogenated substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F12	Television	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product with a rated visible diagonal screen size exceeding 50 centimeters shall have obtained a Grade 2 or above with preference on a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		The product should be capable of entering a low power-consumption mode (standby mode) automatically when the unit is inactive for a pre-set period of time.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)						
Product Code	Product Item	Recommended Green Specifications				
F13	Vacuum cleaner	<b>Mandatory Requirement:</b>				
		<ul style="list-style-type: none"><li>The product shall be such designed that it can be disassembled for recycling.</li></ul>				
		<b>Desirable Requirement:</b>				
		<ul style="list-style-type: none"><li>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"><li>i. Lead: 0.1% by weight</li><li>i. Cadmium: 0.01% by weight</li><li>ii. Mercury: 0.1% by weight</li><li>iii. Hexavalent chromium: 0.1% by weight</li><li>iv. PBBs: 0.1% by weight</li><li>v. PBDEs: 0.1% by weight</li></ul></li></ul>				
		<ul style="list-style-type: none"><li>Any plastic parts should be manufactured without chlorinated paraffin flame retardants.</li></ul>				
		<ul style="list-style-type: none"><li>Plastic parts should not contain halogenated substances.</li></ul>				
		<ul style="list-style-type: none"><li>Noise emission of the product (sound pressure level or sound power level) should comply with the following requirements.</li></ul> <table><tr><td>Class</td><td>sound pressure level [dB(A)]</td><td>sound power level [dB(A)]</td></tr><tr><td>Requirements</td><td>≤65</td><td>≤76</td></tr></table>	Class	sound pressure level [dB(A)]	sound power level [dB(A)]	Requirements
Class	sound pressure level [dB(A)]	sound power level [dB(A)]				
Requirements	≤65	≤76				

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F14	Washing machine	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The washing machines shall have obtained a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>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 1.</li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>For washing machines that have a rated washing capacity exceeding 10 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.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F15	Audio equipment (stereo system)	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F16	Induction cooker	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product with rated power consumption ranges from 700W to 3500W for each heating unit, and the total rated power not exceeding 7000W, shall have obtained a Grade 2 or above with preference on a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F17	Video equipment (video players & recorders)	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F18	Water boiler	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Plastic parts and sealing materials that come into contact with drinking water shall not release bisphenol A.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The thermal efficiency of the boiler should be at least 80%.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)						
Product Code	Product Item	Recommended Green Specifications				
F19	Transformer	<b>Desirable Requirement:</b>				
		<ul style="list-style-type: none"><li>The power consumption should comply with the percentage of efficiency under IEC60076 as stated in the following table:</li></ul>				
		Low-voltage dry-type distribution transformer	Single Phase		Three Phase	
			kVA	Efficiency (%)	kVA	Efficiency (%)
			≤15	98.1	≤15	97.5
			25	98.33	30	97.9
			37.5	98.49	45	98.1
			50	98.6	75	98.33
			75	98.73	112.5	98.52
			100	98.82	150	98.65
			167	98.96	225	98.82
			250	99.07	300	98.93
			333	99.14	500	99.09
			500	99.22	750	99.21
			667	99.27	1000	99.28
			833	99.31	1500	99.37
					2000	99.43
				2500	99.47	
		<ul style="list-style-type: none"><li>Product components (circuit boards, electrical, electronic and plastic components) should not contain the restricted substances exceeding the following concentrations:<ul style="list-style-type: none"><li>i. Cadmium: 2 ppm</li><li>ii. Lead: 2 ppm</li><li>iii. Hexavalent chromium: 3 ppm</li><li>iv. Mercury: 2 ppm</li><li>v. PBBs: 10ppm</li><li>vi. PBDEs: 10ppm</li></ul></li></ul>				
		<ul style="list-style-type: none"><li>The coating of the product should not contain the heavy metals exceeding the following concentrations:<ul style="list-style-type: none"><li>i. Cadmium: 2 ppm</li><li>ii. Lead: 2 ppm</li><li>iii. Hexavalent chromium: 3 ppm</li><li>iv. Mercury: 2 ppm</li></ul></li></ul>				

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F20	Domestic battery charger	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>Any plastic parts should not contain halogenated substances</li></ul>
		<ul style="list-style-type: none"><li>The product components (circuit boards, electrical, electronic and plastic components) should not contain following restricted substances:<ul style="list-style-type: none"><li>i. Cadmium</li><li>ii. Lead</li><li>iii. Hexavalent chromium</li><li>iv. Mercury</li><li>v. PBBs</li><li>vi. PBDEs</li><li>vii. Short-chain chlorinated paraffins</li></ul></li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F21	Freezer	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are:               <ol style="list-style-type: none"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>Manual with information of optimal temperature when using the product shall be provided.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) should not contain the restricted substances exceeding the following concentrations:               <ol style="list-style-type: none"> <li>DEHPs: 0.1% by weight</li> <li>BBPs: 0.1% by weight</li> <li>DBPs: 0.1% by weight</li> <li>DIBPs: 0.1% by weight</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F22	Commercial electric oven	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) should not contain the restricted substances exceeding the following concentrations:               <ol style="list-style-type: none"> <li>DEHPs: 0.1% by weight</li> <li>BBPs: 0.1% by weight</li> <li>DBPs: 0.1% by weight</li> <li>DIBPs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The coating of the product should not contain the heavy metals exceeding the following concentrations:               <ol style="list-style-type: none"> <li>Cadmium &lt; 2 ppm</li> <li>Lead &lt; 2 ppm</li> <li>Hexavalent chromium &lt; 3 ppm</li> <li>Mercury &lt; 2 ppm</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F23	Hand dryer	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The power consumption of product shall not exceed 12Wh per drying process.</li> </ul>
		<ul style="list-style-type: none"> <li>Airborne noise emission from the appliance, measured as sound power level, shall not exceed 70 dB (A) during operation.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall have an automatically power off function.</li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Standby power consumption of the product should not exceed 0.5Wh.</li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) should not contain the restricted substances exceeding the following concentrations: <ul style="list-style-type: none"> <li>i. DEHPs: 0.1% by weight</li> <li>ii. BBPs: 0.1% by weight</li> <li>iii. DBPs: 0.1% by weight</li> <li>iv. DIBPs: 0.1% by weight</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F24	Cloth drying machine	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall comply with international power consumption standard such as Energy Star or EU Energy Label.</li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Product should have obtained a Grade 3 or above with preference on a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> <li>Product components (circuit boards, electrical, electronic and plastic components) should not contain the restricted substances exceeding the following concentrations: <ul style="list-style-type: none"> <li>i. DEHPs: 0.1% by weight</li> <li>ii. BBPs: 0.1% by weight</li> <li>iii. DBPs: 0.1% by weight</li> <li>iv. DIBPs: 0.1% by weight</li> </ul> </li> <li>The coating of the product should not contain the heavy metals exceeding the following concentrations: <ul style="list-style-type: none"> <li>i. Cadmium &lt; 2 ppm</li> <li>ii. Lead &lt; 2 ppm</li> <li>iii. Hexavalent chromium &lt; 3 ppm</li> <li>iv. Mercury &lt; 2 ppm</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F25	Electric kettle	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The product shall have an automatically power off function.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The thermal efficiency of the product should be at least 80%.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) should not contain the restricted substances exceeding the following concentrations: <ul style="list-style-type: none"> <li>i. DEHPs: 0.1% by weight</li> <li>ii. BBPs: 0.1% by weight</li> <li>iii. DBPs: 0.1% by weight</li> <li>iv. DIBPs: 0.1% by weight</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F26	Digital camera	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The levels of the following hazardous substances in the rechargeable battery should not exceed the following: <ul style="list-style-type: none"> <li>i. Cadmium ≤ 20 mg/kg</li> <li>ii. Lead ≤ 40 mg/kg</li> <li>iii. Mercury ≤ 40 mg/kg</li> </ul> </li> <li>Product components (circuit boards, electrical, electronic and plastic components) should not contain the restricted substances exceeding the following concentrations: <ul style="list-style-type: none"> <li>i. DEHPs: 0.1% by weight</li> <li>ii. BBPs: 0.1% by weight</li> <li>iii. DBPs: 0.1% by weight</li> <li>iv. DIBPs: 0.1% by weight</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Electrical appliances (Category Code – F)		
Product Code	Product Item	Recommended Green Specifications
F27	Electric rice cooker	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Gas appliances (Category Code – G)		
Product Code	Product Item	Recommended Green Specifications
G01	LPG hot plate	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>This equipment shall have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Concentration of NOx in the emission during operation should be <math>\leq 100\text{ppm}</math>.</li> </ul>
		<ul style="list-style-type: none"> <li>Concentration of CO in the emission during operation should be <math>\leq 300\text{ppm}</math>.</li> </ul>
		<ul style="list-style-type: none"> <li>The thermal efficiency of the product should not be less than 60%.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Gas appliances (Category Code – G)		
Product Code	Product Item	Recommended Green Specifications
G02	LPG water heater	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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).</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>NOx emission rate of 60mg/kWh or less should be met.</li> <li>CO emission level of 56ppm or less should be met.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Gas appliances (Category Code – G)		
Product Code	Product Item	Recommended Green Specifications
G03	Towngas gas cooker	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>This equipment shall have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Concentration of NOx in the emission during operation should be ≤ 60ppm.</li> </ul>
		<ul style="list-style-type: none"> <li>The thermal efficiency of the product should not be less than 60%.</li> </ul>
		<ul style="list-style-type: none"> <li>Corrugated cartons used in packaging should be made from recycled paper.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Gas appliances (Category Code – G)		
Product Code	Product Item	Recommended Green Specifications
G04	Towngas water heater	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"><li>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).</li></ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>NOx emission rate of 60mg/kWh or less should be met.</li><li>CO emission level of 56ppm or less should be met.</li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Light fittings (Category Code – H)		
Product Code	Product Item	Recommended Green Specifications
H01	Electronic ballast for fluorescent tube / lamp	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The equipment shall have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>The minimum service life shall be 50,000 lighting hours at the maximum permissible measuring-point temperature (tc) and under standard network conditions.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The electronic ballast should be easily dismountable into case, insulating foil, printed circuit board and electrolyte-containing components to allow material-specific recycling.</li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Light fittings (Category Code – H)		
Product Code	Product Item	Recommended Green Specifications
H02	Fluorescent tube / Compact fluorescent lamp	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"><li>Product shall have obtained an Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD) as follows:<ul style="list-style-type: none"><li>i. The integrated compact fluorescent lamp up to 60W: Energy Label with Grade 1 (before 31 December 2020); or Energy Label with Grade 4 or above with preference on higher Grade, subject to the new grading standards (from 31 December 2020)</li><li>ii. The non-integrated compact fluorescent lamp: A Recognition Type Energy Label</li></ul></li></ul>
		<ul style="list-style-type: none"><li>Colour Rendering Index (CRI) shall be at least 80.</li></ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>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"><li>i. Lead: 0.1% by weight</li><li>ii. Cadmium: 0.01% by weight</li><li>iii. Mercury: 0.1% by weight</li><li>iv. Hexavalent chromium: 0.1% by weight</li><li>v. PBBs: 0.1% by weight</li><li>vi. PBDEs: 0.1% by weight</li></ul></li></ul>
		<ul style="list-style-type: none"><li>The product shall have motion sensor function.</li></ul>
		<b>Reminder:</b> Consider using LED Lamp (item H03) as an alternative for energy saving purpose.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Light fittings (Category Code – H)		
Product Code	Product Item	Recommended Green Specifications
H03	LED lamp	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>LED lamp with a rated lamp voltage of 220V to 240V rated frequency of 50Hz a.c., and a rated lamp wattage up to 60W should have obtained a Grade 2 or above with preference on a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>The product should comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall have motion sensor function.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Fuel oils and hydrocarbon lubricants (Category Code – I)		
Product Code	Product Item	Recommended Green Specifications
I01	Automotive fuel oil	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall meet the requirements specified in Air Pollution Control (Motor Vehicle Fuel) Regulation of Hong Kong.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain biodiesel: a fatty acid methyl ester content of 5% by volume in diesel.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Fuel oils and hydrocarbon lubricants (Category Code – I)		
Product Code	Product Item	Recommended Green Specifications
I02	Lubricating oil / Grease	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The base oil of the product should contain recycled content/ re-refined content/ renewable ingredients.</li> </ul>
		<ul style="list-style-type: none"> <li>The content of halogenated hydrocarbons in the product should not exceed 0.01% by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>The base oil of the product should be biodegradable at least by 60% or more within 28 days.</li> </ul>
		<ul style="list-style-type: none"> <li>The value of EC50/ LC50 shall be 100 mg/L or higher in 72-hour acute toxicity test using algae / 48-hour acute toxicity test using Daphnia / 96-hour acute toxicity test using fish.</li> </ul>
		<ul style="list-style-type: none"> <li>The plastic container should be consisted of at least 25% by weight of recycled content.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Fuel oils and hydrocarbon lubricants (Category Code – I)		
Product Code	Product Item	Recommended Green Specifications
I03	Fuel oil for non-road based applications	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall meet the requirements specified in Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation of Hong Kong.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>For diesel oil, the product should contain biodiesel: a fatty acid methylester content of not less than 5% by volume in diesel.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Furniture (Category Code – J)		
Product Code	Product Item	Recommended Green Specifications
J01	Chair	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The wood materials of the product should meet one of the following requirements: <ul style="list-style-type: none"> <li>i. 40% of the wood material is from recycled/waste wood; or</li> <li>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.</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>i. Unfaced MDF board: free formaldehyde content <math>\leq 8\text{mg}/100\text{g}</math> (by test method ISO 12460–5) or release of formaldehyde <math>\leq 0.124\text{mg}/\text{m}^3</math> air (by test method EN 717-1);</li> <li>ii. Unfaced plywood/ solid wood panels, and coated, overlaid or veneered MDF boards/ plywood/ other wood panels: emission rate of formaldehyde <math>\leq 3.5\text{mg}/\text{m}^2\text{h}</math> (by test method ISO 12460–3) or release of formaldehyde <math>\leq 0.124\text{mg}/\text{m}^3</math> air (by test method EN 717-1).</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The plastic component of the product should not contain any heavy metals and hazardous substances as listed below: <ul style="list-style-type: none"> <li>i. Lead</li> <li>ii. Chromium</li> <li>iii. Cadmium</li> <li>iv. Mercury</li> <li>v. Phthalates</li> <li>vi. Halogenated organic substances</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Wood and natural materials used in the product should not be treated or impregnated with preservative (such as fungicides and insecticides) that are classified due to their hazardous nature by the International Agency for Research on Cancer (IARC) as Type 1 or 2A.</li> </ul>
		<ul style="list-style-type: none"> <li>The product supplier should offer a minimum two-year warranty on the quality of the product effective from the date of delivery, provided that the product is being used in its intended use. This warranty should cover repair or replacement of parts.</li> </ul>
		<ul style="list-style-type: none"> <li>For the cushioning materials, the formaldehyde emission of foam synthetic resin should be <math>30\text{mg}/\text{kg}</math> (30ppm) or less.</li> </ul>
		<ul style="list-style-type: none"> <li>For the paint used on the chair surface, 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).</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Furniture (Category Code – J)		
Product Code	Product Item	Recommended Green Specifications
J02	Mattress	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The following requirements should be met for Latex foam:               <ol style="list-style-type: none"> <li>Heavy metals:                   <ol style="list-style-type: none"> <li>copper &lt; 2ppm</li> <li>chromium, nickel &lt; 1ppm</li> <li>arsenic, lead, antimony, cobalt &lt; 0.5ppm</li> <li>cadmium &lt; 0.1ppm</li> <li>mercury &lt; 0.02ppm</li> </ol> </li> <li>Extractable formaldehyde : &lt; 30ppm</li> <li>VOC : &lt; 0.5mg/m<sup>3</sup></li> <li>Metal complex dyes based on copper, lead, chromium or nickel should not be used</li> <li>Chlorophenols (salts and esters): &lt; 0.1ppm; mono, di-chlorinated phenols (salts and esters) &lt; 0.1ppm</li> <li>Butadiene: &lt; 1ppm</li> <li>Nitrosamines: &lt; 0.001mg/m<sup>3</sup></li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The following requirements should be met for Polyurethane (PUR) foam:               <ol style="list-style-type: none"> <li>Heavy metals :                   <ol style="list-style-type: none"> <li>copper &lt; 2ppm</li> <li>chromium and nickel &lt; 1ppm</li> <li>arsenic, lead, antimony and cobalt &lt; 0.5ppm</li> <li>cadmium &lt; 0.1ppm</li> <li>mercury &lt; 0.02ppm</li> </ol> </li> <li>Extractable formaldehyde : &lt; 30ppm</li> <li>VOC : &lt; 0.5mg/m<sup>3</sup></li> <li>Metal complex dyes based on copper, lead, chromium or nickel should not be used</li> <li>CFCs, HCFCs, HFCs, methylene chloride should not be used as blowing agents</li> <li>Tin in organic form (tin bonded to a carbon atom) should not be used</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Glues used should not contain benzene and chlorobenzenes.</li> </ul>
		<ul style="list-style-type: none"> <li>Cushioning material should not contain formaldehyde, aromatic hydrocarbons, phthalates, organic tins, cadmium, lead, hexavalent chromium, mercury and their compounds.</li> </ul>
		<ul style="list-style-type: none"> <li>The innersprings used in the product should not be electroplated.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Furniture (Category Code – J)		
Product Code	Product Item	Recommended Green Specifications
J03	Partition screen	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Formaldehyde emission: All wood panels shall be of Class E1 under EN13986 in respect of formaldehyde emission, and the requirements are as follows:               <ol style="list-style-type: none"> <li>Unfaced MDF board: free formaldehyde content <math>\leq 8\text{mg}/100\text{g}</math> (by test method ISO 12460–5) or release of formaldehyde <math>\leq 0.124\text{mg}/\text{m}^3</math> air (by test method EN 717-1);</li> <li>Unfaced plywood/ solid wood panels, and coated, overlaid or veneered MDF boards/ plywood/ other wood panels: emission rate of formaldehyde <math>\leq 3.5\text{mg}/\text{m}^2\text{h}</math> (by test method ISO 12460–3) or release of formaldehyde <math>\leq 0.124\text{mg}/\text{m}^3</math> air (by test method EN 717-1).</li> </ol> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The wood materials of the product should meet one of the following requirements:               <ol style="list-style-type: none"> <li>70% of the wood material is from recycled/waste wood; or</li> <li>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.</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The following substances should not be added during manufacturing: fluorine, pentachlorophenol (PCP), tar oils containing benzo(a)pyrene.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>Packaging requirements: Chlorinated or halogenated plastics should not be used in product packaging.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Lead</li> <li>Mercury</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Furniture (Category Code – J)		
Product Code	Product Item	Recommended Green Specifications
J04	Sofa	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Requirements of wood materials: The product should meet one of the following requirements:               <ol style="list-style-type: none"> <li>At least 50% of the wood material is from recycled/ waste wood; or</li> <li>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</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Requirements of cushioning and filling materials:               <ol style="list-style-type: none"> <li>Halogenated flame retardants should not be added</li> <li>Organic bleaching agent should not be used in production</li> <li>Dye stuff should not contain lead, tin, cadmium, hexavalent chromium and mercury</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The plastic component of the product should not contain any heavy metals and hazardous substances as listed below:               <ol style="list-style-type: none"> <li>Lead</li> <li>Chromium</li> <li>Cadmium</li> <li>Mercury</li> <li>Phthalates</li> <li>Halogenated organic substances</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Furniture (Category Code – J)		
Product Code	Product Item	Recommended Green Specifications
J05	Steel filing cabinet	<b>Desirable requirement:</b>
		<ul style="list-style-type: none"> <li>Colour coating should not contain: <ul style="list-style-type: none"> <li>i. Formaldehyde or halogenated solvent</li> <li>ii. Any heavy metallic substances such as mercury, lead, cadmium, chromium or their compounds.</li> <li>iii. Aromatic hydrocarbon including solvents of thinner toluene or xylene.</li> <li>iv. Volatile organic compounds (VOCs) over 250g/litre.</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The compound of 1, 1, 1-trichloroethane should not be used for the surface preparing process.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should contain at least 20% recycled metals.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should allow easy disassembly for recycling.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Furniture (Category Code – J)		
Product Code	Product Item	Recommended Green Specifications
J06	Workstation panel	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Formaldehyde emission: All wood panels shall be of Class E1 under EN13986 in respect of formaldehyde emission, and the requirements are as follows:               <ol style="list-style-type: none"> <li>Unfaced MDF board: free formaldehyde content <math>\leq 8\text{mg}/100\text{g}</math> (by test method ISO 12460–5) or release of formaldehyde <math>\leq 0.124\text{mg}/\text{m}^3</math> air (by test method EN 717-1);</li> <li>Unfaced plywood/ solid wood panels, and coated, overlaid or veneered MDF boards/ plywood/ other wood panels: emission rate of formaldehyde <math>\leq 3.5\text{mg}/\text{m}^2\text{h}</math> (by test method ISO 12460–3) or release of formaldehyde <math>\leq 0.124\text{mg}/\text{m}^3</math> air (by test method EN 717-1).</li> </ol> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The following substances should not be added during manufacturing: fluorine, pentachlorophenol (PCP), tar oils containing benzo(a)pyrene.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>Packaging requirements: Chlorinated or halogenated plastics should not be used in product packaging.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Lead</li> <li>Mercury</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Furniture (Category Code – J)		
Product Code	Product Item	Recommended Green Specifications
J07	Metal furniture	<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>Colour coating should not contain: <ul style="list-style-type: none"> <li>i. Formaldehyde or halogenated solvent</li> <li>ii. Any heavy metallic substances such as mercury, lead, cadmium, chromium or their compounds</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The plastic component of the product should not contain any heavy metals and hazardous substances as listed below: <ul style="list-style-type: none"> <li>i. Lead</li> <li>ii. Chromium</li> <li>iii. Cadmium</li> <li>iv. Mercury</li> <li>v. Phthalates</li> <li>vi. Halogenated organic substances</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>It should be possible to separate out each metal material of the product without the use of special tools. This requirement does not apply to metals used in surface treatments.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should contain at least 20% recycled metals.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Furniture (Category Code – J)		
Product Code	Product Item	Recommended Green Specifications
J08	Wooden furniture	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall allow easy disassembly for recycling.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The wood materials of the product should meet one of the following requirements: <ul style="list-style-type: none"> <li>i. At least 50% of the wood material is from recycled/ waste wood; or</li> <li>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.</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>i. Unfaced MDF board: free formaldehyde content <math>\leq 8\text{mg}/100\text{g}</math> (by test method ISO 12460–5) or release of formaldehyde <math>\leq 0.124\text{mg}/\text{m}^3</math> air (by test method EN 717-1);</li> <li>ii. Unfaced plywood/ solid wood panels, and coated, overlaid or veneered MDF boards/ plywood/ other wood panels: emission rate of formaldehyde <math>\leq 3.5\text{mg}/\text{m}^2\text{h}</math> (by test method ISO 12460–3) or release of formaldehyde <math>\leq 0.124\text{mg}/\text{m}^3</math> air (by test method EN 717-1).</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The following substances should not be added during manufacturing: fluorine, pentachlorophenol (PCP), tar oils containing benzo(a)pyrene.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain any heavy metals or their compounds as listed below: <ul style="list-style-type: none"> <li>i. Arsenic</li> <li>ii. Cadmium</li> <li>iii. Lead</li> <li>iv. Mercury</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Vinyl Chloride Monomer (VCM) should not be used in any part of the furniture product.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Furniture (Category Code – J)		
Product Code	Product Item	Recommended Green Specifications
J09	Outdoor furniture (chair, table & bench)	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The wood materials of the product should meet one of the following requirements:               <ol style="list-style-type: none"> <li>At least 50% of the wood material is from recycled/waste wood; or</li> <li>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.</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>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:               <ol style="list-style-type: none"> <li>Unfaced MDF board: free formaldehyde content <math>\leq 8\text{mg}/100\text{g}</math> (by test method ISO 12460–5) or release of formaldehyde <math>\leq 0.124\text{mg}/\text{m}^3</math> air (by test method EN 717-1);</li> <li>Unfaced plywood/ solid wood panels, and coated, overlaid or veneered MDF boards/ plywood/ other wood panels: emission rate of formaldehyde <math>\leq 3.5\text{mg}/\text{m}^2\text{h}</math> (by test method ISO 12460–3) or release of formaldehyde <math>\leq 0.124\text{mg}/\text{m}^3</math> air (by test method EN 717-1).</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The product (coatings, sealants, additives, wooden, metal or plastic parts) should not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Hexavalent chromium</li> <li>Lead</li> <li>Mercury</li> <li>Nickel</li> <li>Tin</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain the following substances:               <ol style="list-style-type: none"> <li>Pentachlorophenol (PCP)</li> <li>Phthalates</li> <li>Halogenated organic substances</li> <li>Reactive or organic chlorinated compounds (e.g. sodium hypochlorite)</li> <li>Tar oils containing benzo(a)pyrene</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>In the case of products composed of more than 10% by weight plastic, at least 50% of the plastic should consist of recycled material.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Containers and collection bins for waste / recyclables (Category Code – K)		
Product Code	Product Item	Recommended Green Specifications
K01	Plastic rubbish bin	<b>Mandatory Requirement:</b>
		• The product should contain at least 40% recycled plastic content.
		• The product shall be marked with an appropriate plastic resin identification code.
		<b>Desirable Requirement:</b>
		• The product should not contain cadmium and lead.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Containers and collection bins for waste / recyclables (Category Code – K)		
Product Code	Product Item	Recommended Green Specifications
K02	Wheeled refuse container	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall contain at least 20% by weight of recycled contents.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall be marked with an appropriate plastic resin identification code.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain at least 50% by weight of recycled contents.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should have no flame retardant of polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs) or short-chain chlorinated paraffins added as formulated components.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain phthalates.</li> </ul>
		<ul style="list-style-type: none"> <li>The levels of the following hazardous substances as impurities should not exceed: <ul style="list-style-type: none"> <li>i. Arsenic: 50 ppm</li> <li>ii. Cadmium: 20 ppm</li> <li>iii. Hexavalent chromium: 100 ppm</li> <li>iv. Lead: 100 ppm</li> <li>v. Mercury: 10 ppm</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Containers and collection bins for waste / recyclables (Category Code – K)		
Product Code	Product Item	Recommended Green Specifications
K03	Stainless steel recyclables collection bin	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain at least 60% recycled contents.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>i. Arsenic</li> <li>ii. Cadmium</li> <li>iii. Hexavalent chromium</li> <li>iv. Lead</li> <li>v. Mercury</li> <li>vi. Nickel</li> <li>vii. Tin</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Wearables (Category Code – L)		
Product Code	Product Item	Recommended Green Specifications
L01	Safety helmet	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall be marked with an appropriate plastic resin identification code.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain recycled plastic content.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Wearables (Category Code – L)		
Product Code	Product Item	Recommended Green Specifications
L02	Glove for field work [polythene (disposable), rubber (industrial)]	<b>Desirable Requirement:</b>
		<p>For polythene (disposable) and rubber (industrial) gloves:</p> <ul style="list-style-type: none"> <li>The product should not be impregnated, labelled, coated or otherwise treated in a manner which would prevent post-consumer recycling.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Wearables (Category Code – L)		
Product Code	Product Item	Recommended Green Specifications
L03	Rainboots	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The rainboot should contain at least 20% recycled plastics or rubber.</li> </ul>
		<ul style="list-style-type: none"> <li>The amount of formaldehyde of the footwear should not exceed 75 mg/kg.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain any heavy metals or their compounds as listed below:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Hexavalent chromium</li> <li>Lead</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Wearables (Category Code – L)																
Product Code	Product Item	Recommended Green Specifications														
L04	Safety boots / shoes	<b>Desirable Requirement:</b>														
		<ul style="list-style-type: none"><li>The footwear should contain recycled content. The blending ratio of recycled material should satisfy any of the following requirements:</li></ul>														
		<table><tr><td>Material Classification</td><td>Recycled material</td><td>Reference compounding ratio (mass%) in main material of uppers or soles</td></tr><tr><td rowspan="2">Textiles</td><td>Post-/Pre-consumer polymer recycled fibers, chemical recycled fibers</td><td>More than 40%</td></tr><tr><td>Organically grown cotton</td><td>100%</td></tr><tr><td>Plastics</td><td>Recycled plastics</td><td>More than 20%</td></tr><tr><td>Rubber</td><td>Recycled rubber</td><td>More than 20%</td></tr></table>	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%
		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"><li>The product should not contain any heavy metals or their compounds as listed below:<ul style="list-style-type: none"><li>i. Arsenic</li><li>ii. Cadmium</li><li>iii. Hexavalent chromium</li><li>iv. Lead</li></ul></li></ul>														
		<ul style="list-style-type: none"><li>The product should not contain Pentachlorophenol (PCP), Tetrachlorophenol (TCP) and its salts and esters.</li></ul>														
<ul style="list-style-type: none"><li>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.</li></ul>																
<ul style="list-style-type: none"><li>The amount of formaldehyde of the footwear should not exceed the following limits:<ul style="list-style-type: none"><li>i. textile: 75 mg/kg</li><li>ii. leather: 150 mg/kg</li></ul></li></ul>																
<ul style="list-style-type: none"><li>The levels of dimethyl flumarate (DMF) should not exceed 0.1 mg/kg.</li></ul>																

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Office equipment (Category Code – M)		
Product Code	Product Item	Recommended Green Specifications
M01	Facsimile equipment	<b>Mandatory requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall comply with international power consumption standard such as Energy Star.</li> </ul>
		<b>Desirable requirement:</b>
		<ul style="list-style-type: none"> <li>The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffin flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>
		<ul style="list-style-type: none"> <li>The operation should not exceed the ozone emission rate of 3 mg/h.</li> </ul>
		<ul style="list-style-type: none"> <li>Should not cause a dust concentration in excess of 0.25mg/m<sup>3</sup>.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Office equipment (Category Code – M)		
Product Code	Product Item	Recommended Green Specifications
M02	Photocopier	<b>Mandatory requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall comply with international power consumption standard such as Energy Star.</li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable requirement:</b>
		<ul style="list-style-type: none"> <li>The equipment should have obtained a Recognition Type Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> <li>Component parts should not contain halogenated substances.</li> <li>The operation should not exceed the ozone emission rate of 3 mg/h.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Office equipment (Category Code – M)		
Product Code	Product Item	Recommended Green Specifications
M03	Fire extinguisher	<b>Mandatory requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall not use halon or its compounds as the fire extinguishing agent.</li> </ul>
		<ul style="list-style-type: none"> <li>Fire extinguishing agents shall comply with the following maximum allowable concentrations of heavy metals:               <ol style="list-style-type: none"> <li>Cadmium (Cd): &lt; 0.003 mg/L</li> <li>Copper (Cu): &lt; 2 mg/L</li> <li>Lead (Pb): &lt; 0.01 mg/L</li> <li>Mercury (Hg): &lt; 0.006 mg/L</li> <li>Zinc (Zn): &lt; 3 mg/L</li> </ol> </li> </ul>
		<b>Desirable requirement:</b>
		<ul style="list-style-type: none"> <li>Alkylphenol ethoxylates (APEOs), perfluorooctanesulfonate (PFOS), perfluorohexanesulfonate (PFHxS), perfluorooctanoate (PFOA) and 8:2 fluorotelomer alcohol (8:2 FTOH) should not be used as a surfactant for fire extinguishing materials.</li> </ul>
		<ul style="list-style-type: none"> <li>Plastic materials used for packaging should not contain halogenated polymers.</li> </ul>
		<ul style="list-style-type: none"> <li>The biodegradability of surfactant used for the fire extinguishing agent of portable fire extinguisher should not be less than 90%.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Office equipment (Category Code – M)		
Product Code	Product Item	Recommended Green Specifications
M04	Paper shredder	<b>Desirable requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.





Packaging materials (Category Code – N)		
Product Code	Product Item	Recommended Green Specifications
N01	Food packaging - plastic films	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The product should not contain or be manufactured with:<ul style="list-style-type: none"><li>i. phthalates;</li><li>ii. halogenated organic compounds;</li><li>iii. compounds containing mercury, lead, cadmium, arsenic or hexavalent chromium; and</li><li>iv. 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</li></ul></li></ul>
		<b>Reminder:</b> Reduce packaging as far as possible. Consider simple packaging or using reusable food container to store food to reduce plastic waste generation.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Packaging materials (Category Code – N)		
Product Code	Product Item	Recommended Green Specifications
N02	Packaging paper	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The fibre source of the product shall meet one of the following: <ul style="list-style-type: none"> <li>Percentage of recycled fibre in the product shall not less than 65% ; or</li> <li>For virgin wood fibers, fibre is originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC or equivalent]</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>Elemental chlorine; and</li> <li>Halogenated bleaching agents that produce elemental halogens in-situ</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/paper production, if necessary, should be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents.</li> </ul>
		<ul style="list-style-type: none"> <li>Colorants (pigments or dyes) containing mercury, lead, cadmium or hexavalent chromium compounds as constituents should not be used.</li> </ul>
		<b>Reminder:</b> Reduce packaging as far as possible. Consider simple or reusable packaging.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Packaging materials (Category Code – N)		
Product Code	Product Item	Recommended Green Specifications
N03	Plastic films and sheets	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The product should have recycled content</li></ul>
		<ul style="list-style-type: none"><li>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.</li></ul>
		<ul style="list-style-type: none"><li>The product should not contain Polyvinyl Chloride (PVC) or chlorinated plastics</li></ul>
		<b>Reminder:</b> Reduce packaging as far as possible. Consider simple or reusable packaging.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Packaging materials (Category Code – N)		
Product Code	Product Item	Recommended Green Specifications
N04	Carton boxes	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall 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"> <li>Elemental chlorine; and</li> <li>Halogenated bleaching agents that produce elemental halogens in-situ.</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Colorants (pigments or dyes) containing mercury, lead, cadmium or hexavalent chromium compounds as constituents shall not be used.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with optical brighteners or fluorescent whitening agents.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should be made of paper fibre with 100% recycled content.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper for printing and photocopying (Category Code – O)		
Product Code	Product Item	Recommended Green Specifications
O01	Continuous stationery for computer-generated form	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain 50% of recovered/recycled fibre, including a minimum of 30% of postconsumer materials.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper for printing and photocopying (Category Code – O)		
Product Code	Product Item	Recommended Green Specifications
O02	Recycled photocopying paper (office use)	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The paper shall contain at least 80% recovered fibre or at least 40% postconsumer fibre by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>Paper packing (paper wrapper and carton box) shall be made from 100% recovered fibre by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>Elemental chlorine</li> <li>Halogenated bleaching agents that produce elemental halogens in-situ</li> <li>Non-biodegradable complexing agents such as ethylenediaminetetraacetic acid (EDTA) or its derivatives</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/ paper production, if necessary, should be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>Chemical Oxygen Demand (COD) in water discharge during pulp and paper production should be less than 20kg/tonne of paper produced.</li> </ul>
		<ul style="list-style-type: none"> <li>Adsorbable organic halides emissions (AOX) from the production of each pulp used should be strictly control.</li> </ul>
		<ul style="list-style-type: none"> <li>The active components in biocides or biostatic agents used in paper production should not bioaccumulate or be potentially bioaccumulative.</li> </ul>
		<ul style="list-style-type: none"> <li>Pallet packing material should not contain chlorine-based plastics.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper for printing and photocopying (Category Code – O)		
Product Code	Product Item	Recommended Green Specifications
O03	Recycled paper for printing	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The fibre source of the product should contain of a minimum of 80% recovered fibre, including a minimum of 40% postconsumer fibre by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>Paper packing (paper wrapper and carton box) should be made from 100% recovered fibre by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Elemental chlorine</li> <li>Halogenated bleaching agents that produce elemental halogens in-situ</li> <li>Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/paper production, if necessary, should be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>Chemical Oxygen Demand (COD) in water discharge during pulp and paper production should be less than 20kg/tonne of paper produce.</li> </ul>
		<ul style="list-style-type: none"> <li>Pallet packing material should not contain chlorine-based plastics.</li> </ul>
		<ul style="list-style-type: none"> <li>Adsorbable organic halides emissions (AOX) from the production of each pulp used should be strictly control.</li> </ul>
		<ul style="list-style-type: none"> <li>The active components in biocides or biostatic agents used in paper production should not bioaccumulate or be potentially bioaccumulative.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper for printing and photocopying (Category Code – O)		
Product Code	Product Item	Recommended Green Specifications
O04	Woodfree photocopying paper (office use)	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The paper pulp shall be made from sustainably managed forests and materials with recycled content are preferable.</li> </ul>
		<ul style="list-style-type: none"> <li>Paper packing (paper wrapper and carton box) shall be made from 100% recovered fibre by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>Elemental chlorine</li> <li>Halogenated bleaching agents that produce elemental halogens in-situ</li> <li>Non-biodegradable complexing agents such as ethylenediaminetetraacetic acid (EDTA) or its derivatives</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/paper production, if necessary, should be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be manufactured with dyes, pigments or coatings that contain lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>Chemical Oxygen Demand (COD) in water discharge during pulp and paper production should be less than 20kg/tonne of paper produced.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Paper for printing and photocopying (Category Code – O)		
Product Code	Product Item	Recommended Green Specifications
O05	Printing paper coated on both sides	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Shall obtain copy of forestry certification(s) or green labels awarded to the brand product offered or manufacturer such as Forest Stewardship Council (FSC) and Programme for the Endorsement of Forestry Certification (PEFC) awarded to the brand product offered or the manufacturer.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The fiber source of the product should consist of a minimum of 80% recovered fibre, including a minimum of 40% postconsumer fibre by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>Paper packing (paper wrapper and carton box) should be made from 100% recovered fibre by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Elemental chlorine</li> <li>Halogenated bleaching agents that produce elemental halogens in-situ</li> <li>Non-biodegradable complexing agents such as ethylenediaminetetraacetic acid (EDTA) or its derivatives.</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/paper production, if necessary, should be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be manufactured with dyes, pigments or coatings that contain phthalates, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li> </ul>
		<ul style="list-style-type: none"> <li>Chemical Oxygen Demand (COD) in water discharge during pulp and paper production should be less than 20kg/tonne of paper produced.</li> </ul>
		<ul style="list-style-type: none"> <li>Plastic packing, if applicable, should be made from chlorine free plastics.</li> </ul>
		<b>Reminder:</b> Consider using recycled paper (item O03) for paper printing.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper for printing and photocopying (Category Code – O)		
Product Code	Product Item	Recommended Green Specifications
O06	Woodfree paper for printing	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The paper pulp should be made from sustainably managed forests and materials with recycled content are preferable.</li> </ul>
		<ul style="list-style-type: none"> <li>Paper packing (paper wrapper and carton box) should be made from 100% recovered fibre by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Elemental chlorine</li> <li>Halogenated bleaching agents that produce elemental halogens in-situ</li> <li>Non-biodegradable complexing agents such as ethylenediaminetetraacetic acid (EDTA) or its derivatives</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/paper production, if necessary, should be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be manufactured with dyes, pigments or coatings that contain lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>Chemical Oxygen Demand (COD) in water discharge during pulp and paper production should be less than 20kg/tonne of paper produced.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper for printing and photocopying (Category Code – O)		
Product Code	Product Item	Recommended Green Specifications
O07	Publication booklets	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"><li>• The fibre source of the product shall meet one of the followings:<ul style="list-style-type: none"><li>i. A minimum of 60% recovered fibre; or</li><li>ii. For virgin fibre products, fibre is originated from sustainably managed forest which is certified by internationally recognized standard (e.g. FSC, PEFC)</li></ul></li></ul>
		<ul style="list-style-type: none"><li>• The total content of the following heavy metals or their compounds in printing inks or toners used in the product shall not exceed 100ppm by dry weight:<ul style="list-style-type: none"><li>i. Cadmium</li><li>ii. Hexavalent Chromium</li><li>iii. Mercury</li><li>iv. Lead</li></ul></li></ul>
		<ul style="list-style-type: none"><li>• Note: Not applicable to legal and sensitive documents</li></ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>• The product should not contain the component that hinders recycling, such as varnish coating, laminate of polyethylene or polypropylene, metal printing (gilt and silver gilt), and fabric and felt of synthetic fiber.</li></ul>
		<ul style="list-style-type: none"><li>• Washing agents used in the production process should not contain aromatic hydrocarbons and phthalates.</li></ul>
		<b>Reminder:</b> Consider adopting electronic means (e.g. website, email etc.) to disseminate information when feasible.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper for printing and photocopying (Category Code – O)		
Product Code	Product Item	Recommended Green Specifications
O08	Paper for newsprint	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The paper shall contain 100% recycled materials by weight of the product.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The content of heavy metals or their compounds (dry weight) in colourants (a pigment or a dye) used in the product should not exceed below levels:               <ol style="list-style-type: none"> <li>Cadmium: 20 mg/kg</li> <li>Chromium: 100 mg/kg</li> <li>Mercury: 4 mg/kg</li> <li>Lead: 100 mg/kg</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Elemental chlorine</li> <li>Halogenated bleaching agents that produce elemental halogens in-situ</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Alkylphenol ethoxylates (APEOs), ethylenediamine tetraacetic acid (EDTA) and diethylenetriamine pentaacetic acid (DTPA) should not be used during the production process of the product.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper products other than for printing and photocopying (Category Code – P)		
Product Code	Product Item	Recommended Green Specifications
P01	Brown wrapping paper	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should consist of a minimum of 30% recovered fibre, including a minimum of 25% postconsumer fibre by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>The wood pulp should be derived from sustainably managed forests.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper products other than for printing and photocopying (Category Code – P)		
Product Code	Product Item	Recommended Green Specifications
P02	Toilet paper & paper towel	<b>Mandatory Requirement:</b>
		<b>Toilet Paper in Rolls</b>
		<ul style="list-style-type: none"> <li>The toilet paper shall contain by weight 100% recovered fibre and that recovered fibre shall contain not less than 60% postconsumer fibre.</li> </ul>
		<ul style="list-style-type: none"> <li>Bleaching agent used in pulp/paper production, if necessary, shall not contain chlorine.</li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/paper production, if necessary, shall be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The core and carton box packing shall be made from 100% recovered fibre.</li> </ul>
		<b>Jumbo Roll Toilet Paper</b>
		<ul style="list-style-type: none"> <li>The toilet paper shall contain by weight 100% recovered fibre and that recovered fibre shall contain not less than 60% postconsumer fibre.</li> </ul>
		<ul style="list-style-type: none"> <li>Bleaching agent used in pulp/paper production, if necessary, shall not contain chlorine.</li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/paper production, if necessary, shall be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The core and carton box packing shall be made of 100% recovered fibre.</li> </ul>
		<b>Paper Towel (Manifold)</b>
		<ul style="list-style-type: none"> <li>Contains by weight 100% recovered fibre and that recovered fibre shall contain not less than 60% postconsumer fibre.</li> </ul>
		<ul style="list-style-type: none"> <li>Bleaching agent used in pulp/paper production, if necessary, shall not contain chlorine</li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/paper production, if necessary, shall be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>Packing: carbon box shall be made of 100% recovered fibre.</li> </ul>
		<b>Hand Roll Paper Towel</b>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

		<ul style="list-style-type: none"> <li>The paper towel shall contain by weight 100% recovered fibre and that recovered fibre shall contain not less than 60% postconsumer fibre.</li> </ul>
		<ul style="list-style-type: none"> <li>Bleaching agent used in pulp/paper production, if necessary, shall not contain chlorine.</li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/paper production, if necessary, shall be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The core and carton box packing shall be made of 100% recovered fibre.</li> </ul>
		<b>Desirable Requirement:</b>
		<b>Toilet Paper in Rolls</b>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with optical brighteners.</li> </ul>
		<ul style="list-style-type: none"> <li>Bleaching agent used in pulp/paper production, if necessary, should not contain halogenated bleaching agents or non-biodegradable complexing agents such as ethylenediaminetetraacetic acid (EDTA) or its derivatives.</li> </ul>
		<ul style="list-style-type: none"> <li>Absorbable Organic Halides (AOX) emissions from each individual pulp used in the paper should not exceed 0.25 kg/tonne.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be manufactured with dyes, pigments or coatings that contain lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li> </ul>
		<b>Jumbo Roll Toilet Paper</b>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with optical brighteners.</li> </ul>
		<ul style="list-style-type: none"> <li>Bleaching agent used in pulp/paper production, if necessary, should not contain halogenated bleaching agents or non-biodegradable complexing agents such as ethylenediaminetetraacetic acid (EDTA) or its derivatives.</li> </ul>
		<ul style="list-style-type: none"> <li>Absorbable Organic Halides (AOX) emissions from each individual pulp used in the paper should not exceed 0.25 kg/tonne.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be manufactured with dyes, pigments or coatings that contain lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li> </ul>
		<b>Paper Towel (Manifold)</b>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with optical brighteners.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

	<ul style="list-style-type: none"><li>• Bleaching agent used in pulp/paper production, if necessary, should not contain halogenated bleaching agents or non-biodegradable complexing agents such as ethylenediaminetetraacetic acid (EDTA) or its derivatives.</li></ul>
	<ul style="list-style-type: none"><li>• Absorbable Organic Halides (AOX) emissions from each individual pulp used in the paper should not exceed 0.25 kg/tonne.</li></ul>
	<ul style="list-style-type: none"><li>• The product should not be manufactured with dyes, pigments or coatings that contain lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li></ul>
	<b>Hand Roll Paper Towel</b>
	<ul style="list-style-type: none"><li>• The product should not be formulated or manufactured with optical brighteners.</li></ul>
	<ul style="list-style-type: none"><li>• Bleaching agent used in pulp/paper production, if necessary, should not contain halogenated bleaching agents or non-biodegradable complexing agents such as ethylenediaminetetraacetic acid (EDTA) or its derivatives.</li></ul>
	<ul style="list-style-type: none"><li>• Absorbable Organic Halides (AOX) emissions from each individual pulp used in the paper should not exceed 0.25 kg/tonne.</li></ul>
	<ul style="list-style-type: none"><li>• The product should not be manufactured with dyes, pigments or coatings that contain lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li></ul>
	<b>Reminder:</b> Consider using a towel or hand dryer (F23) to reduce waste generation.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Paper products other than for printing and photocopying (Category Code – P)		
Product Code	Product Item	Recommended Green Specifications
P03	Index card (paper)	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain a minimum of 50% of recovered/ recycled fibre, including a minimum of 30% of postconsumer materials.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper products other than for printing and photocopying (Category Code – P)		
Product Code	Product Item	Recommended Green Specifications
P04	Compostable paper bag	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall be biodegradable.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain a minimum of 40% recycled fibre by weight, including a minimum of 20% postconsumer fibre.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper products other than for printing and photocopying (Category Code – P)		
Product Code	Product Item	Recommended Green Specifications
P05	Notepad	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The fibre source of the product should meet one of the following requirements: <ul style="list-style-type: none"> <li>i. A minimum of 50% recycled content with at least 20% postconsumer fibre by weight; or</li> <li>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</li> <li>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</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>i. Elemental chlorine;</li> <li>ii. Halogenated bleaching agents that produce elemental halogens in-situ; and</li> <li>iii. Non-biodegradable complexing agents such as ethylenediaminetetraacetic acid (EDTA) or its derivatives</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Surfactant used in pulp/paper production, if necessary, should be biodegradable.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with optical brighteners or fluorescent whitening agents.</li> </ul>
		<ul style="list-style-type: none"> <li>Chemical Oxygen Demand (COD) in water discharge during pulp and paper production should be less than 20kg/tonne of paper produced.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Paper products other than for printing and photocopying (Category Code – P)		
Product Code	Product Item	Recommended Green Specifications
P06	Printed labels	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The fibre source of the product should meet one of the following: <ul style="list-style-type: none"> <li>i. A minimum of 50% recycled content with at least 20% of post-consumer fibre by weight; or</li> <li>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]</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>i. Elemental chlorine; and</li> <li>ii. Halogenated bleaching agents that produce elemental halogens in-situ</li> </ul> </li> </ul>
		<b>Reminder:</b> Avoid using printed labels as far as possible. For example, utilize waste paper and adhesive tape to make labels.

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Plastics and rubber products (Category Code – Q)		
Product Code	Product Item	Recommended Green Specifications
Q01	Plastic garbage bag	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"><li>The product shall be made from at least 50% by weight of recycled plastics content, in which shall contain a minimum of 40% post-consumer or post-industrial material.</li></ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The product should be marked with an appropriate plastic resin identification code.</li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Plastics and rubber products (Category Code – Q)		
Product Code	Product Item	Recommended Green Specifications
Q02	Plastic bags (other uses)	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall contain a minimum of 30% by weight of recycled plastic.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain a minimum of 50% by weight of recycled plastic.</li> <li>The product should be marked/ printed with an appropriate plastic resin identification code.</li> </ul>
		<b>Reminder:</b> <ul style="list-style-type: none"> <li>Avoid using single-use disposable plastic bags including umbrella plastic bags. Consider to use reusable bags e.g. textile bag (item U02).</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Plastics and rubber products (Category Code – Q)		
Product Code	Product Item	Recommended Green Specifications
Q03	Traffic management tools (traffic bollard, traffic cones & road barrier)	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>For traffic bollard, 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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>For traffic cone and traffic barrier, the minimum recycled or recovered plastic content (by weight) of products should be as follows: <ul style="list-style-type: none"> <li>Traffic cone: 50%</li> <li>Traffic barrier: 80%</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The product should be marked with an appropriate plastic resin identification code.</li> </ul>
		<ul style="list-style-type: none"> <li>The following substances should not be added during manufacturing processes: <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Chromium</li> <li>Lead</li> <li>Mercury</li> <li>Tin (including organic tin catalysts or stabilizers)</li> <li>Fluorine</li> <li>Chlorine</li> <li>Pentachlorophenol (PCP)</li> <li>Tar oils (benzo(a)pyrene)</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>If 1,3-butadiene is used in latex, rubber or foams, its concentration should be less than 1mg/kg.</li> </ul>
		<ul style="list-style-type: none"> <li>Chlorinated or halogenated plastics should not be used in product packaging. Used packaging should be able to be recycled by local recycling systems.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Plastics and rubber products (Category Code – Q)		
Product Code	Product Item	Recommended Green Specifications
Q04	General plastic products	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall be marked with an appropriate plastic resin identification code.</li> </ul>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain a minimum of 90% by weight of recycled or recovered plastic materials against the total weight of plastic contained in the product.</li> <li>The following substances should not be added during manufacturing processes:               <ol style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Chromium</li> <li>Copper</li> <li>Lead</li> <li>Mercury</li> <li>Tin (including organic tin catalysts or stabilizers)</li> <li>Fluorine</li> <li>Chlorine</li> <li>Pentachlorophenol (PCP)</li> <li>Tar oils (benzo(a)pyrene)</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Plastics and rubber products (Category Code – Q)		
Product Code	Product Item	Recommended Green Specifications
Q05	General rubber products	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall contain a minimum of 50% by weight of recycled or recovered rubber materials against the total weight of rubber contained in the product.</li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should contain a minimum of 90% by weight of recycled or recovered rubber materials against the total weight of rubber contained in the product.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain the following substances: <ul style="list-style-type: none"> <li>i. Halogenated organic solvents or binding agents</li> <li>ii. Elemental halogens (e.g. fluorine, chlorine, including in-situ precursors from halide salts)</li> <li>iii. Fluoropolymer additives or coatings</li> <li>iv. Aniline based amines</li> <li>v. Phthalates</li> <li>vi. Aziridine or polyaziridines</li> <li>vii. Pigments and additives that contain lead, tin, arsenic, cadmium, mercury or their compounds</li> <li>viii. CFCs, HCFCs, HFCs or any ozone depleting substances</li> <li>ix. PBDEs, or chlorinated organic flame retardants</li> <li>x. 1,3-butadiene</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Printing and publishing equipment and supplies (Category Code – R)		
Product Code	Product Item	Recommended Green Specifications
R01	Environment-friendly lithographic process inks	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The ink shall comply with the VOC limit for regulated printing inks stipulated in the Air Pollution Control (VOC) Regulation of Hong Kong.</li> </ul>
		<ul style="list-style-type: none"> <li>The ink shall contain a minimum of 20% vegetable or soybean oil in its composition.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should not be formulated with pigments based on compounds of antimony, arsenic, cadmium, hexavalent chromium, lead, mercury and selenium.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated with               <ol style="list-style-type: none"> <li>Phthalates</li> <li>Halogenated solvents</li> <li>Aromatic hydrocarbons at concentrations exceeding 1% in total by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Methanol should not be used, except in industrial methylated spirits at most 5%.</li> </ul>
		<ul style="list-style-type: none"> <li>Inks should not use hydroquinone and formaldehyde or they should not have potentials to release formaldehyde during use.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not exceed the following VOC and mineral oil content levels:               <ol style="list-style-type: none"> <li>Water-based inks: VOC &lt; 5%; mineral oil content = 0%</li> <li>Sheetfed offset inks: VOC &lt; 3%; mineral oil content &lt; 1%</li> <li>Heatset web offset inks: VOC &lt; 25%; mineral oil content &lt; 25%</li> <li>Coldset web offset and letterpress inks: VOC &lt; 4%; mineral oil content &lt; 25%</li> <li>Ultraviolet cured inks: VOC &lt; 2%; mineral oil content = 0%</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Solvents should not exceed 10% by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>Ink containers should be recyclable.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S01	Adhesive tape & tape dispenser	<b>Desirable Requirement:</b>
		<b>Adhesive tape</b>
		<ul style="list-style-type: none"> <li>Adhesive tape core should contain 40% of recycled paper or recycled plastic materials.</li> </ul>
		<ul style="list-style-type: none"> <li>The adhesives used in the adhesive coating layers should not contain organic solvents.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain detectable phthalate plasticizers.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should comply with the following maximum allowable concentrations of hazardous substances:               <ol style="list-style-type: none"> <li>Antimony: &lt; 60 mg/kg by weight</li> <li>Arsenic: &lt; 25 mg/kg by weight</li> <li>Cadmium: &lt; 75 mg/kg by weight</li> <li>Hexavalent chromium: &lt; 60 mg/kg by weight</li> <li>Lead: &lt; 90 mg/kg by weight</li> <li>Selenium: &lt; 500 mg/kg by weight</li> </ol> </li> </ul>
		<b>Adhesive tape dispenser</b>
		<ul style="list-style-type: none"> <li>The product should contain at least 25% recycled plastic content.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain PVC or other chlorine-containing plastics.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should be marked with an appropriate resin identification code to ease recycling.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S02	Correction fluid and thinner	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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).</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall comply with EN71 Part 3 latest version or equivalent.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and Office Supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S03	File box	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The material of the product shall meet one of the following requirements: <ul style="list-style-type: none"> <li>i. The box shall be made of hard and stiff cardboard containing a minimum of 50% recycled paper fibre; or</li> <li>ii. For virgin fibre products, fibre shall be originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC].</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>i. Elemental chlorine</li> <li>ii. Halogenated bleaching agents that produce elemental halogens in-situ</li> <li>iii. Optical brighteners</li> <li>iv. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives</li> </ul> </li> <li>The product's parts, accessories or affixed plastic materials should be easy to separate and contain no PVC.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S04	General office stationery	<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>The product should comprise more than 25% of recycled raw materials (particularly for the constituent paper fibre and plastics) of the total product weight.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be manufactured with dyes, pigments or coatings that contain mercury, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain alkylphenol ethoxylates (APEOs), phthalates or halogenated solvents.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S05	Ink / Toner cartridge	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product supplier shall provide collection, recycling and delivery services to various government departments.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The recycling percentage of recovered toner cartridge parts should be over 95% of the total product weight (excluding the toner).</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain any materials containing mercury, cadmium, lead, nickel or hexavalent chromium compounds as constituent parts.</li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without the following halogenated flame retardants: polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs) and chlorinated paraffins.</li> </ul>
		<ul style="list-style-type: none"> <li>The toners should not contain azo colourants (dyes or colour pigments) that can release carcinogenic substances.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S06	Self-stick note-pad	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The fibre source of the product should consist of a minimum of 25% recycled post-consumer fibre.</li> </ul>
		<ul style="list-style-type: none"> <li>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].</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Elemental chlorine</li> <li>Halogenated bleaching agents that produce elemental halogens in-situ</li> <li>Optical brighteners</li> <li>Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be manufactured with dyes, pigments or coatings that contain mercury, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain alkylphenol ethoxylates (APEOs), phthalates, halogenated solvents or ethylene glycol ethers as adhesives.</li> </ul>
		<b>Reminder:</b> <ul style="list-style-type: none"> <li>Avoid using self-stick note-pad as far as possible. For example, use electronic means such as email or text message to serve as reminders.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S07	Paper envelope	<b>Mandatory Requirement</b>
		<ul style="list-style-type: none"> <li>The fibre source of the product shall meet one of the following requirements: <ul style="list-style-type: none"> <li>i. The fibre source of the product shall consist of 100% recovered fibre by weight and that recovered fibre should contain not less than 50% post-consumer fibre; or</li> <li>ii. For virgin fibre products, at least 25% shall be originated from sustainably managed forest which is certified by internationally recognized standard [e.g. FSC, PEFC].</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Note: Not applicable to envelope using high speed inserting machine</li> </ul>
		<b>Desirable Requirement</b>
		<ul style="list-style-type: none"> <li>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"> <li>i. Elemental chlorine</li> <li>ii. Halogenated bleaching agents that produce elemental halogens in-situ.</li> <li>iii. Optical brighteners</li> <li>iv. Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives.</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain alkylphenol ethoxylates (APEOs), phthalates, halogenated solvents or ethylene glycol ethers as adhesives.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be manufactured with dyes, pigments or coatings that contain mercury, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S08	Paper file jacket	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Covers shall be made of hard and stiff cardboard containing a minimum of 50% recovered fibre by weight.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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].</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be manufactured with dyes, pigments or coatings that contain mercury, lead, copper, chromium, nickel, aluminium or cadmium as constituent parts.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not contain alkylphenol ethoxylates (APEOs), phthalates, halogenated solvents or ethylene glycol ethers as adhesives.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Elemental chlorine</li> <li>Halogenated bleaching agents that produce elemental halogens in-situ</li> <li>Optical brighteners</li> <li>Non-biodegradable complexing agents such as ethylene diaminetetra acetic acid (EDTA) or its derivatives</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S09	Pen	<b>Mandatory Requirement:</b>
		<b>White Board Marking Pen</b> <ul style="list-style-type: none"> <li>Toxic elements for surface coating and ink shall comply with EN71 Part 3:2013 or latest version.</li> </ul>
		<b>Ballpoint Pen</b> <ul style="list-style-type: none"> <li>The product shall use refillable ink or refills, and such refill products should be available.</li> </ul>
		<b>Desirable Requirement:</b>
		<b>Pen</b> <ul style="list-style-type: none"> <li>Should comply with EN71 Part 3:2013 or latest version.</li> </ul>
		<ul style="list-style-type: none"> <li>The ink should not contain volatile organic solvent, aromatic or halogenated hydrocarbons.</li> </ul>
		<ul style="list-style-type: none"> <li>Bioaccumulable preservatives should not be used.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S10	Pencil	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The pencil barrel shall be made of at least 70% recycled fibre or materials by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>Colour paint used shall be non-toxic.</li> </ul>
		<ul style="list-style-type: none"> <li>No heavy metals in the dye of graphite.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The pencil lead should not contain aromatic or halogenated hydrocarbons.</li> </ul>
		<ul style="list-style-type: none"> <li>Bioaccumulable preservatives should not be used.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S11	Plastic file jacket	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>For file jacket with plastics laminated and welded paper cardboard and 2-ring spring mechanism, the cardboard shall be hard and stiff and containing at least 50% recovered fibre which should contain a minimum of 50% postconsumer fibre.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should be marked with an appropriate plastic resin identification code.</li> </ul>
		<ul style="list-style-type: none"> <li>For file with clear pockets, it should contain a minimum of 30% plastics recycled material by weight, as a proportion of total plastic content.</li> </ul>
		<ul style="list-style-type: none"> <li>The sum of total of lead, cadmium, mercury, and hexavalent chromium in the product should not be greater than 100 mg/kg.</li> </ul>
		<b>Reminder:</b> <ul style="list-style-type: none"> <li>Consider to use paper file jacket (item S08) to avoid plastic waste generation.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S12	Rechargeable battery	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The heavy metal content of the entire battery shall not exceed the limits given below:               <ol style="list-style-type: none"> <li>Cadmium: <math>\leq 20</math> ppm</li> <li>Lead: <math>\leq 40</math> ppm</li> <li>Mercury: <math>\leq 5</math> ppm</li> </ol> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should be capable of delivering 65% rated capacity after 500 discharge/ charge cycles.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S13	Standard / Alkaline dry battery	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The heavy metal content of the entire battery shall not exceed the limits given below: <ul style="list-style-type: none"> <li>i. Cadmium: <math>\leq 10</math> ppm</li> <li>ii. Lead: <math>\leq 40</math> ppm</li> <li>iii. Mercury: <math>\leq 1</math> ppm</li> </ul> </li> </ul>
		<b>Reminder:</b> <ul style="list-style-type: none"> <li>Consider to use rechargeable battery (item S12) instead of single use disposable battery.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S14	Calculator	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Solar cell calculators should ensure full functioning at a minimum luminal flux of 50 lux or lower.</li> <li>The product should not contain organic halogen compounds (e.g. polychlorinated biphenyls) as flame retardants.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.





Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S15	Correction tape	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"><li>The product shall use refillable materials which are readily available.</li></ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The plastic part of the product should contain a minimum of 25% of recycled plastic material.</li></ul>
		<ul style="list-style-type: none"><li>The product should not contain the substances regulated in the Montreal Protocol on Substances that Deplete the Ozone Layer (particularly CFCs, HCFCs, 1,1,1-trichloroethane, carbon tetrachloride).</li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S16	Glue / Adhesive	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>Adhesive products should not contain more than 5% by weight of Volatile Organic Compounds (VOCs).</li></ul>
		<ul style="list-style-type: none"><li>The product should not contain alkylphenol ethoxylates (APEOs), phthalates, halogenated solvents or bioaccumulative preservatives.</li></ul>
		<ul style="list-style-type: none"><li>The product should comply with the following maximum allowable concentrations of hazardous substances:<ul style="list-style-type: none"><li>i. Cadmium: <math>\leq 0.5</math> mg/kg</li><li>ii. Hexavalent chromium: <math>\leq 0.5</math> mg/kg</li><li>iii. Lead: <math>\leq 50.0</math> mg/kg</li><li>iv. Mercury: <math>\leq 0.5</math> mg/kg</li></ul></li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S17	Ink for stamp pad	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall not be formulated with pigments based on compounds of antimony, arsenic, cadmium, hexavalent chromium, lead, mercury, nickel, and selenium.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Ink and dye used should not contain aromatic hydrocarbons and halogenated solvent.</li> </ul>
		<ul style="list-style-type: none"> <li>Toxic elements for ink should comply with EN71 Part 3:2013 or latest version.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not be formulated or manufactured with phthalate plasticizers.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should contain less than 5% and 30% of volatile organic compounds (VOCs) for water-based and solvent-based inks respectively.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S18	Pre-inked stamp	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Ink and dye used shall not contain aromatic hydrocarbons and halogenated solvent.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated with pigments based on compounds of antimony, arsenic, cadmium, hexavalent chromium, lead, mercury, nickel, and selenium.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not be formulated or manufactured with phthalate plasticizers.</li> </ul>
		<ul style="list-style-type: none"> <li>The product shall contain less than 5% and 30% of volatile organic compounds (VOCs) for water-based and solvent-based inks respectively.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Toxic elements for ink should comply with EN71 Part 3:2013 or latest version.</li> </ul>
		<ul style="list-style-type: none"> <li>The plastic part of the product should contain a minimum of 25% of recycled plastic material.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Stationery and office supplies (Category Code – S)		
Product Code	Product Item	Recommended Green Specifications
S19	Clock	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should be powered by a solar cell.</li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic components of the product should be made of recycled plastics.</li> </ul>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) should not contain the restricted substances exceeding the following concentrations:               <ol style="list-style-type: none"> <li>DEHPs: 0.1% by weight</li> <li>BBPs: 0.1% by weight</li> <li>DBPs: 0.1% by weight</li> <li>DIBPs: 0.1% by weight</li> </ol> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Telecommunication equipment and spares (Category Code – T)		
Product Code	Product Item	Recommended Green Specifications
T01	Key telephone system	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>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"><li>i. Lead: 0.1% by weight</li><li>ii. Cadmium: 0.01% by weight</li><li>iii. Mercury: 0.1% by weight</li><li>iv. Hexavalent chromium: 0.1% by weight</li><li>v. PBBs: 0.1% by weight</li><li>vi. PBDEs: 0.1% by weight</li></ul></li></ul>
		<ul style="list-style-type: none"><li>The product should comply with international power consumption standards such as Energy Star.</li></ul>
		<ul style="list-style-type: none"><li>The supplier should provide product take-back/ recycling services to government departments at the end of life of the product.</li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Telecommunication equipment and spares (Category Code – T)		
Product Code	Product Item	Recommended Green Specifications
T02	Mobile phone	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Product components (circuit boards, electrical, electronic and plastic components) shall comply with RoHS. Maximum Concentration Values of the RoHS restricted substances are: <ul style="list-style-type: none"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should not contain beryllium oxide.</li> </ul>
		<ul style="list-style-type: none"> <li>The outer casing and surface coating of the product should not contain nickel.</li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>The main battery should be able to withstand a minimum of 300 charging cycles with at least 60% of the initial capacity.</li> </ul>
		<ul style="list-style-type: none"> <li>The heavy metal content in the rechargeable battery should not exceed the limits given below: <ul style="list-style-type: none"> <li>i. Lead: ≤ 5 ppm</li> <li>ii. Cadmium: ≤ 5 ppm</li> <li>iii. Mercury: ≤ 1 ppm</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Telecommunication equipment and spares (Category Code – T)		
Product Code	Product Item	Recommended Green Specifications
T03	Radio communication system and transceiver	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>Lead: 0.1% by weight</li> <li>Cadmium: 0.01% by weight</li> <li>Mercury: 0.1% by weight</li> <li>Hexavalent chromium: 0.1% by weight</li> <li>PBBs: 0.1% by weight</li> <li>PBDEs: 0.1% by weight</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>
		<ul style="list-style-type: none"> <li>The heavy metal content in the rechargeable battery should not exceed the limits given below:               <ol style="list-style-type: none"> <li>Cadmium: ≤ 20 ppm</li> <li>Lead: ≤ 40 ppm</li> <li>Mercury: ≤ 5 ppm</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The supplier should provide product take-back/ recycling services to government departments at the end of life of the product.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Telecommunication equipment and spares (Category Code – T)		
Product Code	Product Item	Recommended Green Specifications
T04	Radio paging equipment	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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"> <li>i. Lead: 0.1% by weight</li> <li>ii. Cadmium: 0.01% by weight</li> <li>iii. Mercury: 0.1% by weight</li> <li>iv. Hexavalent chromium: 0.1% by weight</li> <li>v. PBBs: 0.1% by weight</li> <li>vi. PBDEs: 0.1% by weight</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Component parts should not contain halogenated substances.</li> </ul>
		<ul style="list-style-type: none"> <li>Any plastic parts should be manufactured without chlorinated paraffins flame retardants.</li> </ul>
		<ul style="list-style-type: none"> <li>The supplier should provide product take-back/ recycling services to government departments at the end of life of the product.</li> </ul>
		<ul style="list-style-type: none"> <li>The heavy metal content in the rechargeable battery should not exceed the limits given below: <ul style="list-style-type: none"> <li>i. Cadmium: ≤ 20 ppm</li> <li>ii. Lead: ≤ 40 ppm</li> <li>iii. Mercury: ≤ 5 ppm</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Telecommunication equipment and spares (Category Code – T)		
Product Code	Product Item	Recommended Green Specifications
T05	Telephone battery	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should be able to withstand a minimum of 300 charging cycles with at least 60% of the initial capacity.</li> </ul>
		<ul style="list-style-type: none"> <li>The levels of the following hazardous substances in the rechargeable battery should not exceed the following: <ul style="list-style-type: none"> <li>i. Lead: ≤ 5 ppm</li> <li>ii. Cadmium: ≤ 5 ppm</li> <li>iii. Mercury: ≤ 1 ppm</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Textile materials and garment (Category Code – U)																
Product Code	Product Item	Recommended Green Specifications														
U01	Clothing and textile products	<b>Desirable Requirement:</b>														
		<ul style="list-style-type: none"><li>The product should contain at least 10% of recycled textile fiber materials.</li></ul>														
		<ul style="list-style-type: none"><li>The levels of ionic impurities for pigments used should not exceed the following:<table><tr><td>Items</td><td>Levels of ionic impurities</td></tr><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></table></li></ul>	Items	Levels of ionic impurities	Arsenic	50 ppm	Cadmium	50 ppm	Chromium	100 ppm	Lead	100 ppm	Mercury	25 ppm		
		Items	Levels of ionic impurities													
		Arsenic	50 ppm													
		Cadmium	50 ppm													
		Chromium	100 ppm													
		Lead	100 ppm													
		Mercury	25 ppm													
		<ul style="list-style-type: none"><li>The levels of ionic impurities for dyes used should not exceed the following:<table><tr><td>Items</td><td>Levels of ionic impurities</td></tr><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></table></li></ul>	Items	Levels of ionic impurities	Arsenic	50 ppm	Cadmium	20 ppm	Chromium	100 ppm	Cobalt	500 ppm	Copper	250 ppm	Lead	100 ppm
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															
<ul style="list-style-type: none"><li>Azo dyes should not be used.</li></ul>																
<ul style="list-style-type: none"><li>For products which contact the skins directly, the levels of formaldehyde should not exceed 75 ppm.</li></ul>																
<b>Reminder:</b>																
<ul style="list-style-type: none"><li>Consider simple / reusable packaging.</li></ul>																

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Textile materials and garment (Category Code – U)		
Product Code	Product Item	Recommended Green Specifications
U02	Textile bag (nylon, canvas and gunny bag)	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall not include polyvinyl chloride (PVC) material.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The product should contain recycled textile fiber materials.</li> </ul>
		<ul style="list-style-type: none"> <li>The sum of lead, mercury, cadmium, and hexavalent chromium should not exceed 100 parts per million (ppm) by weight.</li> </ul>
		<ul style="list-style-type: none"> <li>Azo dyes should not be used.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Textile materials and garment (Category Code – U)		
Product Code	Product Item	Recommended Green Specifications
U03	Bag / Backpack	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall contain at least 50% by weight of recycled materials, for example, recycled fiber.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Each material type (e.g. buttons, zipper, buckles, reflectors, plastic emblems, metal parts) should not contain lead, cadmium or nickel. Also, plastic parts shall not contain phthalates or consist of chlorinated plastic.</li> </ul>
		<ul style="list-style-type: none"> <li>The product should not include polyvinyl chloride (PVC) material.</li> </ul>
		<ul style="list-style-type: none"> <li>The levels of ionic impurities for pigments used should not exceed the following:               <ol style="list-style-type: none"> <li>Arsenic: 50 ppm</li> <li>Cadmium: 50 ppm</li> <li>Chromium: 100 ppm</li> <li>Lead: 100 ppm</li> <li>Mercury: 25 ppm</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>The levels of ionic impurities for dyes used should not exceed the following:               <ol style="list-style-type: none"> <li>Arsenic: 50 ppm</li> <li>Cadmium: 20 ppm</li> <li>Chromium: 100 ppm</li> <li>Cobalt: 500 ppm</li> <li>Copper: 250 ppm</li> <li>Lead: 100 ppm</li> <li>Mercury: 4 ppm</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Azo dyes should not be used.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Textile materials and garment (Category Code – U)		
Product Code	Product Item	Recommended Green Specifications
U04	Bedding	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The amount of free formaldehyde in the product shall not exceed 20 ppm.</li> </ul>
		<ul style="list-style-type: none"> <li>The concentration of the following heavy metals and their compounds in the product shall not exceed 1 mg/kg by weight: <ul style="list-style-type: none"> <li>i. Cadmium</li> <li>ii. Hexavalent chromium</li> <li>iii. Arsenic</li> <li>iv. Lead</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>The product shall not contain phthalates.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>At least 10% of cotton and other natural cellulose seed fibres of the product should be organic or from sustainable source certified by internationally recognized standards (such as Better Cotton Standard System and Global Organic Textile Standard [GOTS]).</li> </ul>
		<ul style="list-style-type: none"> <li>The product should contain at least 20% of recycled textile materials.</li> </ul>
		<ul style="list-style-type: none"> <li>The following substances should not be used in the production process of products: <ul style="list-style-type: none"> <li>- Azo dyes</li> <li>- Chlorinated bleaching agents</li> <li>- Aromatic solvents</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Vehicles and spare parts (Category Code – V)		
Product Code	Product Item	Recommended Green Specifications
V01	Private cars	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The vehicle shall be electric vehicle unless justified by strong operational reasons and approved by Department Head or Senior Directorate level (i.e. D3 level or above) in consultation with EPD.</li> <li>If justified that electric vehicles cannot be procured, the vehicle shall meet the Air Pollution Control (Vehicle Design Standards) (Emission) Regulations (Cap. 311J) for newly registered private cars and shall not be diesel private cars.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>If justified that electric vehicles cannot be procured, the vehicle should be hybrid electric vehicle.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Vehicles and spare parts (Category Code – V)		
Product Code	Product Item	Recommended Green Specifications
V02	Light goods vehicles	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The vehicle shall meet the Environmental Protection Department's qualifying standards for tax incentives scheme for environment-friendly commercial vehicles.</li> </ul>
		<ul style="list-style-type: none"> <li>The vehicle shall be in the order of priority petrol or diesel vehicle.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The vehicle should be in the order of priority electric vehicle or hybrid electric vehicle.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Vehicles and spare parts (Category Code – V)		
Product Code	Product Item	Recommended Green Specifications
V03	Other commercial vehicles	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The vehicle shall meet the Environmental Protection Department's qualifying standards for tax incentives scheme for environment-friendly commercial vehicles.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The vehicle should be in the order of priority electric vehicle or hybrid electric vehicle.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Vehicles and spare parts (Category Code – V)		
Product Code	Product Item	Recommended Green Specifications
V04	Rubber / Retreaded tyre	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Tyres should contain at least 5% recycled rubber by weight, as a proportion of total content of rubber compound.</li> </ul>
		<ul style="list-style-type: none"> <li>The following compounds should not be added to the finished products: <ul style="list-style-type: none"> <li>i. Halogenated organic solvents or binding agents</li> <li>ii. Elemental halogens (e.g. fluorine, chlorine, including in-situ precursors from halide salts)</li> <li>iii. Fluoropolymer additives or coatings</li> <li>iv. Aniline based amines</li> <li>v. Phthalates</li> <li>vi. Aziridine or polyaziridines</li> <li>vii. Pigments and additives that contain lead, tin, arsenic, cadmium, mercury or their compounds</li> <li>viii. CFCs, HCFCs, HFCs or any ozone depleting substances</li> <li>ix. PBDEs, or chlorinated organic flame retardants</li> <li>x. 1,3-butadiene</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Water using equipment (Category Code – W)		
Product Code	Product Item	Recommended Green Specifications
W01	Showers for bathing	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Water using equipment (Category Code – W)		
Product Code	Product Item	Recommended Green Specifications
W02	Urinal equipment	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Water using equipment (Category Code – W)		
Product Code	Product Item	Recommended Green Specifications
W03	Water tap	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>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.</li> <li>Motion-sensing products should be able to stop the water flow less than 2 second after exiting the use stage or power supply disruption.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Water using equipment (Category Code – W)		
Product Code	Product Item	Recommended Green Specifications
W04	Water closet	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The product should have obtained a Grade 2 or above with preference on Grade 1 water efficiency rating for water closets 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.</li></ul>
		<ul style="list-style-type: none"><li>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.</li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Water using equipment (Category Code – W)		
Product Code	Product Item	Recommended Green Specifications
W05	Flow controller	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The product shall meet the Grade 1 water efficiency rating for Flow Controller 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.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Services (Category Code – X)		
Product Code	Product Item	Recommended Green Specifications
X01	Event, meeting & conference services <sup>1</sup>	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Transportation The service provider shall provide information of public transportation available to participants to the event venue.</li> </ul>
		<ul style="list-style-type: none"> <li>Waste Management Plastic bottled water shall not be provided.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Event Sustainability Management System The service provider should establish an Event Sustainability Management System (ESMS) for the selected venue certified to ISO 20121:2012 standard or latest.</li> </ul>
		<ul style="list-style-type: none"> <li>Energy Management For indoor event, meeting and conference, the indoor air temperature should maintain at 25.5°C for energy saving purpose.</li> </ul>
		<ul style="list-style-type: none"> <li>Food and Beverage Selection and Arrangement The service provider should adopt the green specification of “X04 - food and catering services” in the Government’s green procurement list promulgated by EPD.</li> </ul>
		<ul style="list-style-type: none"> <li>Waste Management <ul style="list-style-type: none"> <li>i. The service provider should take steps to minimise printing materials (e.g. provision of e-registration process, or e-channels for communication and promotion);</li> <li>ii. The service provider should provide paper and stationery following green purchase tips promulgated by EPD as far as practicable;</li> <li>iii. The service provider should provide waste recycling bins in the public accessible areas nearby;</li> <li>iv. The service provider should install filtered water dispensers connected to water mains in the event venue.</li> </ul> </li> </ul>

<sup>1</sup> The service provider should make reference to “A Waste Reduction Guidebook for Large Event Organizers” issued by EPD ([https://www.wastereduction.gov.hk/sites/default/files/GreenEvent\\_Guidebook\\_Eng\\_201801.pdf](https://www.wastereduction.gov.hk/sites/default/files/GreenEvent_Guidebook_Eng_201801.pdf)).

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Services (Category Code – X)		
Product Code	Product Item	Recommended Green Specifications
X02	Cleansing services	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Environmental Management Systems The service provider should establish an Environmental Management System certified to ISO 14001:2015 standard or latest.</li> </ul>
		<ul style="list-style-type: none"> <li>Use of Cleansing Chemicals The service provider should select all-purpose cleaners that meet the mandatory requirements in the Government's green procurement list promulgated by EPD.</li> </ul>
		<ul style="list-style-type: none"> <li>Use of Cleansing Accessories               <ol style="list-style-type: none"> <li>At least 20% of cleaning cloths should be made of microfiber;</li> <li>For cleaning cloths containing fibres, these fibres should contain recycled content and should take up to at least 70% by weight of the product.</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Energy Saving in Equipment               <ol style="list-style-type: none"> <li>The service provider should select energy efficient vacuum cleaner that meet the requirements of the Government's green procurement list promulgated by EPD;</li> <li>All powered equipment should be switched off and remove the plug from socket when not in use;</li> <li>Filters of vacuum cleaners should be changed or cleaned regularly to attain the optimal cleaning efficiency.</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Waste Management               <ol style="list-style-type: none"> <li>The service provider should provide waste management proposal covers waste sorting and storing recyclable waste in recycling facilities;</li> <li>The service provider should engage waste recycling contractors for collection of recyclable materials or facilitate the collection by Government contractor.</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Water Saving               <ol style="list-style-type: none"> <li>The service provider should wash in a basin rather than under running water whenever practical, and keep water level in the basin to minimum to reduce spillage;</li> <li>The service provider should report any leakage of faucets and hoses for repairing immediately;</li> <li>The service provider should use mops instead of running water hoses for cleaning floors whenever practical.</li> </ol> </li> </ul>
		<ul style="list-style-type: none"> <li>Staff Training All workers should receive regular trainings to maintain knowledge of correct procedures for equipment and techniques used to maintain environmental standards.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Services (Category Code – X)		
Product Code	Product Item	Recommended Green Specifications
X03	Laundry services	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Use of Chemicals The laundry detergent / soap should meet the mandatory requirements in the Government's green procurement list promulgated by EPD.</li> </ul>
		<ul style="list-style-type: none"> <li>Water Use The washing machine should have obtained a Grade 1 Type Water Efficiency Label under the Water Efficiency Labelling Scheme of Water Supplies Department (WSD).</li> </ul>
		<ul style="list-style-type: none"> <li>Energy Management The washing machine should have obtained a Grade 1 Energy Label under the Energy Efficiency Labelling Scheme of Electrical and Mechanical Services Department (EMSD).</li> </ul>
		<ul style="list-style-type: none"> <li>Material Reuse / Recycling The service provider should establish a system to collect, reuse or recycle used hangers.</li> </ul>
		<ul style="list-style-type: none"> <li>Transportation The service provider should adopt mandatory requirements for transportation services / vehicles in the Government's green procurement list promulgated by EPD.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Services (Category Code – X)		
Product Code	Product Item	Recommended Green Specifications
X04	Food and catering services	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>Waste Management <ul style="list-style-type: none"> <li>i. Plastic bottled water shall not be provided.</li> <li>ii. Reusable utensils, dishes and containers shall be provided.</li> </ul> </li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Food <ul style="list-style-type: none"> <li>i. For organic vegetables, at least 10% of the total monetary value of raw ingredients should be certified to organic products.</li> <li>ii. For seafood products, sustainable seafood should be provided. Food items on the Government's sustainability-conscious menu, e.g. shark fin, black moss and Bluefin tuna, should be avoided.<sup>2</sup></li> <li>iii. For banquet, the number of main dishes should be limited to no more than 6 to avoid excessive food.</li> </ul> </li> <li>Waste Management <ul style="list-style-type: none"> <li>i. The service provider should provide a waste management proposal to identify, collect and recycle all types of recyclable materials as far as practicable.</li> <li>ii. The service provider should take steps to handle the surplus food in order to minimise food (e.g. food donation, takeaway by guests, etc.).</li> <li>iii. The service provider should collect packaging materials for reuse or recycling.</li> <li>iv. Provision of disposable tableware including napkins, utensils, stirring sticks and straws should be avoided.</li> <li>v. Condiments should be served in reusable container instead of individual pack.</li> <li>vi. The service provider should use electronic means or printed matters to remind guests to reduce food waste.</li> <li>vii. Waste cooking oils (WCO) (on-site/off-site) should be collected by EPD registered WCO collector for recycling.</li> </ul> </li> <li>Equipment <p>The coolants used in refrigerators and freezers to be used in carrying out the service should be free of ozone-depleting substances.</p> </li> </ul>

<sup>2</sup>It is suggested to make reference to Environmental Bureau Circular Memorandum No. 1/2016 on "Sustainability-Conscious Food Consumption in Official Entertainment" ([http://etwb.host.ccgo.hksarg/ENB\\_CirNo\\_01\\_2013.pdf](http://etwb.host.ccgo.hksarg/ENB_CirNo_01_2013.pdf)).

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Services (Category Code – X)		
Product Code	Product Item	Recommended Green Specifications
X05	Property management services	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Waste Management <ul style="list-style-type: none"> <li>i. The service provider should provide a waste management proposal to identify, collect and recycle all types of recyclable materials as far as practicable;</li> <li>ii. The service provider should monitor and measure general waste and recycled materials and generate a monthly report to the contracting authority;</li> <li>iii. Adequate space and facilities should be provided to facilitate separation, collection, sorting and storage of materials for recycling, including installation of waste separation bins and separate collection of food and yard waste for treatment where applicable and needed.<sup>3</sup></li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Energy and Water Performance <p>The service provider shall produce a monthly energy and water report using the data from Building Management System (BMS) / energy bills / water bills to identify trends in energy / water use within the managed operations, and submit to the contracting authority. The report shall also include recommendations on energy / water saving initiatives that could be made.</p> </li> </ul>
		<ul style="list-style-type: none"> <li>Environmental Management <p>The service provider shall establish an Environmental Management System (EMS) certified to ISO 14001:2015 standard or latest.</p> </li> </ul>
		<ul style="list-style-type: none"> <li>Cleansing Services <p>The service provider should adopt the green specification of “X02 - cleansing services” in the Government’s green procurement list promulgated by EPD.</p> </li> </ul>

<sup>3</sup> It is suggested to make reference to Development Bureau Technical Circular No. 2/2015 and Environment Bureau Circular Memorandum No. 3/2015 on “Green Government Buildings”

(<https://www.devb.gov.hk/filemanager/technicalcirculars/en/upload/336/1/C-2015-02-01.pdf>).

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Services (Category Code – X)		
Product Code	Product Item	Recommended Green Specifications
X06	Travel / Hotel services	<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>Travel Service The service provider should provide information of public transportation available to travellers.</li> </ul>
		<ul style="list-style-type: none"> <li>Hotel Service <ul style="list-style-type: none"> <li>i. The service provider should select hotel which provides choices to guests on how often their bed linens / towels / bathrobes will be changed.</li> <li>ii. The service provider should select hotel which provides recycling bins at the guest rooms or accessible public areas.</li> <li>iii. The service provider should encourage guests to prepare their own toiletries (e.g. toothbrush, toothpaste) to avoid using disposal items in guest rooms.</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>Waste Management Provision of plastic bottled water shall be avoided.</li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Services (Category Code – X)		
Product Code	Product Item	Recommended Green Specifications
X07	Hiring of light goods vehicles	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The vehicle hired in carrying out the service shall meet EURO V Standard (first registered on or after 1 June 2012 for petrol vehicle and 31 December 2012 for diesel vehicle).</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The vehicle hired in carrying out the service should be either: <ul style="list-style-type: none"> <li>i. Electric vehicle; or</li> <li>ii. EURO VI Standard hybrid vehicle or above; or</li> <li>iii. EURO VI Standard or above</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.



Services (Category Code – X)		
Product Code	Product Item	Recommended Green Specifications
X08	Hiring of lorries	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"><li>The vehicle hired in carrying out the service shall be registered on or after 1 October 2006 which meets EURO IV Standard.</li></ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The vehicle hired in carrying out the service should be either:<ul style="list-style-type: none"><li>i. Electric vehicle; or</li><li>ii. EURO V Standard hybrid vehicle or above; or</li><li>iii. EURO V Standard or above</li></ul></li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.

Services (Category Code – X)		
Product Code	Product Item	Recommended Green Specifications
X09	Hiring of saloon cars	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"> <li>The vehicle hired in carrying out the service shall be a petrol vehicle registered on or after 1 June 2012 which meets EURO V Standard.</li> </ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"> <li>The vehicle hired in carrying out the service should be either: <ul style="list-style-type: none"> <li>i. Electric vehicle; or</li> <li>ii. EURO VI Standard petrol hybrid vehicle or above; or</li> <li>iii. EURO VI Standard petrol vehicle or above</li> </ul> </li> </ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.





Services (Category Code – X)		
Product Code	Product Item	Recommended Green Specifications
X10	Hiring of coaches with 20 or more passenger seats	<b>Mandatory Requirement:</b>
		<ul style="list-style-type: none"><li>The vehicle hired in carrying out the service shall be registered on or after 1 October 2006 which meets EURO IV Standard.</li></ul>
		<b>Desirable Requirement:</b>
		<ul style="list-style-type: none"><li>The vehicle hired in carrying out the service should be either:<ul style="list-style-type: none"><li>i. Electric vehicle; or</li><li>ii. EURO V Standard hybrid vehicle or above; or</li><li>iii. EURO V Standard or above</li></ul></li></ul>

ORANGE	Mandatory Requirement	Green specifications with confirmed market availability. Products are available in the market with adequate models and quantities in supply.
GREEN	Desirable Requirement	Green specifications with uncertain market availability.