

**A. Guidelines for series approval of products for implementation of “Electronics and Information Technology Goods (Requirement for Compulsory Registration) Order” 2012- Phase II.**

**1) Item No. 16: Power Adaptors for IT Equipment**

<b>Product</b>	<b>up to a range of output power rating will be accommodated in the series, provided</b>
Power Adaptors for IT Equipment	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same class of construction</li> <li>• Same mains PCB design layout and transformer</li> </ul>

**2) Item No. 17: Power Adaptors for Audio, Video & similar Electronic Apparatus**

<b>Product</b>	<b>Up to a range of output power rating will be accommodated in the series, provided</b>
Power Adaptors for Audio Video and similar Electronic Apparatus	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same class of construction</li> <li>• Same mains PCB design layout and transformer</li> </ul>

**3) Item No. 18: UPS/Inverters of rating ≤ 5KVA**

<b>Product</b>	<b>Up to a range of output power rating will be accommodated in the series, provided</b>
UPS/Inverters of rating ≤ 5KVA	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same rated output voltage</li> <li>• Same frequency and number of phases at input/output</li> <li>• Same cabinet design and class of construction</li> <li>• Same power transformer rating and design</li> <li>• Same PCB design and layout</li> <li>• Same battery bus voltage.</li> </ul>

**4) Item No. 19: DC or AC Supplied Electronic Control Gear for LED modules**

<b>Product</b>	<b>Up to a range of output power rating will be accommodated in the series, provided</b>
DC or AC Supplied Electronic Control Gear for LED modules	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same class of construction</li> <li>• Same class of installation with respect to SELV/Non-SELV</li> <li>• Three samples covering highest, interim and lowest ratings of the range are tested</li> <li>• Different enclosure design (up to 03) are preferably covered when included in the same series.</li> </ul>

**5) Item No. 20: Sealed Secondary cells/Batteries containing alkaline or other non- acidic Electrolyte for use in portable applications**

<b>Product</b>	<b>Up to a range of output power rating will be accommodated in the series, provided</b>
Battery	<ul style="list-style-type: none"> <li>• Same nominal voltage</li> <li>• Cells of same construction design</li> <li>• Same electrodes/electrolytes</li> </ul>
Cells	<ul style="list-style-type: none"> <li>• Same nominal voltage</li> <li>• Cells of same construction design</li> <li>• Same electrodes/electrolytes</li> </ul>

**6) Item No. 21: Self Ballasted LED Lamps for General Lighting Services**

<b>Product</b>	<b>Up to a range of output power rating will be accommodated in the series, provided</b>
Self-Ballasted LED Lamps for General Lighting Services	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same rating of ballast (LED Control Gear)/Driver Circuit</li> <li>• Same mains PCB design and layout</li> <li>• Same cap design</li> </ul>

**7) Item No. 22: Fixed General purpose LED Luminaries**

<b>Product</b>	<b>Up to a range of rated power will be allowed in the series, provided</b>
Fixed General purpose LED Luminaries <b>(excluding Fancy Lights)</b>	<ul style="list-style-type: none"> <li>• Same class of construction</li> <li>• Same AC/DC input voltage of Registered Electronic control Gear having R. Number (information to be provided)</li> </ul> <p style="text-align: center;">Or</p> <p>Same AC/DC input voltage (in case of integral type Electronic Control Gear)</p> <p style="text-align: center;">Or</p> <p>Same input rated voltage/rated current (if without Electronic Control Gear)</p> <ul style="list-style-type: none"> <li>• Same material characteristics for enclosure.</li> </ul>

<b>Product</b>	<b>Up to a range of rated power will be allowed in the series, provided</b>
Fixed General purpose LED Luminaires <b>(Fancy Lights)</b>	<ul style="list-style-type: none"> <li>• For the electrical part up to driver, if available, of the fancy light/Chandelier: Same AC/DC input voltage of Registered encapsulated drivers used (as mentioned in CDF)</li> </ul> <p style="text-align: center;">Or</p> <p>Same AC/DC input voltage in case of integral type Electronic Control Gear (i.e. without casing)</p> <p style="text-align: center;">Or</p> <p>Same input rated voltage/rated current ( if without Electronic Control Gear)</p>

	<ul style="list-style-type: none"> <li>• Same class of construction</li> <li>• Three samples covering highest, interim and lowest ratings of the range are tested</li> <li>• In addition, in the same series, wherever applicable, samples of three different weights (highest, interim and lowest values) are checked only for the requirements related to suspension/fixing etc. As per the relevant standards IS 10322 (Part 5/Section 1)</li> </ul> <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>1. For considering a model of fancy light/chandelier, the safety design of housing containing and including electrical part upto driver, if available, only shall be considered.</li> <li>2. Since model no. are generally not assigned in this industry Segment, and fancy parts keep on changing frequently, a pictorial view of each electrical fitting (not decorative/fancy part) covered in the series shall be placed in the test report. This would not require submission of actual samples to the labs but could be submitted through documentary evidence.</li> </ol>
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**8) Item No. 23: Mobile Phones**

Product	Grouping as one series, provided
Mobile Phones	<ul style="list-style-type: none"> <li>• Same battery capacity</li> <li>• Same battery charging voltage and current</li> <li>• Same battery side PCB Design and layout rated input voltage</li> <li>• Same adaptor</li> <li>• Similar enclosure</li> </ul>

**9) Item No. 24: Cash Registers**

Product	Grouping as one series, provided
Cash Registers	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same rated current/wattage</li> <li>• Same class of construction</li> <li>• Same mains layout or same SMPS Board layout</li> <li>• Power Transformer: Same design and insulation system</li> <li>• Same enclosure except for differences of decoration parts</li> <li>• Same type of Battery and capacity (if applicable)</li> </ul>

**10) Item No. 25: Point of Sale Terminals**

<b>Product</b>	<b>Grouping as one series, provided</b>
Point of Sale Terminals	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same rated current/wattage</li> <li>• Same class of construction</li> <li>• Same degree of ingress protection</li> <li>• Same mains PCB design and layout</li> <li>• Same type of battery and capacity (if applicable)</li> </ul>

**11) Item No. 26: Copying Machines / Duplicators**

<b>Product</b>	<b>Grouping as one series, provided</b>
Copying Machines / Duplicators	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same rated current/wattage</li> <li>• Same system of copying/duplication</li> <li>• Same largest paper size</li> <li>• Same mains layout or same SMPS Board layout</li> <li>• Power Transformer: Same design and insulation system</li> <li>• Same enclosure except for differences of decoration parts</li> </ul>

**12) Item No. 27: Smart Card Readers**

<b>Product</b>	<b>Grouping as one series, provided</b>
Smart Card Readers	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same rated current/wattage</li> <li>• Same type (Contact/Contactless)</li> <li>• Same mains layout or same SMPS Board layout</li> <li>• Power Transformer: Same design and insulation system</li> <li>• Same enclosure except for differences of decoration parts</li> <li>• Same type of battery and capacity (if applicable)</li> </ul>

**13) Item No. 28: Mail Processing / Postage Machines/ Franking Machines**

<b>Product</b>	<b>Grouping as one series, provided</b>
Mail Processing / Postage Machines/ Franking Machines	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same rated current / wattage</li> <li>• Same mains layout or same SMPS board layout</li> <li>• Power Transformer: Same design and insulation system</li> <li>• Same enclosure except for differences of decoration parts</li> </ul>

**14) Item No. 29: Passport Readers**

<b>Product</b>	<b>Grouping as one series, provided</b>
Passport Readers	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same rated current / wattage</li> <li>• Same mains layout or same SMPS board layout</li> <li>• Power Transformer: Same design and insulation system</li> <li>• Same enclosure except for differences of decoration parts</li> </ul>

**15) Item No.30: Power Bank for use in portable application**

<b>Product</b>	<b>Up to a range of capacity rating will be accommodated in the series, provided</b>
With External Adaptor	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same class of construction</li> <li>• Same degree of ingress protection</li> <li>• Same PCB design and layout</li> <li>• Same battery/cell type</li> <li>• Same material characteristics for enclosure</li> </ul>
With in-built Adaptor	<ul style="list-style-type: none"> <li>• Same rated input voltage</li> <li>• Same degree of ingress protection</li> <li>• Same mains PCB design and layout</li> <li>• Same battery/cell type</li> <li>• Same charging circuit</li> <li>• Same material characteristics for enclosure</li> </ul>

**B. Guidelines for Quantitative selection of Samples**

- A series may consist of 10 models except for Item No. 20 (Sealed Secondary Cells/ Batteries) and ItemNo.22 (Fixed General purpose LED Luminaries).
- For Item No. 20, a series may consist of up to 20 models.
- For Item No. 22 in case of Fancy lights / Chandeliers, a series may consist of up to 50 models.
- Unless specified otherwise, one sample may be tested for each series.
- In any of the above consideration, worst case configuration from safety Design perspective must be selected for testing.

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