

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

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

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

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

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

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

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

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

Product	Upto a range of output power/current rating will be accommodated in the series, provided
DC or AC Supplied Electronic Control Gear for LED Modules	<ul style="list-style-type: none"> • Same rated input voltage • Same class of construction • Three samples covering highest, interim and lowest ratings of the range are tested

	<ul style="list-style-type: none"> • Different enclosure designs (upto 03) are preferably covered in testing when included in the same series
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5) Item No. 20: Sealed Secondary Cells / Batteries containing Alkaline or other non-acidic Electrolyte for use in portable applications

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

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

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

7) Item No. 22: Fixed General Purpose LED Luminaires

Product	Upto a range of rated power will be allowed in the series, provided
Fixed General Purpose LED Luminaires (excluding Fancy Lights)	<ul style="list-style-type: none"> • Same DC or AC Supplied Electronic Control Gear for LED Modules (if inbuilt in luminaire) • Same material characteristics for enclosure • Same class of construction

Product	Upto a range of rated power will be allowed in the series, provided
Fixed General Purpose LED Luminaires (Fancy lights)	<p>For the electrical part upto driver of the Fancy Light/ Chandelier:</p> <ul style="list-style-type: none"> • Safety Critical components are same. • Pre-registered encapsulated drivers are used (as mentioned in CDF). • Same class of construction

	<ul style="list-style-type: none"> • Three samples covering highest, interim and lowest electrical ratings of the range are tested. • In addition, in the same series, wherever applicable, samples of three different weights (highest, interim and lowest values) are checked only for the requirements relating to suspension/fixing etc. as per the relevant standard IS 10322 (Part 5/Sec 1). <p>Note:</p> <ol style="list-style-type: none"> 1) For considering a model of Fancy light/Chandelier, the safety design of housing containing and including electrical part upto driver only shall be considered. 2) Since model nos. are generally not assigned in this Industry Segment, and fancy parts keep on changing frequently, a pictorial view of each electrical fitting atleast upto the driver part (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.
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8) Item No. 23: Mobile Phones

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

9) Item No. 24: Cash Registers

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

10) Item No. 25: Point of Sale Terminals

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

11) Item No. 26: Copying Machines / Duplicators

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

12) Item No. 27: Smart Card Readers

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

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

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

14) Item No. 29: Passport Readers

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

15) Item No. 30: Power Banks for use in portable applications

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

B. Guidelines for Quantitative Selection of Samples

- A series may consist of 10 models except for Item No. 20 (Sealed Secondary Cells/Batteries) and Item No. 22 (Fixed General Purpose LED Luminaires).
- For Item No. 20, a series may consist of upto 20 models.
- For Item No. 22, in case of Fancy lights/Chandeliers, a series may consist of upto 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.
