
BIS CRS SERIES APPROVAL GUIDELINES & FORMATION MANUAL

Technical Regulatory Framework for Grouping and Family Classification under the
Compulsory Registration Scheme

Regulatory Authority: Bureau of Indian Standards (BIS)

Governing Orders: MeitY Electronics & IT Goods Order & BIS Conformity Regulations

Applicable Standards: IS/IEC 62368-1:2023, IS 16102 (Part 1), IS 10322, & Allied Codes

Document Scope: Legal Core Criteria for Model Grouping & Representative Sample Testing

Classification: Corporate Regulatory Standards Dossier

1. Executive Summary & Series Approval Concept

Under the **BIS Compulsory Registration Scheme (CRS)**, the Ministry of Electronics and Information Technology (MeitY) permits manufacturers to optimize registration frameworks through **Series Approval (Model Grouping)**. Instead of testing every individual product model independently, models with identical safety-critical architecture, design, and core component configurations can be grouped together into a **Single Product Series** under one Registration Number (R-Number). This maximizes market-entry speed while maintaining absolute standard compliance.

2. Fundamental Core Criteria for Series Grouping

For products to qualify as a valid series, they must satisfy rigid guidelines defined across hardware, electrical layout, and physical enclosures. Models cannot be grouped if they span multiple manufacturing locations or distinct product types.

2.1 General Electronics and Information Technology Goods (e.g., IS/IEC 62368-1:2023 Framework)

- **Manufacturing Unit:** All models within a series must be produced at the exact same physical factory location.
- **Enclosure Design:** Enclosures must be identical in terms of material structural grade and dimensions, except for non-functional decorative or cosmetic changes.
- **PCB & Layout:** The core printed circuit board (PCB) layout, tracking traces, safety clearances, and power section design must be identical.
- **Power Input Architecture:** Core power modules, Switch Mode Power Supply (SMPS) layouts, input voltage windows, and power ratings must be matched.
- **Safety-Critical Components:** Critical parts such as internal transformers, fuses, optocouplers, and isolation barriers must remain uniform across all variants.

2.2 Lighting Systems & LED Luminaires (e.g., IS 16102 / IS 10322 Framework)

Per the updated 2026 mandates, lighting systems are bound by explicit limits on rated power windows and construction parameters:

- **Insulation Class:** All models must share the same protection classification (Class I, Class II, or Class III).
- **Control Gear (Drivers):** An identical, registered electronic control gear/driver having an active R-Number must be utilized.
- **Thermal and Material Integrity:** Enclosure heat sink volume, structural material, and Ingress Protection (IP) ratings must match.

3. Representative Sampling Guidelines for Testing

Within an approved series formulation, the model presenting the **highest vulnerability profile or most comprehensive electrical configuration** must be selected as the **Main Representative Sample** for complete type testing in a BIS-recognized laboratory. Alternative models within the same series may undergo limited worst-case verification testing to validate absolute compliance.

Matrix of Quantitative Series Limitations and Testing Requirements

Product Category / Type	Maximum Models Allowed	Main Sample Selection Criteria	Additional Lab Requirements
IT & Audio/Video Equipment (Laptops, Tablets, etc.)	Max 10 models per series	Model with highest processor speed, configuration, and maximum current rating.	Alternate battery packs/adapters require separate component evaluation.
Power Adaptors / Chargers (Mains Operated)	Max 10 models per series	Highest rated output power or current configuration.	Worst-case thermal profile verification for subsidiary models.
LED Luminaires (Road, Street, Recessed)	Bounded by designated power band	Highest wattage rating and most complex structural layout within the insulation class.	IP classification testing and thermal heat run tests are mandatory.
Smartphones / Wearables (Cellular Devices)	Max 10 models per series	Model featuring maximum RF bands, largest battery capacity, and display surface area.	Specific Absorption Rate (SAR) testing must cover highest radiation configurations.

4. Step-by-Step Series Registration Workflow

Phase 1: Series Evaluation & Mapping

Analyze product portfolio bills of materials (BOM), schematics, and mechanical specifications. Cluster product models into designated series compliant with specific Indian Standard requirements.

Phase 2: Laboratory Coordination & Testing

Submit the chosen representative main sample alongside cross-sectional variants to a BIS-recognized testing laboratory. Execute full-scope compliance testing under the target IS Code protocol.

Phase 3: Online Documentation & Application submission

Upload certified laboratory test reports (valid for 90 days from issuance) onto the official BIS CRS electronic portal. Finalize the online technical dossier detailing the Critical Component List (CCL).

Phase 4: Scrutiny and Certificate Issuance

BIS officers evaluate the digital submission. Following successful verification of compliance criteria and grouping integrity, the formal R-Number licence is granted.