Specification for Emergency Light Unit for Narrow Gauge Coaches

- 1. The subject document covers general guidelines for Design Manufacture, Testing Supply and after sales service of Emergency Light Unit to be used in NG Coaches.
- 2. The Emergency Light unit shall be switch ON automatically in case of normal battery supply system in the coach fails during unforeseen circumstances. When the normal supply fails, the ELU system shall deliver required illumination.
- 3. The Overall general arrangement of the emergency light unit shall be as per RCF drg. No. SKED 799, however it shall generally conforms requirements of RDSO specification no. RDSO/PE/SPEC/AC/0153-2010 (Rev.0) for manufacturing of emergency light unit.
- **4.** Each emergency light unit will contain sealed lead acid maintenance free type (SMF) battery of capacity 12V, 4.5Ah. The use of battery older than 06 months from date of manufacture should be avoided & not permitted.
- **5.** Overall Construction of the emergency light unit shall be of compact design & ease in accessibility shall be ensured for maintenance.
- 6. 2 nos. emergency light units (per Coach) shall be provided with suitable mounting arrangement.
- 7. Emergency light unit shall be supplied along with Male & Female type **WAGO** connectors as per Cl. 7.11 of RDSO spec.
- 8. The enclosure shall be given surface treatment for antirust & anti corrosion before fitting and shall be powder coated to thickness not less than 60 microns to white colour (shade 042 `IFB white of M/s Berger or similar to M/s Asian , M/s Nerolac make paint) with glossy finish from inside and outside of the ELU.

9. Technical Parameters:-

The general technical parameters of the ELU shall be as under:

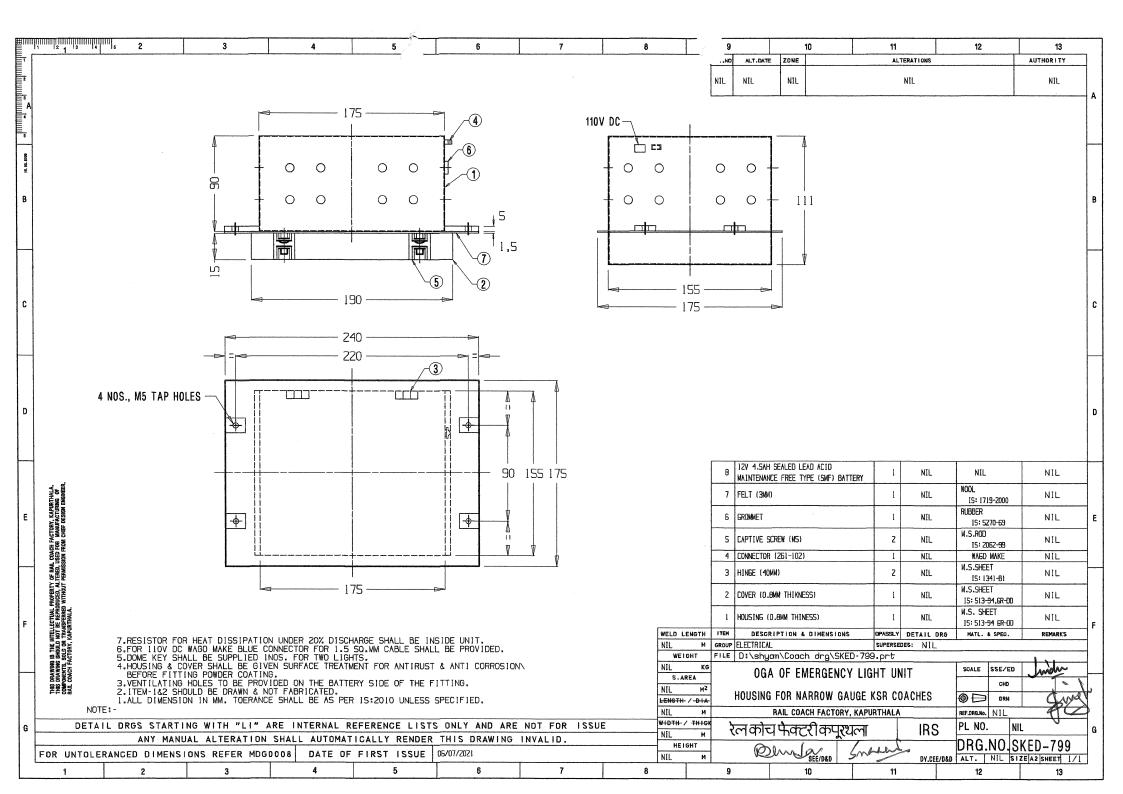
SN	Description	Technical Parameters	
a)	Input Voltage (For charging)	110V DC/110VAC	
b)	Type of battery	Sealed lead acid maintenance free type	
c)	Battery Capacity	12V, 4.5Ah	
d)	Degree of Ingress Protection	IP-65 as per IEC 60529	
e)	Weight	5Kg (max.)	

10. Tests:-

The Type testing of the Emergency Light Unit (ELU) shall be in compliance to Cl. 8.0 of the RDSO specification no. RDSO/PE/SPEC/AC/0153-2010 (Rev.0) with battery of *12V*, *4.5Ah* Capacity.

11. Firm shall take prior approval of the prototype sample along with all technical parameters & OGA drawings from office of the CEDE/RCF before commissioning in the coaches.

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RAIL COACH FACTORY, KAPURTHALA रेल कोच फैक्टरी, कपूरथला

Corrigendum-1 (शृद्धिपत्र सं.-1)

Corrigendum-1 to Document No. EDML-178, Rev-Nil

This Corrigendum is issued to Document No. EDML-178, Rev-Nil for "Emergency Light Unit for Narrow Gauge Coaches" in order to incorporate the following changes:-

- Specification No. RDSO/PE/SPEC/AC/0153-2010, Rev-0 wherever mentioned in the document no. EDML-178, Rev-Nil may be read as RDSO/PE/SPEC/AC/0180-2016, Rev-0.
- 2. Accordingly all the testing of Emergency Light Unit shall be generally in compliance to RDSO spec. RDSO/PE/SPEC/AC/0180-2016, Rev-0.

3. Clause No. 9: Technical Parameters

The general Technical Parameters of Emergency Light Unit shall be read as under:

Sno.	Description	Technical Parameters
a)	In put Voltage (for charging)	110VDC
b)	Type of battery	Sealed lead Acid Maintenance Free type
c)	Battery Capacity	12V, 5.4Ah
d)	Weight	5kg (max)

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