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Government of Kerala
2025

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കേരള ഗസറ്റ്
KERALA GAZETTE
അസാധാരണം
EXTRAORDINARY

ആധികാരികമായി പ്രസിദ്ധപ്പെടുത്തുന്നത്
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തിരുവനന്തപുരം,
വ്യാഴം
Thiruvananthapuram,
Thursday

2025 ഏപ്രിൽ 10
10th April 2025
1200 മീനം 27
27th Meenam 1200
1947 ചൈത്രം 20
20th Chaithra 1947

നമ്പർ
No. 1459

KERALA STATE ELECTRICITY REGULATORY COMMISSION, THIRUVANANTHAPURAM

NOTIFICATION

No. 1234/Con.Engg/2023/KSERC. *9th April, 2025.*

Kerala Electricity Supply Code (Removal of Difficulties) (Second Order), 2025

WHEREAS, the Kerala Electricity Supply Code, 2014 (hereinafter referred to as the Code) came into force on the 1st April, 2014;

AND WHEREAS, the Commission has amended the Code to incorporate the provisions of Electricity (Rights of Consumers) Rules, 2020 notified by the Ministry of Power and as part of ease of doing business policy of the State Government, and notified the Kerala Electricity Supply (Fifth Amendment) Code, 2024 in the Kerala Gazette Extraordinary No. 2479 dated

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31st July, 2024;

AND WHEREAS, by the aforesaid (Fifth Amendment) Code, 2024, a new Regulation 8A was inserted after Regulation 8, which outlines special conditions for availing electricity supply at different voltage levels;

AND WHEREAS, sub regulation (4) of Regulation 8A, stipulates that for 415 V (three phase) consumers, the size of a single motor load shall not exceed 50 hp (37.5 kW) or 30% of the distribution transformer capacity whichever is less. As per the proviso this limitation will not be applicable for the existing motors in the existing consumer installations;

AND WHEREAS, representations being received from various stakeholders highlighting that the implementation of this regulation has resulted in denial of LT three-phase connections for installations having single motors exceeding 50 hp, even in cases where consumers have installed dedicated distribution transformers within their premises, leading to undue financial burdens and procedural complexities. Further highlighted that the existing regulatory framework does not account for the use of dedicated transformers within the consumer premises or the adoption of advanced technological solutions, including but not limited to; soft starters, Variable Frequency Drives (VFDs), and capacitors, which are designed to effectively mitigate inrush currents;

AND WHEREAS, the Chief Electrical Inspector vide letter dated 2-3-2025 has intimated the Commission that, as per Regulation 16(3) of the Kerala Electricity Supply Code, 2014, the starting current of a motor in a three-phase LT connection should not exceed 1.5 times the full load current. If this requirement is met using suitable starters, there are no electrical safety concerns in providing LT three-phase connections for 60 hp motors, as long as the motor load does not exceed 30% of the distribution transformer capacity, as specified in Regulation 8A(4) of the Kerala Electricity Supply (Fifth Amendment) Code, 2024;

AND WHEREAS, the Commission is satisfied that difficulties have arisen due to the restriction specified in sub regulation (4) of Regulation 8A, which have led to the denial of LT three-phase connections for installations having single motors exceeding 50 hp, even when dedicated distribution transformers are installed. In view of the clarification received from the Chief Electrical Inspector stating that such connections can be safely provided, if starting current is limited to 1.5 times the full load current and distribution transformer capacity are met, the Commission finds it appropriate to review the provisions, to facilitate installations of motors having capacity above 50 hp, in the LT three-phase connections, as per the conditions

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proposed by the Chief Electrical Inspector;

NOW, THEREFORE, the Kerala State Electricity Regulatory Commission in exercise of its powers conferred by Regulation 179 of the Code, hereby makes the following order in public interest and to remove the difficulties related to sub regulation (4) of Regulation 8A, namely:—

1. *Short title and commencement.*—(1) This order may be called the "Kerala Electricity Supply Code (Removal of Difficulties) (Second Order), 2025".

(2) It shall come into force from the date of this order.

2. *Relaxation of Regulation 8A.*—(1) Notwithstanding anything contained in sub regulation (4) of Regulation 8A of the Code**,** the low voltage consumers may install single motors exceeding the 50 hp load limit, subject to the following conditions:—

(i) The starting current of the motor shall not exceed the limit specified in sub-regulation (3) of Regulation 16;

(ii) The motor load shall not exceed 30% of the capacity of the distribution transformer providing power to the consumer.

(2) The minimum capacity of the distribution transformer shall be determined using the following formula:

$$\text{Size of the distribution transformer (in kVA)} = \frac{\text{size of the single motor in hp x } 0.746}{0.3 \text{ x } 0.95 \text{ (p.f)}}$$

By order of the Commission,

C. R. SATHEESH CHANDRAN,
Secretary.

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