

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
RAILWAY BOARD

82/EEM/250/1 Part-3 E-3420012

New Delhi, dated: 25.09.2023

The General Manager (Electrical),
All Indian Railways.

The Director,
Indian Railways Institute of Elect. Engg.
Nasik

The General Manager (S&T),
All Indian Railways.

The Director,
Indian Railways Institute of Sig Engg. & Telecom
Secunderabad

The General manager,
CORE,
Allahabad.

The Director General,
Railway Staff College
Vadodara.

Sub: Provision of AT supply in Object Controller (OC) rooms of S&T installations.

Ref: Board letter No. 82/RE/250/1 dated 13.09.2002.

Detailed instructions for the provision of 230 V AC L.T. supply to the S&T installations by tapping of the 25 kV OHE was last issued by the Board vide letter referred above. Nowadays, Distributed EIs/OC are being provided by S&T department in many yards which required examination of the new type of arrangement of Signal installations.

2. The issue has been examined at Board and it is decided to add the additional Para no. 2.4.5 in existing policy instruction of Board. The proposed addition is enclosed in the attached Annexures for implementation please.

This issues with the approval of Board (MTRS & MI).

25.09.23
(Nisha Manohar Patil)

Director Elect. Engg.(PS)

Phone: 011-47845419

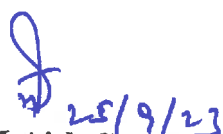
Email: rbelectricalcem@gmail.com

DA: Annexure-A, 5 & 6

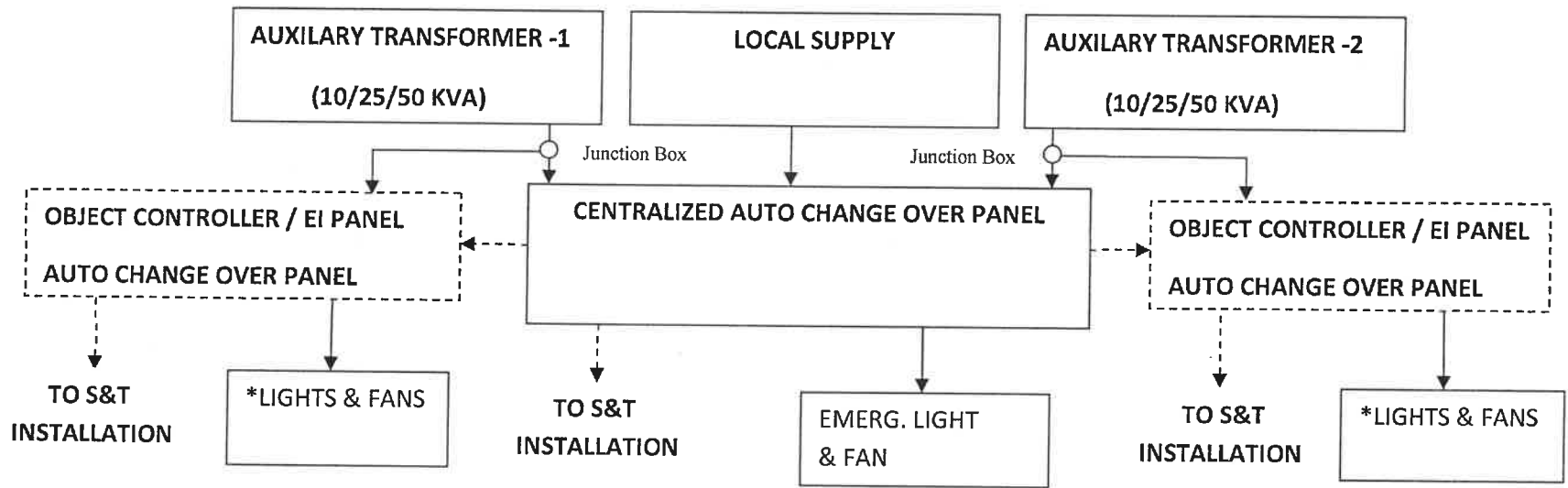
Item no. 2.4.5- BIG YARDS (Distributed EI /Object Controller Cabins)

- a. (i) On double line section at big yards**, where number of Distributed EI/Object controller cabins have been provided and are within 2 kms from Stations, the OCs should be grouped together on both sides of station and a set of two ATs of suitable capacity, one each connected to UP and DN Catenary on double line section shall be provided.
- (ii) Supply of both the ATs and local power supply will be given to changeover panel located at central location and output of changeover panel will be given to signal installation at station as well as to the Distributed EI panel/OC Rooms.
- (iii) An additional changeover panel will be provided at Distributed EI/OC Room where supply from centralized Auto Change Over panel at central location and supply of AT nearest to the Distributed EI/Object Controller Cabin will be given to the changeover panel.
- (iv) A schematic drawing showing the proposed scheme is enclosed as **Annexure-5**.
- b. (i) On single line section at big yards**, where number of Distributed EI/Object controller cabins have been provided and are within 2 kms from Stations, the OCs should be grouped together on both sides of station and one AT of suitable capacity will be provided at Station to feed each such group. DG sets of adequate capacity to be provided by S&T Dept. Local supply will be the standby source of power supply.
- (ii) Supply of the AT, local and DG set shall be given to changeover panel located at central location and output of changeover panel will be given to signal installation at station as well as to the Distributed EI panel/OC Rooms.
- (iii) An additional changeover panel will be provided at Distributed EI/OC Room where supply from centralized Auto Change Over panel at central location and supply of AT nearest to the Distributed EI/Object Controller Cabin will be given to the changeover panel.
- (iv) A schematic drawing showing the proposed scheme is enclosed as **Annexure-6**.
- c.** If load to be catered is more than the capacity of existing ATs then an AT of next available higher suitable capacity should be provided.
- d.** If Distributed EI/Object Controller cabins are located beyond 2 kms, from station then a separate ATs of suitable capacity may be provided along with one Local power supply by Electrical Dept. Where load requirement so requires, two or more OCs may be grouped. In such cases, the extension of power supply to the other OCs will be done by S & T. DG sets of adequate capacity if required can also be provided by S&T Deptt.
- e.** Since this is a restricted load, the load of Lights & Fans in OCs should be kept bare minimum.
- f.** Maintenance of Auto changeover panel and associated equipment located in Distributed EI/OC rooms shall be done by S&T department. Cabling from Change over panels to Distributed EI/OC rooms shall be provided and maintained by S&T department. In the schematic diagram the dotted line depicts the jurisdiction of S&T deptt. and thick line depicts the jurisdiction of Electrical deptt.


 (Rameshwer Meena)
 Executive Director/Signal
 Railway Board


 (Mahish Gupta)
 Executive Director/EEM
 Railway Board

DISTRIBUTED EI SIGNALLING SYSTEM FOR DOUBLE LINE SECTION

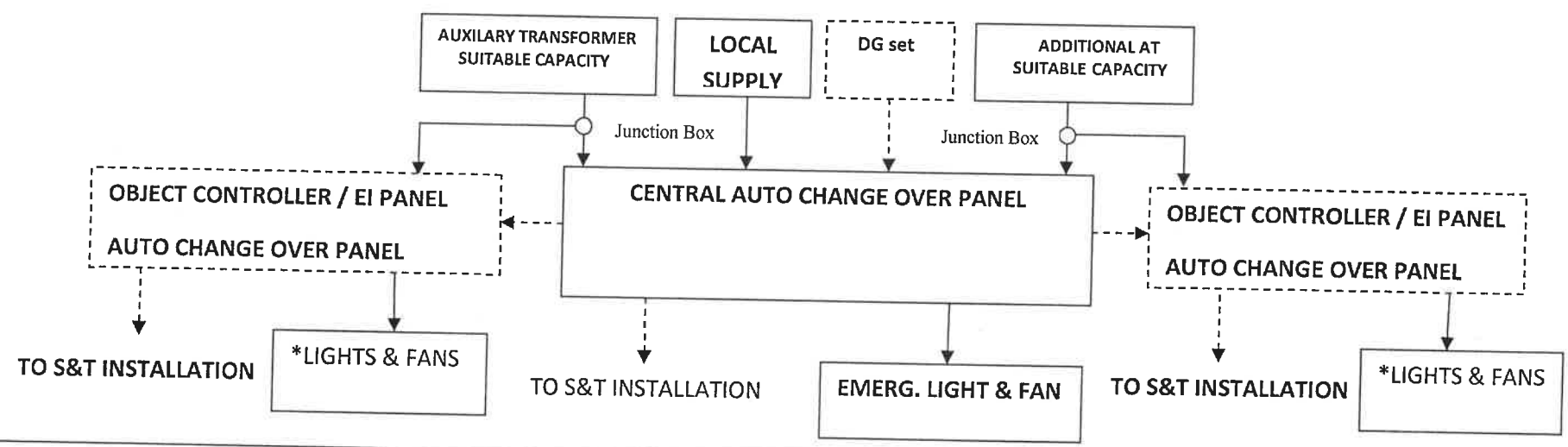


*Bare minimum load

(Signature)
25/09/2023
(Rameshwer Meena)
Executive Director/Signal
Railway Board

(Signature)
25/9/23
(Manish Gupta)
Executive Director/EEM
Railway Board

DISTRIBUTED EI SIGNALLING SYSTEM FOR SINGLE LINE SECTION



*Bare Minimum Load

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