



No JdVVNI/MD/CE(HQ)/SL(RA&C)/JU/2021-22/D 577 Dt 23.07.21

### ORDER

**Sub: Installation of Oil type transformers in Residential-Commercial buildings and their testing in Nigam's Central Testing Laboratory (CTL) prior to installation.**

Earlier in COMMI JDP/488 dated 20.03.2009, basic electrical parameters viz no load loss, full load loss and percentage impedance etc were prescribed for different ratings of Oil filled 11/0.4 kV distribution transformers.

Central Government in consultation with BIS on dated 13.12.2016 has made amendment in Notification dated 12.01.2009 regarding standard losses in Distribution Transformers and issued guidelines for 50% & 100% losses of 111-2 (Star) distribution transformers.

Based on BIS specifications, the requirement of basic electrical parameters viz no load loss, full load loss and percentage impedance etc to be complied by the users and checked/verified by the Central Testing Laboratory (CTL) of the Nigam for oil filled 11/0.4 kV distribution transformers as per Energy Efficient Level-2 are amended and indicated at Annexure-'A'.

It is enjoined upon all concerned to ensure strict compliance with immediate effect.

By Order,

  
 (A. K. MEENA)

**SUPERINTENDING ENGINEER (RA&C)  
 JODHPUR DISCOM, JODHPUR**

**Copy submitted/ forwarded to the following for information and necessary action:**

- 1) The Director (Finance / Technical) Jodhpur Discom, Jodhpur
- 2) The Zonal Chief Engineer (O&M-JDZ/ BMR/ BKZ) Jodhpur Discom Jodhpur Barmer/Bikaner
- 3) The Addl Chief Engineer(S&I-CSS/ MM/II&M&P), Jodhpur Discom Jodhpur
- 4) The Chief Accounts Officer(B&R/IA), Jodhpur Discom Jodhpur
- 5) The I A to Chairman, Discoms, Vidhyut Bhawan Jaipur, for kind perusal of the Hon`ble Chairman
- 6) The T A to Managing Director Jodhpur Discom/Jaipur Discom Ajmer Discom Jodhpur /Jaipur/ Ajmer, for kind perusal of the Hon`ble MD
- 7) The Company Secretary, Jodhpur Discom, Jodhpur
- 8) The Superintending Engineer (CC / DC / O&M / BII / PP&M / IW / M&P / MI&C / Vig ), Jodhpur Discom Jodhpur / Pali / Barmer / Sirohi / Jalore / Jaisalmer / Bikaner Hanumangath / Sriganganagar / Churu/ Jaipur
- 9) The Superintending Engineer(IT), Jodhpur Discom Jodhpur for putting up the order on the website of Discom
- 10) M/s Bikaner Electricity Supply Company IInd Floor, 3-K-9, Pavanpuri Bikaner(Raj) 334001 for circulating amongst officers under your control
- 11) The P S to Hon`ble Energy Minister, Secretariat, GoR Jaipur
- 12) The P S to Secretary (Energy), Govt of Rajasthan, Jaipur
- 13) The IA to Electricity Ombudsman Vidhyut Vinnyamak Bhawan Sahakar Marg Near State Motor Garage, Jaipur, for kind perusal of Ombudsman
- 14) The Addl S P (Vigilance), Jodhpur Discom, Jodhpur With spare copies for distribution amongst vigilance officers
- 15) The Sr Accounts Officer/Accounts Officer (O&M-CC / DC / Audit Rev) Jodhpur Discom Jodhpur / Bikaner
- 16) The Executive Engineer (O&M/ DD/ CII/ A-B-C -Zone/ City-I-II/ Legal /A / Training/ Vigilance), Jodhpur Discom, **for circulating amongst all the AENs/JENs/ARO under your control.**
- 17) The Public Relation Officer, Jodhpur Discom, Jodhpur
- 18)

  
 23-7-21  
**SUPERINTENDING ENGINEER (RA&C)**  
**JODHPUR DISCOM, JODHPUR**

ANNEXURE - A'**BASIC ELECTRICAL PARAMETERS FOR OIL FILLED TRANSFORMER  
AS PER ENERGY EFFICIENT LEVEL 2****(I) 11/0.4 KV CLASS (ONLY 50% AND 100% OF TOTAL LOSSES ARE TO BE  
VERIFIED AS PER COMMLJDP/491 & 578)**

<b>RATING (KVA)</b>	<b>MAXIMUM TOTAL LOAD LOSSES AT 75°C (WATT) AT 50% OF RATED FULL LOAD CURRENT</b>	<b>MAXIMUM TOTAL LOSSES AT 75°C (WATT) AT 100% OF RATED FULL LOAD CURRENT</b>	<b>PERCENTAGE IMPEDANCE AT 75°C (TOLERANCE +/- 10%)</b>
16	135	440	4.5
25	190	635	4.5
63	340	1140	4.5
100	475	1650	4.5
160	670	1950	4.5
200	780	2300	4.5
250	980	2930	4.5
315	1025	3100	4.5
400	1225	3450	4.5
500	1510	4300	4.5
630	1860	5300	4.5
1000	2790	7700	5
1250	3300	9200	5
1600	4200	11800	6.25
2000	5050	15000	6.25
2500	6150	18500	6.25