

Comml. AJ- 834



AJMER VIDYUT VITRAN NIGAM LIMITED

(Commercial Deptt.) (Website-www.avvnl.com)

Corporate Identification Number (CIN)-U40109RJ2000SGC016482

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No. AVVNL/ ACE(H.Q.)/SE(Comml)/XEN(C-II) /F.

/2021-22 /D 1377 Dt. 28-07-2021

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 Comml Aj 409 dated 17.04.2009, 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 BEE 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 EEL-2 (Star) Distribution transformers.

Based on BIS specification, 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.

Encl: Annexure- A

By Order,

(M.C.Baldi)

Addl.Chief Engineer (HQ)

AVVNL Ajmer

BASIC ELECTRICAL PARAMETERS FOR OIL FILLED TRANSFORMER AS PER ENERGY EFFICIENT LEVEL-2			
11/0.4 KV CLASS (ONLY 50% AND 100% OF TOTAL LOSSES ARE TO BE VERIFIED AS PER COMML AJ 410 & 491)			
RATING (KVA)	MAXIMUM TOTAL LOAD LOSSES AT 75°C (WATT) AT 50% OF RATED FULL LOAD CURRENT	MAXIMUM TOTAL LOAD LOSSES AT 75°C (WATT) AT 100 % OF RATED FULL LOAD CURRENT	% IMPEDANCE AT 75°C (TOLERANCE +/- 10 %)
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



Addl. Chief Engineer (HQ)