



PUNJAB STATE POWER CORPORATION LTD

OFFICE OF CHIEF ENGINEER (MATERIAL MANAGEMENT)

CENTRAL PURCHASE ORGANIZATION,

Room No.215, 2nd floor, Multi Story Building, PSPCL Head Office, The Mall, Patiala

Phone No. 0175-2213047, Mob: 96461-22954, 96461-11034, e-mail: po-transformer@pspcl.in

Corporate Identification Number (CIN): U40109PB2010SGC033813

Registration Number: 33813, website: www.pspcl.in

e-tendering page: <https://eproc.punjab.gov.in/>

To

Sc. G (DDG-Standardization),

Manak Bhawan, 9, Bahadur Shah Zafar Marg,

Bureau of Indian Standards, New Delhi, 110002.

Memo No. 4224

Date: 7-11-24

Sub: To define loss levels for Dry Type Distribution Transformers.

With reference to the subject cited above, it is submitted that Central Electricity Authority has mandated the use of dry type DTs inside residential and commercial buildings as per clause xii of Regulation 46 (2) of CEA (Measures relating to Safety and Electric Supply)-Regulations 2023.

It is pertinent to mention here that currently, no loss levels have been specified in IS-11171 for dry type transformers. However, to comply with above mentioned directive of CEA, there arises a need to standardize losses for all ratings of dry type DTs as is done for oil immersed DTs by defining loss levels (EEL levels) in IS-1180.

In view of the above, it is requested that maximum permissible loss levels for all ratings of dry type distribution transformers may kindly be considered to be specified in IS-11171 to facilitate compliance with CEA regulations and standardize the dry type DTs, please.


Chief Purchase Officer/MM
PSPCL, Patiala.

4225

4-7-11-24

CC: Director General, BIS, Manak Bhawan,
9, Bahadur Shah Zafar Marg, New Delhi.



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Bureau of Indian Standards, New Delhi, 110002.

Memo No: 4222

Date: 7-11-24

Sub: Introduction of 40 KVA Distribution Transformers.

Ref: IS 1180 Amendment 1 Part 1 and IS 1180 Amendment 4 Part 1.

With reference to subject cited above, it is informed that PSPCL is currently utilizing 10 KVA, 16 KVA, 25 KVA and 63 KVA Oil immersed DTs for providing electricity to agricultural pump sets as per following PSPCL norms:

Sr. no.	Capacity of Distribution Transformer (KVA)	Load (BHP)
1.	10	Up to 7.5 BHP
2.	16	Above 7.5 BHP to 12.5 BHP
3.	25	Above 12.5 BHP to 20 BHP
4.	63	Above 20 BHP to 50 BHP

As there is a significant capacity gap between the 25 KVA and 63 KVA DTs, so, PSPCL is considering to introduce 40 KVA oil-immersed DT specification in the system. Further, due to declining water level in Punjab and neighboring states, there has been an increase in the load demand for agricultural pump sets which necessitates the requirement of 40 KVA DTs above 25 KVA.

It is pertinent to mention here that the 40 KVA rating is non preferred rating in IS-1180 but the loss levels were available in Amendment no. 1 to IS 1180. However, in subsequent amendment no. 4, the loss levels were omitted for 40 KVA rating and it was mentioned in the IS that for all non-preferred ratings of Table 1, maximum losses are subject to agreement between the user and the supplier.

In view of the above, it is requested to define new loss levels for 40 KVA DT rating covered under non preferred rating in existing IS-1180. Further, considering the depleting water level and need of higher capacity pumps sets (Capacity more than 20 BHP), it is requested to incorporate 40 KVA DT rating in preferred rating, please.

4223

24-7-11-24

CC: Director General, BIS, Manak Bhawan,
9, Bahadur Shah Zafar Marg, New Delhi.


Chief Purchase Officer / MM
PSPCL, Patiala.