

Reasoned documents for the comments

Sub: Reason document for draft specification of Potential Transformer (uploaded on RDSO's website for comments)

1. The Draft specification of Potential Transformer was uploaded on RDSO website on 24.12.2020 for comments (for 30 days). Same was emailed to CORE approved Current transformer manufacturers and Zonal Railways.
2. The comments have been received from Two (02) manufacturers on draft specification.
3. As per clause no.4.4 of RDSO ISO Document no. QO-D-8.1-2 Ver. 1.2, "The concerned personnel of directorate shall prepare a document containing all suggestions and comments and also record reasons for accepting / rejecting the same. Based on the accepted changes, the draft specification shall be modified. Such specifications shall be watermarked FINAL DRAFT on every page, to prevent the same from being used inadvertently."
4. As per clause no. 4.5 of RDSO ISO Document no. QO-D-8.1-2 Ver. 1.2, "The copy of the Final draft specification and the reasoned document shall be put up on the website, after approval of the directorate head, for at least 15 days. The final draft specification displayed on website shall also be emailed to all the existing approved sources for comments and suggestion."

Based on the comments received and accepted changes thereon, the draft specification is to be modified. Comments along with reason for accepting / rejecting are tabulated below

Clause No.	Description	suggestions and comments		reasons for accepting / rejecting
		M/s Lamco	M/s Vidyut Control	
Page 2 Line 1	DRAWING OF GENERAL SCHEME	DRAWING FOR GENERAL SCHEME		Maybe accepted Grammatical correction
1.1	220kV or 132kV or 110kV or 66kV (Type-I & II), or 25kV Potential transformers (PT)	220kV or 132kV or 110kV or 66kV or 25kV (Type-I & II) Potential transformers (PT)		Maybe accepted Typographical error
1.3	25kV potential Transformer	25kV (Type-I & II) potential Transformer		Maybe accepted Inclusion of (Type-I & II)
2.		Numbers to be added in Paras 2.1 & 2.2		Maybe accepted
14.4.1	IS:335-1992	IS:16227-Part 3		Accepted IS 16227- Pt.3 is for Potential transformer.
4.1 (X)	Altitude above mean sea level : 2000 Meters		CT specification indicated 2500 Meters, whereas for PT's altitude is indicated as 2000 Meters. Please correct as per requirement	Maybe accepted in line with CT Spec i.e. "Normally 1000 meters but some of the places it may be up to 2500 meter"
6.1.8. iii	Lightening impulse withstand voltage kV peak for 66 KV		to be corrected as 325 kV	Maybe accepted It is as per table-2 of IEC 60071-1:2019
6.2	Accuracy class as per IS 4146		IS No To be corrected as Is-16227-part-3	Maybe accepted La test IS for PT is 16227-3
6.2. i	Accuracy class 6P as per 4146 part iii -1992		IS No To be corrected as Is-16227-part-3	Maybe accepted La test IS for PT is 16227-3
6.2.ii	Accuracy class 1.0 as per 4146 part iii -1992		IS No To be corrected as IS-16227-part-3	Maybe accepted La test IS for PT is 16227-3
10. iii	PT to be used over coastal environments- HDG		Please specify surface finish required for different environmental conditions (i.e., coastal/upland areas)	May not be accepted Already explained in (i) & (ii)

12	The following accessories Plain rollers Adjustable arcing horn		Plain Rollers may be indicated as an optional accessory & Arcing Horns "Not Applicable"	Partially acceptable i. PTs are mounted at height on channel but they are supposed to pull from one place to another, hence rollers required. ii. Arcing Horns may be deleted as it is not applicable
14.4.1.4	measurement of insulation resistance measured with 500 megger		to be corrected as 500V megger	Maybe accepted Typographical error
14.4.1.7	Determination of errors (Accuracy class) in accordance with IS 4146		IS No. to be corrected as IS-16227-part-3	Maybe accepted La test IS for PT is 16227-3
Annex-4 SI no. 15	f) Under oil flashover or puncture withstand power frequency voltage g) Under oil flashover or puncture with stand impulse voltage .		Not relevant to porcelain insulators & hence may be reviewed.	Maybe accepted These tests are not mentioned in IS/IEC of PT or Bushing