

The following modifications/ amendments are hereby authorized to the Tender Specification No. CESU/ 154/ 08-09 for procurement of 8MVA, 33/11KV Power Transformers.

Clause No./ Page No.	As specified in the Bid Document	Amendments / Modifications	
25.3 (d) of Section – II, Page – 14	d) Capitalized cost for the Guaranteed No Load & Load Losses.	Clause No. 25.3 (d) of Section – II, Page – 14 is deleted .	
2.0, Section - IV, item No.27 (b), Page - 29	Minimum clearances in air (mm) for LV:	Minimum clearances in air (mm) for LV:	
	Phase to phase Phase to earth	Phase to phase	Phase to earth
	280 140	280	205
2.0, Section - IV, Item No.35 , Page - 30	Maximum permissible no load loss at rated voltage & rated frequency: 6.50 KW	Maximum permissible no load losses at rated voltage & rated frequency:	6.10 KW
2.0, Section - IV, Item No.36 , Page - 30	Maximum permissible load loss at rated current and at 75°C: 48.00 KW	Maximum permissible load loss at rated current and at 75°C:	44.0 KW
2.2, Section - IV, Page -31	CAPITALISATION OF LOSSES AND LIQUIDATED DAMAGES:	Deleted.	
9.0 of Section – IV, Page - 60	CAPITALISATION OF LOSSES AND LIQUIDATED DAMAGES FOR EXCESSIVE LOSSES	Clause No. 9.0, 9.1 & 9.2 are deleted and substituted with the followings:	
9.1 of Section – IV, Page - 60	LOSSES:	LOSSES:	
	Transformer with lower losses shall be preferred. The bidder shall indicate the values of load and no load losses of the transformer in his bid.	a) The no load losses in KW at rated voltage and rated frequency and total losses in KW at rated full load current and rated frequency at 75°C shall be guaranteed for each transformer. If the figures of the losses are less than the guaranteed values, no bonus will be allowed.	
9.2 of Section – IV, Page - 60	CAPITALISATION OF LOSSES	b) While the Tenderers may offer their own design, it may be noted that the transformer losses at 75°C should not exceed the following limits.	
	For total cost evaluation, the capitalized cost of losses will be taken into account as per the following: Capitalized Cost of Transformer = Initial Cost of Transformer + Rs. A x W _i + Rs. B x W _c	No load Losses (Fixed Losses)	Load Losses at 75°C
		6.1 KW (max)	44 KW (max)
	Where, W _i = No Load losses in KW & A = Rs.1,52,847.00 for no load losses.	c) The purchaser reserves the right to reject any transformer if during tests at	

	<p>W_c = Load losses in KW & B = Rs.20,175.00 for load losses.</p>	<p>supplier's works, the tested no load losses and load losses, exceed the corresponding maximum guaranteed losses.</p>
<p>Annexure – V, Section-V, Page - 80</p>	<p>The no load loss in KW at rated voltage & frequency and the load loss in KW at rated current, rated frequency, rated output and at 75 ° C shall be quoted and these figures shall be guaranteed.</p> <p>Note:</p> <p>Liquidated damages for non-performance of transformers shall be recovered from the contractor in case he is unable to achieve the quoted guaranteed loss figures at the rate equivalent to the double of the rate considered for evaluation i.e. at the following rates:</p> <p>i) For each KW of excess in no load losses : Rs.3,05,694.00</p> <p>ii) For each KW of excess in load losses : Rs.40,350.00</p> <p>However, the transformer(s) shall be rejected outrightly, if any of the losses i.e. no load loss or load loss or both exceed (s) the guaranteed maximum permissible loss figures quoted by the bidder in the Technical Data Schedule submitted with the bid.</p> <p>Rational of Loss Capitalization Formula for Transformers</p>	<p>d) The purchaser reserves the right to test any one transformer from each lot offered for inspection/ supply in any independent laboratory of national repute for the purpose of testing the no load and load losses. The entire expenses for the same shall be borne by the firm and results obtained shall be considered and applicable in all the supplies.</p> <p>e) The supplier shall provide, along with the tender, design, detail of core assembly showing the constructional details, core diameter, net/ gross cross-sectional area of the core assembly etc. The information must also be given in respect of volts per turn at principal tap for normal voltages. The loss curves for type/ grade of CRGO steel core laminations being used for core shall also be provided along with the tender documents.</p> <p>Deleted.</p>

**CHIEF GENERAL MANAGER
(APDRP & CONTRACTS)**