

**Pre Bid Technical Clarification No.6 dated 17.09.2025 against NIB No.477 dtd 26.02.2025 for EPC execution of 240 MW Heo HEP**

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidder Query dtd 26.03.2025	Pre-bid Reply(Pre Bid Commercial Clarification No.2 dtd 14.05.2025 at Sl.No.16, Point No.3)	Bidder Queries dtd:05/08/2025 on NEEPCO replies of Point No.3(Pre Bid Commercial Clarification No.2 dtd 14.05.2025 at Sl.No.16)	NEEPCO Replies								
1	Pre bid technical clarification No. 02 dtd 14.05.2025, Sl. No. 16 & Pre bid technical clarification No. 03 dtd 27.05.2025, Sl. No. 85	Sl. No. 16 Sl. No. 85	2.6.40, Vol. II, Section - II, E-2	For the purpose of comparison of bids, the quoted prices shall be equalized for the guaranteed transformer losses. Taking the lowest values of no-load and load losses and other losses indicated by any of the Bidders as the reference, the quoted prices of various Bidders will be loaded for excess losses (difference of guaranteed losses and the reference losses) at the same rate as given above for liquidated damages computation. All losses considered shall be without any +ve tolerance.	Kindly confirm to our following understanding: 3.Capitalization of losses as per Cl. 2.6.40 (Vol-II, Sec- II: E2) is not clear on which transformers (Viz. GSU, UAT, SST etc) it is applicable. We request NEEPCO to kindly clarify bid loading clearly enable bidder to understand properly.	Capitalization of losses as per clause no. 2.6.40 of PTS Electrical, Vol-II, Sec-II;E-2 shall be applicable on Generator Step up Transformers, Power Transpormers and Distribution Transformers as listed in Sl. No. 15 and 16 of the Bill of quantities/Sub-section E-2 and E-6 of PTS Electrical	Kindly confirm to our following understandings regarding transformer losses: 1. For bid loading, per KW Rates mentioned at clause no. 2.6.40 are applicable for GSU transformers only.  2. For bid loading, per KW rates are not mentioned for Power transformers and distribution transformers. We would like to inform that maximum allowable losses are mentioned for Distribution transformers in pre bid reply dated 27.05.2025(Sl. No. 85) . Hence, bid loading on Power transformers & Distribution transformers may be removed. 3. No maximum allowable losses (No load, Load & auxiliary) are mentioned for GSU transformers & 5 MVA SST. Kindly confirm.  Kindly reply pointwise.	1. Confirmed. 2. Bid loading for differential losses shall be applicable for Power transformer (SST) and not for the Distribution Transformers. Criteria for bid loading for SST along with Guarantee & penalty shall be as per Clause 6.13 of revised PTS for Distribution Transformer. With regard to Distribution Transformers, Bidder to strictly maintain the maximum permissible losses mentioned at Pre-bid Clarification No. 3 dtd. 27-05-2025 . Guarantee and penalty clause for Distribution Transformer shall be as per revised PTS of Distribution Transformer as attached at <b>Annexure-I of Corrigendum No17.dtd17.09.2025</b> . 3. It is confirmed that no maximum allowable losses are mentioned for GSU transformers & 5MVA SST. However, bid loading shall be applicable for GSU transformers & 5MVA SSTs. Rate for bid loading for differential losses for GSU transformers & SST has been modified as below.  <table><tr><td>Differential of specified losses vs Measured losses</td><td>Rate (in INR per KW)</td></tr><tr><td>No load losses</td><td>Rs 5,00,000/KW</td></tr><tr><td>Load losses</td><td>Rs 4,00,000/KW</td></tr><tr><td>Auxiliary losses</td><td>Rs 4,00,000/KW</td></tr></table> In view of above, Guarantee Clause for GSU Transformer has also been revised and attached at <b>Annexure-2 of Corrigendum No.17dtd.17.09.2025</b>	Differential of specified losses vs Measured losses	Rate (in INR per KW)	No load losses	Rs 5,00,000/KW	Load losses	Rs 4,00,000/KW	Auxiliary losses	Rs 4,00,000/KW
Differential of specified losses vs Measured losses	Rate (in INR per KW)															
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Sl. No.	Pre Bid Clarification	NEEPCO Reply published vide Pre bid technical clarification No. 03 dtd 27.05.2025, Page No.12/26, Sl. No. 85	Bidders Queries on NEEPCO replies published vide Pre bid technical clarification No. 03 dtd 27.05.2025, Page No.12/26, Sl. No. 85	NEEPCO Replies
2	<p>Pre bid technical clarification No. 03 dtd 27.05.2025, Page No.12/26, Sl. No. 85</p> <p><b>Bidders Query:</b> There are three ratings of Distribution Transformers i.e 630 kVA, 1500 kVA and 160 kVA. Hence, the losses also to mentioned seprately.Please clarify the same.</p>	<p>For 630kVAMaximum Losses (Inclusive of all tolerance)</p> <ul style="list-style-type: none"> <li>- No load losses at rated voltage : 2.0 kW(max.)</li> <li>- Load Losses at principal tap rated capacity : 7.0 kW (max.)</li> <li>- Total losses : 9.0 kW (max.)</li> </ul> <p>For 1500kVAMaximum Losses (Inclusive of all tolerance)</p> <ul style="list-style-type: none"> <li>- No load losses at rated voltage : 2.8 kW(max.)</li> <li>- Load Losses at principal tap rated capacity : 14 kW (max.)</li> <li>- Total losses : 16.8 kW (max.)</li> </ul> <p><b>For 160kVA Maximum</b></p> <p><b>Losses (Inclusive of all tolerance)</b></p> <ul style="list-style-type: none"> <li>- No load losses at rated voltage : 0.28 kW(max.)</li> <li>- Load Losses at principal tap rated capacity : 1.7 kW (max.)</li> <li>- Total losses : 2.38 kW (max.)</li> </ul>	<p><b>For losses of 160 KVA Distribution Transformer:</b></p> <p>The no-load losses specified are abnormally low and not feasible. There appears to be some error in the specification data. The no-load + load loss should be equal to total losses and these figures do not match.</p> <p>The specified loss figures are nowhere specified in IS-2026-11 (Indian standard for dry type transformers). Please note that the major insulation for dry type transformers is air and the 160 KVA transformer under discussion is 36 KV class transformer where the core frame size will be on higher side due to 36 KV class insulation level.</p> <p>No-load losses are directly proportional to core size and cannot be reduced abnormally.</p> <p><b>We have reviewed design parameters and propose the best possible revised losses are given below :-</b></p> <p><b>For 160 kVA Maximum</b></p> <p><b>Losses (Inclusive of all tolerance)</b></p> <ul style="list-style-type: none"> <li>- No load losses at rated voltage : 1.5 kW(max.)</li> <li>- Load Losses at principal tap rated capacity : 1.7 kW (max.)</li> <li>- Total losses : 3.2 kW (max.)</li> </ul> <p>Kindly confirm.</p>	<p>The queries have been reviewed and it is clarified that</p> <p><b>1) 160 KVA Transformer will be Outdoor Oil type.</b></p> <p><b>2) No laod Loss-0.28 KW (max.) reviewd and revised to 0.325 KW (max.).</b></p> <p>Now, the revised max. permissible Losses for 160KVA Transformer are as follows:</p> <p><b>No load Loss-0.325 KW (max.)</b></p> <p><b>-Load loss at principal tap rated capacity-1.7 KW (max.)</b></p> <p><b>-Total Losses-2.025KW (Max.)</b></p>