

Clarification No.-II dated 07/07/2026 to the Bidding Documents for Reconductoring package OH03 for Reconductoring of Pugalur-Madurai 400 kV D/C lines with twin HTLS conductor (Capacity 2100 MVA) associated with "Reconductoring of Tirunelveli-Udumalpet and Pugalur-Madurai 400 kV D/C lines with HTLS conductor". Spec. No: CC/NT/W-COND/DOM/A04/26/07903

SI No:	Clause	Query / Clarification	Reply
1	07_3 Section -VII B HTLS Conductor Rev-8 (March'2026) Clause 1.9.2.1 Core However, in no case, the guaranteed values for torsion & elongation of Steel/ Invar core of the offered HTLS Conductor shall be less than as indicated below: Minimum No. of twists in gauge length equal to 100 times the dia. of wire which the strand can withstand in the torsion test (before stranding) * 12	For higher diameter ranges of UHS/MHS wires, a minimum 12 twists is metallurgically restrictive and inconsistent with standard manufacturing tolerances. Kindly allow the torsion values for Zinc coated/galvanized UHS/MHS steel core wires to be in accordance with IEC 63248:2022, varying as per the respective wire diameter ranges.	No change in the provision of bidding documents.
2	07_3 Section -VII B HTLS Conductor Rev-8 (March'2026) Clause 2.14 Standards	Kindly incorporate the following standards ASTM B1012/B1012M-26 Standard Specification for Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors, Carbon Fiber Composite Supported (ACCFCS/TW)	No change in the provision of bidding documents.
3	NA	Recently, ASTM have recently published ASTM B1012 – Standard for Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors, Carbon Fiber Composite Supported (ACCFCS/TW). ASTM B1012 is the applicable international standard for the complete ACCFCS/TW conductor, while ASTM B987-25 specifies the requirements and Design Validation Tests for the polymer matrix composite (PMC) core. The offered HTLS conductor and its associated core shall comply with the applicable published national and/or international standards. Accordingly, we request that the tender specification clearly state that: The offered HTLS conductor shall comply with ASTM B1012 (or equivalent applicable national / international standard) for the complete conductor. The offered PMC core shall comply with ASTM B987-25, including the Design Validation Tests specified in Table 2. Accordingly, our understanding is that during the detailed engineering stage, PGCIL's evaluation will require offered PMC core fully tested as per Design Validation Tests specified in Table 2 of ASTM B987-25. Further, where the PMC core includes a metallic cover, PGCIL's evaluation will require offered PMC core with metallic cover on fully tested as per Design Validation Tests specified in Table 2 of ASTM B987-25. Lastly, it our understanding that for metallic cover put on the PMC core, PGCIL will require bidder to prove adherence to any of the standards specified in the list of standards provided in Volume II, Section VIIB (HTLS Conductor), clause 2.14 – Standards, page no. 18 of 29. This is in line with CEA's guidelines and advisories that all PMC cores must fully adhere to national or international standards. We therefore kindly request you to confirm whether our above understanding is correct so that we can prepare and submit our bid accordingly.	No change in the provision of bidding documents.

Clarification No.-II dated 07/07/2026 to the Bidding Documents for Reconductoring package OH03 for Reconductoring of Pugalur-Madurai 400 kV D/C lines with twin HTLS conductor (Capacity 2100 MVA) associated with "Reconductoring of Tirunelveli-Udumalpet and Pugalur-Madurai 400 kV D/C lines with HTLS conductor". Spec. No: CC/NT/W-COND/DOM/A04/26/07903

SI No:	Clause	Query / Clarification	Reply
4	NA	<p>During our detailed review of the tender specification, we noted that ASTM has recently published ASTM B1012 – Standard for Shaped Wire Compact Concentric-Lay-Stranded Aluminium Conductors, Carbon Fiber Composite Supported (ACCFCS/TW), which establishes the internationally recognized requirements for the complete ACCFCS/TW conductor.</p> <p>ASTM B1012 governs the complete conductor & so is the applicable international standard for the complete ACCFCS/TW conductor, while ASTM B987-25 specifies the requirements and Design Validation Tests for the polymer matrix composite (PMC) core. The refined HTLS conductor and its associated core shall comply with the applicable published national and/or international standards.</p> <p>Accordingly, we request that the specification explicitly provides that:</p> <p>The offered HTLS conductor shall comply with ASTM B1012 (or an equivalent applicable national/international standard) covering the complete conductor.</p> <p>The offered PMC core shall comply with ASTM B987-25, including successful completion of all Design Validation Tests specified in Table 2.</p> <p>Thus, as a bidder, we understand that, during technical evaluation, PGCIL will evaluate compliance of the offered PMC core fully tested against the Design Validation Tests prescribed in Table 2 of ASTM B987-25. Further, wherever the PMC core is part of the offered HTLS complete covered core shall also be required to have successfully passed the same Design Validation Tests specified in Table 2 of ASTM B987-25.</p> <p>It is also our understanding that the metallic covering, where applicable, shall comply with the standards specified under Clause 2.14 (Standards) of Volume II, Section VIII (HTLS Conductor) Pg No 18 of 29. We believe this approach is fully aligned with the intent of the CEA guidelines/advisories, which emphasize adherence of all PMC cores to recognized national or international standards.</p> <p>We shall be grateful if you could kindly confirm whether the above understanding is in line with PGCIL's intended technical requirements. Such clarification will ensure uniform interpretation of the specification by all prospective bidders and facilitate submission of technically compliant offers.</p>	<p>No change in the provision of bidding documents.</p>