

**Amendment – IV dated 12.03.2024 to RFP documents for selection of bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission System for Evacuation of power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part A” through tariff based competitive bidding process**

Sl. No.	Clause No.	Existing Provision	New/Revised Provision
1.	Clause 19 of specific technical specification of RfP (page no. 151)	<p>19. Converter Station AC Yard, Transformer yard and valve hall</p> <p>(iv) Performance Requirement</p> <p>A. The individual harmonic distortion, Dn, shall not exceed 1.5%</p> <p>B. The total effective distortion, Deff, shall not exceed 3.0%.</p> <p>C. The Telephone Influence Factor (TIF) shall not exceed 50.</p>	<p>19. Converter Station AC Yard, Transformer yard and valve hall</p> <p>(iv) Performance Requirement</p> <p>A. The individual harmonic distortion, Dn, shall not exceed 1.5%</p> <p><b><u>Individual Harmonic Distortion, <math>D_n = V_n/V_1</math></u></b></p> <p>B. The total effective distortion, Deff, shall not exceed 3.0%.</p> <p><b><u>Total Effective Distortion, <math>Deff = \sqrt{(\sum (V_n*100/V_1)^2)}</math></u></b></p> <p>C. The Telephone Influence Factor (TIF) shall not exceed 50.</p> <p><b><u>Telephone Influence Factor, <math>TIF = \sqrt{(\sum (V_n*F_n/V_1)^2)}</math></u></b></p> <p><b><u>Where Fn: Weighting factor for nth harmonic according to EEI publication - 60-68(1960) corrected to 50 Hz operation by graphical interpolation.</u></b></p>
2.	RfP Annexure – D Specific Technical Requirements for HVDC Transmission Line Page 206 of 251	.....	<p><b><u>A.18.0 Wherever, transmission lines are passing through cyclone prone areas i.e. areas up to 60 km from coast following shall also be applicable:</u></b></p> <p><b><u>a) Terrain category-I, with terrain roughness factor (K2) of 1.08 shall be considered for tower design for exposed open terrain with few or no obstruction which also includes open sea coasts, open stretch of water, desert and flat treeless plains.</u></b></p> <p><b><u>b) Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design.</u></b></p> <p><b><u>c) The number of consecutive spans between the section points/ angle point shall not exceed 10 spans or 3 km instead of conventional practice of 15 spans or 5 km, in order to reduce the failure of such towers in coastal areas due to cascading effect. The section shall be terminated with tension tower/ angle tower and angle of deviation should be based on the site requirement.</u></b></p> <p><b><u>A.19.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.</u></b></p> <p><b><u>A.20.0 Safety precautions in regards to gas/oil pipe lines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum authorities.</u></b></p>