Nepal Electricity Authority

Transmission Directorate

Grid Development Department

Burtibang Paudi-Amrai Tamghas Sandhikharka Gorushinge 132 kV Transmission Line Project

IFB No. BPTSG-074/75-03: Design, Supply, Installation, Testing and Commissioning of 132 kV Transmission line at Sandhikharka - Burtibang section

Clarification-II

S. No.	Description Clause of reference for required clarification	Bidder's Query	NEA's Response
1.	Schedule A.5	The towers will be designed to carry ACSR "BEAR" conductor, Please confirm towers are to be designed for ACSR "BEAR" SINGLE conductor.	Towers are to be designed for ACSR "BEAR" conductor Double circuit with only one conductor per phase.
2.	Volume-II, Scope of Works and General Technical Specification, Clause 1.12 Site Data Chapter 1 Transmission Line Tower, Clause 1.5 Loading Conditions	Ice and snow thickness is given as 10 mm while in Minimum temperature loading conditions described as without ice & wind. Please confirm whether ice/wind shall be considered in minimum temperature loading condition.	Follow Addenda I.
3.	Chapter 1 Transmission Line Tower, Clause 1.5 Loading Conditions, 3 Broken wire	The earth wire tension reduced to 60% of max. working tension. Please confirm it is required for conductor/earthwire or both conductor & earthwire.	Clearly mentioned in bid document, clause 1.5.1-3 and 1.5.4
4.	Chapter 1 Transmission Line Tower, Clause 1.4 TABLE 1.2	Swing values of insulator string for suspension, pilot and jumper are furnished in the specification however corresponding minimum live metal clearances are not furnished for pilot string. Kindly furnish the same.	Minimum live metal clearance for pilot string shall be 1530 mm.

5.	Chapter 1 Transmission Line Tower, Clause 1.5.2 & 1.5.3	Maximum Tension limits: ultimate tension under everyday temperature and 100% design wind pressure or minimum temperature and 36% design wind pressure does not exceed 70% UTS of conductor/ground wire. However as per schedule A.3, factor of safety for conductors/ground wire based on ultimate tensile strength is mentioned as 2.5(=40%) for conductor and 4 for earthwire OPGW(=25%). Please clarify which limit is to be followed.	Follow whichever is more stringent.
6.	Chapter 1 Transmission Line Tower, Clause 1.6.5	Minimum thickness of members in cross arm, we shall provide minimum thickness of 5 mm only for main lower chord members in cross arm. Please confirm	Minimum thickness of 5 mm for main chord members.
7.	Chapter 1 Transmission Line Tower, Clause 1.6.5	Minimum thickness in ground wire peak, we shall provide minimum thickness of 5 mm only for main leg members in ground wire peak. Please confirm.	Confirm.
8.		Please confirm the temperature and wind percentage to be considered in broken wire condition for suspension/tension towers.	Follow IS 802(Part 1)
9.	Volume I, EQC, clause 2.7 Subcontractors/ Manufacturers, Item no. 2 Insulator iv)	Bidder must submit the type test report carried out by reputed independent accredited testing laboratory for the size offered. Kindly clarify type test reports of similar or higher size/rating insulators are acceptable.	Type tests reports of similar size/rating required.
10.	Volume I, EQC, clause 2.7 Subcontractors/ Manufacturers, Item no. 3 Insulator string assemblies/ hardware iv)	Bidder must submit the type test report carried out by reputed independent accredited testing laboratory for the size offered. Kindly clarify type test reports of similar or higher size Insulator string assemblies/hardware are acceptable.	Type tests reports of similar size required.

11.	Volume I, EQC, clause 2.7 Subcontractors/ Manufacturers, Item no. 4 ACSR Bear conductor iv)	Bidder must submit the type test report carried out by reputed independent accredited testing laboratory for the size offered. Kindly clarify type test reports of similar or higher size conductors are acceptable.	Type tests reports of similar size required.
12.	Volume I, EQC, clause 2.7 Subcontractors/ Manufacturers, Item no. 4 ACSR Bear conductor ii)	Must have designed, manufactured, tested and supplied ASCR Bear conductor at least twice the bid quantity as a main supplier over last five (5) years period ending on the last date of bid submission. Out of supplied quantity, a minimum of half the bid quantity shall have been in operation satisfactorily to the end users for at least two (2) year. Kindly clarify whether supply record & performance certificates of similar or higher rating conductor is acceptable.	Supply record & performance certificates of similar rating conductor required.