Project Name: **Procurement of Plant for Design, Engineering, Supply, Construction, Erection, Testing and Commissioning of New Butwal to Lamahi 400 kV Transmission Line**

OCB No.: **NEA/PMD/ETDSP/NBLTL-083/84-01**

CLIENT : **Nepal Electricity Authority**

Pre-Bid Clarification-III

Sr.No.	Clause and Document Ref.	Bidder's Queries	NEA's Reply
1	Vol-2, Sec-1, Project Specific Requirement, Cl. No. 17.0, Vol-1, Sec-7, GCC, Cl. No. 10.2 Vol-1, Sec-8, SCC, Cl. No. 10.2 Calrification-1 Sr.No. 101	No date(s) are specified in that Appendix. Please specify the exact date(s) when the Employer shall give to the Contractor the full possession of and accord all rights of access thereto, kindly provide the date(s) by which NEA will give full possession of land to start the work. Reply to this query remains unanswered in S.No. 101 of Pre-Bid clarification-1, Request you to clarify the same.	The Employer reserves the right to give part possession of the site as per provision of the bid document.
2	General	Contract is silent on time & cost compensation in case of delay in land handing over/ resolving ROW from Employer end. Kindly provide the detailed clause to protect the contractor in case of dealy of ROW/land handing over.	It shall be as per the Bidding Document
3	Vol-1, Sec-8, SCC, Cl. No.14 Calrification-1 Sr.No. 114	It is mentioned that the WHT will be deposited in zero pan account. Please clarifiy that whether the WHT can be deposited in our PAN (tax account number in Nepal) and a tax credit certificate will be provided by NEA?	It will be as per Sr.No. 114 of Clarification-I.
4	Vol-1, Section-9-Contact Forms - Contarct Agreement clause 3.1	**Effective Date (Reference GCC Clause 1)** The Effective Date upon which the period until the Time for Completion of the Facilities shall be counted from is the date when all of the following conditions have been fulfilled: (a) This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor. (b) The Contractor has submitted to the Employer the performance security and the advance payment guarantee. (c) The Employer has paid the Contractor the advance payment. (*The day on which the Employer sends payment recommendation to the Bank shall be considered the date of payment*). Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable. **We request you also add a new clause in addition:** **(d) the handing over of encumbrance-free locations**	No changes shall be made. It shall be as per the Bidding Document.
5	1.B SECTION 1 Project Specific Requirement (PSR), 12.5, Various clearances to be maintained along the line.	Normal ground for pedestrians only :9.5m The ground clearance is specified as 9.5 m in the bidding document; however, as per IS 5613 3-1, Cl 14.1.1 , the corresponding minimum ground clearance is 8.84 m. Kindly confirm whether the specified 9.5 m clearance is correct and should be adopted for the project design.	It shall be as per the Bidding Document

<table>
<tr><th>Sr.No.</th><th>Clause and Document Ref.</th><th>Bidder's Queries</th><th>NEA's Reply</th></tr>
<tr><td>6</td><td>1.B SECTION I Project Specific Requirement (PSR),
7.1.3 Tower types suitable for Quad MOOSE ACSR</td><td>The tower schedule includes both tall-type towers (TDA, TDB, etc.) and normal towers (DA, DB, etc.). Kindly clarify the criteria for selecting tall-type towers versus normal towers and confirm the specific locations, terrain conditions, or design requirements under which each tower type should be adopted.
<table>
<tr><th>Type of Tower</th><th>Deviation Limit</th><th>Typical Use</th></tr>
<tr><td>TDA/DA</td><td>0 – 2 deg</td><td>To be used as a Tangent tower</td></tr>
<tr><td rowspan="2">TDB/DB</td><td>0 deg</td><td>To be used as Section Tower</td></tr>
<tr><td>0 - 15 deg</td><td>a) Angle towers with tension Insulator string
b) Also, to be used for Anti Cascading Conditions</td></tr>
<tr><td rowspan="2">TDC/DC</td><td>0 deg</td><td>To be used as Section Tower</td></tr>
<tr><td>15-30 deg.</td><td>a) Angle tower with tension insulator string
b) Also, to be used for anti-cascading conditions</td></tr>
<tr><td rowspan="2">TDD/DD</td><td>30 - 60 deg</td><td>a) Angle tower with tension insulator string</td></tr>
<tr><td></td><td>Dead end with 0 deg to 15 deg deviation both on line side and sub-station side (slack span)</td></tr>
<tr><td>QD (4 Ckt)</td><td>30 - 60 deg.</td><td>a) Angle tower with tension insulator string
Dead end with 0 deg to 15 deg deviation both on line side and sub-station side (slack span)</td></tr>
<tr><td>DDH (narrow base tower)</td><td>30 - 60 deg.</td><td>a) Angle tower with tension insulator string
Dead end with 0 deg to 15 deg deviation both on line side and sub-station side (slack span)</td></tr>
</table></td><td>It will be decided during detail engineering in line with the Bidding Document.</td></tr>
<tr><td>7</td><td>4.0 Section IV A Fabrication, Erection & Stringing
1.5.2 Wind Loads on Tower Body</td><td>Terrain Categoy -2
As per Table 3 of IS 802:2015, for transmission lines encountering a hill or ridge, the value of K_2 is required to be taken as the next higher value. Kindly clarify whether the TC-2 value specified in the tender is to be adopted as such, or whether the K_2 value shall be revised (ie. k2=1.08) in accordance with the provisions of IS 802:2015.</td><td>It shall be as per the Bidding Document.</td></tr>
<tr><td>8</td><td>General</td><td>ICE LOADING
The technical specifications do not include any requirements for ice loading. Accordingly, we have assumed that ice loading is not applicable to this project and has not been considered in the tower and line design. Kindly confirm whether this assumption is correct.</td><td>Confirmed.</td></tr>
</table>

Sr.No.	Clause and Document Ref.	Bidder's Queries	NEA's Reply
9	1.B SECTION I Project Specific Requirement (PSR), 3. SCOPE OF WORK:	Summary of Scope of Supply: Checking of design as per latest code, fabrication and towers testing, finalizing the designs and drawings, and BOMs for construction of both Multi ckt and Double ckt towers. Kindly clarify the Contractor's design scope. Specifically, please confirm whether all tower types, including Normal Towers, Tall Towers, and Multi-Circuit Towers, are to be fully designed by the Contractor, or whether the Employer will provide the tower designs, with the Contractor's scope limited to design verification/checking and material supply. Please also confirm the applicable scope of work for each tower category.	Refer Sr.No.20 of Clarification-I.
10	4.0 Section IV A Fabrication, Erection & Stringing 1.6.4 Redundant Design	1.7.1.3 All redundant are designed individually for 2.5% of maximum axial load of connecting members (i.e., leg members, bracing members etc.). As all tower types have already been successfully tested, kindly clarify whether any revision to the design of redundant members is required during the design verification process in cases where the redundant members have not been designed for 2.5% of the governing load. Further, if design verification is within the Contractor's scope, kindly confirm whether force sharing at joints with multiple connected members may be considered for the design of redundant members, rather than designing each member individually for the full 2.5% redundant force. Please confirm the acceptable design methodology to be adopted.	No changes shall be made. It shall be as per the Bidding Document.
11	4.0 Section IV A Fabrication, Erection & Stringing 1.4.3 Live Metal Clearance	NOTE: in case of pilot insulator strings, the angle of swing of the jumper along with the pilot string shall be considered as 15 deg. Kindly furnish the applicable live metal clearance values for jumper and Pilot insulator.	It shall be as per the Bidding Document.
12	4.0 Section IV A Fabrication, Erection & Stringing 1.6.7 Slenderness Ratio	Slenderness ratio for members shall be computed in accordance with clause 6.4 of IS: 802 (Part-1/Sec 2):2016. The specification stipulates the permissible kL/r ratios with reference to the provisions of the earlier version of IS 802. However, as per the latest amendment to IS 802 (March 2025),CL 6.3 the allowable kL/r limits have been revised/modified. In this regard, kindly clarify whether the kL/r ratios specified in the tender document shall govern the design, or whether the revised limits as per the latest IS 802 amendment (March 2025) should be adopted for tower member design and checking.	It shall be as per Volume -2, PSR, Clause 2: INTENT OF THE SPECIFICATION
13	4.0 Section IV A Fabrication, Erection & Stringing 1.4.3 Live Metal Clearance	Minimum live metal clearance to be provided between the live parts and steel work of superstructure shall be as given in Table 1.2. The live metal clearances specified in the tender document differ from the values prescribed in the applicable Indian Standards IS 5613 Table 1. Kindly clarify whether the clearances provided in the tender are final and shall be adopted for design, or whether they may be revised to comply with the relevant Indian Standard requirements.	It shall be as per the Bidding Document.
14	Section 1.4 - Design of Foundations	The Bidder shall offer open type of foundation (i.e., slab and chimney) with maximum depth of foundation as 3.0 meters. Please confirm that we need to adopt foundation depth as 3.0m only, or 3.5m foundation depth adoption is also feasible as per Industry practice for D/C towers also.	This is an EPC Contract. The Contractor shall review and optimise the designs as per the Bidding Document and take full design responsibility / liability for the designs accordingly.

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Sr.No.	Clause and Document Ref.	Bidder's Queries	NEA's Reply
15	Section 1.6 - Design of Foundations	Contractors must, however, double-check the current design in order to optimize it and other foundation designs based on the soil investigation report at any particular location shall be developed by the contractor if required for the project and directed by the Employer without any financial implication to the Employer. Please confirm that the Employer will provide foundation forces, foundation designs and drawings to successful bidder for double check and vetting at their end during execution stage.	The Employer will provide available standard foundation designs to the sucussful bidder to the extent available to the Employer. The Contractor shall review/optimize them and develop required raised-chimney/special foundation designs based on soil investigation and site conditions, subject to Employer approval.
16	Section 1.6.1.3 - Design of Foundations	OLF - The overload factor for foundation loads shall be considered as 1.1 i.e., the reaction on the foundations shall be increased by 10 percent. Please confirm that the OLF of 1.1 is to be considered on tower reactions as per working load only.	It shall be as per the Bidding Document.
17	Bid Price Schedule	Since the tower tonnage is already specified in the Price Schedule, we seek clarification regarding the responsibility for any variation in tower weights or foundation quantities/volumes arising during the design verification and checking process. We understand that the Contractor shall be paid on unit-rate basis on any change in quantity due to variation in tower weights or foundation quantities/volumes arising during the design verification and checking process. Kindly confirm our understanding.	Unrestricted modification of towers is not permitted. The Contractor may propose justified optimization/modifications based on engineering or site conditions, supported by calculations/drawings and subject to Employer approval.
18	ROW clearances	Please specify by what timeline is the ROW activity, including Stage-1 and Stage-2 approvals expected to be completed for Lot-1 and Lot-2.	Refer Sr.no.1 of this clarification.
19	GCC 33.2.3: Quantity variation	Clause mentions: "The Employer reserves the right to increase or decrease the quantity of different items of the specified goods and services to the extent of fifteen percent (15%) of the revised contract price pursuant to the GCC Clause 11.1, by way of suitable amendment to the Contract, without any change in unit rate/price and/or other terms and conditions of the Contract. However, the quantities of individual items of goods and services may vary up to any extent." In the event of change in quantities leading to revised contract price which is exceeding the 15% ceiling, we request the Employer to fix-up fresh unit rates post discussion with Contractor based on the practice followed in World Bank projects.	No changes will be made. It shall be as per the Bidding Document.
20	Tree Cutting and Replantation	Since a major portion of the transmission line passes through forest areas, tree cutting shall be carried out in accordance with the detailed survey. We understand that tree felling, compensatory afforestation and/or replantation, and all associated statutory clearances are within the scope of the Employer. Kindly confirm our understanding.	Refer Sr.No.50,51 and 52 of Clarification-I

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