

**KOSHI CORRIDOR 220 KV TRANSMISSION LINE PROJECT**  
**TRANSMISSION DIRECTORATE**  
**NEPAL ELECTRICITY AUTHORITY**



Procurement of Plant Design, Supply and Installation of 220 kV Basantapur (Terhathum District)- Dhungesangu ( Taplejung District) Double circuit  
 Transmission Line and 132/33 kV Substation in Dhungesangu (Taplejung) District.  
 Bid/Contract Identification No: KOSHI/NEA/KC-3

Clarification No. 2

**KEC LIMITED**

S/NO.	FROM	SECTION/CL AUSE NO.	CLAUSE DESCRIPTION	Comment/Question Of Bidder	CLARIFICATION given by NEA
1.	Section 6 Employer's Requirement	Section - 1, Clause 1.1.1.2, Sub Clause (m)	"Design and drawing of foundations for different soil conditions and classification of foundation for different type of towers viz DB, DC & DD type of towers ....."	We understand from these clauses of the bidding document that Design and drawing of foundation shall be provided by the NEA. If during execution, if different type of soil (other than specified in Section-III) is encountered at any location, the design of foundations for such soils shall also be in the scope of this work, the bidder will require to quote a rate for this foundation design.	Confirmed and which is deemed to have been covered in the Detail Designing head at item no. 3.1 of Price Schedule 3A Design Services.
		Section - IVA, Chapter-1 Clause No. 1.0, Para 3	"The scope also covers design of foundations for all type of towers, in different types of soils."	We also understand that design and drawing of special foundation pile/well is in	



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		Section – IVA, Chapter-1, Clause No. 1.27.1.2 , Page 51	“... However, during execution, if different type of soil (other than specified in Section-III) is encountered at any location, the design of foundations for such soils shall also be in the scope of this work, the bidder will require to quote a rate for this foundation design, should a requirement arises thereof.”	Contract's scope. But, it is NEA's prerogative to provide other type of design including that of special type of towers.  Kindly confirm our understanding.	
		Section – IVA, Chapter-1, Clause No. 1.7.1.1 , Page 12	“It is NEA's prerogative to provide other type of design including that of special type of towers ...”	Kindly confirm that who shall be responsible for disposal of trees after felling from the forest area and what would be the procedure / method of its disposal. And who will arrange the required permission for cutting of tree in the private land and how it shall be disposed.	NEA shall acquire the required permission for cutting of tree in the private as well as forest land. The cutting and disposal of trees would be the responsibility of NEA. Also, the looping and trimming of the portion of the trees falling within the minimum electrical clearances zone shall be the responsibility of the contractor for both private and forest area.
2.	Section 6 Employer's Requirement	Section – IVA, Chapter-2, Clause No. 2.12.1, Page 16	“Tree-enumeration i.e the evaluation and tabulation of the trees and bushes coming within 15m on either side of the center line alignment (danger tree locator) shall be the responsibility of the Contractor including for that required during survey. However the felling of tress in forest land shall be the responsibility of the Employer however, all trees in private lands wherever required are that of the contractor”	Kindly also confirm that lopping or trimming of the portion of the trees falling within the minimum electrical	



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				clearance zone shall be the responsibility of the Contractor for only private area or both private and forest area.	
		Section – IVA, Chapter-2, Clause No. 2.12.4 , Page 17	“...Clearing of obstructions falling in the right -of way during detailed survey and lopping or trimming of the portion of the trees falling within the minimum electrical clearance zone shall be the responsibility of the Contractor....”	Kindly confirm, in the referred clause, removal stands for tree cutting or not. We also understand that if the foundation site shall be falling in the forest area then tree cutting and disposal shall be in Employers / PMC responsibility.	The removal does not stand for cutting of trees for which the permission is required from the appropriate authority. The removal here stands for removal of trees for which cutting permission is not required from the appropriate authority, bushes, down timber, tree root, debris, indicated structures and other obstructions from the areas.
3.	Section 6 – Employer’s Requirement	Section – IVA, Chapter-3, Clause No. 3.6.2 , Page 4	“The Contractor shall be responsible for clearing for foundation site. Clearing shall include removal and disposal of all trees, bushes, down timber, tree roots, debris, indicated structures and other obstructions from the areas .....”	Kindly confirm our understanding.	



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4.	Section 6 – Employer's Requirement	Section – IVA, Chapter-3, Clause No. 3.6.2 , Page 5, Para no. 5	"No Separate Payment shall be made for clearing the foundation site and access road the cost of which is deemed to have been covered in the unit rate of construction of foundation and stringing or tower erection"	We understand that consequent damage to crops along the ROW and access roads, the compensation will be paid by NEA to the concerned person. Kindly confirm our understanding.	The compensation to the damage to standing crops due to contractor's activity shall be borne/paid by the contractor.
		Section – IVA, Chapter-3, Clause No. 3.6.4, Page 6	"The Employer will acquire only such piece of land as is actually required for each tower foundation and protection of tower foundation only. Any extra land required by the Erection Contractor temporarily for dumping of the construction material etc shall be the responsibility of the Erection Contractor and but consequent damage to crops along the ROW and access roads, the compensation will be paid by NEA"		
5.	Section 6 – Employer's Requirement	Section – IVA, Chapter-3, Clause No. 3.26.5.1 , Page 80	"The threads of bolts projecting outside the nuts shall be punched at three positions on the diameter to ensure that the nuts are not loosened in course of time"	Kindly confirm which is applicable, whether punching or tack welding with Zinc primer and two coats of enamel paint.	Both Punching and tack welding.



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	Price Schedule	Schedule -4, Construction & Installation Services, Item no. 4.6.1 (a)	"Erection of various types of towers, tower parts and its body & leg extensions (Complete) including bolts & nuts, steps bolts, hangers, D Shackles etc including tack welding and supply and application zinc primer and two coats of enamel paint ( 220 KV D/C Twin Moose Tower)"		
6.	Section 6 – Employer's Requirement	Section – IVA, Chapter-3, Clause No. 3.39.1, Page 90	"Payment for stringing of Conductor, Earthwire and OPGW shall be done on the basis of per kilometer ..."	We understand that payment shall be made on inclined length (in kilometer) between the towers locations for stringing of Conductor, Earthwire and OPGW as the terrain is hilly.  Kindly confirm our understanding.	As per detailed survey and profiling in PLS-Cadd subject to approval of NEA
7.	General			For supply of conductor & earthwire inclined route length with extra 3% shall be considered for sag, jumpering, damages etc. on the basis of final tower schedule as the terrain is hilly.  Kindly confirm.	Submission of calculation subject to approval of NEA



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8.	General			The payment for galvanized wire net/mesh shall be made in Cubic meter on the basis of actual measurement without any deduction for void from cage /stack measurements.	Bidder has not mentioned the item No. and Schedule to which his query pertains to. However, if it pertains to item No. 4.9 (b) of Schedule 4A, it is confirmed that measurement would be made without any deduction for void from cage /stack.
9.	General			Please confirm the Steel Grade to be used for Towers. Is it E250C or E350C or E250/E350	Both. Please refer Clause 1.10.1 of Section IVA-Chapter 1 of part II.
10.				We have reviewed the technical specification and reference drawing components are match with 400KV.  Normally corona ring applicable for 400 voltage level only. However the arching horn can be used for tower side and line side for 220 voltage level. Please confirm/provide us the reference drawings towards subject tender.	Please refer the drawing no 16, 22, 24, 25 and 26, with Corona ring.

  




  
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