

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
KALIGANDAKI TRANSMISSION CORRIDOR PROJECT
ICB-PMD-KGTCP-072/073-04:Design, Supply,Installation and Commissioning of Kushma-New Butwal220 kV Transmission Line
Responses to the Pre-Bid Queries-1

S. No.	Clause of Reference for the required Clarification	Bidder's Request	NEA Response
1	1) 1.1.1 of Section-1 of Vol.-2 of bid document	As per Cl. No. 1.1.1 of Section-1 of Vol.-2 of bid document, 2 Nos. transmission lines, i.e. 220 kV DC Kushma – New Butwal Transmission line and LILO of 132 kV DC Butwal – Bardhaghat transmission line at New Butwal, are included in the scope of work. However, as per the price schedule, the item details and quantities of all the items seems to be given for only one line, i.e. 220 kV Kushma – New Butwal Transmission Line.	The scope includes 2 Nos. of lines. As LILO of 132 kV line is of very small length, 220 kV towers shall be used in the LILO as indicated at Clause 1.1.2(iii) of Section-1 of Vol.-2 of bid document. The tower/foundation quantities for the LILO are included in the quantities given in the Price Schedules. The line material shall be provided by Employer. Also refer Amendment to Price Schedule regarding Stringing.
2	Cl. No. 2.5, Section-3, Vol.-1, Page 3-9	The criteria for ISO Certificate is mentioned as “including design in scope of registration”. We request to please delete the words including design in scope of registration” as the design scope is generally not required for Conductor, Insulators, Earthwire, Hardware & Accessories etc. as the material will be supplied as per Employer Technical Specification.	This shall be as per the provision of the bidding documents
3	1. Type Test for Tower Parts [Cl. No. 2.5, Section-3, Vol.-1, Page 3-9]	We understand that the bidders are required to submit Type Test report for tested towers and for towers with new design, the same is not required.	Yes, the understanding is correct. Type test for new towers with designs will be carried out during the execution.
4	Cl. No. 21.3, ITB, Section-1, bid security	As per Cl. No. 21.3, ITB, Section-1, bid security from an eligible country is acceptable. Accordingly, we understand that Bank Guarantee towards Bid Security issued from reputed source in India (Not having branch in Nepal) is acceptable to NEA.	Yes, the understanding is correct.
5	per Cl. No. 13.2, GCC, Section-7,	As per Cl. No. 13.2, GCC, Section-7, we understand that Bank Guarantee issued from reputed source in India (Not having branch in Nepal) against Advance payment is acceptable to NEA.	Bank guarantee issued by a bank located outside of Nepal against Advance Payment will have to be counter-guaranteed by a commercial bank in Nepal.
6	Performance Bank Guarantee	The Performance Bank Guarantee issued from reputed source in India (Not having branch in Nepal) is acceptable to NEA??	Bank guarantee issued by a bank located outside of Nepal against Advance Payment will have to be counter-guaranteed by a commercial bank in Nepal.
7	Price Schedule No.-1 – Plant and Equipment including Mandatory Spares to be supplied from abroad	a. For items under 1.1, the quantities of basic tower is given for each type of tower. Under this basic tower, the stubs and basic tower body along with leg extensions quantities are given. We understand that bidders are required to quote prices for basic tower with given description of “basic tower body” in the schedule and for all the leg extensions, bidders are required to quote the price of those leg extensions only, i.e. excluding price of basic tower. Also, there will not be any quote against the description of “Basic Tower” as the same will be covered against item description of Basic Tower body.	Pl. refer Amendment to Price Schedules.

		b. We understand that rate in Column 10 for Custom, VAT and other taxes is required to quote for total Custom Duty at Special rate of 1% only and no other taxes need to provide as local taxes are exempted / paid by Employer as per Cl. No. 14.5.d, Section-8, Page No. 8-5.	Yes. Local taxes if applicable shall be paid by the Employer.
8	5.2 Price Schedule No.-4-a – Installation and Construction Charges	a. In the price schedule No.-4-a of Volume-3, the separate column for tax is not provided.	
		We kindly request you to please amend the price schedule suitably.	VAT applicable will be paid by the Employer. Hence there is no need to amend the price schedule.
		b. We kindly request you to please confirm us, whether VAT is exempted or will be reimbursed on Installation and Construction Charges or not??	VAT will be paid by the Employer.
9	5.2 Price Schedule No.-4-a – Training Charges for training to be imparted in Nepal	a. We understand that there will not be any tax applicable in Nepal on the quoted price in this schedule.	Yes. Taxes are exempted except for TDS.
10	Price Schedule No.-4-b – Training Charges for training to be imparted abroad	a. We understand that there will not be any local (In Nepal) tax applicable on the quoted price in this schedule.	Yes. Taxes are exempted except for TDS.
11	5.2 Price Schedule No.-4-d – Type Test charges	a. We understand that there will not be any local (In Nepal) tax applicable on the quoted price in this schedule.	Yes. Taxes are exempted except for TDS.
12	5.2 Price Schedule Discrepancies	As per Price Schedule No. 1 & 2, required earth wire is 7/3.66 mm whereas as per Price Schedule No. 4-d, type test charges are required for 7/3.35 mm earthwire and AACSR earthwire. Similarly as per Vol Section 3, Clause 2.5 (5), bidders are asked to furnish experience pertaining for size 7/3.15 However, there is no requirement of AACSR earthwire in other price schedules. We understand that require earth wire is 7/3.66 mm and accordingly type test charges are require for this earthwire only and not for AACSR earthwire.	Required earth wire is 7/3.35 as indicated in the technical specifications. Pl. refer Amendment to Price Schedules. No type test charges are payable as per the provision of Technical Specifications, Vol-II. Pl. refer Amendment to Price Schedules.
13	As per Cl. No. 1.3 Section-1, Page 4 & Cl. No. 1.10.4, Section-3, Page 5&6, Volume-II and other various clauses of bidding documents, we understand the followings:	a) Necessary Right of Way / Way Leave and permanent Access Road required for transmission line route will be arranged by Employer (NEA) at their cost in accordance with the work schedule (Including all kind of compensation like Land, Crop, Permanent Structures...etc.). We understand that the employer's scope for ROW also includes necessary arrangements for Temporary Access Road along with its construction and maintenance.	Necessary Right of Way will be arranged by NEA. No, the Contractor has to make the necessary arrangement for temporary access road.

		Kindly confirm, whether our above understanding is in line with bidding documents requirements.	
		b) Employer will be responsible for the clearances of trees and all kind of obstacles along with right of way and access road in Forest.	Employer will be responsible for the clearances of trees along the Right of Way only.
14	Conductor, OPGW & Earthwire Supply Payment under Price Schedule-I	We understand that during freezing of Bill of Quantity for Supply of Plant / materials after detailed survey / profiling / Tower Spotting, following factors for Conductor, OPGW & Earth wire will also be considered for:	
	a) OPGW Supply:	<p>i. OPGW quantity will be worked-out (Acceptable to NEA) as per drum schedule considering necessary extra provision for Sag, extra length required for Jointing / Termination at Joint Box...etc. as per actual requirements and accordingly payment will be made and hence, bidder need not to consider extra cost for Sag, extra length required in their working as the same will be paid by NEA at actual.</p> <p>ii. For calculation of OPGW consumption in hilly (mountainous) stretched, inclined distance between towers will be considered, instead of horizontal distance between them.</p>	<p>Please refer to para 2 of Clause No. 1.2.1, Chapter – 01, Section-9, Page 5 of 17, Volume-II of Bidding documents. For the purpose of payment, the optical fibre link lengths are defined as transmission line route lengths from Gantry at one terminating station to the Gantry in the other terminating station. The actual cable lengths to be delivered shall take into account various factors such as sag, service loops, splicing, working lengths & wastage etc. and no additional payment shall be payable in this regard. The unit rate for FO cable quoted in the Bid price Schedules shall take into account all such factors.</p>
	b) Conductor Supply:	We understand that, Conductor quantity will be worked-out (Acceptable to NEA) by considering necessary extra provision for Sag, Jumpering...etc. as per actual requirement and accordingly payment will be made and hence, bidder need not to consider extra cost for Sag, extra length required in their working as the same will be paid by NEA at actual.	Same is in order.
	c) Earthwire Supply:	We understand that, Earth wire quantity will be worked out (Acceptable to NEA) by considering necessary extra provision for Sag, Jumpering...etc. as per actual requirement and accordingly payment will be made and hence, bidder need not to consider extra cost for Sag, extra length required in their working as the same will be paid by NEA at actual.	<p>Please refer to Clause No. 3.13, Section-4, Page-49, Volume-II of Bidding documents regarding Permitted Extra Consumption of Line materials. The quantity of conductor and earth wire to be incorporated in the line shall be worked as per the following norms :</p> <p>Quantity of Conductor = Final Line Length as per Detailed/Check survey x 3 phases x Nos. of conductor per bundle (for Single Circuit Strung Double Circuit Line)</p> <p>Quantity of Earth wire = Final Line Length as per Detailed/ Check survey x nos. of ground wires to be strung.</p> <p>The quantity of conductor and earth wire as described above shall also consider necessary sag, jumpering, damage, loss and wastage etc . The unit rate quoted in the Bid price Schedules shall take into account all such factors.</p>
15		1. Aviation Requirements	
		We understand from the price schedule that there is no Aviation requirement for this project.	Please refer ammendment in the BoQ

16	1. S.T.P. (Standard Technical Particulars) values for Disc and Long Rod Insulator	As per Section-VIIA Vol.2 Insulator, we find that there are no Standard Technical Particulars values of Disc & Composite Long Rod Insulator of rating 120 kN and 160 kN are provided in the bid document. Kindly, provide the S.T.P. (Standard Technical Particulars values) of Disc & Composite Long Rod Insulator of rating 120 kN and 160 kN for this project.	Pl. refer Amendment.
17	Galvanised Steel Earth wire rating 7/3.35 mm or 7/3.66 mm	In Price Schedule No.1 & 2 of Vol.3, Item No.4.2 – GS earth wire given is 7/3.66 mm and in Clause No. 1.1.2, Section-6 of Volume-2, Technical Specification of Galvanised Steel Earth wire given is 7/3.35 mm. Kindly, confirm that which rating of GS Earth wire should be considered and accordingly either amend the price schedule or provide the revise specification of earth wire.	Pl. refer clarification given above and the Amendment to Price Schedules.
18	OPGW Technical Specification	In the Section-9 of Vol.-2 (Technical Specification) of Bidding document, following chapters are missing in the documents. Chapter-01 – Specification for OPGW cabling & associated hardware & fittings Chapter-02 – Inspection & Testing Requirement We kindly request you to please provide the above missing specification of OPGW.	Please refer Addendum-1
19	Vendor List	We request you to kindly arrange to provide the names of approved / acceptable manufacturers / suppliers for major plants & equipment, which further enable us to suitably consider and propose in our offer.	NEA does not have the approved list of manufacturers. The manufacturers for major plant and equipment shall meet the subcontractors/manufacturers qualification requirements as stipulated in 2.5 of Section 3: EQC of the bidding documents.
20	Price Bid Evaluation	We understand that, price bid will be evaluated excluding taxes & Duties for the quoted prices in the Price Schedules.	Yes, the understanding is correct.
21	Taxes & Duties		
	In line with Clause No. 14 of GCC & SCC of Vol.-1,	a. We kindly request you to please confirm us the applicable rate of business tax and income tax in Nepal.	The information on taxes can be obtained from www.ird.gov.np
		b. We kindly request you to please confirm us the applicable VAT rate on installation service.	As per the prevailing rule, VAT applicable is 13%.
		c. We understand that for imported plants and equipment, the Custom Duty, VAT and other taxes applicable in Nepal are exempted or will be reimbursed.	For imported plant and equipment to be supplied under Schedule No. 1 is exempted from all duties and taxes except for 1% custom duty.
		d. We understand that VAT and other local taxes applicable in Nepal on installation services (Price Schedule No. 4) are exempted or will be reimbursed for this project.	VAT applicable will be paid by the Employer.
22	Quantity Variation [Cl. No. 39.2.5, GCC, Section-7, Page 7-46]	As per the above referred clause, we understand that quantity of individual item can vary up to any extent subject to maximum of 15% of the contract price.	Yes.

23	Insulator quantity in Insulator String	<p>As per Cl. No. 2.3.1, Section-1, Vol.-2, Page-5, the size of disc for Single 'I' Suspension Pilot String is given as 280 x 145 whereas as per Cl. No. 1.1.3. Section-7A, Vol.-2, Page-2, the size of disc for Single 'I' Suspension Pilot string is given as 255x145 or 280x145.</p> <p>Please confirm the require size of disc for Single 'I' Suspension Pilot String and Single 'I' Suspension String for this project.</p>	Both 255x145 or 280x145 are acceptable.
24	1. Type Test Charges	<p>As per foot Note No. 2) in the Price Schedule No. 1 & Price Schedule No. 2 of Volume 3 of bidding document, bidders are required to quote prices inclusive of type test charges except for towers, conductors and earthwire.</p> <p>In this regard, we request you to please confirm that type test will be required to do for all the equipment/item except Towers, conductors and earthwire ; despite of submission of type test report in line with Cl. No. 2.5 of Section-3, Qualifying Requirement??</p> <p>If yes, then NEA will pay for Type Test charges at actual??</p>	Pl. refer Amendment to Price Schedules. Bidders are required to quote Type Test charges for all towers and HTLS Conductor only. For other items, where Type Tests are required, the item unit price in the Bid Price Schedule shall include such costs.
25	1. Price Schedule Description / Quantity Discrepancies	<p>a. The item description for Item No. 4.8.1.ii & 4.9.1.ii of Price Schedule No. 1 & Price Schedule No. 2 is "Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories as per below:"</p> <p>However, there is no provision of accessories below this item. Kindly provide the details of required accessories or amend the description suitably.</p>	Pl. refer Amendment to Price Schedules.
26	1. Foundation Volumes & Price [Cl. No. 2.9.1.2, Section-4, Vol.-II]	<p>As per the above referred clause in Volume-II of the bidding document, bidders are required to furnish the guaranteed foundation details (i.e. excavation volumes, Concrete Volumes and weight of Reinforcements) along with unit rates for excavation, concreting and reinforcement for each type of foundation of each type of tower.</p> <p>However, there is no provision for providing such details in the price schedule.</p>	Pl. refer Amendment to Price Schedules.
27	1. OPGW Test Equipment	<p>We understand that, the OPGW test equipment are not required for this project as it is not provided in the Price Schedule.</p> <p>Please confirm and if require, then kindly request to provide the List of OPGW tools and its quantities along with inclusion of the same in Price Schedule.</p>	Test equipment is not required.
28	1. Price Adjustment [Appendix-2, Section-9, Vol.-1, Page 9-8]	<p>As per the clauses mentioned in the above referred Appendix, "<i>The date of adjustment shall be the mid-point of the period of manufacture for each lot of supply.</i>"</p>	

		We request you to kindly arrange to clarify / confirm the followings:	
		i. We understand that, the mid-point of the period of Manufacture will be for each shipment of the equipment i.e. Each shipment of Towers & each shipment of Conductor??	The mid point shall be determined for each supply lot as proposed in Appendix 4: Time Schedule Work Program, Section 9 of the Bidding Documents.
		ii. In line with earlier NEA tender, we kindly request you to amend the date of adjustment of PV for each shipment as "one month before each shipment" i.e before each shipment of tower / conductor.	
		iii. We request you to please elaborate that how mid-point will be calculated for each shipment of tower / Conductor???? i.e. start date and end date to calculate the mid-point.	A tentative period for raw materials acquisition, manufacturing and dispatch will be worked out during contract negotiation and mid point of manufacturing shall be decided based on this cycle.
29	2. Form ADJ: Adjustment Form [Section-4, Vol.-1, Page: 4-35]	As per the given format for adjustment form for Foreign currency, the Nonadjustable component is 35% for tower and 40% for conductor whereas as per Appendix-2, Price Escalation, the fixed element given is 35% for conductor and 40% for tower Kindly request you to please confirm the fixed element for Tower and conductor.	Fixed (Non adjustable) element for conductor is 0.35 and for tower parts, it is 0.4.
30	Tension Criteria for Earth wire and Sag tension for OPGW Ground wire (CL 1.5.3.3, Section IV, Volume II and Sag Tension Calculations for Earth wire in Drawings)	In Cl. 1.5.3.3, Section IV, Volume II, initial maximum tension for earth wire is mentioned as 20% of Ultimate tensile strength at 320 C & Nil Wind. Whereas in the Sag Tension Provided for Earthwire in Drawings section, the initial tension is shown as 18.45% at 00 C & Nil Wind. Please clarify which is correct. Also Sag tension for OPGW ground wire has not been provided. Please furnish the same.	20% is the maximum value of initial tension.
31	Price Schedule for 132 KV D/C Line	In the given Price Schedule, details for 220 KV D/C are given. But there is no separate price schedule for 132 KV D/C is given. In Cl. 1.1.2 iii, Section-1, Volume II, it is mentioned that for 132 KV D/C, same towers of 220 KV D/C are to be used. As per this clause, we understand that the quantity for 132 KV D/C is included in the price schedule given. PI. confirm our understanding is correct.	Confirmed. PI. refer clarification given above.
32	1. Technical Specification for ACSR Bear Conductor (SetionV-A, Volume II)	In Section V-A, Volume II, Technical Specifications for ACSR Bear conductor has been given. As per specification requirement, the ACSR Bear conductor does not require anywhere. We are unable to understand why the details for same are given in the specification.	PI. refer clause 2.2 of Section-I, Volume-II. ACSR Bear Conductor shall be used in 132 kV LILO. The conductor shall be provided by the Employer.
33	1. Co-ordinates for line route	In the Specification, Co-ordinates for line route are not given. Please furnish the same to check us the quantities mentioned in the Price Schedule.	Please refer Addendum-1

34	1. Technical Specification for HTLS Conductor	In Section V-B, details for HTLS Conductor has been given. In this section Sample Calculation for Sag Tension for Linnet ZTACIR/AS are given. But Sag Tension Calculations for HTLS Conductor is not given. Please furnish the same. Also in CI 1.4.1 of Section V-B, Sag at Maximum temperature for HTLS Conductor is mentioned as $\leq 9.75M$. We understand that this Sag is to be considered to calculate the height of tower.	Pl. refer clause 1.4.3 & 1.4.4. of this section. Bidder/Supplier shall provide Sag Tension calculation for the offered HTLS conductor. Yes, Sag at Maximum temperature for HTLS Conductor mentioned in CI 1.4.1 of Section V-B is to be considered to calculate the height of tower.
35	1. Technical specification for Composite Long Rod Insulator	In Table, in CI 1.1.4, Section VIIB, Volume II, details for Composite Long Rod Insulator is given. But in the table, "Twin Moose Conductor" has been mentioned. We understand that this is typographical mistake and the details are given for HTLS Conductor.	Conductor for 220 kV line, wherever mentioned, shall be read as HTLS Conductor.
36	8. Depth of Foundation (CI. 2.4 & CI 2.7.12, Section IV, Volume II)	In CI. 2.4, maximum depth of foundation is mentioned as 3.0M. Whereas in CI. 2.7.12, the maximum depth of foundation is mentioned as 3.5M. We understand that we can design foundation with maximum depth as 3.5M.	The Bidder shall offer & quote the foundation with depth of foundation as 3.0 meters. Based on the site requirement, the contractor may have to design and adopt the foundations having different depths during execution.
37	1. Triple Tension Insulator (Section VIIA & Section VIIB, Volume II)	In Section VIIA & Section VIIB, usage of Triple Tension Insulator is mentioned. But in the Price Schedule no quantity is given. Also in Bid Drawings, no indicative hardware drawing of triple tension insulator is given.	The quantities as given in the Price schedules are to be supplied.
38	1. Bid Drawings for Hardware	In Bid Drawings, indicative drawings for Hardwares are given. But in some drawings "ACSR Bison" or "ACSR Moose" has been mentioned. We understand that this is typographical mistake and the drawings are for HTLS Conductor.	Conductor for 220 kV line, wherever mentioned, shall be read as HTLS Conductor.
39	1. Quantity Mismatch in Price Schedule		
	a. Mismatch of leg extension quantities to tower quantities	In Price Schedule-1, 2 & 4; quantities of Towers (Basic Tower Body) and quantities of leg extensions are given. But the quantities of leg extensions are not matching with Basic Tower quantities.	In case of leg extensions of +3 to +9m, basic tower as well as four nos. of $\pm 0m$ legs are also required. Accordingly, no. of leg extensions are more. However, bidders are required to quote as per the quantity given in the price schedule. The actual quantity of leg extensions can be ascertained only after the towers spotting during execution and payment shall be made accordingly.
	b. Mismatch of foundation quantity and tower quantity (Price Schedule – 4-a)	i. In Item No. 4.3, Price Schedule 4-a, foundation quantities for Tower Type DC has been mentioned. The total quantity of foundations (64 Nos.) does not match with the tower quantities for Tower Type DC (66 Nos.)	Please refer Amendment
		i. In Item No. 4.4, Price Schedule 4-a, foundation quantities for Tower Type DD has been given. The total quantity of foundations (73 Nos.) does not match with the tower quantities for Tower Type DD (71 Nos.)	Please refer Amendment
40	1. Loadings for DB & DC Section Tower (CI 1.2.1, Section IV, Volume II and Bid Drawings)	In CI. 1.2.1, Section IV, Tower Types are mentioned. In this Tower Type DB & DC is mentioned as Section Tower 0. But in the Loadings Trees given in Bid Drawings, Loadings for Section Tower 0 for Tower Type DB & DC are not given.	Bidder has to design the towers as per the loading diagrams given in the Vol-II.
41	1. GTP (Guarantee Technical Particulars) values	The GTPs for following items are missing in the bidding documents, which are essential for getting offer from our sub-vendors.	GTPs are to be provided by the Bidder
		i. HTLS Conductor	Pl. refer Amendment.

		ii. Hardware Items	Pl. refer Amendment.
		iii. Disc Insulator for 120 KN and 160 KN	Pl. refer Amendment.
		iv. Composite Long Rod Insulator for 120 KN & 160 KN	Pl. refer Amendment.
42	1. Tree Cutting Scope		
	As per Cl. No. 1.3 Section-1, Page 4 & Cl. No. 1.10.4, Section-3, Page 5&6, Volume-II	we understand that employer is responsible for tree cutting in order to provide the right of way for construction of the line and access to the line.	This is in contractor's scope.
43	Volume – 1 of Tender, ITB 21.3	The bid security shall be a demand guarantee, at the Bidder's option from a reputable source from an eligible country. There is no clause in BDS which supersedes this & we understand that Bank Guarantee from scheduled bank in India is acceptable & Counter Bank Guarantee from any Nepalese Bank or any other bank/financial intuition is not necessary. Please Confirm.	Yes, the understanding is correct.
44	Volume – 1 of Tender, Section 3, Clause 1.2.7(d)	In the comparison of Bids, only the CIP prices component of each Bid for the Plant and Equipment offered from outside the Employer's country shall be increased by fifteen percent (15%).	Yes, the understanding is correct.
45		Criteria to decide whether the product is domestically produced, is not specified in the Bid Document, Please provide same. And what are the documentary evidences are admissible to prove that offered item is domestically produced.	The goods produced in Nepal by the manufacturing company incorporated in Nepal is termed as domestically produced goods.
46	Volume – 1 of Tender, Section 3, Table 2.5 Item No. 1(v)	Must submit the type test report carried out by reputed independent accredited testing laboratory for the size offered. We understand that all offered towers are to be designed & type tested with 9M of Body Extension, so type test reports for towers should not be required at bidding stage. Please Confirm. In case if it is mandatory please confirm, if type test reports of towers for higher voltage level will also be admissible.	Type test reports for higher voltage level will also be admissible during bidding.
47	Volume – 1 of Tender, Section 3, Table 2.5 Item No. 2(vii)	- Offered conductor should have been fully type tested and the test reports should have been accepted/approved by the utility. The test should have been carried out by reputed independent accredited testing laboratory for the size offered. The test reports shall be submitted along with the bid. We understand that, type test report of higher size conductor is also acceptable. Please Confirm.	Yes, the type test reports of higher size of the conductor is also acceptable. The type test shall be for the HTLS conductor technology being offered.
48	Volume – 1 of Tender, Section 3, Table 2.5 Item No. 3(iv) -		

		<p>We understand that, type test report, conducted within last 5 years, of Insulator String without hardware fitting of 120 kN & 160 KN or above for 220 kV or above is to be submitted along with the bid. And no type test needs to be conducted at execution stage, if all tests as per technical specification is already successfully conducted in reputed laboratory within last 5 years. Please Confirm.</p>	Yes, the understanding is correct.
49	Volume – 1 of Tender, Section 3, Table 2.5 Item No. 4(iv)	<p>Must submit the type test on insulator strings assembly for 220kV or above voltage transmission lines with 120 KN & 160 KN or above electro-mechanical strength insulators carried out by reputed independent accredited testing laboratory.</p> <p>We understand that, type test report, conducted within last 5 years, of Insulator String without hardware fitting of 120 kN & 160 KN or above for 220 kV or above is to be submitted along with the bid. And no type test needs to be conducted at execution stage, if all tests as per technical specification is already successfully conducted in reputed laboratory within last 5 years. Please Confirm.</p>	Yes, the understanding is correct.
50	Volume – 1 of Tender, Section 3, Table 2.5 Item No. 4(iv)	<p>Must submit type tests on insulator strings assembly (of composite long rod insulator) for 220 kV voltage transmission lines with 120 KN & 160 KN or above electro-mechanical strength insulators carried out by reputed independent accredited testing laboratory for the size offered.</p> <p>We understand that, type test report, conducted within last 5 years, of Insulator without hardware fitting of 120 kN & 160 KN or above for 220 kV or above is to be submitted along with the bid. And no type test needs to be conducted at execution stage, if all tests as per technical specification is already successfully conducted in reputed laboratory within last 5 years. Please Confirm.</p>	Yes, the understanding is correct.
51	Volume – 1 of Tender, Section 3, Table 2.5 Item No. 5(iv)	<p>Must submit the type test report carried out by reputed independent accredited testing laboratory for the size offered.</p> <p>We understand that, type test report of higher size earthwire is also acceptable & no type test need to be conducted, if all tests as per technical specification is already successfully conducted in reputed laboratory within last 5 years. Please Confirm.</p>	Yes, the understanding is correct.
52	Volume – 1 of Tender, Section 3, Table 2.5 Item No. 5(ii)	<p>Must have manufactured, tested and supplied at least twice the bid quantity of galvanized steel ground wire/ ACSR core wire of size 7/3.15mm or above as a main supplier over last five (5) years period ending on the last date of bid submission.</p> <p>Also please refer table A of Annexure B in section 6 of Volume – 2, where employer has provided general technical particular of 7/3.35 mm earthwire. However Item no. 4.2 in schedule -1 of volume – 3. Employer has mentioned 7/3.66mm earthwire to be supplied.</p>	

		Please confirm the specification & size of earthwire to be supplied under the contract. Also provide relevant GTP.	Please refer to response no 12. Please refer Vol II, Section VI for STP
53	Volume – 1 of Tender, Section 3, Table 2.5 Item No. 6(iv) -	Must submit the type test report carried out by reputed independent accredited testing laboratory for the size offered.	
		We understand that type test report from reputed independent accredited laboratory of higher size of OPGW cable is also acceptable. Please Confirm.	Yes, it is acceptable.
54	Volume – 1 of Tender, Section 3, Table 2.5 Item No. 7(iv)	Must submit the type test report carried out by reputed independent accredited testing laboratory for the size offered.	
55		We understand that type test report from reputed independent accredited laboratory on higher size is also acceptable.	Yes, it is acceptable.
56	Volume – 1 of Tender, Section 8, Clause 14.5.2 (a) & (c)	<p>Notwithstanding the provisions of this document, the Contractor's Plant and Equipment, including essential tools thereof, imported for the sole purpose of executing the Contract on condition of re-export upon completion of the Works, shall be exempt from payment of customs duties, VAT and applicable taxes. However, the Contractor shall deposit the amount or provide a Bank Guarantee to the GoN Customs office equal to amount of customs duties and other taxes as per the prevailing laws, rules and regulations of Nepal for those imported equipment, plant, materials and supplies at the time of import. Such deposited amounts shall be refunded, or the Bank guarantee cancelled by the Customs Office after Re-export of those imported equipment, plant, materials and supplies.</p> <p>Equipment, plant, materials and supplies, imported by the Contractor for execution of the Works, shall be subject to payment of customs duty at a special rate of one percent (1%) of CIP or Customs entry point value. This customs duty shall be paid by the Contractor at the time of import and will be reimbursed by the Employer to the Contractor upon submission of the original receipt issued by the Customs Department.</p> <p>We understand from clause a & c of aforementioned section that, all Equipment supplies, material & plant are subject to custom duty at rate of 1% of CIP which shall be reimbursed by employer on submission of receipts. However contractor's equipment are exempted from customs, VAT and other applicable taxes on submission of Bank Guarantee equivalent to implied custom duty. Please confirm if our understanding is correct.</p>	Yes, the understanding is correct.
57	the Volume – 1 of Tender, Section 8, Clause 14.5.2 (b) Under Duties on Equipment, Plant, Material and Supplies -	Any plant, materials or supplies imported by the Contractor for the performance of the Works but not incorporated in the Works shall be taken out of Nepal within 90 (Ninety) days from the date of issuance of the Performance Certificate. If the Contractor disposes off or consumes any equipment, spare parts, materials or supplies within Nepal, it shall pay all customs duties, VAT, income tax on the sales proceeds and taxes applicable on such items under the laws and regulation of Nepal in force.	

		We understand that all non consumable tools & plant used in installation of facility which are not incorporated in works shall be taken out of Nepal within 90 days to avoid any implied tax. Also please confirm if these tools can be transferred to other similar project of Nepal electricity Authority without attracting any implied tax.	Yes, all the tools and plant used in installation of facilities and not incorporated in works shall e taken out of Nepal within 90 days of the completion of the contract. These tools can not be transferred to other similar projects in Nepal.
58	Volume – 1 of Tender, Appendix 1 – Payment terms & procedure -	<p>a. It is to submit that payment term for Plant & Equipment supplied should be similar to installation & Other services as below:-</p> <p>b. Ten percent (10%) of the total CIP/EXW (as applicable) amount as an advance payment against receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favor of the</p> <p>c. employer. The advance payment security may be reduced in proportion to the value of the plant and equipment shipped FOB or delivered to the site, as evidenced by shipping and delivery documents.</p> <p>d. Eighty percent (80%) of the total or pro rata CIP/EXW (as applicable) amount upon Incoterm CIP/EXW (as applicable) within forty-five (45) days after receipt of invoice and shipping documents. In the event that shipping is delayed upon the written instruction of the Employer for more than twenty-eight (28) days beyond the date shown in the Program of Performance provided in accordance with GCC Sub-Clause 18.2, the Contractor may make application for this part of the payment against warehouse receipts, provided always that the plant and equipment are ready for shipment on the date shown in the said Program.</p> <p>e. Five percent (5%) of the total or pro rata CIP/EXW (as applicable) or amount upon issue of the Completion Certificate, within forty-five (45) days after receipt of invoice.</p> <p>a. Five percent (5%) of the total or pro rata CIP/EXW (as applicable) or amount upon issue of the Operational Acceptance Certificate, within forty-five (45) days after receipt of invoice.</p> <p>Please amend payment terms accordingly.</p>	This shall be as per the provision of Appendix 1, Section 9 of the Bidding Documents.
59	Volume – 1 of Tender, Section 9 Price Escalation	<p>– It is mentioned that “The date of adjustment shall be the mid-point of the period of manufacture for each lot of supply.”</p> <p>Please clarify how mid-point of manufacturing period for each lot of supply shall be derived.</p>	Please refer response no 28
60	Volume – 1 of Tender, Section 8, Clause 27.10	<p>The critical components covered under the extended defect liability are transmission line towers & HTLS conductors, and the period shall be 3 years.</p> <p>We understand bidder has to provide extended defect liability for transmission towers & HTLS conductor. Please confirm</p>	Yes, the Bidder has to provide the extended defect liability for transmission towers and HTLS conductor.

61	Volume – 2 of Tender, Section 3, Clause 1.8	<p>The tree cutting shall be the responsibility of the Employer except for that required during survey. However, the Contractor shall count, mark and put proper numbers with suitable quality of paint at his own cost on all the trees that are to be cut by the Employer at the time of actual execution of the work as detailed below. Contractor may please note that Employer shall not pay any compensation for any loss or damage to the properties or for tree cutting due to Contractor's work.</p> <p>We understand from above that tree cutting required for access road, foundation, erection & stringing & including their removal from site is in scope of Employer. However Contract shall be responsible for if any tree cutting required for setup it's facility / Store.</p>	Contractor shall be responsible for these activities.
62	Volume – 2 of Tender, Section 4, Clause 1.7.1.1 -	IS Steel Sections of tested quality of conformity with IS:2062:2011 grade E250 and/ or grade E350 are to be used in towers, extensions, stubs and stub setting templates. For Snow Zone towers MS & HT Steel Sections shall conform to E250 Grade C & E350 Grade C. Please Confirm, whether the line passes through snow zone.	The line does not pass through snow-zone.
63	Volume – 2 of Tender, Section 4, Clause 1.14.1	<p>A Galvanized tower of each type complete with 9 M extension shall be subjected to design and destruction tests by first applying test loads applied in a manner approved by the Employer.</p> <p>Please confirm if tested tower need to be supplied at Employer's storage facility.</p>	Pl. refer Clause 1.14.1.3 of the Section. "No part of any tower subject to test shall be allowed to be used on the line. The price for the tower tests will be quoted after allowing rebate for the scrap value of the tower material which will be retained by the Contractor."
64	Volume – 2 of Tender, Section 6, Clause 3.5.4 -	The entire cost of testing for the acceptance and routine tests and Tests during manufacture specified herein shall be treated as included in the quoted unit price of conductor, except for the expenses of the inspector/Employer's representative.	
		Please confirm if employer shall bear cost of it's representative for boarding, lodging & daily allowance or other similar expenses to be incurred during acceptance test , routine test or types test of all offered items conducted during execution.	Yes, the inspectors' costs will be borne by the Employer.
65	Volume – 2 of Tender, Section V B), Clause 1.4.1(a)	<p>i) Modulus of Elasticity of Thermal resistant Al alloy strands : 55 GPa to 61.8 Gpa</p> <p>Modulus of Elasticity of complete conductor depends on the aluminum alloy strand value, which ultimately affects final sag & tension in transmission line. So, for the final conductor design, "a range variation i.e 55 GPa to 61.8 GPa" in the MOE value for al alloy strand technically affects the complete conductor design. So please confirm, for designing a new HTLS conductor, manufacturer are allowed to consider single al alloy strand MOE value within the range of 55 GPa to 61.8 GPa or shall strict to a single value.</p>	Manufacturer to design the conductor based on the actual Modulus of Elasticity of Thermal resistant Al alloy strands used by them. This value shall, however, be within the range specified.
66	Volume – 2 of Tender, Section V B), Clause 1.4.1(a) II b	PLS CADD METHOD: b) A file derived from existing standard file for conductor of equivalent/near equivalent stranding.	Same is in order. Sag Tension values do not change appreciably if calculated using coefficient of conductor of either equivalent or near

		<p>The available existing files in the PLS CADD website are for some particular constructions. So, if the proposed design construction is different then the coefficient of polynomials derived from existing files are also different. Hence a minor change in the coefficient of polynomials highly impact the sag and tension value. So, different construction cannot be referred from the existing available files. So we request you to amend this clause from "file derived from existing standard file for conductor of equivalent/ near equivalent strands " to "file derived from existing standard file for conductor of equivalent stranding only"</p>	<p>calculated using co-efficient of conductor or either equivalent or near equivalent strands if calculations are made considering ratio of Al alloy and core areas. Further, ref clause 1.4.2 of this section as reproduced below: "Various conductor parameters (viz. modulus of elasticity, coefficient of linear expansion, stress-strain and creep, etc.) considered above in the sag tension calculation shall be verified during detailed engineering based on type tests conducted."</p>
67	Volume – 2 of Tender, Section V B), Clause 2.1.2	<p>In the case of composite core conductors, the tests specified under Clause 2.1.1 shall be carried out before stranding on as manufactured samples.</p> <p>Please clarify, does the clause refer to that "type test certificates has to be produced before the manufacturing of conductor for supply.</p>	
68	Volume – 2 of Tender, Section V B), Annexure-A, 1.2	<p>Corona Extinction Voltage: Two samples of conductor of minimum 5 m length each shall be strung in horizontal twin bundle configuration with spacing of 450 mm between sub conductors at a height not exceeding 7.01 m above ground. The sample assembly when subjected to power frequency voltage shall have a corona extinction voltage of not less than 154 kV (rms) line to ground under dry condition. There shall be no evidence of corona on any part of the samples. The test should be conducted without corona control rings. However, small corona control rings may be used to prevent corona in the end fittings. The voltage should be corrected for standard atmospheric conditions.</p> <p>Please confirm whether the conductor is in twin bundled configuration. If so, Confirm the length of the conductor (1062kms) considered for loss evaluation as per 1.10.1 is inclusive of the twin bundled length</p>	<p>The test shall be carried out with conductor in twin bundled configuration as per the actual line configuration. The length of the conductor (1062kms) considered for loss evaluation is inclusive of the twin bundled length.</p>

69	Volume – 2 of Tender, Section V B), Annexure-A, 1.2:- High Temperature endurance & creep test	<p>(II) On other conductor sample, the conductor temperature shall be increased to designed maximum temperature in steps of 20 deg. C and thermal elongation of the conductor sample shall be measured & recorded at each step. The temperature shall be held at each step for sufficient duration for stabilization of temperature. Further, the temperature of the conductor shall be maintained at maximum continuous operating temperature (+10 Deg. C) for 1000 hours. The elongation/creep strain of the conductor during this period shall be measured and recorded at end of 1 hour, 10 hour, 100 hour and subsequently every 100 hour upto 1000 hours time period. After completion of the above, the core of the conductor sample shall be subjected to UTS test as mentioned above at clause 1.1 of Annexure-A. The conductor core shall withstand a load equivalent to 95 % of UTS. In case of polymer composite core conductor, the flexural strength & glass transition temperature of the core shall also be evaluated and the same shall not be degt be degraded by more than 10 % over the initial value. The supplier shall plot the thermal elongation with temp</p> <p>The test procedure should be amended as: The conductor temperature shall be increased to designed maximum temperature in steps of 20 deg. C and thermal elongation of the conductor sample shall be measured & recorded at each step. The temperature shall be held at each step for sufficient duration for stabilization of temperature. Further, the temperature of the conductor shall be maintained at designed maximum continuous temperature (+10 Deg. C) for 1000 hours. The elongation/creep strain of the conductor during this period shall be measured and recorded at end of 1 hour, 10 hour, 100 hour and subsequently every 100 hour upto 1000 hours time period. After completion of the above, the core of the conductor sample shall be subjected to UTS test as mentioned above at clause 1.1 of annexure-A. The conductor core shall withstand a load equivalent to 95 % of UTS. In case of polymer composite core conductor, the flexural strength & glass transition temperature of the core shall also be evaluated and the same shall not be degraded by more than 10 % over the initial value. The supplier shall plot the thermal elongation with temperature.</p>	Pl. refer Amendment-1
70	Volume – 1 of Tender, Section 3, Table 2.5 Item No. 2 i)	The Offered conductor technology must have been in successful manufacturing and supply for at least last 10 years	

		Offer technology means, we can offer any HTLS conductor apart from ACCC, Invar Conductor. Also qualification requirements shall be applicable to type of offered HTLS conductor i.e. if ACCC conductor is offered then all qualification requirement must meet for ACCC conductor & if any other type of HTLS conductor is offered then qualification requirement for that particular HTLS conductor need to be full filled. Kindly confirm, if our understanding is correct.	Please note that only the Invar conductor, carbon fiber composite core conductor and metal-matrix composite core conductors shall be offered. The qualification requirements for the offered technology mean that the qualification documents for the specific offered HTLS conductors shall be submitted.
71 to73		VOID	
74	Volume – 2 of Tender, Section 1, Clause 1.1.1	The following transmission lines are included in the scope of the Contractor: 1. 220 kV D/C Kushma – New Butwal transmission line - approx. 87.6 kms 2. LILO of 132 kV D/C Butwal – Bardhaghat transmission line at New Butwal Price schedule for sr. no. 2 i.e. LILO of 132 kV D/C Butwal – Bardhaghat transmission line at New Butwal is not provided along with the tender. Kindly provide same.	Pl. refer clarification given in Response No. 1.
75	Volume – 3 of Tender, Schedule No. 1, Item No. 4.4 & 4.5	where only clamps for hardware fittings suitable for HTLS conductor is to be supplied. We understand that remaining hardware fittings shall be same as if it is normal ACSR conductor of equivalent size. Please conform if our understanding is correct.	Same is in order.
76	Volume – 1 of Tender, Section 3, Clause 1.2.6 & Volume – 2 of Tender, Section VB, Clause 1.10.1	While calculating average ohmic losses different “Continuous operating current” has been considered, please clarify.	
77	Kindly furnish following documents also:-	1. The sketch of tower showing arrangement of leg extensions.	Pl. refer amendment.
		2. GPS coordinate of proposed transmission Line	Pl. refer amendment.
78	Volume-I, Section-1 Instructions to Bidders, Page No. 1-12, Clause ITB 21.3	1. Bid security shall be from a reputable source from an eligible country. Please confirm that the Bid Security issued by reputable Bank from India is acceptable.	Yes, the understanding is correct.
79	Volume-III, Schedule-1 Price Schedule,	Sr. No 4.2 calls for 7/3.66mm Earth wire however as per Volume-II, Section-VI Page No. 13 Standard Technical Particulars calls for 7/3.35mm Earth wire. Please confirm which Earth wire we should supply. If we have to use 7/3.66mm Earth wire, then please provide the GTP & specification for the same.	Pl. refer clarification given in Response No. 12 and the Amendment to Price Schedule in Amendment - 1
80	Volume-II Section-IV Tower Foundation, Erection, Stringing & Commissioning, Page No. 13 Clause 1.8.6	Aviation Requirement, Night Markers, Medium Intensity & Low Intensity Obstruction light need to be use on tower. However, we did not find any aviation requirement in the Price Schedule. Please clarify, whether we need to supply aviation material for this project or not. If, we have to supply the same, kindly furnish exact quantity of Aviation Warring Sphere, Obstruction Light (Medium or Low) require for this project. Also provide the revised price schedule.	Please refer to Amendment to Price Schedule in Amendment-1

81	Volume-II, Section-III Detailed survey, Page No. 5, Identification of ROW and Land Parcel, Clause 1.10.4.3	<p>The Employer shall initiate the process for acquiring the ROW of Transmission line as well as permanent land acquisition for plot of land area required for foundation footing after verification of contractor's report of land acquisition report".</p> <p>Verification and approval of land acquisition report after check survey will take time. Also employer will take time for land acquisition & compensation fixation. So this will have impact on contract completion schedule.</p> <p>In the view of above please confirm/assure that the ROW will not have impact on execution time of project & the work will not be interrupted due to ROW issues.</p>	<p>The time required for acquiring ROW depends upon the details to be furnished by the Contractor. The acquisition of ROW will not have impact on the contract execution time If the contractor submits the details on time.</p>
82	Volume-II, Section-III Detailed survey, Page No. 4, Clause 1.8.1	<p>1. "Tree cutting shall be the responsibility of the Employer". We understand that the transportation/disposal of trees is also in scope of the Employer. Please confirm.</p>	<p>Yes, the tree cutting, transportation to the designated yard and disposal is in the Employer's scope for the trees to be cleared under the ROW.</p>
83	Volume-II Section-I General Information and Scope, Page No.1, as per Clause 1.1.2	<p>1. Detailed Survey, Route Alignment, Profiling is in the scope of contractor, but as per clause 1.2, Page No. 4 detailed survey including route alignment and profiling have been carried out by the Employer.</p> <p>Please clarify the exact scope of work regarding route alignment and profiling.</p>	<p>Please read the clause 1.1.2 of Volume II- Section 1, General Information and Scope. The Detailed Survey, Route Alignment, Profiling is required (where ever route change is required).</p>
84	Volume-II, Section – IV Tower Foundation, Erection, Stringing & Commissioning, Page No. 5, Clause 1.5.2	<p>1. it is mentioned as "The wind load on tower body shall be calculated by the contractor as per clause 9.1 of IS 802(Part-I)-1995". We understand that Sag calculations and load tree diagrams furnished in drawings are as per IS 802(Part-I)-1995 and as per the provision stated in the technical specification, whereas New IS 802 (Part-1 / Sec 1): 2015 have been published.</p> <p>Kindly confirm whether we should design as per IS 802(Part-I)-1995 and provision in the technical specification or as per IS 802 (Part-1 / Sec 1): 2015 with latest modification/correction as mentioned in new IS Code.</p>	<p>Technical specifications shall be followed.</p>
85	Volume-II, Section – IV, Page No. 31, Clause 2.4	<p>1. under Type of Foundation It is mentioned as "The Bidder shall offer open type of foundation (i.e. slab and chimney) with maximum depth of foundation as 3.0 meters for above classification of foundations depending on economy and feasibility of construction at site". However Clause 2.7.12, Page No. 34 calls for "The total depth of open type foundations below the ground level shall not be less than 1.5 meters and more than 3.5 meters".</p> <p>Kindly confirm the depth of foundation need to consider, whether we should design foundation for Max 3.0M depth or 3.5M depth.</p>	<p>Pl. refer clarification given above.</p>

86	Volume-II, Section – IV Tower Foundation, Erection, Stringing & Commissioning, Page No. 33, Clause 2.7.9	At least 100 mm thick pad of size equal to the base of slab with its sides vertical will be provided below the slab for R.C.C. type foundations”. However on Page No. 34, clause 2.7.14 says that “In case of R.C.C. foundations are having steel reinforcement in base slab, at least 50 mm. thick pad of lean concrete corresponding to 1:3:6 nominal mixes shall be provided to avoid the possibility of reinforcement rod being exposed due to unevenness of the bottom of the excavated pit. Kindly confirm the thickness of lean pad need to consider, 100mm thick or 50mm thick.	It is clearly mentioned that 50 mm thick pad of lean concrete shall be provided. The 100 mm minimum thick pad shall be in RCC portion.
87	Drawings	1. Drawings furnished along with bidding documents are not indicating details dimensions of insulator string and hardware fittings, also there is no diagram of Single Suspension I Pilot insulator drawings. Kindly furnish detailed dimensions drawing of insulator string and hardware fittings. Also furnished detailed dimensions drawing of Single Suspension I Pilot insulator.	Indicative Drawings have been provided. Bidder has to provide the insulator strings meeting the provisions of the technical specifications.
88	Volume-II, section-I General Information and Scope, Clause 1.1.1,	1. Page No. 1 scope includes 220KV D/C Kushma-New Butwal transmission line (approx.. 87.6Kms) and LILO of 132KV D/C Butwal – Bardhaghat transmission line at New Butwal. However, while going through the Price Schedule we did not find the Price Schedule for 132KV LILO line. Kindly provide the Price Schedule for the same.	Pl. refer clarification given above in Response no. 1 and and the Amendment to Price Schedules in Ammendment -1.
89	Volume-I, section III Evaluation & Qualification, Page No. 3-9, Clause 2.5	1. Subcontractors Item no. 2(i) calls for “The offered conductor technology must have been in successful manufacturing and supply for at least last ten years”.	
		We understand that the offered technology can be any HTLS conductor apart from ACCC, Invar conductor. Please confirm our understanding is correct.	Refer to response no 70
91	Volume-II, Section – 4, Page No. 2, Clause 1.2.3.1	1. “The Double Circuit towers shall be designed so as to be suitable for adding –3M, -1.5M, 1.5M, 3M, 4.5M, 6M, 7.5M and 9M body extensions / leg extensions for maintaining adequate ground clearances without reducing the factor of safety (actual stress /allowable stress) available for the members of tested extensions in any manner. Reference drawing for leg extension arrangement is enclosed in the Bid Document”. We understand from Volume-III, Price Schedule is that, Double Circuit towers shall be designed so as to be suitable for adding –4.5M, -3M, -1.5M, 1.5M, 3M, 4.5M, 6M, 7.5M and 9M body extensions / leg extension. Please confirm our understanding is correct.	Same is in order.
92	Volume-II, Section IX OPGW Specification	1. we find the Chapter-01 Specification for OPGW cabling & associated hardware & fittings and Chapter-02 Inspection & Testing Requirement is missing. Kindly provide the Chapter-01 and Chapter-02 regarding OPGW.	Please refer Response No 17

93	Volume-II, Section-V-B Page No. 1,	we have to supply the HTLS conductor for this project. We request you to provide the Standard Technical Particulars Table of the same.	Guaranteed Technical Particulars (GTP) has to be provided by the supplier for offered HTLS conductor meeting the technical specifications requirements.
94	1. Please provide the softcopy of the Price Schedule.		Yes, soft copy will be provided to those bidders who have purchased the Bidding Documents. Please note that if there are any discrepancies then the provision of the hard copy will prevail.
95	2. Please provide all the co-ordinates of the Transmission Line.		The soft copy will provided.
96	Vol II, Section I, General Information and Scope, Cl. 1.1	The following transmission lines are included in the scope of the Contractor: 1. 220 kV D/C Kushma -New Butwal transmission line- approx. 87.6 kms 2. LILO of 132 kV D/C Butwal - Bardhaghat transmission line at New Butwal- approx. 3.0 kms Kindly confirm is scope include LILO of 132 kV DC Butwal-Bardhaghat TL ?	Pl. refer clarification given above in Response 1 and the Amendment to Price Schedules.
97	Vol. III, Schedule 2, Item NO.4. 7 (iv) & (v)	Quantity for (iv) Earth wire suspension Clamp is given as 57 nos. & (ix) Earth wire Tension Clamp is given as 913 nos. The quantities for Earth wire Suspension Clamp & Earth wire Tension Clamp seems double of the line requirement considering 2 peaks of tower. However, as per bidding documents, Earth wire is proposed on one peak and OPGW is proposed on another peak.	Pl. refer the Amendment to Price Schedules in Amendment-1
98	Vol. III, Schedule 4 (b), Schedule 4 (c)	Training Charges for training to be imparted abroad and	
		Training Charges for training to be imparted to Employer's Personnel by Bidder's Instructor in Nepal	
		Kindly check and correct quantities for suspension and tension clamps. Kindly clarify the exact nature & scope of training to be imparted and for how many persons this training is to be given. Pl. provide complete details.	This is self explanatory.
99	Vol. III, Schedule 1, Plant and Equipment including Mandatory Spares to be supplied from abroad, cl. 1.1.1	Tension Tower DA?	Pl. refer the Amendment to Price Schedules in Amendment-1

100	Vol. II, Sec-4, Cl. 1.5.1	Employers has calculated the ultimate external loadings at conductor and earthwire points and are enclosed along with the specification. The Contractor shall develop the tower designs based on the loadings given by the Employer only. Kindly Confirm, The Contractor has to develop the tower designs based on the loadings given by the Employer only?	Same is in order.
	Drawings, Loading trees for tower design	The loading trees & details of design for Tower type - DDS are not given in specification.	
	Vol. II, Sec-4, Cl. 1.4.10	For the snow zone towers (i.e. tower type DDS), middle cross shall be staggered as per IS 5613. The value of staggering shall not be less than 2.67m. Kindly provide the same. Kindly provide factor of safety. Also let us know if any special consideration required while designing these towers.	No such clause.
102	Vol. II, Sec-4, Cl. 1.4.10	The Bidder shall offer open type of foundation (i.e. slab and chimney) with maximum depth of foundation as 3.0 meters for above classification of foundations depending on economy and feasibility of construction at site. Whereas, Vol. II, Sec-4. Cl.2.7.12 states 'The total depth of open type foundations below the ground level shall not be less than 1.5 meters and more than 3.5 meters.' Kindly provide the exact maximum depth for foundations.	Pl. refer clarification given above.
103	Vol. II, Sec-4, Cl. 2.8.7	Reinforcement shall conform to IS: 432-1966 for M.S bars and hard drawn steel wires and to IS: 1138-1966 and IS: 1786-1966 for deformed and cold twisted bars respectively. Kindly provide the Grade of steel to be used for foundation.	Fe-500 grade of steel to be used for foundation reinforcement steel.
104	Vol. II, Sec-4, Cl. 1.6.10.1	Bidder has to submit only following design data along with the Bid - 'Detailed design calculations and drawings for DO type tower only.' Kindly confirm that 'Detailed design calculations and drawings for DD type tower only' are to be submitted along with the Bid. Please clarify if any additional design details are to be submitted at Bidding stage.	Bidder has to submit the Detailed design calculations for DD type tower along with all type of foundations. Further, line diagram of all type towers are to be submitted at Bidding stage.
	Vol. III, Schedule 2, Item No.4. 7 (iv) & (v)	As per BOQ, it is mentioned that HTLS type Conductor, 24 fibre OPGW & 7/3.35 GS Earthwire is used where as the calculated sag & Tension calculation is for ACSR Zebra & EW. Please Confirm the Sag & Tension, Loading trees/calculation to be used for tower design.	
105		The format for providing the guaranteed technical particulars is not enclosed with the Technical Specification in case of the following items: 1. Towers	

		2. HTLS Conductor	Pl. refer clarification given above in Response No. 41 and the Amendment-1
		3. Disc Insulators	
		4. Composite Long Rod Insulators	
		5. Insulator Hardware	
		6. Conductor and Earthwire Accessories	
	Clause No. 2.2 of Page 5, Section - I Volume - II of the Technical Specification	Requirement of 132 kV LILO Line with ACSR "BEAR" Conductor is indicated. The necessary Technical Specification and GTP Format for ACSR Bear Conductor is also included in this Volume. However the requirement of the 132 kV LILO Line or any of its components are not indicated in the Price Schedule. We request you to kindly confirm that the requirement of 132 kV LILO Line is not included in the present scope of work.	
	Volume III of III		
106	Item No. 4.2 of "Schedule No.1	Plant and Equipment including Mandatory Spares to be supplied from abroad" mention,', the type of Earthwire to be used as 7/3.66 mm Earthwire. However, in item No. 4.7 of the same schedule, the Earthwire Fittings are to be supplied for 7/3.35 mm,	Pl. refer clarification given above in Response no. 12 and the Amendment to Price Schedule in Amendment-1.
107	Item No. 4.2 of "Schedule No.2	Plant and Equipment including mandatory spare parts to be supplied from within Nepal including type test charges" mentions the type of Earthwire to be used as 7/3.66 mm Earthwire. However, in item No. 4.7 of the same schedule, the Earthwire Fittings are to be supplied for 7/3.35 mm.	
108	Item No.4 of "Schedule No.4:	Installation and Other Services (d) Type Test Charges for Type Tests to be conducted abroad" specifies that the type tests are to be carried out on 7/3.35 mm Earth wire. We request you to kindly confirm the type and size of Earthwire to be used.	
109	Item No.5 of "Schedule No.4: Installation and Other Services (d) Type Test Charges for Type	Tests to be conducted abroad" specifies that the type tests are to be carried out on AACSR Earth wire.	