

NEPAL ELECTRICITY AUTHORITY
Project Management Directorate
Project Management Department
Marsyangdi-Kathmandu 220 kV Transmission Line Project

ICB-PMD-MKTLP-076/077-02: Design, Supply, Installation and Commissioning of 220 kV Air insulated Substation (AIS) in Matatirtha, Kathmandu and 220kV Gas Insulated Substation (GIS) in Markichowk, Marsyangdi

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
1.	Vol-I, Section – 2, ITB Clause 39.6	Abnormally Low Bid : - ii. accept the bid, but require that the amount of the performance security be increased at the expense of the bidder to a level sufficient to protect the Employer against financial loss. The amount of the performance security shall generally be not more than 20% of the contract price; or reject the bid if the evidence provided does not satisfactorily account for the low bid price, and make a similar determination for the next ranked bid, if required	From said clause, we could not find out any quantified number below which a bid would be considered abnormally low. Hence we request you to please quantify in terms of percentage, below which a bid would be considered as abnormally and contractor would have to submit performance guarantee as 20% of the contract price. Kindly clarify.	The amount of performance guarantee for the abnormally low bid shall be determined after detailed evaluation of financial bid based on degree of low bidding etc.
2.	Vol-I, Section – 3, Clause 1.3.4	Functional Guarantees of the facilities	We understand, a bidder may propose transformer from various vendors and however loss capitalization will be done as per	Your understanding is correct only if one set of guaranteed losses are declared.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			declared functional guarantee, please confirm if our understanding is correct.	
3.	Vol-I, Section – 3, Clause 1.3.7	Domestic Preference : - The preference margin shall not be applied to the whole facility but only to the eligible domestically produced Plant and Equipment within the contract.	Please clarify criteria which will decide that a goods are domestically produced. i.e. how much value (in % age) must be added to a item to be categorized as domestically produced.	Please refer to Vol-1, Section 3, Clause 1.3.7. (d) : Evaluation Qualification Criteria
4.	Vol-I, Section – 8, Clause 27.10	The critical components covered under the extended defect liability are Power Transformers, Communication Equipment and Substation automation System (SAS), and the period shall be 3 years for each equipment.	We understand bidder will be liable for extended defect liability of equipments which are supplied under balance scope of work i.e. Balance quantity of Transformers, Communication Equipment and SAS. Please confirm.	Your understanding is correct.
5.	Vol-I, Section – 9, Article – 3 – Effective Date	If the conditions listed under 3.1 are not fulfilled within two (2) months from the date of this Contract notification because of reasons not attributable to the Contractor; the parties shall discuss and agree on an equitable adjustment to the contract Price and Time for Completion and/or other	We understand, if Contractor and Employer does not reach and agree on equitable adjustment to the contract price and time for completion, in that case bidder's bid security will not be forfeited. Please confirm if our understanding is correct.	This condition is applicable after contract signing.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		<p>relevant conditions of the Contract. And If conditions under 3.1(a) and (b) are complied but (c) is not fulfilled 2 months from the date of Contract notification due to reasons attributable to the Contractor, the sixty first day after Contract notification shall be the Contract Effective Date”</p>		
6.	Vol-I, Section – 9,	Appendix – 3, Insurance Requirements	We understand that, Contractor has to insure only for the items under present scope of work. Please confirm of our understanding is correct. If Not request you to please provide approximate value of total items to be supplied by owner and insured by contractor.	The bidder is required to insure owner supplied items and constructed items apart from Bidder's supplied material. The amount of Owner supplied material is USD 9.5 Million plus NPR 90 Million approximately.
7.	Volume-II, Chapter – 1, Clause 3.0	Specific Exclusion: Supply of 220kV GIS at Marsyangdi substation.	We understand supply of GIB of length as per substation layout is in present scope, please confirm if our understanding is correct.	All the GIS equipment including GIB has already been supplied by the previous Contractor.
8.	Volume-II, Chapter – 1, Clause 11.8	All the Owner supplied items as mentioned at Annexure-XI shall be handed over to the Contractor after award of the project and the contractor thereafter shall shoulder the responsibility for storing, handling, insurance, damage, erection, testing &	We understand, its been a while since these equipments were supplied to NEA and considering the time to evaluate the bid and award of contract and then installation of owner supplied equipments followed by commissioning will be more than 3-4 years till commissioning by which defect liability of owner supplied items would have lapsed.	

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		commissioning of the above said owner supplied items till commissioning of the project.	<p>Hence we have following submission and observation in lieu of same : -</p> <ol style="list-style-type: none"> 1. Testing of all equipments before handing over will be in scope of employer. Please confirm. 2. Contractor will not be responsible for the fault due to weathring or any other reason except mishandling in owner supplied material. Please confirm 3. If commissioning of facility is delayed due to reason not attributable to contractor, then FAC and associated payment will be released to contractor. Please confirm. 4. Contractor will not be liable to functional guarantees of Owner supplied Items. Please confirm. 	<ol style="list-style-type: none"> 1. Testing shall be done by the Contractor after successful erection of the equipment in presence of manufacturer and Client/Consultant. 2. The contractor shall be responsible for shifting the equipments (upto the installation points), installation, testing and commissioning of all the owner supplied materials. Any manufacturing defects, weathering and major short supply shall be assessed in presence of OEM and if OEM recommends, Employer shall take remedial measures. 3. This will be as per bid document. 4. Confirmed
9.	Volume-II, Chapter – 1, Clause 2.2.1	Matatirtha-Marsyangdi Double circuit line and Matatirtha – Trishuli Hydro station Double circuit lines are hybrid Line. Dismantling, re-erection and shifting all necessary modification /connections shall be part of Matatirtha – Trishuli Hydro station lines	We understand that, shifting of Matatirtha-Marsyangdi Double circuit line and Matatirtha – Trishuli Hydro station Double circuit lines for connect in new substation will be in present scope. Please confirm.	Only lines associated with Matatirtha – Trishuli Hydro station Double circuit feeders connected to existing 132kV substation are required to be dismantled, re-connected and shifted with all necessary modification /connections to the new 220kV bays at Matatirtha substation is in the present scope. Also, Matatirtha-Marsyangdi Double circuit line is new

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		are under present scope of work.		line and bay connections required are in the present scope.
10.	Volume-II, Chapter – 2, Clause 11.2	The General arrangement Drawing, Electrical Layout Plan & Section, Structural Layout, DSLP (Direct Stroke Lightning Protection) Layout & calculation, Foundation Layout, Cable Trench Layout for both Matatirtha & Marsyangdi substations have already been finalized and the same are enclosed at Annexure-I. The contractor shall construct the buildings, Gantry Towers & Transformer foundations at the allocated space already shown in the above said Layout drawing. The Contractor shall construct the roads, drains, cable trenches as per the above said already finalized design & drawings; however, minor modifications, if required to suit the actual site condition, shall be developed by the contractor.	Drawings provided along with the bid document are not clear, request you to please provide soft copies of the drawings.	The proper and clear drawings have already been uploaded in the website.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES**ICB-PMD-MKTLP-076/077-02**

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
11.	Volume-II, Chapter – 1, Clause 3.0	Specific Exclusion : Geo Technical Soil Investigation	Request you to please provide Soil Investigation Report.	Please follow Clarification No.1 issued by NEA.
12.	Volume-II, Chapter – 1, Appendix - 11	List of owner Supplied Items	Please confirm owner supplied items are at respective substation where they need to be installed. If not then please let us know the place from where they need to be transported.	The items are in the respective substations.
13.	Volume-II, Chapter – 1, Appendix 11 and Appendix 12	List of Owner Supplied items and Completed Civil Works	Please confirm contractor bears no responsibility for functionality of Owner Supplied Material at any stage of contract execution.	Please refer our Clarification S No.8. Please also refer Clause 11.8 of Chapter:1 (Project Specific Requirement of Technical specification) wherein it is mentioned that “All the Owner supplied items as mentioned at Annexure-XI shall be handed over to the Contractor after award of the project and the contractor thereafter shall take over the responsibility for storing, handling, insurance, damage, erection, testing & commissioning of the above said owner supplied items till commissioning of the project”. Any manufacturing defect and major short supply shall be assessed in presence of OEM and if OEM recommends employer shall take remedial measures. In case of any manufacturing defect, short supply and weathering defect certified by the

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
				OEM, the Employer will take necessary remedial measures.
14.			According to our investigation, although the equipment supplied by the owner for the substation has arrived at the site, Farad Electric Co. Ltd in China has not fully paid the manufacturers for the equipment. Some equipment manufacturers have also sued Farad Electric Co. Ltd for the same. In the future, if these equipment manufacturers requires to provide continued technical support, warranty and spare parts, the payment of previous arrears will be involved. We would like to know whether the bidder needs to consider the payment of the equipment arrears or not?	NEA has already paid for the materials supplied in the previous Contract to the previous Contractor. However, the Bidder is required to include the amount for complete installation and commissioning of the equipment supplied by the previous Contractor as per bid document including installation, testing commissioning works to be carried out by the respective manufacturer or in the supervision of respective manufacturer.
15.			Considering the equipment supplied by the owner, please clarify regarding the terms of payment involved for the follow-up technical inspection and other services of these equipment?	The cost associated with installation, testing commissioning works to be carried out by the respective manufacturer shall also included in the respective item of the Bidder's price schedule.
16.	Volume I of III, Section 9 - Contract Forms, Appendix 1	"Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad Eighty percent (75%) of the total or pro rata CIP or amount upon Incoterm "CIP," upon delivery to the	In terms of terms of payment in Appendix 1 of section 9-contract forms in Vol-I, we notice that some payment percentage in figure are inconsistent with their words in English.	Please Read as follows- "Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad Seventy-five percent (75%) of the total or pro rata CIP or amount upon Incoterm "CIP," upon delivery to the site within 45 days

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	<p>Schedule No.1 Schedule No. 2 Schedule No. 4</p>	<p>site within 45 days after receipt of invoice.Five percent (10%) of the total or pro rata CIP or amount upon issue of the Completion Certificate, within 45 days after receipt of invoice.Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's CountryEighty percent (75%) of the total or pro rata EXW amount upon Incoterm "Ex-Works," upon delivery to the site within 45 days after receipt of invoice.Five percent (10%) of the total or pro rata EXW amount upon issue of the Completion Certificate, within 45 days after receipt of invoice.Schedule No. 4 - Installation and Other ServicesEighty percent (75%) of the measured value of work performed by the Contractor, as identified in the said Program of Performance, during the preceding month,</p>		<p>after receipt of invoice. Ten percent (10%) of the total or pro rata CIP or amount upon issue of the Completion Certificate, within 45 days after receipt of invoice.Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country Seventy-five percent (75%) of the total or pro rata EXW amount upon Incoterm "Ex-Works," upon delivery to the site within 45 days after receipt of invoice. Ten percent (10%) of the total or pro rata EXW amount upon issue of the Completion Certificate, within 45 days after receipt of invoice.Schedule No. 4 - Installation and Other Services Seventy-five percent (75%) of the measured value of work performed by the Contractor, as identified in the said Program of Performance, during the preceding month, as evidenced by the Employer's authorization of the Contractor's application, will be made monthly within 45 days after receipt of invoice. Ten percent (10%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		<p>as evidenced by the Employer's authorization of the Contractor's application, will be made monthly within 45 days after receipt of invoice.Five percent (10%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Completion Certificate, within 45 days after receipt of invoice."</p>		<p>Employer's authorization of the Contractor's monthly applications, upon issue of the Completion Certificate, within 45 days after receipt of invoice."</p>
Matatirtha Substation				
17.	Volume IIA of III List of Drawing		<p>There are 6 sets of 33kV capacitor voltage transformers in Wiring Diagram, However, there are just 3 sets of 72.5kV capacitor voltage transformers provided by the employer in the bidding documents and bidding List, so which one can be used to refer to ? Please clarify.</p>	<p>There is typographical error in the drawing. The numbers of CVT are 03. Please follow Drawing No. MATA-DD-EP-2220, Rev—IV.</p>
18.	Volume IIA of III LIST OF SUPPLIED ITEMS		<p>in the mentioned list of supplied items by the employer, please clarify the list of equipment that has already been delivered to site and list of equipments that requires to be delivered to site?</p>	<p>Please refer Annex-XI, Vol-II Chapter-1 for already delivered materials to the respective sites. Also follow the clarification at Sl. No 12.</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

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19.	Volume IIA of III 4.3		Please clarify whether or not to consider not less than 25kA/3S for short-circuit current of both 72.5kV and 33kV equipment?	Short-circuit current of rating both 72.5kV and 33kV equipment shall be 25kA/3 sec. Please refer Annexure-IX to Chapter-1, Vol-II and Clause 4.6.1 of Chapter-2 (GTR), Vol-II for technical parameters of 72.5kV and 33kV equipments respectively.
20.	Volume III of III Schedule No.1		Please clarify whether the equipment of the relay protection, Complete Substation Automation System (SAS), LT Switchgear and Batteries that included in 220kV expansion project are to be supplied by the bidder or not?	Yes, the equipment of the relay protection, Complete Substation Automation System (SAS), LT Switchgear and Battery & Battery Chargers shall be supplied by the contractor under present scope of works.
21.	Volume III of III Schedule No.1		Please clarify whether there is Substation Automation System (SAS) in the existing 132kV substation or not? If not, please clarify whether the equipment is to be supplied by and improved by the bidder or not?	There is no SAS for the existing 132kV/33/11kV system. No protection IEDs are to be provided; only BCU, ethernet switches, FO cables etc are to be provided for the existing 132/33/11kV system for integration with the SAS to be provided for 220kV new AIS under present scope. Please follow the PSR of Volume-IIA for both substation and the respective items in the price schedule and Technical Specifications Vol-IIB.
22.	Volume III of III		Please clarify whether the existing 132kV substation communication system integration works and the newly built 220kV substation	Please follow Clarification No 2 Additional Drawings.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Schedule No.1		communication system, is to be supplied by the bidder or not?	
23.	Volume III of III Schedule No.1 & SINGLE LINE DIAGRAM		As for the bill of quantities, there are 10 nos of existing 132kV Substation Bay Automation device while there are 11 nos bay of single line diagram, the two do not match in quantity. Please clarify.	Bidder shall quote as per quantities mentioned in the Price Schedule. Quantity variation of unit rate items may be decided during detailed engineering.
24.	Volume III of III Schedule No.1 & Schedule No.4		In terms of clock synchronization device, we noticed it in Schedule No. 1 of Volume III of III, however we did not find it in Schedule No. 4. Please clarify whether there is an omission or not?	The bid has been amended. Please follow the Amendment No. 2
25.	Vol-IIA of III		The drawings provided in the bidding documents only include the building plan of the control room, "B" Type staff quarter and "C" Type staff quarter, but the drawings of pump house, store room, water tank and emergency oil pool are not available.	Please follow the Clarification No.2.
26.	Volume IIA of III/Vol-IIB of III		Some contents of the building described in the bidding document are inconsistent with the drawings, which one can be used to refer to? For example, a single storey auxiliary building of 20mx15m described in the bidding document is not found in the drawing.	This item is not required and is not provided in price schedule.
27.	Volume III of III		Please clarify whether or not to quote in accordance to the quantity mentioned in the bill of quantities? In this document for a	Please follow the price schedule of Vol-III and Bidder shall quote as per quantities mentioned in the Price

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			portion of works quantities are not mentioned completely, for these can bidder add the quantities? If not please provide the complete bill of quantities.	Schedule. Also, follow the relevant technical specifications of the items of the price schedule and Chapter-1-Project Specific Requirement Clause No 2.6.
28.	Volume IIA of III LIST OF CIVIL WORKS CARRIED OUT BY PREVIOUS CONTRACT OR		Employer is requested to provide a detailed list of completed interfaces by the previous contractor.	Please refer Annex-XII of Volume IIA.
29.	Vol-IIA of III		Employer is requested to provide the geological datas.	Please refer to the Clarification No.1 issued by NEA.
	Markichowk Substation			
30.	Volume IIA of III List of Drawing		Quantities of transformers set and 132kV transformer bay described in bidding documents are inconsistent with Single Line Diagram and Layout Plan Diagram in the bidding list. Please clarify which one can be used for reference?	4 Nos. (i.e. 1st Transformer Bank & 1 No. Spare Transformer) 53.33MVA, 220/132kV, 1-Phase Auto Transformers are Owner supplied items. 3 Nos. (i.e. 2 nd Transformer Bank) 53.33MVA, 220/132kV, 1-Phase Auto Transformers shall be supplied under present scope. 220kV GIS modules & associated Bus ducts for 2 Nos 220kV Transformer bay and

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

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				<p>132kV bay Equipments (i.e. Circuit Breaker, Isolator, CT) for 132kV side of 1st Transformer bay are already included in Owner supplied items. Single Line Diagram & GA drawing shall be modified by the Contractor during detailed engineering to include 7 Nos 220/132kV, 1-Phase Auto Transformers and associated 220kV & 132kV Bays. Please refer Layout drawing enclosed at Annexure-I (List of Tender drawings) & Annexure-XI (List of Owner supplied items) to Chapter-1 (Project Specific Requirement) of Vol-II and Price Schedule of Vol-III for clarity of scope.</p> <p>Please note that 132kV side of 220/132kV Transformer shown in dashed line in Drawing No. MARS-DD-EP-2210 is also part of present scope and contractor is required to bid accordingly.</p>
31.	Volume IIA of III List of Drawing		<p>In the bidding document, as for the equipment of 245kV GIS, rated current is 3000A and the short-circuit current is 40kA/1s, while in the Wiring Diagram, the rated current is 3150A and the short-circuit current is 50kA/3S. Please clarify which one to refer to?</p>	<p>The rating of Owner supplied 220kV GIS is 3150A, 50kA/3 sec against requirement of 3000A, 40kA/1 sec mentioned in the technical specification and hence rating of owner supplied GIS is valid.</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
32.	Volume IIA of III List of Drawing		There are two 630KVA, 33/0.400kV LT Transformers and 33kV Isolators, HG Fuses in Bidding List, however in Wiring Diagram and Layout Plan Diagram there is only one 630KVA, 33/0.400kV LT Transformer and there are no 33kV equipment. Please clarify which one to be used for reference? If there are two LT transformers, where is the other one to be connected to?	1 No. 630KVA, 33/0.400kV LT Transformer is already included in the List of Owner Supplied Item enclosed at Annexure-XI to Chapter-1, Vol-II. Another 1 No. 630KVA, 33/0.400kV LT Transformer and associated 33kV Equipments shall be supplied by the Contractor under present scope of works and shall be installed and connected to 33kV bus of existing Marsyangdi substation. SLD & Layout drawing shall be modified by the Contractor during detailed engineering to include the second LT Transformer. Please refer Annexure-XI to Chapter-1, Vol-II and Price Schedule of Vol-III in bidding documents.
33.	Volume IIA of III LIST OF SUPPLIED ITEMS		In the mentioned list of supplied items by the employer, please clarify the list of equipment that has already been delivered to site and list of equipments that requires to be delivered to site?	Please refer our clarification at S. No 12 and 18.
34.	Volume IIA of III 4.3		Please clarify whether or not to consider not less than 25kA/3S for short-circuit current of both 72.5kV and 33kV equipment?	Please refer our clarification at S. No 19.
35.	Volume III of III Schedule No.1		Please clarify whether the equipment of the relay protection, Complete Substation Automation System (SAS), LT Switchgear and Batteries that included in 220kV	Please refer our clarification at S. No 20.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			expansion project are to be supplied by the bidder or not?	
36.	Volume III of III Schedule No.1		Please clarify whether there is Substation Automation System (SAS) in the existing 132kV substation or not? If not, please clarify whether the equipment is to be supplied by and improved by the bidder or not?	Please refer our clarification at S. No. 21.
37.	Volume III of III Schedule No.1		Please clarify whether the existing 132kV substation communication system integration works and the newly built 220kV substation communication system, is to be supplied by the bidder or not?	Yes integration between existing 132kV substation communication system and the newly built 220kV substation communication system is required. Please also refer our clarification at S. No. 22.
38.	Volume III of III Schedule No.1 & SINGLE LINE DIAGRAM		As per bill of quantities, there are two sets of expanded 132kV Circuit Breaker Relay Panel in Marsyangdi while there is one bay of Single Line Diagram expansion interval, there two do not match in quantities. Employer is requested to provide a clear clarification.	2 nos. 132kV Bays has been envisaged under present scope of works. SLD & GA drawing shall be modified by the contractor during detailed engineering to include 2 nos. of 132kV Bays. Please refer Annexure-XI to Chapter-1, Vol-II and Price Schedule of Vol-III for clarity of scope. 132kV side of 220/132kV Transformer shown in dashed line in drawing No. MARS-DD-EP-2210 is also part of present scope and contractor is required to bid accordingly. Please also refer to clarification at S. No. 30.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES**ICB-PMD-MKTLP-076/077-02**

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
39.	Volume III of III Schedule No.1 & Schedule No.4		In terms of clock synchronization device, we noticed it in Schedule No. 1 of Volume III of III, however we did not find it in Schedule No. 4. Please clarify whether there is an omission or not?	Please refer clarification at S. No. 24 above and Amendment No. 2.
40.	Volume IIA of III		The drawings provided in the bidding documents only include the building plan of the control room, GIS room and "D" Type staff quarter, but the drawings of temporary camp, pump house, store room, water tank and emergency oil pool are not available.	Please follow the Clarification No. 2.
41.	Volume III of III		Please clarify whether or not to quote in accordance to the quantity mentioned in the bill of quantities? In this document for a portion of works quantities are not mentioned completely, for these can bidder add the quantities? If not please provide the complete bill of quantities.	Please refer our clarification at S. No 27.
42.	Volume IIA of III LIST OF CIVIL WORKS CARRIED OUT BY PREVIOUS CONTRACT OR		Employer is requested to provide a detailed list of completed interfaces by the previous contractor.	Please refer our clarification at S. No 28.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

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43.			Employer is requested to provide the geological datas.	Please refer to the Clarification No.1 issued by NEA.
44.	Volume-I, Section 3 - Evaluation and Qualification Criteria Clause: 2.4.2 Experience in Key Activities	2. The Bidder must have executed Installation and commissioning of two (2) numbers of 220kV or higher voltage class Power/Auto Transformers with a minimum capacity of 160 MVA, three phase or Two sets (six numbers) of single phase transformer bank each single phase transformer with minimum capacity of 53.33MVA within last 7(seven) years period.	2. The Bidder must have executed Installation and commissioning of ONE (1) number of 220kV or higher voltage class Power/Auto Transformers with a minimum capacity of 150 MVA , three phase or Two sets(six numbers) of single phase transformer bank each single phase transformer with minimum capacity of 53.33MVA within last 7(seven) years period.	This shall be as per Bid document.
Matatirtha Substation				
45.	VOL III page 4	"Line Protection Panel (Matatirtha -Marsyangdi) 2 sets ;Line Protection Panel (Matatirtha –Trishuli) 2 sets"	Q: Line bay main I protection and main II protection put in one panel or two panel?	Line Protection Relays Main-I and Main-II shall be placed in separate panels.
46.	VOL III page 4 "d	Current Differential Relay for other end of line (Upper	Q: what's this mean? Main-I Protection is distance Protection, Main-II Protection is	Generally Current differential protection relays for both end of the

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		Trishuli 3A Line)2 sets"	Line current differential protection. I think it already contains in item b&c.	Line shall be of same make & type and hence shall be procured under same package. Hence, Current Differential Relays at remote end shall also be considered. Bidder shall quote as per line items in Price schedule of Vol-III.
47.			Do 220kV buscoupler and bypass busbar contact need protections? These are not included in VOL III Bidding Equipment list.	Bidder's question is not clear. Over current & Earth Fault Protection and LBB Protection of 220kV Bus Coupler & Bus Tie Bays have been envisaged in the line items for CB Relay Panel.
48.	VOL III page 5	"220kV Bus Bar Protection Panel 1 set"	Q: Bus Bar main I protection and main II protection put in one panel or two panel?	This shall be finalized during detailed engineering.
49.	VOL III page 5 SUBSTATION AUTOMATION"	220 kV system 10 bays"	Q: There is no circuit breaker for 220kV busbar voltage transformer, so BCU is not needed. I think it should be 8 bays.	Bidder shall quote as per quantities mentioned in the Price Schedule. Quantity variation of unit rate items may be decided during detailed engineering.
50.	VOL III page 5 SUBSTATION AUTOMATION	"132 kV system 10 bays"	Q: According to the main wiring of the bidding document 132kV is 11 bays.	Please refer clarification at S. No. 23 above.
51.			Do LV control cables and power cables need to be provided? These are not included in VOL III Bidding Equipment list.	Yes, LV Power & Control Cables need to be supplied under present scope. Please refer to the Price

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

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				Schedule of Vol-III wherein 1.1kV Power & Control Cables are already included.
52.			Does the expansion of the substation automation system require the station level equipments?	Bidder's question is not clear. Complete Substation Automation System (SAS) is required for the new 220kV System and existing 132/33/11kV system meeting requirement of technical specification.
Markichowk Substation				
53.	VOL III	"Line Protection Panel 6 sets "	Q: Line bay main I protection and main II protection put in one panel or two panel? Whether 220kV GIS have two spare lines, do not equipped with line protection, only with circuit breaker protection and BCU?	Line Protection Relays Main-I and Main-II shall be placed in separate panels. Complete CRP & SAS shall also be provided for the 2 Nos spare Line bays.
54.		VOL III "c:Current Differential Relay for other end of line 4 Nos"	Q: what's this mean? Main-I Protection is distance Protection, Main-II Protection is Line current differential protection. I think it already contains in item b.	Generally Current differential protection relays for both end of the Line shall be of same make & type and hence shall be procured under same package. Hence, Current differential Relays at remote end (i.e. Bharatpur , Udipur and Spare Line bays) shall also be considered. Bidder shall quote as per line items in Price schedule of Vol-III.
55.			Do 220kV buscoupler need protections ? These are not included in VOL III Bidding	Over current & Earth Fault Protection and LBB Protection of 220kV Bus

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			Equipment list.	Coupler Bay have been envisaged in the line items for CB Relay Panel.
56.		VOL III "220kV Bus Bar Protection Panel 1 set"	Q: Bus Bar main I protection and main II protection put in one panel or two panel?	This shall be finalized during detailed engineering.
57.			Do 132kV system current period have two bays or one? The bidding drawing is inconsistent with the BQS.	Please refer our clarification at S. No. 38.
58.		VOL III SUBSTATION AUTOMATION"33kV system 3 bays"	Q: According to the single line of the bidding documents 33kV is 5 bays. And the expansion of the new auxiliary station transformer, did not see the protection measure and BCU device in BQS.	Please refer Clarification at Sl. No. 32 above. The existing 33kV LT transformer bay (for auxiliary supply of existing system) and additional 1 no. 33kV new LT transformer bay (220kV new GIS switchyard) are equipped with isolator and HG Fuse without any circuit breaker and hence do not require separate BCU and protection.
Matatirtha Substation				
59.			216kV surge arrester (1-Phase) was verified to be 19 Nos., Is it accurate compared with 31 Nos.?	The bidder is required to fill as per quantities mentioned in Vol-III of Bid document.
60.			245kV Bust Post Insulator (Except auxiliary buses of transformer) was verified to be 64 Nos., Is it accurate compared with 70 Nos.?	The bidder is required to fill as per quantities mentioned in Vol-III of Bid document. Part B Contractor Assessed Quantities are to be determined by the contractor in detailed engineering so bidder are required to fill in relevant items in

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
				Part-B Contractor Assessed Quantities.
61.			72.5 kV BPI (1-phase) was verified to be 66 Nos., Is it accurate compared with 15 Nos.?	The bidder is required to fill as per quantities mentioned in Vol-III of Bid document. Part B Contractor Assessed Quantities are to be determined by the contractor in detailed engineering so bidder are required to fill in relevant items in Part-B Contractor Assessed Quantities.
Markichowk				
62.			The disconnecter (+Q2.5) 145kV,1600A, 40KA) is included in the single line diagram but not shown in the plan.	The disconnecter is required as per single line diagram and Please follow and fill the relevant items in Volume-III Price Schedule.
63.			Where is 33kV Current transformer (NCT) for auto-transformer used?	Please follow the single line diagram provided.
64.			Is transformer oil filtration plant a common set for four transformers or one set for each transformer.	One set shall be supplied as per Price Schedule.
65.			216kV surge arrester (1-Phase) was verified to be 28 Nos., Is it accurate compared with 31 Nos.?	The bidder is required to fill as per quantities mentioned in Vol-III of Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification																																																	
66.			120 kV Surge Arrestors (1- Phase) was verified to be 4 Nos., Is it accurate compared with 7 Nos.?	4 nos. Surge Arresters are for Employer supplied transformer and 3 nos. Surge Arrester are for transformers to be supplied in this contract, hence 7 nos.																																																	
67.			<table border="1" data-bbox="865 529 1285 716"> <tr> <td>6.0</td> <td>72.5KV EQUIPMENT</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.1</td> <td>72.5 KV EPT (1-phase)</td> <td></td> <td>Nos.</td> <td>3</td> </tr> <tr> <td>7</td> <td>IS&Y Equipments</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>33 KV, 6004 Isolators with out earth switch (3-phase, ISB type)</td> <td></td> <td>Nos.</td> <td>1</td> </tr> <tr> <td>1.2</td> <td>30 KV Surge Arrestors (1-phase)</td> <td></td> <td>Nos.</td> <td>3</td> </tr> <tr> <td>1.3</td> <td>36 KV EPT</td> <td></td> <td>Nos.</td> <td>3</td> </tr> <tr> <td>1.4</td> <td>36 KV 80 Pole along with support insulator (1-phase)</td> <td></td> <td>Nos.</td> <td>3</td> </tr> </table> <p data-bbox="865 802 1350 873">The above equipment configuration is inconsistent, which one shall prevail?</p>	6.0	72.5KV EQUIPMENT				1.1	72.5 KV EPT (1-phase)		Nos.	3	7	IS&Y Equipments					33 KV, 6004 Isolators with out earth switch (3-phase, ISB type)		Nos.	1	1.2	30 KV Surge Arrestors (1-phase)		Nos.	3	1.3	36 KV EPT		Nos.	3	1.4	36 KV 80 Pole along with support insulator (1-phase)		Nos.	3	<table border="1" data-bbox="1339 529 1467 737"> <tr> <td colspan="2">=HT= AUXILIARY TRANSFORMER I DBT</td> </tr> <tr> <td>Voltage transformer(+10k)</td> <td>33 / 0.11 / 0.11 kv 25 / 25 / 25 kv 30/32.5 / 30/30kva</td> </tr> <tr> <td>#circumeter(+02.0)</td> <td>with earthing switch(+03.0)</td> </tr> <tr> <td>72.5kv, 250A, 31.5kA</td> <td>Normal operation</td> </tr> <tr> <td>circuit breaker(+05.0)</td> <td>72.5kv, 2150A 40kA</td> </tr> <tr> <td>current transformer(CT)</td> <td>50/1A SP550 ON 50/1Tap 50/1A SP550 ON 50/1Tap 50/1A 0.25 30kA</td> </tr> <tr> <td>Auxiliary transformer(+HT)</td> <td>33/0.4V 630kVA 0.4MVA UK = 55 , 4/1-1</td> </tr> </table> <p data-bbox="1472 529 1963 704">This is owner supplied item and installation shall be done by contractor. The bidder is required to fill as per quantities mentioned in Vol-III of Bid document.</p>	=HT= AUXILIARY TRANSFORMER I DBT		Voltage transformer(+10k)	33 / 0.11 / 0.11 kv 25 / 25 / 25 kv 30/32.5 / 30/30kva	#circumeter(+02.0)	with earthing switch(+03.0)	72.5kv, 250A, 31.5kA	Normal operation	circuit breaker(+05.0)	72.5kv, 2150A 40kA	current transformer(CT)	50/1A SP550 ON 50/1Tap 50/1A SP550 ON 50/1Tap 50/1A 0.25 30kA	Auxiliary transformer(+HT)	33/0.4V 630kVA 0.4MVA UK = 55 , 4/1-1
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68.	Volume III Schedule 4(a)		According to the site survey, the foundation of the building in the early stage was fractured, and the reserved reinforcement was seriously corroded, so the foundation part should be removed and redone.	We have not found any such fracture. If any fracture found, the same is to be replaced for which relevant quantities are available in Price Schedule. The previous reinforcement shall be tested after removal of rusting and if found defective additional reinforcement shall be placed for which item is available in Price Schedule. Please refer the Chapter-1.PSR 2.2.1 (iii) of VOLUME –IIA OF III.																																																	
69.	Volume III Schedule 4(a)		The bill of quantities does not include structural support and foundation, accident oil pool, cable trench and cable well.	The items are available in the technical specifications and Price Schedule.																																																	

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			According to the field survey, this part of the project has not been implemented in the early stage. How to quote for this part of the project?	
70.	Volume III Schedule 4(a)		According to the site survey, the foundation size of the early structure support is reduced, so it should be removed and redone in this phase. The demolition work quantity is not reflected in the bill of quantities. How to quote for this part of the project?	The foundation design and drawing already available shall be provided to the contractor for their review and if required the same shall be reinforced by providing additional RCC work. Major demolition is not envisaged in this contract except for boundary wall and RR masonry retaining wall. Also the testing, re-correction, remedial measures and re-strengthening works are within the scope of the contractor. Please refer the Chapter-1. PSR 2.2.1 (iii) of VOLUME –IIA OF III.
71.	VOLUME – III OF III	Price Schedules	Employer is requested to furnish soft copy in MS Excel format of Volume-3 price schedules.	We provide the soft copies to the bidders who have purchased the Bid document.
72.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREM	Installation, testing & commissioning of the Owner supplied (Equipment)...shall be carried out by the Contractor under the supervision of the...(manufacturer)...	Employer is requested to furnish contact details of manufacturers of owner supplied equipment so that bidder can take offer for supervision of equipment from these manufacturers.	The same has been provided in Clarification No. 3.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	ENT (PSR) Clause- 11.5,11.6 & 11.7 Page-27, 28 of 35			
73.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT (PSR) Clause-11.8 Page-28 of 35	All the Owner supplied items as mentioned at Annexure-XI shall be handed over to the Contractor after award of the project and the contractor thereafter shall shoulder the responsibility for storing, handling, insurance, damage, erection, testing & commissioning of the above said owner supplied items till commissioning of the project.	i) Employer to confirm if all "owner supplied equipment" have already been delivered and stored at Matatirtha & Marsyangdi Sub-stations and under possession of NEA with all outstanding financial dues settled to the respective OEM's (responsibility for storing, handling, insurance, damage in NEA scope till award to balance of works contractor). ii) Bidder understands that warrantee agreements of all owner supplied equipment shall be taken care of by NEA - Employer to confirm.	i) Please refer to our Clarification at S.N. 14. NEA can not directly deal with OEM for payments as per contract conditions. ii) Confirmed for manufacturing and weathering defects. However, installation and commissioning warranty is in present scope.
74.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT (PSR)Annexu	A) 220/132kV Matatirtha (Kathmandu) Substation ExtnB) 220/132kV Marsyangdi (Markichowk) Substation Extn	Bidder requests employer to furnish clear legible version in PDF/AutoCAD format of scanned drawings since same are not clear/readable on detailed inspection(/zooming).	Please refer to our Clarification at S.N. 10.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	re-IProject specific drawings			
75.	<p>VOLUME – III OF III</p> <p>VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT (PSR) Annexure-I Project specific drawings</p>	<p>Price Schedules Schedule No. 4e) - Type Test Charges for Type Tests to be conducted abroad Schedule No. 4f) - Type Test Charges for Type Tests to be conducted in Nepal.</p> <p>The Purchaser intends to repeat the type tests and additional type tests on transformers & reactor for which test charges shall be payable as per provision of contract. The price of conducting type tests and additional type tests shall be included in Bid price and break up of these shall be given in the relevant schedule of Bid Proposal Sheets. These Type test charges would be considered in bid evaluation.</p>	<p>i) Bidder understands that type test charges for 220/132/33kV 1-Ph , 53.33 MVA Auto Transformer (for Matatirtha & Marsyangdi Substations) indicated in Schedule No. 4e) & 4f) are applicable only for 03 nos. 220/132/33kV 1-Ph , 53.33 MVA Auto Transformer to be supplied by contractor and not for the (7+4) nos. 1-phase owner supplied transformers - please confirm.</p> <p>ii) Vailidity of Type Test Reports / any repetition of type tests on (07+04) nos. owner supplied 220/132/33kV 1-Ph , 53.33 MVA Auto Transformer shall be taken care of by employer only and not by contractor of subject balance of works project - Employer to confirm.</p>	<p>i) Yes, Your understanding is correct. This has been the typographical error in schedule 4(e) & 4(f). This type testing charge is only for the 3 nos. of new transformers to be supplied to Marsyangdi substation. Any one of the two forms Schedule no. 4(e) and 4(f) as applicable shall be filled by the bidder.</p> <p>ii) Yes, Your understanding is correct.</p>
76.	VOLUME – III OF III Schedule-4a I-B - Part-A -	Price Schedules 420KV GIS Equipment (Owner Supplied)	Bidder understands that 220kV GIS is applicable in Marsyangdi project - please confirm.	Yes, Your understanding is correct.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Clause-B1 Page 14 of 27			
77.	VOLUME – III OF III Schedule-4a I-B - Part-A - Clause-B1 1.10-1 (i) Page 15 of 27	Partial Discharge Monitoring System for 245kV GIS System as per Technical Specification, GIS	We understand that PDMS indicated in price schedule is portable PDMS - please confirm.	Yes, Confirmed. Please refer clause 26.3.1 of Chapter: 21 (GIS) of technical specification.
	VOLUME – IIB OF III, Chapter 21: Gas Insulated Switchgear (GIS) Clause- 26.3.1. Page-43 of 58	Portable Partial Discharge(PD) monitoring system		
78.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT (PSR) Clause- 2.2.2	(iii) Civil Works GIS Building for 220kV GIS. The size of 220kV GIS Building has been finalized as 40Mx11.5M to accommodate in the allocated space as shown in the already finalized substation Layout enclosed with the tender drawing. EOT crane shall be provided in the 220kV GIS Building as per relevant	i) Bidder understand that 220kV GIS Building is Pre-Engineered building - Employer is requested to confirm. ii) Please provide MT rating of EOT crane of 220kV GIS as MT rating of GIS EOT Crane is usually recommended by GIS OEM and GIS is owner supplied for subject project.	i) Yes, Confirmed. 220kV GIS Building is Pre-Engineered building. ii) Supply of EOT crane is under present scope of work. EOT crane capacity as recommended by GIS manufacturer is 6T.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	(iii)Page-18 of 35	section of technical specification.		
79.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT (PSR) Clause-11.22 Page-31 of 35	The GIS halls will be illuminated using enclosed type high bay, luminaries having 1X250 watt (for 400kV & below voltage level GIS hall), metal halide fixtures with approximately 1(one) fixture per 20 square meter.	Bidder requests employer to confirm if High Bay LED fixture 1x250 watt can be provided instead of 1x250 Watt Metal Halide Fixture.	Yes, Confirmed.
80.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT (PSR) ANNEXURE -XI LIST OF OWNER SUPPLIED ITEMS	I-A - B - 2.0 - 245kV Isolator (3-phase)-Double Break I-A - C - 1.2 - 72.5 kV, 1250A,31.5kA Isolators with earth switch (3-phase, DBR type) I-A - D - 1.1 - 33 kV, 630A Isolators with out earth switch (3-phase, DBR type) I-B - C - 2.0 - 145kV Isolator (3-phase)-HDB I-B - D - 1.2 - 72.5 kV, 1250A,31.5kA Isolators with earth switch (3-phase, DBR type)	Bidder requests employer to confirm if these owner supplied 220/145/72.5/33kV Isolators have been supplied with BPI's or Isolator BPIs are to be supplied by contractor - if by contractor, please include line item for same in price schedule.	Insulators for owner supplied isolators has been supplied by the previous contractor.
81.	VOLUME – IIB OF III, Chapter 12:	String Insulators & Hardware	Bidder requests employer to confirm whether porcelain string insulators or composite long	Please refer clause 1.1 of Chapter: 12 (Switchyard Erection) of Technical

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	SWITCHYARD ERECTION Clause-1.1 , 1.2 & 1.5 Page-1,2,7 of 48		rod insulators are to be provided for subject project.	specification. Contractor may provide either porcelain string insulator or composite long rod insulator.
82.	General	-	Kindly confirm owner's technical consultant of subject project "Contract No. and Title: ICB-PMD-MKTLP-076/077-02 ".	Power Grid Corporation of India Limited (PGCIL) is the consultant for this project.
83.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT (PSR) Clause-2.2.1 Page- 8 of 35	Lattice structures (galvanized): 220kV Towers & Beams shall be provided as per already finalized Single Line diagram which are enclosed at Annexure-I.	i) Bidder understands that towers shall be lattice type made of angles only as indicated in tender drawings (and not lattice type made of pipe or pipe type towers) - please confirm. ii) Bidder understands that galvanisation on towers & beams shall be 610gm/sq .mtr. - please confirm.	i) Yes, Your understanding is correct. ii) Please refer chapter 12-(SE) 1.5.3 of VOLUME –IIB OF III
84.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT	Pipe Structure (galvanized) for equipment support structures shall be provided as per already finalized design and drawings which are enclosed at Annexure-I.	i) Bidder understands that equipment support structure shall be pipe type only as indicated in tender drawings and not lattice type - please confirm. ii) Bidder understands that galvanisation on equipment structures shall be 610gm/sq .mtr. - please confirm.	i) Yes, Your understanding is correct. Except for Circuit Breaker which is under the scope of equipment manufacturer. ii) Please refer to the respective specifications.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	(PSR)Clause- 2.2.1Page- 8 of 35			
85.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT (PSR) ANNEXURE -XII	LIST OF CIVIL WORKS CARRIED OUT BY PREVIOUS CONTRACTOR	i) Bidder requests employer to kindly mark in layout of Matatirtha & Marsyangdi the civil works already completed at site. ii) Bidder also requests employer to furnish name & contact details of civil contractor who has executed subject works in switchyard. iii) T-type building - Drawing (layout/elevation) of T-type building may please be furnished.	i) Please refer to ANNEX XII. ii) There had been no authorized civil contractor approved for the project. iii) Since the Outlooks of building structures shall have to be prepared approved before construction, previous elevation drawings are not relevant. Please refer the Chapter-1. PSR 2.2.1 (iii) of VOLUME –IIA OF III and relevant chapters of 14. Civil Works VOLUME –IIB OF III.
86.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT (PSR) Annexure-I Project specific drawings VOLUME – IIA OF III, CHAPTER 1	A) 220/132kV Matatirtha (Kathmandu) Substation Extn B) 220/132kV Marsyangdi (Markichowk) Substation Extn The General arrangement Drawing, Electrical Layout Plan & Section, Structural	Bidder understands that finalised drawings provided in tender documents are already approved by NEA - Employer is requested to confirm whether balance works contractor can suggest technical changes (if any) if necessary in course of execution of subject project?	Please refer to Vol-II, Chapter 1, PSR.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	– PROJECT SPECIFICATION REQUIREMENT (PSR) Clause-11.2 Page- 27 of 35	Layout, DSLP (Direct Stroke Lightning Protection) Layout & calculation, Foundation Layout, Cable Trench Layout for both Matatirtha & Marsyangdi substations have already been finalized and the same are enclosed at Annexure-I.		
87.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION REQUIREMENT (PSR) Annexure-I Project specific drawings	A) 220/132kV Matatirtha (Kathmandu) Substation Extn B) 220/132kV Marsyangdi (Markichowk) Substation Extn	i) Please provide B-type & C-type Quarter plan/elevation of Marsyangdi S/S - are drawings of Matatirtha S/S provided by owner to be followed for Marsyangdi S/S also. ii) Please provide Elevation (Architectural) of B-type , C-type & D-type Quarter.	Plans for all the residential quarters have been provided with bid documents. Since the Outlooks of building structures shall have to be prepared and approved before construction, previous elevation drawings are irrelevant. Please refer the Chapter-1. PSR 2.2.1 (iii) of VOLUME –IIA OF III and relevant chapters of 14.Civil Works VOLUME –IIB OF III
88.	General	-	Bidder understands that creepage applicable for subject project is 25mm/kV - please confirm.	Yes, Confirmed.
89.	VOLUME – IIA OF III, CHAPTER 1 – PROJECT SPECIFICATION	LIST OF PREFERED (SHORTLISTED) MAKE	Bidder shall be procuring equipments for subject project through open tender process as per GOI/CVC regulations.	The bidder is required to propose the manufacturers of the major equipments while submitting the bid document. Bid evaluation will also be carried out based on the proposed

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	ION REQUIREMENT (PSR) Annexure-III LIST OF PREFERRED (SHORTLISTED) MAKE		Acceptance confirmation required from Employer.	manufacturers. The contractor shall supply from the same manufacturers approved after the bid evaluation.
90.	General	-	i) Employer is requested to furnish Contour Map of both sub-stations for estimation purpose. ii) Employer is also requested to furnish latest photographs of civil work already carried out in both sub-stations for reference.	i)The landscape of original land is changed after site leveling work by the previous contractor, so original contour map is not relevant. ii)Please refer Clarification No-03.
91.	VOLUME – IIB OF III, Chapter 8 : Fire Protection System Chapter 10 : Air Conditioning System	FF, ACVS of GIS Hall	Employer to confirm type of AC or Ventilation and type of Fire-fighting to be provided in 220kV GIS Hall as the same is not clear from Technical specification.	No Air conditioner is required for GIS Hall. Please refer Clause 17.0 of Chapter:21 (GIS) of technical specification for ventilation system in GIS Hall. Split Air conditioner of 2TR capacity shall be provided inside the Panel room adjacent to the GIS Hall as per air conditioning design requirement. Fire protection system of GIS Hall shall be as per requirement of Vol IIA of III, Chapter:8 (Fire Protection System) and Chapter 10 – Air Conditioning.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
92.	VOLUME – III OF III	Price Schedules - Civil Works	Employer is requested to furnish drawings of Transit Camp, FFPH, FF Water Tank and Car Parking Shed for estimation purpose.	Please refer Clarification No. 02
COMMERCIAL QUERIES				
93.	Volume 1, Appendix 2	Price adjustment	Considering the scope involves & completion schedule, we request NEA to consider price on variable basis and provide price adjustment formula.	This is a firm price contract.
94.	Volume-I, ITB Clause 34.1 (b)	Detailed Evaluation of Technical Bids	We will supply spares parts as per list and quantity given in the price schedule only. No other spares shall be in our scope. Please confirm.	Confirmed but the relevant ITB clause shall be valid.
95.	Volume-I, GCC Clause 10.2	Employer Responsibilities - Handing over of Site and Right to way to the Site	We understand that in the event of delay in handover of Site and delay by Employer under GCC Clause 10, we would be entitled to claim extension of time with costs under Clause 40 of the GCC. Please confirm.	The land has been already acquired by the employer. The site along with all the completed work by previous contractor will be handed over to the successful bidder after Contract Agreement.
96.	Volume-I, Section 7 - General Conditions of Contract, Clause 15.2	The copyright in all drawings, documents, and other materials containing data and information furnished to the Employer by the Contractor herein shall remain vested in the	We propose following:- The copyright in all drawings, documents, and other materials containing data and information furnished to the Employer by the Contractor herein shall remain vested in the Contractor or, if they are furnished to the Employer directly or through the Contractor	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		Contractor or, if they are furnished to the Employer directly or through the Contractor by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.	by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party. However, the Employer shall be obligated to use such drawings, documents and other material for the intended purpose only and shall indemnify and keep Contractor indemnified against any losses, claims, damages, penalty and compensation arising out of or in connection thereto.	
97.	Volume-I, Section 7 - General Conditions of Contract, Clause 16	Confidential Information	We understand that in absence of any specified protection period, the obligation of confidentiality shall survive for 2 years. Please confirm.	This shall be as per Bid document.
98.	Volume-I, Section 7 - General Conditions of Contract, Clause 21.2.2	Upon receipt of such item, the Contractor shall inspect the same visually and notify the Project Manager of any detected shortage, defect, or default. The Employer shall immediately remedy any shortage, defect, or default, or the Contractor shall, if practicable and possible, at the request of the Employer, remedy such shortage, defect, or default at	For Employer supplied material, we understand that Time for Completion shall be extended accordingly in the event of delay on account of the Employer as per clause 40.1 (e).	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		the Employer's cost and expense.....		
99.	Volume-I, Section 7 - General Conditions of Contract, Clause 22.6	If the work done or caused to be done by the Employer is work that the Contractor was liable to do at its own expense under the Contract, the reasonable costs incurred by the Employer in connection therewith shall be paid by the Contractor to the Employer.	We Propose following: If the work done or caused to be done by the Employer is work that the Contractor was liable to do at its own expense under the Contract, the reasonable actual costs incurred by the Employer in connection therewith shall be paid by the Contractor to the Employer.	This shall be as per Bid document.
100.	Volume-I, Section 7 - General Conditions of Contract, Clause 27.8	If the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Employer because of any of the aforesaid reasons.	We request that warranty for replaced items shall have a cut-off date beyond which all obligations of Contractor for warranty shall cease to exist. The existing clause may result in evergreen warranty obligations for contractor.	This shall be as per Bid document.
101.	Volume-I, Section 7 - General Conditions of	Except as provided in GCC Clauses 27 and 33, the Contractor shall be under no liability whatsoever and howsoever arising, and	We propose following: Except as provided in GCC Clauses 27 and 33, the Contractor shall be under no liability whatsoever and howsoever arising, and whether under the Contract or at law, in	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Contract, Clause 27.9	whether under the Contract or at law, in respect of defects in the Facilities or any part thereof, the Plant, design, or engineering, or work executed that appear after Completion of the Facilities or any part thereof, except where such defects are the result of the gross negligence, fraud, criminal, or willful action of the Contractor.	respect of defects in the Facilities or any part thereof, the Plant, design, or engineering, or work executed that appear after Completion of the Facilities or any part thereof, except where such defects are the result of the gross negligence, fraud, criminal, or willful misconduct action of the Contractor. Willful action needs to be changed to willful misconduct. Definition should be as provided below: 1.1 "Willful Misconduct" means, on the part of a Party's Managerial or Senior Supervisory Personnel, an intentional and wrongful act, or an intentional and wrongful omission of some act, in either case with the intent to inflict damage or injury.	
102.	Volume-I, Section 7 - General Conditions of Contract, Clause 29.1	Such indemnity shall not cover any use of the Facilities or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the Facilities or any part thereof, or any products produced thereby in association or combination	Please add the below to clause 29.1: Notwithstanding anything contained in the Contract, the Contractor shall have no obligation or liability with respect to any Claim based upon (a) Products or Services that have been modified, or revised, (b) failure of Employer to implement any update provided by Contractor that would have prevented the Claim, or (c) Products or Services made or performed to Employer 's	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		with any other equipment, plant or materials not supplied by the Contractor, pursuant to the Contract Agreement.	<p>specifications.</p> <p>For avoidance of any doubt each party shall retain ownership of all confidential information and intellectual property it had prior to the contract. All rights in and to products not expressly granted to Employer are reserved by contractor. All new intellectual property conceived or created by contractor in the performance of this contract, whether alone or with any contribution from Employer, shall be owned exclusively by contractor. Employer agrees to deliver assignment documentation as necessary to achieve that result.</p>	
103.	Volume-I, Section 7 - General Conditions of Contract, Clause 30.1(b)	The aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the amount resulting from the application of the multiplier specified in the SCC, to the Contract Price or, if a multiplier is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective	<p>We propose following:</p> <p>The aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the amount resulting from the application of the multiplier specified in the SCC, to the Contract Price or, if a multiplier is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.</p> <p>There should not be exceptions to the limit of</p>	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		<p>equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.</p>	<p>liability for the cost of repairing and replacing defective equipment. This should be a part of the limitation of liability. Please modify.</p> <p>The terms Gross Negligence and Willful Misconduct shall have following meaning:</p> <p>1.3 "Gross Negligence" means tortious acts or omissions by Seller's Managerial or Supervisory Personnel, well in excess of negligence and amounting to an intentional disregard of a grave, known risk, where such disregard constitutes an extreme deviation from even minimal care.</p> <p>1.4 "Willful Misconduct" means, on the part of a Party's Managerial or Senior Supervisory Personnel, an intentional and wrongful act, or an intentional and wrongful omission of some act, in either case with the intent to inflict damage or injury.</p>	
104.	<p>Volume-I, Section 7 - General Conditions of Contract, Clause 33.1</p>	<p>The Contractor shall indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages,</p>	<p>We Propose following: The Contractor shall indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of</p>	<p>This shall be as per Bid document.</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		<p>costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any or loss of or damage to any property, arising in connection with the supply and installation of the Facilities and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Employer, its contractors, employees, officers or agents.</p>	<p>the death or injury of any Third party or loss of or damage to any third party property, arising in connection with the supply and installation of the Facilities and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Employer, its contractors, employees, officers or agents.</p> <p>Please add the following as Clause 33.1:</p> <p>Employer (as an "indemnifying party") shall indemnify the contractor (as an "indemnified party") from and against claims brought by a third party, on account of personal injury or damage to the third party's tangible property, to the extent caused by the negligence of the indemnifying party in connection with this contract. In the event the injury or damage is caused by joint or concurrent negligence of the Employer and contractor, the loss or expense shall be borne by each party in proportion to its degree of negligence. For purposes of contractor's indemnity obligation, no part of the products or site is considered third party property.</p>	

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
105.	Volume-I, Section 7 - General Conditions of Contract, Clause 43	Neither the Employer nor the Contractor shall, without the express prior written consent of the other party (which consent shall not be unreasonably withheld), assign to any third party the Contract or any part thereof, or any right, benefit, obligation or interest therein or thereunder.	Please add the following at the end of the Clause: Nothing herein shall affect the right of the Contractor to assign receivable under the Contract by way of factoring.	This shall be as per Bid document.
106.	Volume-I, Section 7 - General Conditions of Contract, Clause 34.1	To the extent specified in the Appendix (Insurance Requirements) to the Contract Agreement, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, who should not	To the extent specified in the Appendix (Insurance Requirements) to the Contract Agreement, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, who should not unreasonably withhold such approval.	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		unreasonably withhold such approval.		
107.	Volume-I, Section 7 - General Conditions of Contract, Clause 34.1 (b)	Covering physical loss or damage to the Facilities at the Site, occurring prior to Completion of the Facilities, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the Defect Liability Period while the Contractor is on the Site for the purpose of performing its obligations during the Defect Liability Period.	As upon completion of switchyard all the installation activities shall be over and considering the same we propose that Installation all risks insurance will be effective till TOC, beyond that it should be covered under client's property insurance. Please confirm.	This shall be as per Bid document.
108.	Volume-I, Section 7 - General Conditions of Contract, Clause 34.1 (c)	Third Party Liability Insurance Covering bodily injury or death suffered by third parties including the Employer's personnel, and loss of or damage to property occurring in connection with the supply and installation of the Facilities.	As Employee's personnel shall be covered in Employee's own insurance program, we request to amend the clause as below: Third Party Liability Insurance Covering bodily injury or death suffered by third parties including the Employer's personnel , and loss of or damage to property occurring in connection with the supply and installation of the Facilities.	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
109.	Volume-I, Section 7 - General Conditions of Contract, Clause 34.1 (f)	Employer's Liability In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed	Kindly specify the statutory requirements if any.	This shall be as per Bid document.
110.	Volume-I, Section 7 - General Conditions of Contract, Clause 34.5	The Employer shall at its expense take out and maintain in effect during the performance of the Contract those insurances specified in the Appendix (Insurance Requirements) to the Contract Agreement, in the sums and with the deductibles and other conditions specified in the said Appendix.	Please specify the amount of deductibles.	This shall be as per Bid document.
111.	Volume-I, Appendix 3 - Insurance Requirements (A) Insurances To Be Taken Out By The Contractor	In accordance with the provisions of GCC Clause 34, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other	In accordance with the provisions of GCC Clause 34, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified. The identity of the insurers and the form of the policies shall be subject to the approval	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		conditions specified. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, such approval not to be unreasonably withheld.	of the Employer, such approval not to be unreasonably withheld.	
112.	Volume-I, Appendix 3 - Insurance Requirements (a)Cargo Insurance	(*) Excess 5% of claimed amount subject to minimum of NRs. 20,000 or its equivalent for Normal and NRs. 80,000 or its equivalent for act of God perils and collapse.	We request NEA to delete the foot note: (*) Excess 5% of claimed amount subject to minimum of NRs. 20,000 or its equivalent for Normal and NRs. 80,000 or its equivalent for act of God perils and collapse.	This shall be as per Bid document.
113.	Volume-I, Appendix 3 - Insurance Requirements (b)Installation All Risks Insurance	Installation All Risks Insurance Covering physical loss or damage to the Facilities at the Site, occurring prior to completion of the Facilities, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the defect liability period while the Contractor is on the Site for the purpose of performing its obligations during the defect liability period	As upon completion of switchyard all the installation activities shall be over and considering the same we propose that Installation all risks insurance will be effective till TOC, beyond that it should be covered under client's property insurance. Please confirm.	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
114.	Volume-I, Appendix 3 - Insurance Requirements (b)Installation All Risks Insurance	(*) Excess 5% of claimed amount subject to minimum of NRs. 10,000 or its equivalent for Normal and NRs. 30,000 or its equivalent for testing period.	We request NEA to delete the foot note: (*) Excess 5% of claimed amount subject to minimum of NRs. 10,000 or its equivalent for Normal and NRs. 30,000 or its equivalent for testing period.	This shall be as per Bid document.
115.	Volume-I, General	New Clause- No Nuclear use	The Owner shall confirm that the products/goods and services provided under this contract shall not be used in connection with any nuclear plant or nuclear use. Any such use shall be in fundamental breach of this agreement. Please confirm.	This shall be as per Bid document. We confirm you that products/goods and services provided under this contract shall not be used in connection with any nuclear plant or nuclear use
116.	Volume-I, General	SAFETY	PLEASE ADD THE CLAUSE: Contractor has no responsibility or liability for the pre-existing condition of Employer's equipment or the Site. Prior to Contractor starting any work at Site, Employer will provide documentation that identifies the presence and condition of any Hazardous Materials existing in or about Employer's equipment or the Site that Contractor may encounter while performing under this Contract. Employer shall disclose to Contractor industrial hygiene and environmental monitoring data regarding conditions that may affect Contractor's work or personnel at the Site. Employer shall keep	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			Contractor informed of changes in any such conditions	
117.	Volume-I, General	GENERAL INDEMNITY	PLEASE ADD THE CLAUSE: Employer (as an "Indemnifying Party") shall indemnify the Contractor (as an "Indemnified Party") from and against claims brought by a third party, on account of personal injury or damage to the third party's tangible property, to the extent caused by the negligence of the Indemnifying Party in connection with this Contract. In the event the injury or damage is caused by joint or concurrent negligence of Employer and Contractor, the loss or expense shall be borne by each party in proportion to its degree of negligence. For purposes of Contractor's indemnity obligation, no part of the Products or Site is considered third party property.	This shall be as per Bid document.
118.	Volume-I, Appendix 1	Supply : 10% in advance against equivalent amount of invoice & irrevocable BG 75% of total or pro rata CIP after material delivery at site 10% of the total or pro rata CIP or amount upon issue of the Completion Certificate within 45 days after receipt of	We are proposing payment terms in line with the latest ABD funded project payment terms, kindly consider. Supply : 15% in advance against equivalent amount of invoice & irrevocable BG 70% of total or pro rata CIP after material delivery at site 10% of the total or pro rata CIP or amount upon issue of the Completion Certificate	This shall be as per Bid document.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		<p>invoice. 5% of the total or pro rata CIP or amount upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice</p> <p>Erection: 10% of total CIP in advance against equivalent amount of invoice & irrevocable BG 75% of total or pro rata after receipt of invoice 10% upon issuance of completion certificate 5% upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice</p>	<p>within 45 days after receipt of invoice. 5% of the total or pro rata CIP or amount upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice</p> <p>Erection: 15% of total CIP in advance against equivalent amount of invoice & irrevocable BG 70% of total or pro rata after receipt of invoice 10% upon issuance of completion certificate 5% upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice</p>	
	TECHNICAL QUERIES			
119.	Volume-II A Chapter-1 Clause 2.1.1 & 2.2.2 Vol.III, Sch-1,S.No.I-A.H.a(i) &a(ii)	220 kV line bays: 4(Four) numbers of line bays for termination of (a) 2(Two) number of lines i.e. Marsyangdi (Marki Chowk)-Kathmandu 220kV Double circuit line and (b) 2(two) number of lines i.e. Upper Trishuli 3 A, Hydro-project	Please confirm whether E1-FO Converter are to be considered at all locations for SDH to DTPC (located in Switchyard panel room) interfacing i.e 220kV Matartirtha, Marsyangdi & Uper Trishuli 3 A. Also request NEA to provide distance of Switchyard panel room & Telecom room for consideration of FO cable length.	Requirement of E1-FO converter shall be finalized during detailed engineering. Distance of Switchyard panel room & Telecom room is around 30m- 60m approximately.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		<p>220kV double circuit lines. For 220kV D/C Lines, Digital Protection Coupler (2 Nos. at each end) shall be used for Teleprotection application. Each DPC shall be equipped with all accessories, cabling etc required to interface with SDH/MUX telecommunication terminal equipment located in the switchyard panel room required for its commissioning is in present scope of contract.</p>		
120.	Vol.III, Sch-1,S.No.I-A.H.d	4 wire telephone equipment-1 No.	No PLCC equipment is required to be offered as per BPS (Tender Price schedule). Also 4 Wire Telephone equipments for various make are proprietary in nature hence please provide make of PLCC equipment with which 4 w telephone equipment will be used.	No PLCC equipment is envisaged under present scope. However, Bidder shall quote against the line items given in the Bid Price Schedule(BPS)On call.
121.	Volume-II A Chapter-1 Clause 2.1.2 Vol.III, Sch-1,S.No.I-	§ 220 kV line bays: 8(Eight) numbers of line bays. H. Teleprotection and Communication Equipments h.i. Digital protection Coupler-6 Nos.	We understand Digital protection Couplers are to be provided for these lines & its connected remote ends. Please provide details of considered Digital protection coupler quantities & remote end details. Please confirm whether E1-FO Converter are	Bidder shall quote as per BPS and technical specification requirement.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	B.H.a(i) &a(ii)	h.ii. Digital protection Coupler for remote end-4 Nos.	to be considered at all locations for SDH to DTPC (located in Switchyard panel room) interfacing at Marsayangdi & remote ends.Also request NEA to provide distance of Switchyard panel room & Telecom room for consideration of FO cable length.	Requirement of E1-FO converter shall be finalized during detailed engineering.
122.	Vol - III Sch-4.c, S.No. A.iii Vol.II-A, Cl.11.19	iii) Telecommunication Equipment (SDH,MUX & NMS (Craft Terminal)) and PLCC for 3 nos. of Trainees for 7 days. Training at Manufacturer's works. The Contractor shall include in the training charges (i) Accommodation charges (ii) payment of per Diem allowance to NEA trainees @ USD 150 per day per trainee for the duration of training abroad towards meals and other incidental expenses and (iii) to and fro economy class air ticket from Nepal to place of training.	We understand lodging, boarding, travel charges for training at manufacturers works will be borne by NEA. Bidder has to consider per-diem allowances of 150 USD per trainee for training period (7days) & no allowance will be considered for days on account of travelling.	This shall be as per Bid document.
123.	Vol - III Sch-4.d.1 & d.2 Vo.II.B Cl.5.4.2	Maintenance Charges for Communication Equipments including SDH & MUX. for One (1) year during Warranty period- 1 Years	We understand bidder scope is to ensure availability of deployed communication system & no engineer resource deployment is required to be considered. Only comprehensive maintenance is in scope of	Annual maintenance and maintenance for defects found shall be done by the Contractor for uninterrupted communication system during the period.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		<p>Maintenance Charges for Communication Equipments including SDH & MUX. for Six (6) years after Warranty period-6 Years 5.4.2 Contractor's Maintenance Responsibility The Contractor shall be responsible for carrying out "Comprehensive Maintenance" of the Communication System for a period of six years after warranty period for ensuring the successful operation of the system. The Contractor shall be responsible for achieving the system availability and the response time mentioned in technical specifications. The bidder shall quote the Annual Maintenance Charges for six years after Warranty Period which shall be considered in the bid evaluation.</p>	<p>bidder, bidder will provide required technical support to NEA for fault rectification & replacement of faulty cards.</p>	
124.	Volume-III, Price Schedule	Integration of all bays with MCC at Baneshwor substation	Integration of all bays with MCC at Baneshwor substation has been asked in price schedule whereas in Vol-IIA of III, CHAPTER 1 – PROJECT SPECIFICATION	Integration with of a MCC at Baneshwor, Kathmandu also under the scope. Please quote as per

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			REQUIREMENT (PSR) it is not asked. Kindly clarify	Chapter-Substation Automation System (SAS) and BPS.
125.	Volume-II, Cl-1, Intent of Specs	The above said Substation Package was already awarded under a separate package and detailed engineering, procurement & site execution works were in progress.11.2 The General arrangement Drawing, Electrical Layout Plan & Section, Structural Layout, DSLP (Direct Stroke Lightning Protection) Layout & calculation, Foundation Layout, Cable Trench Layout for both Matatirtha & Marsyangdi substations have already been finalized and the same are enclosed at Annexure-I	Detailed engineering drawing (soft copy)as completed/approved shall be shared with bidder after award of contract, also we understand suscessful bidder will not be suppose to do re-engineeering/design drawing for completed part. Please clarify.	This shall be as per Chapter-1: PSR of the Bid document.
126.	Volume-II, Cl 2.1.1,Scope of work	220 kV Upper Trishuli 3A Hydro-project double circuit lines are at present charged at 132 kV voltage levels and terminated at existing 132 kV substation. These line are to	Please clarify bidder scope related to Line termination at 220KV side from existing 132KV side.	Please refer our clarification at S. No 9.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		be terminated in 220kV Switchyard in above mentioned 220 kV line bays, on construction of 220 kV bays		
127.	Volume-II, Cl 8.2.5 I, Ground system	The new grounding shall be bonded with existing grounding network at the existing Substations.	Request to provide the existing ground network	The existing grounding layout of 132kV substations shall be handed over after award of Contract. The grounding design & grounding layout of 220kV Matatirtha substation are already finalized and enclosed with the tender drawing while the contractor shall carry out grounding design of Marsyangdi 200kV substation based on provided soil resistivity data.
128.	8.4 IIB Ground system ,1594362730_ Clarification- I Annexure- XIII	ERT Reports	We understand that along with Soil report, Earth resistivity test already conducted in Both SS, so bidder will consider this as final and need not carry the same.	Yes, your understanding is correct. Please refer our Clarification No-1.
129.		General	Equipment grounding details /Philosophy shall be provided.	Equipment grounding details shall be finalized during detailed engineering.
130.	Volume-II, SECTION: EHV XLPE POWER	EHV Cable Laying and Termination	132KV EHV cable in Concrete Trench or buried directly in Ground. if it shall be laid	132kV EHV cable shall be laid in cable trench on angle tray and details of cable trench shall be finalized at detailed engineering.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	CABLE CI-28		in trench so whether it would be on Angle or GI Ladder cable tray. Please clarify.	
131.	Volume-II, SECTION: EHV XLPE POWER CABLE CI-33	DTS system requirements for EHV Cable	If DTS system required for Complete EHV route request to furnish the detailed technical Specifications of DTS System.	Bidder shall quote meeting requirement of technical specification and BPS.
132.		Bidder Scope	Future bays as mentioned in drawing will not be covered in any respects in present scope of work. Please clarify	Yes, Your understanding is correct for Matatirtha substation. No future bays has to be done at Matatirtha substation. For Markichowk substation 220/132kV transformer bays as mentioned in the bid including transformer is in the current scope. 2 nos. 220kV future line bay module for GIS already supplied by previous contractor shall also be in current scope for installation and commissioning.
133.	Volume-II	General	All drawing related to interface engineering shall be shared to bidder after award of contract.	Yes, the remaining drawing shall be supplied after award of Contract. If any drawings (civil or electrical) are unavailable Contractor shall prepare it.
134.	Volume-III, BOQ: Extension of 220/132/33kV	220KV LINE Protection Panels. Supply of Line Protection: 6 Nos	We assume the name Kathmandu 1 & 2 mentioned in SLD denotes (Mathatirtha), Bharatpur 1 & 2, Udipur 1 & 2. 1. Current Differential Relay supply is	For Matatirtha (Kathmandu) and Marsyangdi (Markichowk) substations, the current differential relays along with the CRP at both end

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Marsyangdi Substation (220 kV GIS & 132 kV AIS)	Current Differential Relay: 4 Nos	considered as loose item only. No Installation Testing & Commissioning is considered in scope. Please confirm	shall be provided by the contractor under present scope. However, current differential relays for remote ends (i.e. Bharatpur and Udipur substations) shall be supplied as loose items which shall be installed in the respective relay panels at Bharatpur and Udipur substations. Commissioning of the current differential protection shall be carried out by the contractor under present scope in coordination with remote end. If panel installation in those substations are not ready, these shall be installed the by the respective contractor in a separate package.
135.	Volume-III, BOQ: Extension of 220/132/33kV Marsyangdi Substation (220 kV GIS & 132 kV AIS)	220KV LINE Protection Panels. Supply of Line Protection: 6 Nos Current Differential Relay: 4 Nos	No Protection equipment is consider for Spare or Future Feeder	Mandatory spares shall be supplied as per BPS only.
136.	Volume-III, BOQ: Extension of 220/132/33kV Marsyangdi	Transformer Protection Panel (For both HV & MV side) including Remote Tap Changing Control Panel with AVR	AVR shall be mounted in the Transformer Control Panel. No separate panel is considered in scope	This is in the scope of Contractor. However, it can be decided in the detail engineering.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Substation (220 kV GIS & 132 kV AIS) & BOQ: Extension of 220/132/33kV Matatirtha Substation			
137.	Volume-III, BOQ: Extension of 220/132/33kV Marsyangdi Substation (220 kV GIS & 132 kV AIS)	Bus Bar Protection Panel	We are considering Low Impedance Centralized Busbar Protection. Please confirm do we need to consider Busbar Protection for Future as well as Spare Feeders	Low impedance type numerical centralized busbar protection is acceptable for Marsyangdi SS. Yes, busbar protection shall be provided considering all the future/spare feeders.
138.	Volume-III, BOQ: Extension of 220/132/33kV Marsyangdi Substation (220 kV GIS & 132 kV AIS)	Bus Bar Protection Panel for 132KV	Please confirm availability if LBB protection is available in the existing CRP for each bay.	Yes LBB protection shall be provide for each circuit breaker bay.
139.	Volume-III, BOQ: Extension of 220/132/33kV	SUBSTATION AUTOMATION	Bays to be automated of existing 132 kV substation - 6 Nos Bays to be automated of existing 33 kV substation - 3 Nos	Existing 132kV & 33kV bays are not equipped with SAS and hence shall be provided with BCUs which shall be

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Marsyangdi Substation (220 kV GIS & 132 kV AIS)		As we are not able travel due to Covid Situation, requesting to provide the existing make of IED's and Corresponding Protocol available for communication with Existing Relays	integrated with the SAS to be provided under present scope. In Marsyangdi substation, the CR panels are from ABB India.
140.	Volume-III, BOQ: Extension of 220/132/33kV Marsyangdi Substation (220 kV GIS & 132 kV AIS)	SUBSTATION AUTOMATION	If we need to supply fresh Bay control units do we necessary space in the existing Control Panel or do we need to supply fresh panels for mount only BCU	Limited space panels are available in 132kV panels. In many cases new panels shall be required for relevant equipments for SAS activities. The bidders are required to finalise these during detailed engineering.
141.	Volume-II, Common for Mathathirta and Marsyangdi	SUBSTATION AUTOMATION, Clause no: 4.1.5 Switched Ethernet Communication Infrastructure:,...One switch shall be provided to connect all IEDs for two bays of 220kV yard to communication infrastructure.....	Please confirm for 220KV can we optimize the switch qty like combining 2 to 4 bays in a single switch. Please provide us the switch Requirement for 132KV, 33kV & 11KV also.	Bidder shall quote meeting requirement of technical specification & BPS.
142.	Volume-II, Common for Mathathirta	SUBSTATION AUTOMATION, Clause no: 14.0, LIST OF EQUIPMENTS	As per spec we need to send the SCADA Data to the LDC and MCC and shall be monitored from the existing system. Hence, we don't foresee any Requirement of Remote	LDC for Matatirtha & Marsyangdi substations is at Siuchatar substation. Also, SAS integration with MCC, Baneshwor substation is also required

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	and Marsyangdi		End PC HMI, accessories like UPS and Printer. Please confirm do we need to supply remote end equipments	for Matatirtha substation. Hence remote HMI and other accessories shall be provided as per requirement of Chapter-SAS.
143.	Volume-II, Common for Mathathirta and Marsyangdi	F: COMMON EQUIPMENTS - Relay Test tool kit(3 phase type)	We assume no numerical relay test kit considered in scope. As per Control Panel Specification: Clause: 31. Relay Test Kit.	Bidder shall quote meeting requirement of technical specification & BPS.
144.	Volume-III, BOQ: Extension of 220/132/33kV Matatirtha Substation	220KV LINE Protection Panels. Supply of Line Protection: 4 Nos(Marsyangdi -2 Lines + Thrishuli - 2lines) Current Differential Relay: 2 Nos	Current Differential Relay supply is considered as loose item only. No Installation Testing & Commissioning is considered in scope. Please confirm	For Matatirtha (Kathmandu) and Marsyangdi (Markichowk) substations, the current differential relays along with the CRP at both end shall be provided by the contractor under present scope. However, current differential relays for remote ends (i.e. Trishuli-3B Hub substation) shall be supplied as loose items which shall be installed in the respective relay panels at Trishuli-3B Hub substation. Commissioning of the current differential protection shall be carried out by the contractor under present scope in coordination with remote end. If panel installation in those substations are not ready, these shall be installed the by the respective contractor in a separate package.
145.	Volume-III, BOQ:	Circuit Breaker Relay Panel, 1. With Auto Reclose - 5 Nos	We assume the Qty mentioned is wrong Circuit Breaker Relay Panel,	220kV TBC bay shall be provided with Auto Reclose. Bidder shall quote

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Extension of 220/132/33kV Matatirtha Substation	2. Without Auto Reclose - 3 Nos	1. With Auto Reclose - 4 Nos(For 4 Lines) 2. Without Auto Reclose - 4 Nos(For 2 Trafo,1No BC, 1 No TBC). Please confirm	meeting requirement of technical specification & BPS.
146.	Volume-III, BOQ: Extension of 220/132/33kV Matatirtha Substation	SUBSTATION AUTOMATION	Bays to be automated of existing 132 kV - 10, 33KV: 8 and 11KV- 11 Nos As we are not able travel due to Covid Situation, requesting to provide the existing make of IED's and Corresponding Protocol available for communication with Existing Relays	Existing 132kV & 33kV bays are not equipped with SAS and hence shall be provided with BCUs which shall be integrated with the SAS to be provided under present scope. The most of relay panels in Matatirtha substations are from GE, Canada and Alstom, India
147.	Volume-III, BOQ: Extension of 220/132/33kV Matatirtha Substation	SUBSTATION AUTOMATION	Bays to be automated of existing 132 kV - 10 Nos - 2 Future Bays shown in the SLD is not considered in the automation scope - Please confirm	Bidder shall quote meeting requirement of technical specification & BPS.
148.	Volume-III, BOQ: Extension of 220/132/33kV Matatirtha Substation	Bus Bar Protection Panel	We are considering Low Impedance Centralized Busbar Protection. Please confirm do we need to consider Busbar Protection for Future as well as Spare Feeders	For Matatirtha AIS substation, Low Impedance type numerical Distributed Busbar protection shall be provided. Yes busbar bay unit for the future/spare bays shall be provided under present scope.
149.	Volume-II, Common for Mathathirta	Distance between 220KV & 132KV Substation	Please provide us the distance between the 220KV Substation & 132 KV Substation for both Mathatirtha and Marsyangdi	Both substations are 50m to 80 at Matatirtha and 10 to 20m at Marsyangdi (in same compound area)

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	and Marsyangdi			
150.	Volume-II, Project Specific Requirement	2.2.1 New 220kV AIS type (Air Insulated Substation) and extension 132 kV AIS substation at Matatirtha (Kathmandu) - Page no 7 of 135Further, the automation system for 132 kV bays shall have provision for future integration of one number protection IEDs per feeder bays....	Our offered SCADA shall have provision for future Integration. However, Supply of Cable, ethernet switch LIU for future bay is not considered in scope.	Bidder shall quote meeting requirement of technical specification & BPS.
151.	Volume-II, Specification for Revenue Meter & Metering (Instrument) Transformer	Energy Meter Accuracy Class : 0.1s	1. The standards mentioned doesn't call for 0.1s class accuracy. Can we provide 0.2s class meters 2. Approved make: ELSTER (ABB), ACTARIS (Schlumberger), EDMI, SIEMENS etc. we found the vendors mentioned doesn't have 0.1s class meters. Requestng NEA to provide standard vendor, alternatively can we suggest vendors who manufacture high accuracy meters and request to take up the approval during execution	The bidder is required to supply 0.1s accuracy class meters. Some manufacturers in the list can supply 0.1 accuracy meters. The rest shall be discussed and resolved during detailed engineering. Bidder shall quote meeting requirement of technical specification & BPS.
152.	Volume-II, Project	11.14 Augmentation and integration work related to	We believe the Siemens LDC System is being upgraded and shall accept data only on	Yes, data shall be provided from SCADA Gateway on IEC 104

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Specific Requirement	SCADA System:For the present scope of work, RTU are not envisaged and the Data for SCADA purpose shall be obtained from the Substation Automation System (based on IEC 61850) using Gateway port with communication protocol IEC 101/104 as per requirement being provided at two substations (i.e. Matatirtha & Marsyangdi) under present contract....	IEC 104 Protocol, We shall provide data from SCADA Gateway on IEC104 Protocol and IEC101 Protocol is not considered	protocol. However, spare IEC 101 port shall also be provided at Gateway.
153.	Volume-III, BOQ: Extension of 220/132/33kV Marsyangdi Substation (220 kV GIS & 132 kV AIS)	Bus Bar Protection Panel (augmentation for 2 ICT bays): For 132 kV system, upgradation of existing busbar protection of M/s ABB Make, (Model: REL670 Bus differential relay) is required for 132 kV bays under present scope.	Please confirm existing Busbar Protection has necessary slot provision to integrate the 2 Bays which is offered in the present scope.	Bidder shall quote meeting requirement of technical specification & BPS.
154.	Volume-II A Chapter-1 Clause 2.1.1 & 2.2.2 Vol.III, Sch-1,S.No.I-	220 kV line bays: 4(Four) numbers of line bays for termination of (a) 2(Two) number of lines i.e. Marsyangdi (Marki Chowk)-Kathmandu 220kV Double circuit line and (b) 2(two)	Please confirm whether E1-FO Convertor are to be considered at all locations for SDH to DTPC (located in Switchyard panel room) interfacing i.e 220kV Matatirtha, Marsyangdi & Uper Trishuli 3 A. Also request NEA to provide distance of	Bidder may consider E1-FO Convertor for Matatirtha SS considering the distance of DPC (in SPR at switchyard) to the SDH equipment (located in communication room in CRB). Please refer to clarification at S. No. 119.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	A.H.a(i) &a(ii)	number of lines i.e. Upper Trishuli 3 A, Hydro-project 220kV double circuit lines. For 220kV D/C Lines, Digital Protection Coupler (2 Nos. at each end) shall be used for Teleprotection application. Each DPC shall be equipped with all accessories, cabling etc required to interface with SDH/MUX telecommunication terminal equipment located in the switchyard panel room required for its commissioning is in present scope of contract.	Switchyard panel room & Telecom room for consideration of FO cable length.	For Marsyangdi substation GIS panel room & CRB are very nearer to each other. Requirement of E1-FO converter shall be finalized during detailed engineering.
155.	Vol.III, Sch-1,S.No.I-A.H.d	4 wire telephone equipment-1 No.	No PLCC equipment is required to be offered as per BPS (Tender Price schedule). Also 4 Wire Telephone equipments for various make are proprietary in nature hence please provide make of PLCC equipment with which 4 w telephone equipment will be used.	No PLCC equipment is envisaged under present scope. However, Bidder shall quote against the line items given in the BPS. Also, Please refer to clarification at S. No. 119.
156.	Volume-II A Chapter-1 Clause 2.1.2 Vol.III, Sch-	220 kV line bays: 8(Eight) numbers of line bays. H. Teleprotection and Communication Equipments	We understand Digital protection Couplers are to be provided for these lines & its connected remote ends. Please provide details of considered Digital protection	Bidder shall quote as per BPS and technical specification requirement.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	1,S.No.I-B.H.a(i) &a(ii)	h.i. Digital protection Coupler-6 Nos. h.ii. Digital protection Coupler for remote end-4 Nos.	coupler quantities & remote end details. Please confirm whether E1-FO Converter are to be considered at all locations for SDH to DTPC (located in Switchyard panel room) interfacing at Marsyangdi & remote ends. Also request NEA to provide distance of Switchyard panel room & Telecom room for consideration of FO cable length.	Bidder may consider E1-FO Converter for Matatirtha SS considering the distance of DPC (in SPR at switchyard) to the SDH equipment (located in communication room in CRB). For Marsyangdi substation GIS panel room & CRB are very nearer to each other. Requirement of E1-FO converter shall be finalized during detailed engineering.
157.	Vol. III, Sch-4.c, S.No. A.iii Vol.II-A, Cl.11.19	iii) Telecommunication Equipment (SDH,MUX & NMS (Craft Terminal)) and PLCC for 3 nos. of Trainees for 7 days. Training at Manufacturer's works. The Contractor shall include in the training charges (i) Accommodation charges (ii) payment of per Diem allowance to NEA trainees @ USD 150 per day per trainee for the duration of training abroad towards meals and other incidental expenses and (iii) to and fro economy class air ticket from Nepal to place of training.	We understand lodging, boarding, travel charges for training at manufacturers works will be borne by NEA. Bidder has to consider per-diem allowances of 150 USD per trainee for training period (7days) & no allowance will be considered for days on account of travelling.	Bidder shall quote meeting requirement of PSR of Vol IIA and BPS. Please refer to clarification at s. No. 122.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
158.	Vol-III, Sch-4.d.1 & d.2 Vo.II.B Cl.5.4.2	Maintenance Charges for Communication Equipments including SDH & MUX. for One (1) year during Warranty period- 1 Years Maintenance Charges for Communication Equipments including SDH & MUX. for Six (6) years after Warranty period-6 Years 5.4.2 Contractor's Maintenance Responsibility The Contractor shall be responsible for carrying out "Comprehensive Maintenance" of the Communication System for a period of six years after warranty period for ensuring the successful operation of the system. The Contractor shall be responsible for achieving the system availability and the response time mentioned in technical specifications. The bidder shall quote the Annual Maintenance Charges for six years after Warranty Period	We understand bidder scope is to ensure availability of deployed communication system & no engineer resource deployment is required to be considered. Only comprehensive maintenance is in scope of bidder, bidder will provide required technical support to NEA for fault rectification & replacement of faulty cards.	Please refer our clarification at S.No. 123.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		which shall be considered in the bid evaluation.		
159.	Volume-II, 2.2.1 (iii - Civil Works) New 220kV AIS type (Air Insulated Substation) and extension 132 kV AIS substation at Matatirtha (Kathmandu)	Balance work of Foundation for all the remaining Gantry Structures/Towers & LM Towers including strengthening of already executed foundations of Gantry Structures/Towers & LM Towers, if required. Contractor shall study and reexamine already executed foundations of Gantry Towers & LM Towers during detail engineering and re-strengthen if required	We understand that Bidder's to verify design stability of all executed foundations such as gantry structures, towers, LM structures etc . If required re-strengthening to be done.	Yes, your understanding is correct.
160.	Volume-II, 2.2.1 (iii - Civil Works) New 220kV AIS type (Air Insulated Substation) and extension 132 kV AIS substation at Matatirtha (Kathmandu)	Assessment of rebars of all executed work of Gantry Structures/Towers & LM Towers, Transformer Firewall, Township quarters (B & C type), Control building, Fire fighting water tank and main drain (nala) diversion work shall be carried with standard quality test procedure and remedial or re-correction measures shall be taken for defective results before start of	We understand that Bidder's to assess rebar for already executed civil works foundations, firewall, Township quarters (B&C), control room building, FFPH tank and main drain (nala) as per Standard quality test procedure. Provide FQP/Standard test procedure document.	This will be as per relevant IS standard, the contractor has to prepare FQP/test procedure for approval of employer. The finalized FQP/STP will be prepared after award of contract.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		construction work. Cost of all tests shall be borne by contractor and payment of remedial action if taken will be of same as in of respective item of price schedule.		
161.	Volume-II, 2.2.1 (iii - Civil Works) New 220kV AIS type (Air Insulated Substation) and extension 132 kV AIS substation at Matatirtha (Kathmandu)	Control Room Building and Switchyard panel room and Firefighting pump house architectural elevation shall match the local (Nepali/Newari) outlook. Employer (NEA) shall supply approved drawings Control room building and Switchyard panel room and Fire fighting pump house for construction. If required Contractor shall engage a local reputed consultant for additional architectural aspects (if required), having at least five year experience of designing of buildings with local (Nepal/Newari) outlook and preferably registered with Nepal Engineering Council (NEC)	We understand that arhcitecture drawing /elevation draiwng for control room building, swithcyard panel room, FFPH pump house are already approved and bidder's to follow same.	Since the Outlooks of building structures shall have to be prepared by the Contractor and get approval from Employer before construction, previous elevation drawings are not relevant. Please refer the Chapter-1. PSR 2.2.1 (iii) and 2.2.2 (iii) of VOLUME –IIA OF III and Chapter-14. Civil works of TS of VOLUME – IIB OF III.
162.	Volume-II, 2.2.1 (iii -	Similarly, Non structural exterior elements /	We understand that arhcitecture drawing /elevation drawing for Township quarters (B	Since the Outlooks of building structures shall have to be prepared by

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Civil Works) New 220kV AIS type (Air Insulated Substation) and extension 132 kV AIS substation at Matatirtha (Kathmandu)	architectural elevation of Township quarters (B type and C type quarters) shall be of Nepali cultural looks. Employer shall supply approved structural and other drawings to the Contractor. Based on the drawings Contractor shall redesign the outer elevation of Township quarters to Nepali architectural look and should be approved before construction	and C type) are already approved and bidder's to follow same	the Contractor and get approval from Employer before construction, previous elevation drawings are not relevant. Please refer the Chapter-1. PSR 2.2.1(iii) and 2.2.2(iii) of VOLUME –IIA OF III and Chapter-14. Civil Works of TS of VOLUME – IIB OF III.
163.	Volume-II, 2.2.2 (iii - Civil Works) Construction of a new 220kV GIS (Gas Insulated Substation) type Substation and extension of 132 kV AIS substation at Marsyangdi	GIS Building for 220kV GIS. The size of 220kV GIS Building has been finalized as 40Mx11.5M to accommodate in the allocated space as shown in the already finalized substation Layout enclosed with the tender drawing. EOT crane shall be provided in the 220kV GIS Building as per relevant section of technical specification. The AHU Room (size 6.6Mx4.6M) & Relay room (size 26.4Mx4.6M) shall be	Provide GA/architectural/elevation drawing for GIS Hall, Relay Panel Room and AHU room	Since the Outlooks and all structural design of GIS hall is under the scope of Contract and Contractor is required to prepare and get approval all drawings before construction. Please refer the Chapter-1. PSR 2.2.1(iii) and 2.2.2 (iii) of VOLUME –IIA OF III and Chapter-14 Civil works of TS of VOLUME –IIB OF III

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	(Markichowk)	provided adjacent to 220kV GIS Building.		
164.	Volume-II, 2.2.2 (iii - Civil Works) Construction of a new 220kV GIS (Gas Insulated Substation) type Substation and extension of 132 kV AIS substation at Marsyangdi (Markichowk)	Pre-Engineered Control room cum administrative building of size 30Mx11.5M to accommodate in the allocated space shown in the substation layout	Provide GA/architectural/elevation drawing for PEB control cum administrative building.	Since the Outlooks and all structural design of PEB control cum administrative building is under the scope of Contract and Contractor is required to prepare and get approval all before construction. Please refer the Chapter-1. PSR 2.2.2 (iii) of VOLUME –IIA OF III. also Chapter-14 Civil works of TS of VOLUME – IIB OF III
165.	Volume-II, 2.2.2 (iii - Civil Works) Construction of a new 220kV GIS (Gas Insulated Substation) type	Balance work of Foundation for all the remaining Gantry Structures/Towers & LM Towers including strengthening of already executed foundations of Gantry Structures/Towers & LM Towers, if required. Contractor shall study and re-examine already executed	We understand that Bidder's to verify design stability of all executed foundations such as gantry structures, towers, LM structures etc. If required re-strengthening to be done.	Yes, your understanding is correct.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Substation and extension of 132 kV AIS substation at Marsyangdi (Markichowk)	foundations of Gantry Towers & LM Towers during detail engineering and re-strengthen if required. Payment of re-strengthening work will be same as in of respective item of price schedule		
166.	Volume-II, 2.2.2 (iii - Civil Works) Construction of a new 220kV GIS (Gas Insulated Substation) type Substation and extension of 132 kV AIS substation at Marsyangdi (Markichowk)	Assessment of rebars of all executed work of Gantry Structures/Towers & LM Towers, Transformer Firewall, Township quarters (C and D type, transit camp), shall be carried with standard quality test procedure and remedial or re-correction measures shall be taken for defective results before start of construction work. Cost of all tests shall be borne by contractor and payment of remedial action if taken will be of same as in of respective item of price schedule	We understand that Bidder's to assess rebar for already executed civil works foundations, firewall, Township quarters (B&C), control room building, FFPH tank and main drain (nala) as per Standard quality test procedure. Provide FQP/Standard test procedure document	This will be as per relevant IS standard, the contractor has to prepare FQP/test procedure for approval of employer. The finalized FQP/STP will be prepared after award of contract.
167.	Volume-II, 2.2.2 (iii - Civil Works) Construction	Balanced work of Building for fire fighting pump house and fire water tank, Underground water tanks,	We understand that all civil drawings for FFPH ,fire water tank, underground water tank, car parking shed transit camp and	Since the Outlooks of building structures shall have to be prepared by the Contractor and get approval from Employer before construction,

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	<p>of a new 220kV GIS (Gas Insulated Substation) type Substation and extension of 132 kV AIS substation at Marsyangdi (Markichowk)</p>	<p>Car parking sheds, Transit camp & residential quarters</p>	<p>residential quarters are already approved and bidder's to follow same</p>	<p>previous elevation drawings are not relevant. Please refer the Chapter-1. PSR 2.2.1(iii) and 2.2.2(iii) of VOLUME –IIA OF III, Chapter-14 Civil works of TS of VOLUME –IIB OF III.</p>
168.	<p>Volume-II, 2.2.2 (iii - Civil Works) Construction of a new 220kV GIS (Gas Insulated Substation) type Substation and extension of 132 kV AIS substation at Marsyangdi</p>	<p>Non structural exterior elements / architectural elevation of Township quarters (B type and C type quarters), fire fighting pumphouse shall be of Nepali cultural looks. Employer shall supply approved structural and other drawings to the Contractor. Based on the drawings Contractor shall redesign the outer elevation of Township quarters to Nepali architectural look and should</p>	<p>We understand that arhcitecture drawing/elevation drawing for Township quarters (B and C type), FFPH are already approved and bidder's to follow same</p>	<p>Since the Outlooks of building structures shall have to be prepared by the Contractor and get approval from Employer before construction, previous elevation drawings are not relevant. Please refer the Chapter-1. PSR 2.2.1 and 2.2.2 (iii) of VOLUME –IIA OF III, Chapter-14 Civil Works of TS of VOLUME –IIB OF III.</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	(Markichowk)	be approved before construction		
169.	Volume-II, 2.3	The complete design (unless specified otherwise in specification elsewhere) and detailed engineering shall be done by the Contractor based on conceptual tender drawings. Drawings for civil works enclosed with tender drawings are for information only. However civil drawings shall be developed by the contractor as per his design	Please elaborate this point	All completed drawing shall be handed over to successful bidder after Contract and remaining drawings which are yet to be developed (civil and electrical) shall be under the scope of the contractor. Among the supplied drawings from employer if the contractor wishes to do any modification shall be done at detailed engineering after approval from employer/consultant.
170.	Volume-II, 11.3	Major structural & architectural design & drawings of control room building, Fire Fighting Pump house & Fire water tank, Switchyard Panel Rooms, Township Quarters, Store Room and car parking shed for Matatirtha substation are already finalized and the same shall be utilized for construction under present scope. However, minor design/drawing works like small RCC structures for Cable Trench shaft/crossing	We understand that major civil/architecture drawings for control room , FFPH, fire water tank, switchyard panel room, township quarters, store room and car parking shed for Matatirtha substation are already approved and bidder's to follow same	Since the Outlooks of building structures shall have to be prepared by the Contractor and get approval from Employer before construction, previous elevation drawings are not relevant and design of store and parking shed is yet to be finalized before construction. Please refer to the Please refer the Chapter-1. PSR 2.2.1 of Vol IIA and Chapter-14 Civil Works of TS of VOLUME –IIB OF III.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		<p>or other miscellaneous left over building members/plumbing etc, if required, for the above said buildings shall be developed by the contractor. Architectural Layout drawing of the above said buildings are enclosed at Annexure-I and the remaining drawing/documents shall be provided to the Contractor during detailed engineering.</p>		
171.	Volume-II, 11.4	<p>Major structural & architectural design & drawings of Township Quarters, Fire Fighting Pump house & Fire water tank, Transit camp, Store Room and car parking shed for Marsyangdi substation are already finalized and the same shall be utilized for construction under present scope. However, minor design/drawing works like small RCC structures for Cable Trench shaft/crossing or other miscellaneous left over building</p>	<p>We understand that major civil/architecture drawings for FFPH, fire water tank, , township quarters, store room and car parking shed for Marsyangdi substation are already approved and bidder's to follow same</p>	<p>Since the Outlooks of building structures shall have to be prepared by the Contractor and get approval from Employer before construction, previous elevation drawings are not relevant and design of store and parking shed is yet to be finalized before construction. Please refer to the Please refer the Chapter-1. PSR 2.2.2 of Vol IIA and Chapter-14 Civil Works of TS of VOLUME –IIB OF III.</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		<p>members/plumbing etc, if required, for the above said buildings shall be developed by the contractor. Architectural Layout drawing of the above said buildings are enclosed at Annexure-I and the remaining drawing/documents shall be provided to the Contractor during detailed engineering. Complete design & drawings for PreEngineered Buildings for GIS Hall including AHU/Panel room and control room buildings shall be in the scope of the contractor</p>		
172.	<p>Volume-II, CHAPTER 13 STRUCTURE E Design Criteria</p>	<p>All gantry structures shall be designed for the worst combination of dead loads, live loads, wind loads and Seismic forces as per relevant British standard Codes (BS Codes) / equivalent International Standards. (latest)</p>	<p>We understand that Bidder can use IS 802 part 1/sec 1 1995 for wind load calculation on switchyard structure. please confirm</p>	<p>The wind load calculation for switchyard gantry structures shall be done as per IS 875- Part-III.</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
173.	Volume-II, CHAPTER 13 STRUCTURE GALVANISING	All structural steel works (Gantry structures, Equipment support structures) and foundation bolts shall be galvanized after fabrication. The galvanization shall be done as per requirement relevant Indian Standard Code/British standard Codes (BS Codes) / equivalent International Standards.	We understand that galvanization thickness for switchyard structure shall be 610gm/sqm. Please confirm	Yes, your understanding is correct. Please refer chapter 12-(SE) 1.5.3 of VOLUME –IIB OF III
174.	Volume-II, CHAPTER 14 CIVIL WORKS DESIGN LOADS	Wind loads shall be calculated as per relevant British standard codes (BS Codes)/ equivalent International Standards. The Factors affecting the wind speed shall be taken based on the site conditions Earthquake loads shall be calculated as per relevant British standard codes (BS Codes)/ equivalent International Standards	We understand that bidder's can use IS 875 for wind load & IS 1893 for earthquake calculation for civil buildings/structures. Please confirm	Confirmed. The latest revision of IS-875 Part 3 & IS-1893 Part 1 shall be used for wind load and seismic load respectively. Shall have latest revision of code of practice as per relevant British standard Codes (BS Codes) / equivalent International Standards.
175.	Volume-III, Schedule No. 4 : Installation	PART-C: Civil Works (As per technical specification) FOR Design, Supply, Installation and	We understand that civil quantities mentioned in BOQ are for left out civil works for Matatirtha substation	Yes, your understanding is correct. Schedule 4 (a) I-A is left out work for Matatirtha substation.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	and Other Services	Commissioning of 220 kV AIS Substation at Matatirtha,		
176.	Volume-III, Schedule No. 4 : Installation and Other Services	PART-C: Civil Works (As per technical specification) FOR Design, Supply, Installation and Commissioning of 220 kV GIS Substation at Markichowk, Marsyangdi	We understand that civil quantities mentioned in BOQ are for left out civil works for Marsyangdi substation	Yes, your understanding is correct. Schedule 4 (a) I-B is left out work for Marsyangdi substation.
177.	Volume-II, List of Drawings - Annexure -I	Switchyard structures drawings for Gantry, equipment support structures	Please clarify, bidder's to follow available structure drawings for fabrications or need to develop own design for switchyard structures.	Please follow Volume-IIA, Chapter-1, PSR of Vol. IIA of III.
178.	General	Civil works Drawings	Please clarify, bidder's to follow available approved civil drawings or develop own design, drawings.	Please follow Volume-IIA, Chapter-1, PSR of Vol. IIA of III.
179.	General	Civil and structure Works	We understand that bidders are not accountable/responsible for design stability of existing available civil documents/ already constructed facilities .	In case of gantry and equipment support, structure load is revised, then the bidder shall check the stability of existing civil designed/already constructed facilities. If required necessary modification in foundation shall be in the scope of successful bidder. For other structures where there is no change in loads, the bidder shall not have to check stability.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
180.	General	Civil and structure Works	Responsibility of existing civil work shall be of NEA & GE shall not be responsible for any defect of existing work / quality etc.	Please refer our clarification at S. No. 179.
181.	General	Approach road	Kindly confirm about the condition of approach road upto the sub-stations.	The approach roads are good and operational.
182.	General	Civil work	We propose to limit the civil work upto the sub-station only i.e exclusion of Township , Transit Camp , Car parking etc.	No exclusion of civil work. All civil works are within a complete package of substation. This shall be as per Bid document.
183.	Volume-II, Chapter 1 PSR : clause 11.0 Specific Requirement		<p>a. Testing of free issue material for health condition assessment shall be done by contractor in the presence of OEM/ NEA & reports shall be shared to NEA. Any abnormalities shall be attended by NEA / OEM. (In that case any delay due to this shall not be accounted in GE part)</p> <p>b. It is deemed understood that all free issue materials/ equipments have been presevered / stored as per OEM recommendations , any malfunctioning / damage due to deviation of preservation / storage shall be entirely attributable to NEA.</p> <p>c. We propose the supervision of Owner supplied equipment for installation will be in NEA scope.</p> <p>d. All necessary drawing & documents & additional support required from OEM for</p>	<p>a. This shall be as per Bid document. Please also follow clarification at S.N. 8 and 13.</p> <p>b. This shall be as per Bid document.</p> <p>c. This shall be as per Bid document. Please follow clarification provided in S.N 8 and 13.</p> <p>d. This shall be as per Bid document. NEA shall provide additional support to get help from OEM.</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			<p>installation will be furnish by NEA including approved drawings.</p> <p>e. All special tools required for installation of GIS will be arrange by NEA</p> <p>f. Please furnish the list of general tools required for installation of GIS</p> <p>g. We will provide guarantee for the equipments to be supplied as per scope under this package only (Not for NEA free issue items) and for NEA free issue material /equipments our work is limited to installation & commissioning of the equipment.</p> <p>h. All consumables required for commissioning shall be in NEA.</p> <p>i. We propose bidder scope should be limited to substation/switchyard</p>	<p>e. This is under Bidder's scope and shall be as per Bid document.</p> <p>f. This is under the Bidder's scope.</p> <p>g. For owner supplied items the bidder will do the installation and commissioning and shall guarantee for the installation and commissioning. For all other items under the scope of supply of bidders they shall provide guarantee for complete work including manufacture, supply and delivery and installation & commisioning.</p> <p>h. This is under Bidder's scope.</p> <p>i. This is as per Bidding document.</p>
184.	Volume-II, Annexure-XI, LIST OF OWNER SUPPLIED ITEMS		<p>a. Supervision services from OEM for free issue material for reconsolidation / verification of Free issue material shall be arranged by NEA & Packing list of the free issue material shall be provided by NEA.</p> <p>b. Any short supply /missing items / transit damage material / damage of material due to site handing (free issue material) shall be arranged by NEA & any delay on account of that shall be in NEA end.</p> <p>c. Warranty of all the free issue material shall be in NEA scope.</p>	<p>a.This is under Bidder's scope. Also follow clarification provided on S.N. 8 and 13. Packing list shall be provided after contract award.</p> <p>b. Please follow the clarification provided on S.N. 8 and 13</p> <p>c. Please also follow S.N. 183(g)</p> <p>d. Please follow S. N. 8, 13 and S.N. 183(g).</p> <p>e. Confirmed after OEM recommendation.</p> <p>f. This is in Bidder's Scope.</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			<p>d. Any abnormalities in free issue material shall be attended by NEA / OEM. (In that case any delay due to this shall not be accounted in GE part)</p> <p>e. Any wrong supplies - Shall be completely attributed to NEA.</p> <p>f. Any local shighting of free issue material from one site to another shall be under the cost & risk of NEA</p> <p>g. It is deemed understood that all free issue materials/ equipments have been presevered / stored as per OEM recommendations , any malfunctioning / damage due to deviation of preservation / storage shall be entirely attributable to NEA.</p>	<p>g. Please follow the clarification provided on S.N. 8 and 13.</p>
185.	Volume-III of III, Page 25 of 81, Clause F, Item 2, Time Synchronizati on Equipment	Station Bus Earthing –Zig Zag Transformer or Transformer Neutral Earthing to provide reference point for synchronization	Confirm if required	Bidder's question is not clear. Bidder is required to quote meeting requirement of technical specification and BPS.
186.	Volume-III of III, Page 6 of 81, Clause L, Diesel Generator	Auto Mains Fail and Auto Load Transfer Panel	Confirm if required	Bidder is required to quote meeting requirement of technical specification and BPS.
187.	Volume-III of III, Page 6 of 81, Clause M,	Fire Pump to protect the Cables and Transformer Deluge	Confirm if required	Bidder is required to quote meeting requirement of technical specification and BPS.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
	Fire Protection			
188.	Extension of 220kV GIS and 132kV AIS Page 13/81	245kV Equipment SF6 Gas Pressure Sensors and SF6 Gas Density Monitors	Confirm if required	Bidder is required to quote meeting requirement of technical specification and BPS.
189.		Qualification Documents	If the equipments we are going to supply are of the same manufacturer as you supplied, can we not provide the manufacturer's qualification documents.	For same make, model and country of origin and factory, the qualification documents and type test report should be valid as per Section-3: Qualification and Evaluation Criteria Volume-I of Bid document.
190.		Liabilities on Owner Supplied Items	Can the Contractor be exempted of liability due to the quality problem of the equipments supplied by the owner leading to the delay in construction progress and unqualified operating performance of the substation?	Please refer our Clarification on S.No. 8, 13 and 184.
191.		List of Owner Supplied Items	<p>a) According to List of Owner Supplied Items I-A, C, 1.3, the description states "72.5KV 1250A 31.5KA with 120% extend rating CT". Is the data of "1250A" correct? We think it should be 33KV/ 50/1A.</p> <p>b) According to List of Owner Supplied Items: I-B, D, 1.3, the description states "72.5KV 1250A 31.5KA with 120% extend rating CT". Is the data of "1250A" correct? We think it should be 33KV/ 50/1A.</p>	The voltage 72.5kV is correct, however it is operated in 33kV. There is a typographical error. The correct rating is 72.5kV/50/1A, 31.5kA with 120% extended rating.
192.		List of Preferred Shortlisted Make	Concerning "ANNEXURE- III LIST OF PREFERRED SHORTLISTED MAKE", can	Manufacturers shall be reputed brand as mentioned in Annexure-III and

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			we be informed of the equivalent quality brands? What specific detailed materials should we provide for review? Is there any reference documents?	should have qualification criteria as per Section-3: Qualification and Evaluation Criteria Volume-I of Bid document.
193.		Project Specification Requirement	Concerning "CHAPTER 1- Project Specification Requirement 11.14 Augmentation and integration work related to SCADA System, the above activities shall be carried out as appropriate, in all of the 2 stations viz. The manufacturers of the existing SCADA system are:- LDC facilities: Siemens Germany", is Siemens Germany assigned as the SCADA System for the substation or the information in the substations shall be uploaded to Siemens SCADA system in the medium dispatch center via the communication closet. What brand is the current communication closet?	Complete Substation Automation System (SAS) shall be provided for Matatirtha (Kathmandu) and Marsyangdi (Markichowk) substations under present scope. Siemens, Germany is the manufacturer of existing SCADA at Nepal Electricity Authority Load Dispatch Centre (located in Siuchatar, Kathmandu). The required data from Matatirtha and Marsyangdi substations shall be integrated with existing SCADA at NEA LDC at Siuchatar.
194.		220KV AIS & 132KV Substation	<p>a) Concerning 220KV AIS & 132KV Substation, what is model of protection facilities from Party TRISTHULI?</p> <p>b) Concerning 220KV GIS & 132KV Substation, what are the current model of protection facility of BHARATPUR station and UDIPUR station?</p>	<p>a) The existing protection relay panel of 132kV in Matatirtha substation will not be used in the current scope. The line bays used earlier shall be used for 132kV side of 220/132kV transformer. Hence the new protection panel for ICT is in this contract hence new protection panel for AIS shall be in the bidders scope.</p> <p>b) UDIPUR and BHARATPUR substation protection relay facilities are yet to be approved for the new</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
				substations under different contract package. For current differential protection, please refer clarification at S. No. 134 & 144 above.
195.		Line Diagrams : A) 220KV AIS & 132KV Substation	<p>a) On page 40 of the 426-page document, the 220kV main bus of section I and II are shown as overhead 4-split flexible wire, but wire type and specification are unmarked. (Is it AAC pure aluminum or ACSR steel core aluminum stranded wire? What is the cross-sectional area of the single core wire?) Please see single-line diagram 1 in Attachment.</p> <p>b) On page 40 of the 426-page document, the 220kV bypass main bus are shown as overhead 2-split flexible wire, but wire type and specification are unmarked. (Is it AAC pure aluminum or ACSR steel core aluminum stranded wire? What is the cross-sectional area of the single core wire?) Please see single-line diagram 1 in Attachment.</p> <p>c) On page 40 of the 426-page document, is the female overhead flexible wire 4-split or 2-split? Can we be informed the wire type and specification? (Is it AAC pure aluminum or ACSR steel core aluminum stranded wire?)</p>	<p>a) 220kV Main Bus-1&2 are envisaged with Quad Moose ACSR. Details of ACSR Moose shall be as per requirement of technical specification.</p> <p>b) 220kV Transfer Bus is envisaged with Twin Moose ACSR. Details of ACSR Moose shall be as per requirement of technical specification.</p> <p>c) 220kV Jack Bus for Bus coupler bay is envisaged with Quad Moose ACSR and that of other bay is Twin Moose ACSR. Details of ACSR Moose shall be as per requirement of technical specification.</p> <p>d) 220kV Marsyangdi D/c Line is envisaged with Twin Moose ACSR. Details of transmission Line conductor shall be provided to the</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

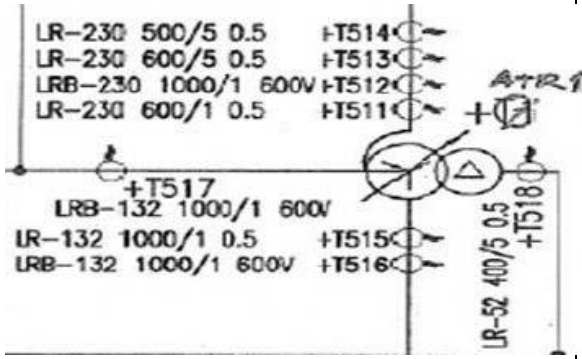
ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			<p>What is the cross-sectional area of the single core wire?) Please see single-line diagram 1 in Attachment.</p> <p>d) On page 40 of the 426-page document, Line 1 and Line 2 of the 220kV MARSYANGDI Line are shown as overhead 2-split flexible wire, but wire type and specification are unmarked. (Is it AAC pure aluminum or ACSR steel core aluminum stranded wire? What is the cross-sectional area of the single core wire?) Please see single-line diagram 1 in Attachment.</p> <p>e) On page 40 of the 426-page document, the 220kV transformer HV side is indicated with $\text{C} 100$ tubular buses+2(MOOSE), but wire type and specification are unmarked.) Please see single-line diagram 1 in Attachment.</p> <p>f) On page 43 of the 426-page document, is the cross-road section at the circuit breaker of the connection of tubular buses? Are the wires between other equipments flexible wires? The wire type and specification are unmarked. (Is it AAC pure aluminum or ACSR steel core aluminum stranded wire? What is the cross-sectional area of the</p>	<p>successful bidder in the event of award.</p> <p>e) 220kV Transformer HV side overhead conductor and tube bus are envisaged with Twin Moose ACSR and 4" IPS Aluminium tube respectively. Details of ACSR Moose & 4" IPS Aluminium tube shall be as per requirement of technical specification.</p> <p>f) Substation Layout & SLD are enclosed with the bidding documents. Further detailed shall be provided to the successful bidder in the event of award.</p> <p>g) Please follow the clarification provided on S. No. 18. Bidder shall quote meeting requirement of technical specification and BPS.</p> <p>h) This is rail cum Contrete road for shifting and installation of transformers. Bidder shall quote meeting requirement of technical specification and BPS.</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			<p>single core wire?) Please see layout plan diagram in Attachment.</p> <p>g) On page 40 of the 426-page document, 72.5KV bus (actual voltage 33KV) is section 2 and it is indicated that there are 2 groups*3=6 units of 33KV voltage transformer. But only 1 group *3=3 sets is shown in the equipment list, is it in the scope of supply of the bidder?</p> <p>h) On page 43 of the 426-page document, two transformer tracks are laid on the high-voltage side of the transformer. What are the track model specifications and scope of supply (same for GIS stations). Please see layout plan diagram in Attachment.</p> <p>i) On page 40 of the 426-page document, the number of equipment in the system diagram is not the same as the number of the bidding documents. Is the equipment with a large number of bidding documents used for the interval between the stations on the opposite side of the line (12 more lightning arresters)?</p> <p>j) The transformer (high, medium, and low voltage coil outlet) supplied by Party A has its own CT inside. (CT parameters are</p>	<p>i)Bidder shall quote meeting requirement of technical specification and BPS. Please also follow clarification provided on S.No. 59, 60, 61.</p> <p>j) Yes, the Bushing CT parameters indicated in the drawing are matching with the Bushing CT of the supplied transformer. Bidder shall quote meeting requirement of technical specification and BPS.</p>

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			<p>shown in the figure below). The GIS station is the same. Is the purchased transformer with CT?</p> 	

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
196.		Line Diagrams : B) 220KV GIS & 132KV Substation	<p>a) On page 89 of the 426-page document, the conductor of section II busbar is shown as Φ 100 aluminum tube in this phase. It is confirmed that the conductor of section I.II of the original station is also Φ 100 aluminum tube. Are they with same elevation?</p> <p>b) On page 86 of the 426-page document, the number of equipments in the system diagram list does not match the number of that in the bidding documents. Are the equipments with a large number in the bidding documents used for long-term backup intervals. The number of insulators is too small.</p>	<p>a) Substation Layout & SLD are enclosed with the bidding documents. Further detailed shall be provided to the successful bidder in the event of award.</p> <p>b) Substation Layout & SLD for Marsyangdi GIS substation are enclosed with the bidding documents. Additional 3 nos. 220/132kV Auto Transformers and associated bay equipments (except 220kV GIS bay module & bus ducts which are owner supplied items only) shall be supplied by the contractor under present scope. Modification of the layout on account of the above change shall be carried out by the contractor. Further detailed shall be provided to the successful bidder in the event of award. Please also follow clarification provided on S.No. 59, 60, 61.</p>
197.		Geological Ratios	<p>a) The peak ground acceleration ratio is 0.5g in geological report and 0.36g in technical specifications. Please suggest which one shall prevail? 0.36g seems to be a more reasonable ratio for peak ground acceleration ratio.</p>	<p>a) The peak ground acceleration and relative humidity shall be as per Volume-IIA, Chapter-1: PSR.</p>

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			b) The relative humidity is 100% in geological report and 90% in technical specifications. Please suggest which one shall prevail?	b) Please refer to the Volume-IIA, Chapter-1: PSR.
198.		Payment Terms	<p>According to Contract forms, Appendix 1, (A) Terms of Payment, Schedule No. 1, process payment's description and number doesn't match. Please suggest which one shall prevail.</p> <p>Ten percent (10%) of the total CIP 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 Employer. The advance payment security may be reduced in proportion to the value of the plant and mandatory spare parts delivered to the site, as evidenced by delivery documents.</p> <p>Eighty percent (75%) of the total or pro rata CIP or amount upon Incoterm "CIP," upon delivery to the site within 45 days after receipt of invoice.</p> <p>Five percent (10%) of the total or pro rata CIP or amount upon issue of the Completion Certificate, within 45 days after receipt of invoice.</p> <p>Five percent (5%) of the total or pro rata CIP or amount upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice.</p>	Please refer our clarification S.No. 16.
199.	Vol-III, I-B Extension of Marsyangdi Substation (220 kV GIS & 132 kV AIS)	Line Protection Panel 6 sets	Line bay main I protection and main II protection put in one panel or two panel? Whether 220kV GIS have two spare lines, do not equipped with line protection, only with circuit breaker protection and BCU?	Please refer our clarification S.No. 53. Main-I & Main-II protection relays shall be put in separate protection panels. Complete CRP & SAS shall be provided for the 220kV spare lines also.
200.	Vol-III, I-B Extension of Marsyangdi Substation (220 kV GIS & 132 kV AIS)	Current Differential Relay for other end of line 4 Nos	<p>a) what's this mean? Main-I Protection is distance Protection, Main-II Protection is Line current differential protection. I think it already contains in item b.</p> <p>b) Do 220kV buscoupler need protections ? These are not included in VOL III Bidding Equipment list.</p>	<p>a) Please refer our clarification S.No. 54.</p> <p>b) Please refer our clarification S.No. 55.</p>

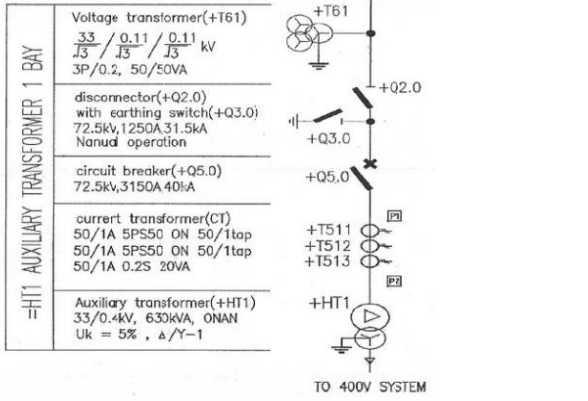
CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
201.	Vol-III, I-B Extension of Marsyangdi Substation (220 kV GIS & 132 kV AIS)	220kV Bus Bar Protection Panel 1 set	a) Bus Bar main I protection and main II protection put in one panel or two panel? b) Do 132kV system current period have two bays or one? The bidding drawing is inconsistent with the BQS.	a)Please refer our clarification S.No. 56. b)Please refer our clarification S.No. 57 and 38.
202.	Vol-III, I-B Extension of Marsyangdi Substation (220 kV GIS & 132 kV AIS)	SUBSTATION AUTOMATION"33kV system 3 bays	According to the single line of the bidding documents 33kV is 5 bays. And the expansion of the new auxiliary station transformer, did not see the protection measure and BCU device in BQS.	Please refer our clarification S.No. 58. Please also refer clarification at S. Nos. 32 & 57 above.
203.	Vol-III, I-B Extension of Marsyangdi Substation (220 kV GIS & 132 kV AIS)		a) The disconnecter(+Q2.5) (145kV,1600A, 40KA) is included in the single line diagram but not shown in the plan. b) Where is 33kV Current transformer (NCT) for autotrasnformer used? c) Is transformer oil filtration plant a common set for four transformers or one set for each transformer. d) 216kV surge arrester (1-Phase) was verified to be 28 Nos.,Is it accurate compared with 31 Nos.?	a) Please refer our clarification S.No. 62. d)Please refer our clarification S.No. 63. c) Please refer our clarification S.No. 64. d)Please refer our clarification S.No. 65.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification																																			
			<p>e) 120 kV Surge Arrestors (1- Phase) was verified to be 4 Nos.,Is it accurate compared with 7 Nos.?</p> <p>f) The equipment configuration shown is inconsistent, which one shall prevail?</p> <table border="1" data-bbox="898 560 1474 816"> <tr> <td>6.0</td> <td>72.5KV EQUIPMENT</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.1</td> <td>72.5 kV EPT (1-phase)</td> <td></td> <td>Nos.</td> <td>3</td> </tr> <tr> <td>7</td> <td>33kV Equipments</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.1</td> <td>33 kV, 630A Isolators with out earth switch (3-phase, DER type)</td> <td></td> <td>No.</td> <td>1</td> </tr> <tr> <td>1.2</td> <td>30 kV Surge Arrestors (1-phase)</td> <td></td> <td>Nos.</td> <td>3</td> </tr> <tr> <td>1.3</td> <td>36 kV EPT</td> <td></td> <td>Nos.</td> <td>3</td> </tr> <tr> <td>1.4</td> <td>36 kV HG Fuse along with support insulator (1-phase)</td> <td></td> <td>Nos.</td> <td>3</td> </tr> </table> 	6.0	72.5KV EQUIPMENT				1.1	72.5 kV EPT (1-phase)		Nos.	3	7	33kV Equipments				1.1	33 kV, 630A Isolators with out earth switch (3-phase, DER type)		No.	1	1.2	30 kV Surge Arrestors (1-phase)		Nos.	3	1.3	36 kV EPT		Nos.	3	1.4	36 kV HG Fuse along with support insulator (1-phase)		Nos.	3	<p>e)Please refer our clarification S.No. 66.</p> <p>f)Please refer our clarification S.No. 67.</p>
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204.	Vol-III, I-A, Page-4: Extension of 220/132/33 kV Matatirtha Substation	Line Protection Panel (Matatirtha -Marsyangdi) 2 sets ;Line Protection Panel (Matatirtha –Trishuli) 2 sets	Line bay main I protection and main II protection put in one panel or two panel?	Please refer our clarification S.No. 45.																																			

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
205.	Vol-III, I-A, Page-4: Extension of 220/132/33 kV Matatirtha Substation	d:Current Differential Relay for other end of line (Upper Trishuli 3A Line)2 sets	a) what's this mean? Main-I Protection is distance Protection,Main-II Protection is Line current differential protection.I think it already contains in item b&c. b) Do 220kV buscouple and bypass busbar contact need protections ? These are not included in VOL III Bidding Equipment list.	a)Please refer our clarification S.No. 46. b)Please refer our clarification S.No. 47.
206.	Vol-III, I-A, Page-5: Extension of 220/132/33 kV Matatirtha Substation	“220kV Bus Bar Protection Panel 1 set”	Bus Bar main I protection and main II protection put in one panel or two panel?	Please refer our clarification S.No. 48.
207.	Vol-III, I-A, Page-5: Extension of 220/132/33 kV Matatirtha Substation	SUBSTATION AUTOMATION "220 kV system 10 bays”	There is no circuit breaker for 220kV busbar voltage transformer, so BCU is not needed. I think it should be 8 bays.	Please refer our clarification S.No. 49.
208.	Vol-III, I-A, Page-5: Extension of 220/132/33 kV Matatirtha Substation	SUBSTATION AUTOMATION "132 kV system 10 bays”	a) According to the main wiring of the bidding document 132kV is 11 bays. b) Does the expansion of the substation automation system require the station level equipments?	a)Please refer our clarification S.No. 23, 50. b)Please refer our clarification S.No. 52.
209.			The release condition of performance guarantee. Could you please specify in what	This shall be as per Volume-I, Section-7, General Condition of Contract and Section-8 SCC.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
			condition the performance guarantee will be released?	
210.			Some equipment will be supplied by employer, such as power transformer, primary equipment. How to divide the liability of defect liability, performance guarantees, and test and inspection of this portion?	This shall be as per Volume-I, Section-7, General Condition of Contract and Section-8 SCC No. 27. The extended guarantee are only valid for the supplied and installation under this contract as mentioned in SCC 27.
211.	Vol-III, I-A, Extension of 220/132/33 kV Matatirtha Substation		a) 216kV surge arrester (1-Phase) was verified to be 19 Nos.,Is it accurate compared with 31 Nos.? b) 245kV Bust Post Insulator (Except auxiliary buses of transformer) was verified to be 64 Nos.,Is it accurate compared with 70 Nos.? c) 72.5 kV BPI (1-phase) was verified to be 66 Nos., Is it accurate compared with 15 Nos.?	a) Please refer our clarification S.No. 59. b) Please refer our clarification S.No. 60. c) Please refer our clarification S.No. 61.
212.			According to the bidding document, there are a part of equipment supplied by the owner and a part of civil work is done. How can we assure the supplied equipment and civil works carried out are as per the quality standard requirement provided by the employer. Please clarify the accountability and the responsibility of defects and flaws.	Please refer our clarification S.No. 184.
213.		Fire Protection	Please clarify the quality and quantity of the water for fire protection and living. Whether the employer will provide the water and insure the quality	Water shall be supplied by employer through bore hole intended for firefighting water system and also for living. But if present supplied water is

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
				insufficient the contractor has to arrange himself for the additional water.
214.			Please clarify the emission standard of the industrial wastewater, sewage water and raining water	This is not relevant for this project.
215.		Communication System	Please clarify the work scope and interface condition of the telecom, internet and communication system	This shall be as per Bid document.
216.		Regarding of the manufacturer qualification part, the bidder have to provide the type test report which is issued by a reputed laboratory.	How to define the word "reputed"? Will the report issued by a Chinese qualified laboratory be permitted? For the equipment of owner supplied, will the bidder be responsible for the according type test report?	The laboratory should be approved National Accreditation Board of the country.
217.			Please clarify if the main equipment and the building needs piling?	It may require in the excavation of main drain and along the 220kV marsyangdi feeder cable duct room etc.
218.	In the price schedule Sch4(a), Extension of 220/132/33kV Matatirtha Substation,PA RT-C:	Civil Works (As per technical specification), Provisional Work states:"Providing sheet piling works with MS 100 mm dia @ 45cm c/c at vertical & MS 50mm dia @45 cm c/c horizontal, MS plate of required thickness not less than 4mm thick for safe retention of earth and other structures, side	What's the sheet piling work used for and where to install?	Sheet pile is used as excavation support and for soil retention. It may require in the excavation of main drain, near the 220kV Marsyangdi line cable duct room etc.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
		protection, including anchorage all complete or alternative as per the site requirement. The process and method must be approved.”		
219.			In order to make accurate price, Please provide the detail requirements for furnishing if any on the staff quarters and camps. Is there any requirement fire protection system for the Protection relay room? Generally Protection rely room shall not use Water Firefighting System.	Please refer the Technical Specifications for Substation - Chapter-14 Civil works of VOLUME –IIB OF III.
220.			Is it possible to adopt Chinese Technical standard or other similar Technical Standard other than IEC for design work?	For electrical equipment, IEC standard shall be applicable.
221.			The employer shall be responsible for the validity and exactitude of the soil type and soil resistance report, please let the employer confirm so as to do the relevant work for liable reference.	The employer has already provided Soil Investigation Report.
222.			Please assure whether the vector group of a transformer of 220kv main transformer is correct. (It shall mention only N,O,D).	Confirmed and correct.
223.			Please confirm the model and manufacturer of the end-to-end protection device in the substation, especially the optical fiber differential protection.	This is in Bidder's Scope.
224.			Is the bid security shall be countered by local bank in Nepal? Can it be opened directly be opened from the banks here in China?	For bid security, counter guaranty from bank of Nepal is not required.

CLARIFICATION NO:-04 RESPONSE TO BID QUERIES

ICB-PMD-MKTLP-076/077-02

S. No.	Reference Section & Clause	Description in Bid Document	Bidder's Queries/Comments	NEA's Clarification
225.	Bid Document Volume I, Contract Agreement Appendix 8 - Functional Guarantees	Raw Materials and Utilities Consumption in Excess of Guaranteed Level Value of No Load Loss = US\$ 4684 per KW Value of Load Loss = US\$ 1180 per KW Loss associated with cooling fan load: US\$ 393 per kW	What is the meaning of "two times multiplied"? The guaranteed values or the payment for supply of transformer?	Please refer the clause which is self explanatory.
226.			Concerning about the VAT, we notice that in Contract Agreement the VAT for the supplies from abroad will be exempted. Will the VAT on the Contract be also exempted? If not, should our bid price include VAT? And whether the VAT will be on the total Contract value, or only on onshore part of the Contract? Please clarify.	Employer will receive the VAT exemption from the GoN under the equipment supplied in Schedule 1 only. The bidder is required to quote the price excluding custom duty and VAT. However, for other schedules of Volume-III (Price Schedule) 13% VAT is applicable.
227.			Please provide the specification guarantee of primary equipment.	Question is not clear.
228.			In the Bidding Form, Technical Proposal Plant section, what the bidder supposed to provide? Please clarify.	Here the plant refers to substations (AIS for Matatirtha and GIS for Marsyangdi)