Lekhnath Damauli 220 kV Transmission Line Project
Package B: Substations
BMZ201667773/KfW508598
List of Queries and Clarifications
Clarification № B_2
November 14, 2022

<table>
<tr><th>№</th><th>Reference</th><th>Query</th><th>Clarification</th></tr>
<tr><td colspan="4">Commercial Queries</td></tr>
<tr><td>1.</td><td>GC & PC 8.7</td><td>From the said clause, we understand 0.05% of the Contract Price per day of delay (with a maximum of 10% of Contract Value) shall be levied only on unexecuted portion of the contract price. Kindly confirm.</td><td>It will be levied on the complete contract price</td></tr>
<tr><td>2.</td><td>PC 13.8</td><td>As per the Adjustment table, the reference price for followign commodities for adjustment shall be:
Core Steel - LME CFR India
Copper - LME Cash
Construction Steel - LME CFR India

We wish to inform that the London Metal exchange does not publish any indices for Core Steel and Construction Steel on CFR India basis. For these two commodities</td><td>Please consider the following table for Section IX. “Particular Conditions (PC)”, Part A, Contract Data and Sub-clause 13.8.

<table><tr><th colspan="3">Table of adjustment data</th></tr><tr><th>Coefficient: Scope of Index</th><th>Source of Indices Used</th><th>Base Date Indices</th></tr><tr><td>a = 35%
(Fixed)</td><td></td><td></td></tr></table></td></tr>
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<table>
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<tr><td></td><td></td><td>we propose to use Indices as published by IEEMA.
These indicies are widely used and accepted by all transformer manufacturers.</td><td>
<table>
<tr><td>b = 25% (Core steel)</td><td>Grain Oriented Electrical Steel High Grade GOES T&D Europe (official rate)</td><td></td></tr>
<tr><td>c = 25% (Copper)</td><td>London Metal Exchange cash (official rate)</td><td></td></tr>
<tr><td>d = 15% (Construction steel)</td><td>LME Steel Scrap CFR India (Platts) CFR India (official rate)</td><td></td></tr>
</table>
</td></tr>
<tr><td>3.</td><td></td><td>Please provide acceptance of Indices of Country of origin. LME is not acceptable by OEMs for Steel etc. e.g. if bidder procure Transformer from India then "IEEMA Price Indices and variation formula is applicable.</td><td>Please see item 2 of this clarification.</td></tr>
<tr><td>4.</td><td>GC and PC 14.2</td><td>As per PC 14.2 - Currencies & Proportions: Advance payment will be made in USD only.

As we shall be quoting Schedules in USD & NPR, kindly confirm how the advance on NPR quoted portion will be calculated and paid</td><td>As stated in Section IX. “Particular Conditions (PC)”, Part A - Contract Data, Subclause 14.2, Total Advance Payment is 10% Percentage of the Accepted Contract Amount

Please read Clause 14.7 of Part B - Specific Provisions</td></tr>
</table>

№	Reference	Query	Clarification
			Further KfW shall disburse the Advance Payment for Price Schedule I and III in USD and the Advance Payment for Price Schedule II and IV shall paid by NEA in NPR
5.	GC & PC 14.6	As per clause - Minimum Amount of Interim Payment Certificates is 1% of the Contract Amount but not less than 100,000 USD - which is a considerable amount. To enable better financial management, we request that minimum amount of Interim Payment Certificates may be removed.	Please follow the requirement as mentioned in the Bidding Documents

№	Reference	Query	Clarification
6.	Nominated Subcontractor	The Employer intend to use a nominated Subcontractor for the following Part: "Integration of the 220kV extension in Lekhnath and the forthcoming 20/132/33/11kV New Damauli substation into the existing National Load Dispatch Center/Emergency Control Center (LDC /ECC) shall be included in the scope of deliverables and services provided by the Contractor of the Project. as described in PART II, Employer's Requirements, Section VII-1 Project Description and Scope of works." Therefore, for this specific part of work and services, the following subcontractor shall be considered by the Bidder in his Bid: • Original Manufacturer Load Dispatch Center, Siemens Ltd, India As there is only a single subcontractor nominated for this service, to ensure fairness we request you to share the rate contract finalized between nominated subcontractor M/s. Siemens and respective authority.	To ensure the legitimacy and fairness of the Bid Evaluation, special attention will be paid to this specific part of work and services during evaluation. These works are included in items 1.11.2 and 2.12.2 of Price Schedule I, II, III, IV, which are specifically dedicated to the interfacing with NLDC/ECC including all necessary cabling, cubicles, equipment and materials to complete the supply and the installation.

№	Reference	Query	Clarification
7.	PC 14.6 Taxation	We request you to confirm the applicable rate of TDS for all Schedules (Supplies, Erection ESMP) as per the law of Nepal on present day	As prevailing law of GoN
8.	Insurance	We understand that all the insurances mentioned in the tender clause can be purchased from any reputed Insurance company.Kindly Confirm.	All the insurances mentioned in the tender clause can be purchased from reputed Insurance companies.
9.	ITB 40.5	As per clause "If the Financial Bid, which results in the lowest Evaluated Financial Bid Price, is significantly lower than the Employer's estimate, the Employer shall require the Bidder to produce detailed price analyses for any or all items of the Schedules" We request you to confirm the estimate for this tender.	Estimate of the Bid price cannot be shared.
10.	PC 1.1.4.13	KfW Development Bank has given the grant of 19,000,000 EUR to Nepal Electricity Authority for Lekhnath Damauli 220 kV Transmission Line Project. We request you to confirm the	19,000,000 EUR has been allocated for Package B Substation

№	Reference	Query	Clarification
		amount allocated for Package B - Substation Package	
11.	ITB/BDS 2.1 and PC 1.1.4.13	As per documents, the source of fund is: 1) Grant from KfW for 19,000,000 Euro As per our initial estimations, this shall not be sufficient to complete the complete scope of works. We request you to clarify the sources for remaining portion of funding for the project. Kinldy also confirm the approximate proportion in which each source shall fund the project.	Portion of payments is stated in Clause 14.4 and Clause 14.7 of Part B - Specific Provisions
12.	General	We understand the land for construction is already acquired by NEA and NEA will provide contractor encumbrance free land during award of contract. Any disputes arising against land acquisition of land provided by NEA during construction of works	Confirmed

№	Reference	Query	Clarification
		will be taken care by NEA. Kindly confirm.	

№	Reference	Query	Clarification
13.	ITB 43 & BDS 28.3	As per ITB the "Subject to ITB 42.1, the Employer shall award the Contract to the Bidder whose combined Technical and Financial Bid has the highest score and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be eligible and qualified to perform the Contract satisfactorily" And as per BDS 28.3 Combined scoring system for technical and Financial Bids is not applicable We request you to clarify whether this contract will be award on bidder with lowest evaluated financial bid or if there is any other financial criteria which will be applicable for scoring Financial bids	The Technical and Commercial evaluation will be based on pass / fail criteria. No combined scoring system for the Technical and the Financial Bids to be used

№	Reference	Query	Clarification
14.	Section IV - Bidding Forms: Conformity of the Facilities Requirements	We request that subcontractors/Manufacturers who are approved in earlier projects of Nepal Electricity Authority for same Voltage Level may be accepted for the subject tender. For any subcontractor/Manufacturer not previously approved in NEA, conditions of conformity shall apply. Kindly confirm	The conformity of the proposed suppliers/manufacturers and subcontractors shall be established by reviewing all documentary evidence (such as reference lists, end-user certificates, type test reports, drawings, manufacturers' authorization forms etc.) submitted by the Bidder in accordance with Form - Plant & Conformity of Facilities.
15.	Section IV - Bidding Forms: Conformity of the Facilities Requirements (******)	For GIS manufacturers: "GIS manufacturer experience in foreign countries shall be more than 15 years. Evidence shall be provided"We request to retain the QR conditions of previous NEA 220kV GIS tenders which will maintain uniformity and give most competitive and proven solutions to NEA.	Please follow the requirement as mentioned in Bidding Documents
16.	Section IV - Bidding Forms: Conformity of the Facilities Requirements (*******)	For Protection & Control and Telecommunication Equipment manufacturers: "Protection & Control and Telecommunication Equipment manufacturer	See Comment above

№	Reference	Query	Clarification
		experience in foreign countries shall be more than 15 years. Evidence shall be provided" We request to retain the QR conditions of previous NEA 220kV GIS tenders which will maintain uniformity and give most competitive and proven solutions to NEA.	
17.	PC 2.2	Additional Clause- Permits and Approvals: We understand that NEA shall take all necessary construction licenses of site before the effective date of the contract.	Please refer Clause 4.13 of General Conditions and Part III Sub clause Right of Access to the Site 2.1
18.	PC 2.2	Additional Clause- Permits and Approvals: Please confirm that Right of Way is in Employer's scope.	Same comment as above.

№	Reference	Query	Clarification
19.	GC & PC 4.2	"The Contractor shall ensure that the Performance Security is valid and enforceable until the Contractor has executed and completed the Works and remedied any defects." We pressume that performance security shall be submitted with validity only till the end of initial Defects Notice Period and shall not be required for the Extended Defect Liability period mentioned in PC 11.12. Please confirm.	In case any defects or damages are found during the Defects Notification Period, the reasonable time for remedying of the defects or damages will be made known by the Contractor to the Employer. The necessary period of remedying of the defects or damages will be added to the Defects Notification Period for the damaged, as well as for other affected equipment or component of the Works. The Contractor shall extend the validity of Performance Security accordingly.
20.	GC & PC 4.2	With reference to the above, if Performance Security is to be provided for extended DLP kindly confirm the value of such BG to be provided after the initial Defect Notification Period	Please see comment above.
21.	PC 4.2 Bank Guarantees	In case of award of contract, Can a bidder submit the Advance bank guarantee and Performance Bank Guarantee from a bank located in Bidder's country.	Bank Shall be an A Class financial institution located in Nepal

№	Reference	Query	Clarification
22.	PC	Additional Clause- Completion of the Facilities Following Completion and Deemed Completion clause to be added to the Particular Conditions: (a) As soon as the Contractor achieves the Works Completion of the contract works, it shall issue to the Employer a notice (Notice of Works Completion) informing about the completion of the work. (b) Within 14 days following receipt of the notice of works completion, the Employer shall issue the Completion Certificate to Contractor, failure to which it shall be considered that the work has been successfully completed as on the date of the contractor's notice & Deemed Completion Certificate will be considered to have been issued. (c) Completion is also deemed to have taken place if the Works or any part thereof are put to use by the Employer. (d) If Commissioning is delayed due to reasons not attributable to Contractor, Contractor shall be	Please follow the requirement as mentioned in Bidding Documents

№	Reference	Query	Clarification
		allowed to demobilize the site after 2 months waiting and shall provide commissioning support as & when required. Consequently retention payment (if any) to be released against BG. The Defect Liability Period shall be deemed to have be started from the date of the such Deemed Completion Certificate.	
23.	PC 11.12	As per clause: "Crticial Equipment: Extended Defect Liability Period: 1095 days" We understand that performance certificate for complete project including crtical equipments shall be issued after completion of initial defects notice period and shall not be linked to the extended DLP of critical equipment. Kindly Confirm.	The necessary period of remedying of the defects or damages will be added to the Defects Notification Period for the damaged, as well as for other affected equipment or component of the Works. Performance Certificate shall be provided after the defects notice period.
24.	PC 14.1 - 14.4	Please confirm, during the course of the project, any statutory variation in taxes and duties (viz. VAT, Custom duty, TDS, any other local taxes etc.) in Nepal shall be reimbursed to contractor.	VAT and Custom duty only shall be reimbursed as per applicable law of GoN

№	Reference	Query	Clarification
25.	PC 14 Taxes and Duties	Please add to the end of the paragraph as below: *Custom Duty shall be issued to the Authorities within 3 days of submission of request for Duty payment by Contractor. In case of delay by Employer, the Contractor shall be entitled to time & cost reimbursement. Any detension or Demurrage due to delay in issuance of Custom Duty payment should be borne by the Employer based on the documentary evidence provided by the Contractor.*	No additional Clause is accepted
26.	PC 14.1 - 14.4	Please confirm on the following: There is a favourable Double Taxation Avoidance Agreement (DTAA) available between Government of Nepal and contractor's country (India). We understand that as per the Double Taxation Avoidance Agreement (DTAA) agreement between India and Nepal, Customer should not deduct any taxes while making the payments for offshore supplies scope.	As per prevailing law of GoN

№	Reference	Query	Clarification
27.	PC 14.1 - 14.4	Please clarify on the below pointwise related to the taxes and duties applicable for this project: i) Nepalese VAT on the offshore contract price is exempted for the project items, ii) 1% Concessional custom duty applicable for the items imported from abroad. The same shall be reimbursable by NEA, iii) No TDS deduction by NEA on the supply items to be imported from outside Nepal.	i) Confirmed ii) Confirmed iii) As per prevailing laws of Government of Nepal (GoN)
28.	PC 14.1 - 14.4	Please confirm, during the course of the project, any statutory variation in taxes and duties (viz. VAT, Custom duty, TDS, any other local taxes etc.) in Nepal shall be reimbursed to contractor.	Please refer to clarification No. 24, above
29.	PC 14.4 Tax Deduction at Source (TDS)	There is a favourable Double Taxation Avoidance Agreement (DTAA) available between Government of Nepal and contractor's country (India). We understand that as per the Double Taxation Avoidance Agreement (DTAA) agreement between India	Please refer to clarification No. 26, above

№	Reference	Query	Clarification
		and Nepal, Customer should not deduct any taxes while making the payments for offshore supplies scope. Please confirm.	
30.	GC & PC 14.4 - Schedule of Payments	As per the scheudle of payments 5% of contract value will be held as retention up to the issuance of Performance Certificate For better financial management we request that all final payments- and retentons may be released up on issuance of Taking of certificate. This will enable better cash flows and will avoid loading of financial loading in the bid	As per the Bidding documents Five percent (5%) of the total or pro rata CIP amount upon issue of the Performance Certificate. Requirement will be followed as mentioned in Bidding Documents

№	Reference	Query	Clarification
31.	GC & PC 14.9	"when the Taking-Over Certificate has been issued for the Works, and the first part of the Retention Money has been certified for payment by the Engineer, the Contractor may substitute a guarantee issued by a reputable bank or financial institution selected by the Contractor and requiring KfW's non-objection, for the second part of the Retention Money. The guarantee for the release of the Retention Money has to be acceptable in form (in line with the relevant Retention Money Security provided with the Contract Forms) and substance to KfW"As our performance security of 10% is already in the possesion of NEA for the duration of Defects Notice period, we request that secord part of retention may be released at the time of Taking over certificate without any additional Retention Money Security. Kindly accept and confirm	Please follow the requirement as mentioned in Bidding Documents

№	Reference	Query	Clarification
32.	14.16 Taxes and Duties	In the event of any change in taxes or addition/deletion of statutes in the applicable Taxation laws etc.in the country of the bidder, there shall be impact on the final cost for the project. The Bidder requests that during the contract period, any change in taxes and duties in the country of origin to be re-imbursed by the customer to the contractor for equipment and services strictly against submission of documentary evidence. Please confirm. Bidder requests the above confirmation.	Outside of the Employer's Country, the Bidder/Contractor is responsibility for taxes and duties.
33.	PC 17.6	Maximum total liability of the Contractor to the Employer : 1.1 time contract amount As per previous NEA/Funded tenders the limiation of liability is set as 1 time the contract amount. We request to kindly accept the same limitation of liability for this tender. Please confirm	Please follow the requirement as mentioned in Bidding Documents

№	Reference	Query	Clarification
34.	PC 13.8 & Section IV. Bidding Forms	As per document, "The date of adjustment shall be the mid-point (180 days) of the period of manufacture of the power transformers." As manufacturing period for various lots cannot be clearly defined and tracked, to reduce ambiguity we propose that date of adjustment for price adjustment may be governed by 60 days prior to the date of dispatch of different lot of transformers as is being followed in previous NEA (ADB funded) Projects.	Please follow the requirement as mentioned in Bidding Documents
35.	GC & PC 20.2	As per the document DAB shall be formed 28 days after the Commencement date. As the DAB is only required if there is an unresolved dispute between the parties, we request that DAB may be formed within 28 days after a Party gives notice to the other Party of its intention to refer a dispute to a DAB as per the GCC	Please follow the requirement as mentioned in Bidding Documents

№	Reference	Query	Clarification
		clause of FIDIC Yellow Book. Kindly Confirm.	
36.	GC & PC 20.2	Further to above, The terms of the remuneration of either the sole member or each of the three members shall be mutually agreed upon by the Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration We request to set a maxium limit on the renumeration of DAB, this will ensure fairness and will also ensure that unnecessary costs are not loaded in the bid. Kindly confirm	As per Part A - Contract Data, The DAB shall comprise one suitably qualified person (“member”).
37.	Section III. Evaluation and Qualification Criteria Sl. No 4.2 (a) • Further, one of the above-mentioned contracts or other contracts shall be carried out in Nepal. In case of JV, each JV ….	We understand that "carried out" means - any one contract successfully or substantially completed in Nepal Kindly confirm if our understanding is correct	Further, one of the above-mentioned contracts or other contracts shall be successfully or substantially completed in Nepal

№	Reference	Query	Clarification
38.	Section III. Evaluation and Qualification Criteria Sl. No 4.2 (a) In addition, the Bidder (in case of JV the leading member) shall provide evidence about local presence in Nepal within the last 10 years. Local presence means, the construction, upgrading and rehabilitation of substations which have similar characteristics at 220 kV or above voltage level. Evidence shall be provided in form of Taking-Over certificates, Employer's Certificates etc. References can include contracts already referenced under sub-criterion 4.1 above	We understand that evidence may also be in the form of:1) Sucessful completion certificates2) Invoice/Bill certifications to substantiate substantial completionKindly confirm if our understanding is correct	Evidence shall be provided in form of Taking-Over certificates or Employer's Certificates (defining performed works, etc. and confirming substantial completion).
39.	PART 3 Conditions of Contract and Contract Forms	Bidder request to consider price variation clause for items related to cement and steel like PCC, RCC, Reinforcement Steel, Strructure Steel etc. considering the long duration of the project and fluctuating market conditions.	Please read Clause 13.8 Adjustments for Changes in Cost
40.	Section 9 Appendix 1- Payment terms	We understand that letter of credit shall be opened at the time of contract signing for the full value of contract (including and offshore scope).Please confirm.	Please refer to Part III sub-clause 14.7 Payment

№	Reference	Query	Clarification
41.	PC Additional Clause-Land Availability	Please confirm whether land for project sites is acquired by the Employer for this whole project.	Confirmed
42.	PC Additional Clause-Funding Details required	Please confirm : We understand that NEA has signed the financial closure loan agreement with kFw Development bank,Germany.The funding will cover both off shore and on shore portion payments.	Please refer to Part III sub-clause 14.4 Schedule of Payments and 14.7 Payment
43.	PC Additional Clause-Funding Details required	Please confirm : We understand that Funding for the complete project is by Government of Nepal and Kfw development bank, Germany.And all the payment will be released by kFw Development bank,Germany directly after certification of Contractor's invoices from Employer (NEA).	Please refer to Part III sub-clause 14.4 Schedule of Payments and 14.7 Payment
44.	PC Additional Clause-Permits and Approvals- Additional clause	Statutory approvals,tree cutting, forest clearance, site clearances, access to site and right of way are in the scope of Employer. Please confirm.	Please refer Clause 4.13 of General Conditions and Part III Sub clause Right of Access to the Site 2.1

№	Reference	Query	Clarification
45.	PC Additional Clause- COVID 19	Please add the following as a seperate clause: The Parties acknowledge the worldwide outbreak of the COVID-19, which is likely to affect the execution of the Agreement. The Parties agree, that Supplier shall be entitled to reasonable adjustments of the Delivery Schedule/ milestones/ delivery dates as well as to reimbursement of costs to the extent the delay and the costs are caused directly or indirectly by the outbreak of COVID-19.	No additional Clause is accepted
46.	Section 9 PC Additional clause- Limitation of Liability	Please add the following clause as a separate clause in the Particular Conditions: Overall liability shall be limited to 100% of the Contract Value in all circumstances .	No additional Clause is accepted
47.	Bid Security	Please confirm: We understand that Bid Security shall be addressed to: NEPAL ELECTRICITY AUTHORITY (NEA), Address: Lekhnath Damauli 220 kV Transmission Line Project	Please refer to Part I of Bidding Documents

№	Reference	Query	Clarification
		Lekhnath Substation, Badahare, Pokhara Metropolitan city ward no. 27, Kaski, Gondaki Province, Nepal City: Pokhara ZIP Code: 33700 Country: Nepal	
48.	Section 9 Appendix 1- Payment terms	We request to release the last 5% payment against bank guarantee of equivalent amount upon operational acceptance, within 45 days after receipt of invoice. Kindly confirm	Please follow the requirement of the Bidding Documents
49.	Section 9 Appendix 1- Payment terms Appendix 1 - Terms and Procedures of Payment- Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad	We understand that all the payments except 10% Advance payments shall be made thru Irrevocable Letter of Credit under the Schedule No.1. Please confirm.	Please refer to Part III sub-clause 14.4 Schedule of Payments and 14.7 Payment
50.	Section 9 Commencement of Works 8.1 The complete sub-clause is deleted and replaced by the following: The Commencement Date is the date on which all the following conditions have been fulfilled:	Please modify the existing clause as mentioned below: Commencement of Works 8.1 The complete sub-clause is deleted and replaced by the following: The Commencement Date is the date on which all the following conditions have been fulfilled:	Please follow the requirement of the Bidding Documents

№	Reference	Query	Clarification
	▪ The complete set of Contract Documents has received KfW's non-objection ▪ The Contract Agreement has been signed ▪ The Contractor has submitted to the Employer the Performance Guarantee and the Advance Payment Guarantee, in line with the provisions of the Contract ▪ The Advance Payment to the Contractor has been made. The Contractor shall establish the local branch office in Nepal within 56 days after the Contractor receives the Letter of Acceptance. In case the above-mentioned conditions will not be fulfilled due to the fault of the Contractor latest 3 months after the receipt of the Letter of Acceptance, the Employer reserves the right to cancel the whole Award.	▪ The complete set of Contract Documents has received KfW's non-objection ▪ The Contract Agreement has been signed ▪ The Contractor has submitted to the Employer the Performance Guarantee and the Advance Payment Guarantee, in line with the provisions of the Contract ▪ The Advance Payment to the Contractor has been made. *The employer has established letter of credit for the full value of contract in favour of contractor.* *The Employer handed over clear sites including necessary permits.* The Contractor shall establish the local branch office in Nepal within 56 days after the Contractor receives the Letter of Acceptance. In case the above-mentioned conditions will not be fulfilled due to the fault of the Contractor latest 3 months after the receipt of the Letter of Acceptance, the Employer reserves the right to cancel the whole Award.	

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51.	Section 9 Particular Conditions (PC) Grant 1.1.4.13 KfW Development Bank has given the grant of 19,000,000 EUR to Nepal Electricity Authority for Lekhnath Damauli 220 kV Transmission Line Project.	Please confirm: Entire project is financed by KfW Development Bank, Germany.	Please refer to Part III sub-clause 14.4 Schedule of Payments and 14.7 Payment
52.	Section 9 Particular Conditions (PC) 14.2 Total advance payment 10% Percentage of the Accepted Contract Amount	We understand that this Advance payment is Interest free Advance. Please confirm.	Please refer to Part III, Section IX, Particular Conditions (PC), Sub clause 14.2.
53.	Section 9 Particular Conditions (PC) 14.2 Total advance payment 10% Percentage of the Accepted Contract Amount	We understand that this 10% Advance payment shall be applicable on both Offshore and Onshore portion of project.	Confirmed
54.	Section 9 Particular Conditions (PC) 14.4 Schedule for Payments	For Offshore Supply and Onshore Supply Payments, We understand that except 10% Advance payments, the entire 90% payments shall be paid to Contractor thru Irrevocable Letter of Credit . Please confirm.	Please refer to Part III, Section IX, Particular Conditions (PC), Sub-clause 14.4 Schedule of Payments and 14.7 Payment

№	Reference	Query	Clarification
55.	Section 9 Particular Conditions (PC) 14.4 Schedule for Payments	For Onshore and Offshore Services, We understand that except 10% Advance payments, the entire 90% payments shall be paid by KfW Development bank to Contractor thru Irrevocable Letter of Credit within 56 days. Please confirm.	Please refer to Part III, Section IX, Particular Conditions (PC), sub-clause 14.4 Schedule of Payments and 14.7 Payment
56.	Section 9 Particular Conditions (PC) 14.4 Schedule for Payments	Please modify the existing payment terms as mentioned below: 14.4 Schedule for Payments Plant and Mandatory Spare Parts Supplied from Abroad:In respect of Plant and Equipment supplied the following payments shall be made: 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 Equipment shipped or delivered to the site, as evidenced by shipping and delivery documents.	Please follow the requirement of the Bidding Documents

№	Reference	Query	Clarification
		~~*Seventy*~~ *Eighty* percent (~~*70%*~~*80%)* of the total or pro rata CIP amount upon delivery to site within 56 days after receipt of invoice and shipping documents shall be paid through irrevocable Letter of Credit. This Letter of Credit shall be subject to the Uniform Customs and Practice for Documentary Credits 2007 Revision, ICC Publication No. 600 KfW shall pay the amount certified for each Interim Payment Certificate until KfW´s funds dedicated to the interim payment are used. After the complete utilization of these KfW funds, NEA shall pay to the Contractor the amount certified for each Interim Payment Certifi- cate until the ~~*70%*~~*80%* of Price Schedule I Plant and Mandatory Spare Parts Supplied from Abroad is reached. Five percent (5%) after the erection of the supplied part ~~*Ten*~~ *Five* percent (~~*10%*~~*5%*) of the total or pro rata CIP amount upon	

№	Reference	Query	Clarification
		issue of the Taking Over within 56 days after receipt of invoice. ~~*Five percent (5%) of the total or pro rata CIP amount upon issue of the Performance Certificate, within 56 days after receipt of invoice.*~~	
57.	Section 9 Particular Conditions (PC) 14.4 Schedule for Payments	Please modify the existing payment terms as mentioned below: 14.4 Schedule for Payments Plant and Mandatory Spare Parts Supplied from within the Employer's Country: In respect of Plant and Equipment supplied the following payments shall be made: Ten percent (10%) of the total EXW 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 Equipment shipped or delivered to the site, as evidenced by shipping and delivery documents.	Please follow the requirement of the Bidding Documents

№	Reference	Query	Clarification
		~~*Seventy*~~ *Eighty* percent (~~*70%*~~*80%)* of the total or pro rata EXW amount upon delivery to site within 56 days after receipt of invoice. Five percent (5%) after the erection of the supplied part ~~*Ten*~~ *Five* percent (~~*10%*~~*5%*) of the total or pro rata EXW amount upon issue of the Taking Over within 56 days after receipt of invoice. ~~*Five percent (5%) of the total or pro rata EXW amount upon issue of the Performance Certificate, within 56 days after receipt of invoice.*~~	
58.	Section 9 Particular Conditions (PC) 14.4 Schedule for Payments	Please modify the existing payment terms as mentioned below: 14.4 Schedule for Payments Installation and other Works: In respect of erection, installation, commissioning services and other works, the following payments shall be made: Ten percent (10%) of the total services amount as an advance payment against receipt of invoice and an irrevocable advance	Please follow the requirement of the Bidding Documents

№	Reference	Query	Clarification
		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 Work performed by the Contractor as evidenced by the invoices for services. *Eighty ~~Seventy~~*-five percent (*~~75%~~85%*) 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 56 days after receipt of invoice. *~~Ten~~ Five* percent (*~~10%~~5%*) of the total or pro rata value of services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Taking Over Certificate, within 56 days after receipt of invoice. *~~Five percent (5%) of the total or pro rata value of services performed by the Contractor as evidenced by the Employer's authorization of the~~*	

№	Reference	Query	Clarification
		~~*Contractor's monthly applications, upon issue of the Performance Certificate, within 56 days after receipt of invoice*~~.	
59.	Section 9 Particular Conditions (PC) 17.6 Maximum total liability of the Contractor to the Employer 1.1 times the Accepted Contract Amount.	Please modify the existing clause as mentioned below: Maximum total liability of the Contractor to the Employer ~~*1.1 times*~~ *1 time* the Accepted Contract Amount.	Please follow as stated in Bidding Documents
60.	Section 9 Particular Conditions (PC) 1.2 Interpretation At the end of Sub-Clause 1.2, insert: Under these Conditions, provisions including the ex-pression "Cost plus reasonable profit" defines this profit to be one twentieth (5%) of these Costs.	Please clarify this clause.	Please refer to General Conditions of the Bidding Documents
61.	Section 9 Particular Conditions (PC) 1.6 Contract Agreement	Please modify the existing clause as mentioned below: 1.6 Contract Agreement	Please follow as stated in Bidding Documents

№	Reference	Query	Clarification
	The Contract Agreement shall come into full force the date on which all the following conditions have been fulfilled: · The complete set of Contract Documents has received the Bank's non-objection · The Contract Agreement has been signed · The Contractor has submitted to the Employer the Performance Security and the Advance Payment Guarantee · The Advance Payment to the Contractor has been paid.2	The Contract Agreement shall come into full force the date on which all the following conditions have been fulfilled: · The complete set of Contract Documents has received the Bank's non-objection · The Contract Agreement has been signed · The Contractor has submitted to the Employer the Performance Security and the Advance Payment Guarantee · The Advance Payment to the Contractor hasbeen paid. *The employer has established letter of credit for the full value of contract in favour of contractor.* *The Employer handed over clear sites including necessary permits.*	
62.	PC Additional Clause- Taking Over	We understand that Taking over of individual substation are acceptable to NEA. Reconciliation, closure of payment and warranty shall be considered for individual substation wise from the date of Taking over certificate by NEA.	Please follow as stated in Bidding Documents

№	Reference	Query	Clarification
63.	Section 9 PC Additional clause-Disclaimer for Indirect and Consequential Damages	Please add the following clause as a seperate clause in the contract: Contractor shall in no event be liable, whether pursuant to any indemnity or in contract, tort (including negligence and statutory duty) or otherwise for loss of profit or revenue, loss of production, interruption of operations or loss of use, cost of capital, loss of interest, loss of information and/or data, for claims arising from Customer's contracts with third parties, loss of power, cost of purchased or replacement power, or for any indirect or consequential damage.	Please follow as stated in Bidding Documents
64.	PC 18.1 Insurance	Please confirm whether the entire Insurance has to be taken from Nepalese agency or it can be taken from Bidder's country.	Please refer to Bidding Documents
65.	PC 18.1 Insurance	Please confirm whether the Marine Insurance can be taken from Bidder's country and EAR Insurance from Employer's country.	Please refer to Bidding Documents

№	Reference	Query	Clarification
66.	General, both Substations	Consider the present market fluctuation, please confirm acceptance of Price variation of atleast major equipments. e.g. Transformer, XLPE Cable, LV & Power Cable, commodities (Copper and Alunimum)	Please refer to Part III Section 9 PC Part A Contract Data, Subclause 13.8 and Part B Specific Provision, Subclause 13.8. The price adjustment for change in cost is applicable only for transformers.
67.	General, both Substations	Bidder request to confirm that the necessary land for site office/store/labor colony/batching plant will be provided to us near the site area under present scope.	This is Contractor's obligation please refer to General Conditions of Contract sub clause 4.13.
68.	General, both Substations	Hinderance register shall be maintained by bidder at site which shall include the delays due to local land issues, force majures,natural calmaities etc. and extension/compensation shall be provided to the bidder for the same. Please confirm.	The procedure for Contractor's claims is detailed in the Conditions of Contract and shall be followed accordingly.
Price Schedules			
69.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 1.1.2.5, OHL conductors for 220kV &132kV auxiliary busbar for fast reconnection of the spare transformer unit	We understand from the specification & the line item description of the price schedule that the fast reconnection of the spare unit is through manual reconnection of the jumpers to the overhead auxiliary busbars. Please confirm.	Confirmed

№	Reference	Query	Clarification
70.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 1.7, LV auxiliary power supply system	We presume that the existing LV auxiliary power supply equipment including existing 110V DC system at Lekhnath substation are sufficiently rated with adequate spare feeders in order to cater the requirements of the 132kV bays which are proposed to be extended under this contract. Please confirm.	The 110V DC supply at Lekhnath substation is deemed sufficiently rated to accommodate the 132 kV bays to be extended. However, DC distribution cabinets required for two 132 kV bays to be extended are to be included in the scope of this package.
71.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 1.5, 33kV Switchgear	We presume that the BCPU of respective 33kV & 11kV bays as mentioned under items 1.9.5 to 1.9.6, shall be an integral part of the respective swicthgear bays itself. We do not envisage separate relay panel for 33kV bays. Please confirm.	Confirmed
72.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 2.5 / 2.5.1	Auto transformer or Power Transformer BOQ 2.5.1 & data sheet cl 6.1.2 63 MVA Here rating specified 63 MVA, 220 /132 looks like three phase Auto Transformer against mentioned Three phase power -Please recheck and confirm	220/132 kV 50/63 MVA transformer for Damauli shall be provided as three-phase power transformer, as specified in Schedules and Data Sheets.

№	Reference	Query	Clarification
73.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item No. 1.9	220kV Extension of the 132kV switchyard in Lekhnath 220 kV OHL Protection Terminals and BCU (D04, D06) In the Price Schedule Bus Coupler and Bus Bar mentioned under the same header, bidder request to confirm acceptance of common relay & protection panel for both Bus Bar & Bus Coupler.	Protection relays shall be provided as defined in VII-1 Project Description and Scope of Works, Clause 3.2.9 and VII-9 Annex D5-5, D5-7 and D5-9A. Separate protection relays shall be provided for Bus Bar protection and Bus Coupler protection.
74.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item No. 2.10	Construction of 220/132/33/11 kV substation in Damauli 220kV Bus-coupler and Busbar protection (D05, D16) In the Price Schedule Bus Coupler and Bus Bar mentioned under the same header, bidder request to confirm acceptance of common relay & protection panel for both Bus Bar & Bus Coupler.	Protection relays shall be provided as defined in VII-1 Project Description and Scope of Works, Clause 3.3.10 and VII-9 Annex D5-6, D5-8 and D5-9B. Separate protection relays shall be provided for Bus Bar protection and Bus Coupler protection.

№	Reference	Query	Clarification
75.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item No. 2.10	Construction of 220/132/33/11 kV substation in Damauli 132kV Bus-coupler and Busbar protections and BCU (E04) In the Price Schedule Bus Coupler and Bus Bar mentioned under the same header, bidder request to confirm acceptance of common relay & protection panel for both Bus Bar & Bus Coupler.	Protection relays shall be provided as defined in VII-1 Project Description and Scope of Works, Clause 3.3.10 and VII-9 Annex D5-6, D5-8 and D5-9B. Separate protection relays shall be provided for Bus Bar protection and Bus Coupler protection.
76.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item No. 1.9 / 2.10	Bidder request to confirm acceptance of the control & protection in single panel for 220/132kV bays.	The clarification request is not clear. Separate control and protection panels shall be provided for each HV bay.
77.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 2.6, 33kV & 11kV Switchgear	We presume that the BCPU of respective 33kV & 11kV bays as mentioned under items 2.10.9 to 2.10.16, shall be an integral part of the respective switchgear bays itself. We do not envisage separate relay panel for 33kV & 11kV bays. Please confirm.	Confirmed

№	Reference	Query	Clarification
78.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 2.15.6	Please clarify whether the 11kV Distribution OHL pole is in the scope of this package. If it need to be included, please furnish the standard drawings.	11kV Distribution OHL pole is not included in the scope of this package.
79.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 3.5.1.4	Please clarify the requirement of Surge Arrestor in LV Panel.	Confirmed
80.	Schedule No II: Plant and Mandatory spare parts supplied within the employer's country, Item no. 3.17	There are no line item of Air conditioning system in Schedule 1 and however Spare of Air conditioing is mentioned in Schedule 1 & Schedule 2. At the same time Air conditioning & ventilation is part of civil work in Schedule 4 without any mandatory spare. Please revise the requirement and suggest the same.	Air conditioning systems are included in Schedule IV. The spare parts for air conditioning systems shall be priced under Schedule I / II, Item 3.17
81.	Part I Section IV Bidding Forms, Preamble / Schedules of Rates and Prices Schedule No. III Design Services	Bidder understand that Geo Technical data furnished with bidding document is firm & binding in nature and will be considered for design & estimation purpose at bidding stage. Any change in the same will be mutually discussed and time and price	The Geo Technical data furnished with the bidding are for bidders' information. The bidder shall satisfy himself about the site conditions and the bidders proposal shall be firm and fixed. Prior to the detailed design, the Contractor shall perform more detailed topographical surveys soil investigations to serve as basis of the detailed design as specified in VII-1 Project Description and Scope of Work, Clause 3.4.

№	Reference	Query	Clarification
		escalation shall be dealt separately. Also the line item in the price shedule for the same may be deleted or not applicable. Please confirm.	
82.	Part I Section IV Bidding Forms, Preamble / Schedules of Rates and Prices Schedule No IV: Installation & Other Services	We understand Nepal Electricity Authority tenders are quantified always. NEA may refer recent tender docuemtns e.g. Mulpani, Dhalkebar, Hetauda-Inaruwa etc. The bidder request to provide quantification of major civil items like excavation, earthwork filling, PCC,RCC, Steel etc. becasue it is very difficult to ascertain quantities at this point due to very less data available at bid engineering stage to finalize the quantities.	This is a FIDIC Yellow Book Design Built Contract. Detailed quantities shall be determined by the Bidder.
83.	Part I Section IV Bidding Forms, Schedules of Rates and Prices Schedule No IV: Installation & Other Services	Bidder requests to quantify the Pre Engineered Building in the price schedule. Any supplier is not ready to estimate in lot. Accordingly NEA all previous tenders are quantified. For example Structural steel are quantified in Metric Ton. Please provide quantify in Metric Ton for	Please refer to clarification item No. 82 above

№	Reference	Query	Clarification
		Structural steel requried for Pre Engineered Building for the project.	
84.	Part I Section IV Bidding Forms, Preamble / Schedules of Rates and Prices Schedule No IV: Installation & Other Services	As the river terrain area comes under no man's land hence the Bidder request to provide the bore log data and scuba depth of the river terrain to be considered for design and estimation of Retaining wall. The Bidder also request to convert the Lumpsum contract into quantified BoQ (bill of quantity) items for the grey area of scope like Retaining Wall, Access Road, Drainage, 220 kV Platform etc. Accordingly please provide amneded quantified Price Schedule.	Available data are included in VII-9 Annex, D4-3 andD5-16. Conditions of Contract shall remain unchanged.
85.	Part I Section IV Bidding Forms, Preamble / Schedules of Rates and Prices Schedule No IV: Installation & Other Services - 2.20.	The topography survey & soil investigation work not mentioned in schedule of rates & price sheet. So, Please confirm whether it is client or contractor scope.	Topographical surveys soil investigations are in the scope of the Contractor as defined in VII-1 Project Description and Scope of works. These items shall be price in Schedule III, Item 1.2.1 / 2.2.1.

№	Reference	Query	Clarification
86.	Part I Section IV Bidding Forms, Preamble / Schedules of Rates and Prices Schedule No. IV Installation and Other Services- 2.20.1.1.3	"Removal and disposal of existing building. " Bidder request to provide the plan and section details and clarify to what extent/level dismantling needs to be done.	The building is a nonresidential one storey masonry storage building with metal rooftop. Dimensions are approximately 26.5 m x 11.5 m. The building shall be removed completely.
87.	Part I Section IV Bidding Forms, Preamble / Schedules of Rates and Prices Schedule No. IV Installation and Other Services- 2.20.1.2.3 and 2.20.1.2.4	"Development flood retaining wall" and "Flood retaining wall north-west, adjacent to the riverbed". These are 2 different BoQ (Bill of Quantity) items mentioned in the Price Schedule. However bidder understand that these are same BoQ items as there is only one retaining wall along the riverbed. Please confirm.	Confirmed, these two items relate to the same subject, Therefore Item 2.20.1.2.4 shall be disregarded Please refer to Amendment No. B-2, Item 5
88.	Part I Section IV Bidding Forms, Preamble / Schedules of Rates and Prices Schedule No. IV Installation and Other Services- 2.20.1.2.5 and 2.20.1.2.6	The low wall BoQ (Bill of Quantity) item is not described in the scope of work. There is no indication of the low wall in the chain link fence drawing with no typical description. Bidder request to clarify the scope and subsequent amendmment in bidding documents.	The low wall as defined in the BoQ shall provide support for the chain link fence and provide a continues concrete beam with a minimum height of 50 cm to also prevent undercut of the security fence, as depicted in D5-22, Figure 2-4

№	Reference	Query	Clarification
89.	Part I Section IV Bidding Forms, Preamble / Schedules of Rates and Prices Schedule No. IV Installation and Other Services- 2.20.1.2.1	"Removal and disposal of temporary access road and temporary bridge (if applicable). " Bidder request to provide the plan and section details and confirm to what extent/level dismantling needs to be done. Otherwise request to remove the scope of temporary road from the scope becasue considering the time line of contract award of this project including contractor mobilisation schedule, the bidder understand the Permanent Road and Bridge for Damauli should be competed by NEA in other contract."	The quote is not correct, Item 2.20.1.2.1 reads “Removal and disposal of temporary access bridge” (no mention of temporary access road). This item refers to the removal of the temporary access bridge which is to be constructed under item 2.20.1.1.2. The relevant details shall be developed by the bidder. This item is to remain as part of the scope, as defined in the Bidding Document. Please be aware that the temporary access road is an existing road that shall remain and shall be reinstated to a good condition after completion of the project if necessary.
90.	Schedule No IV: Installation & Other Services, Item no. 2.20.8.9	Please clarify whether the 33kV Distribution OHL pole is in the scope of this package. If it need to be included, please furnish the standard drawings.	33kV Distribution OHL pole is not included in the scope of this package.
91.	Schedule No IV: Installation & Other Services, Item no. 2.20.8.9	As per the referred schedule, the installation works for 33kV cable between 33kV switchgear & distribution OHL pole is mentioned. However, under supply schedule	Item 2.20.8.9 refers to the cable channel for the 33 kV cables, The supply and installation of 33 kV cables is not included.

№	Reference	Query	Clarification
		the aforesaid 33kV cable is missing. Please check & clarify.	
92.	Schedule No IV: Installation & Other Services, Item no. 3. Training of Employer's Staff	Traning is requested in NPR in Schedule 4. At the same time some of traning are within facotry. Bidder incurr the cost in foreign currency please revise the price schedule for such training required outside Nepal.	Training required outside Nepal shall be priced in Schedule III Please refer to Amendment No. B-2, Item 3 / 4 / 6.

№	Reference	Query	Clarification
93.	Schedule No. V: ESHS Requirements Item No 1.15.1	Bidder requires more clarification on the exact scope & clause. Few Details required for costing and estimation. a) Is this the same as the flood retaining wall or different? b). What shall be section details for this wall? c) What shall be length for this wall. d) Is it to be considered for 400 kV area as well OR only upto 220 kV area same as retaining wall.	Item 1.15.1 refers to ESHS provisions for river training structures. Technical details and characteristics of the retaining wall are provided in Bidding Documents, Part II, section 1.6.13, as well as in Annex D5-22 & D5-26.
94.	Schedule No. V: ESHS Requirements Item No 1.15.1	Please clarify the scope of "River training structures"	Please refer to clarification item No. 93 above
95.	Schedule No. V: ESHS Requirements Item No 1.15.2	Bidder requires more clarification on the exact scope & clause of bidding documents. Few Details required for costing and estimation. a) What shall be section details for this culvert? b) What shall be length and width details?	Item 1.15.2 refers to ESHS provisions for the culvert. The locations and type culverts shall be proposed by the Contractor and approved by the Employer/Engineer (ref. Appendix A to ESMP)

№	Reference	Query	Clarification
Electrical Queries			
96.	Specification / Data sheets	As per specification Altitude is <1000m for all offered transformer at all sites - please reconfirm	Confirmed
97.	Part II, Section VII-1 Project Description and Scope of Works, Clause- 3.1.10.5, Transport Dimensions or transport weight limitations	Is their any Transformer overall Dimension limitations & Transport Dimensions or transport weight limitations ? If yes please specify	This shall be determined as part of the transport study to be prepared by the Bidder
98.	Part II, Section VII-1 Project Description and Scope of Works, Clause-3.2.1, Additional extension and relocation works	Please furnish the existing 132kV switchyard equipment layout in order to assess the dismantling & relocation works.	Please refer to Amendment No. B-2, Item 6 / Annex D5-28 and D5-29 for reference. Further details and verifications are the responsibility of the Bidder / Contractor.
99.	Part II, Section VII-1 Project Description and Scope of Works, Clause-3.2.1	Bidder requests to provide the drawings of existing structure and foundation of existing equipments in Lekhnath.	Please refer to clarification item No. 98 above. Foundation drawings are not available.
100.	Part II, Section VII-1 Project Description and Scope of Works, Clause-3.2.18 & 3.3.19, CCTV	As per the referred specification clauses, minimum 40sets of PTZ cameras are required for each substation. We request NEA not to specify any minimum requirement, as the number of cameras will be finalized based on detailed design & the actual selected model. Please check & issue suitable amendments in this regard.	The specification requirement shall be followed.

№	Reference	Query	Clarification
101.	Part II, Section VII-1 Project Description and Scope of Works, Clause-3.2.10 PMU	We presume that PMU is required only for the Main busbars. Please confirm or specify the bays/feeders for which PMU is required in each 220kV & 132kV level.	This is clearly specified in VII-1 Project Description and Scope of Works, Clause-3.2.10 and shall be followed accordingly.
102.	Part II, Section VII-1 Project Description and Scope of Works, Clause-3.2.7, DC installations	Please specify the backup duration for which the 220V & 48V Battery need to be sized.	Autonomy time shall be minimum 10 hrs.
103.	Part II, Section VII-1 Project Description and Scope of Works, Clause-3.2.9 & 3.2.10	We do not envisage any supply of remote end Line differential protection relays. Our scope is limited only to the Lekhnath & Damauli substation end. Please confirm.	Confirmed, no remote end line differential protection relays are included in the scope.
104.	Part II, Section VII-1 Project Description and Scope of Works, Clause-3.2.9 & 3.2.10	If the remote end differential relay is already existing, please confirm the make & model number of the remote end relays. If the remote end relay need to be supplied under the scope of this package, please add a separate line item in the price schedule.	Details of remote end differential protection relays are not available at this stage. Requirements as detailed in Section VII-1 Project Description and Scope of Works, Clause-3.1.2 shall be observed.
105.	Part II, Section VII-1 Project Description and Scope of Works, 3.2.9 Control and Protection System	Bidder understand one Bay unit will be connected to the one Central unit which will be having the feature of Main Zone,Check Zone & Breaker Failure .	It shall be only and exclusively one central unit to which all field units will be connected. Any bay has one (1) field unit except the bus-coupler bay which has two (2) field units, each on different side of the breaker.

№	Reference	Query	Clarification
		Kindly confirm the same as dual Bay units are not required with one Central unit.	
106.	Part II, Section VII-1 Project Description and Scope of Works, Clause-3.2.11, SCADA & SCMS	Please confirm the Make & Model number of the SCADA & EMS system at NEA NLDC/ECC.	This is defined in VII-1 Project Description and Scope of Works, Clause-3.2.11.2.
107.	Part II, Section VII-1 Project Description and Scope of Works, Clause-3.2.11.2	As in the SCMS System Architecture , only gateways has been shown (in Annex D5-14 & Annex D5-15). Instead of giving dual servers & dual gateways seperately, bidder request to confirm acceptance of the dual server cum gateway.	Bidder request is not accepted. Bidder to comply with all the subject related Tender documents and provide for each of the Scope of works Stations (for DAMAULI as well for LEKHNATH) with a set of 2(two) separate redundant Gateways and with 2(two) separate redundant servers.
108.	Part II, Section VII-1 Project Description and Scope of Works, clause, 3.3.1.5, Transformer oil	«As per BOQ spare oil shall be minimum 5% of total oil volume of all transformers installed & as per VII-5 cl 5.5 it's 10% so, we will supply maximum spare oil as 10% , which includes 5% spare oil mentioned BOQ. -Please confirm.«	Confirmed, the additional 10% mentioned in VII-5 Clause 5.5 are the total quantity to be supplied to ensure that sufficient oil is available on site for erection and commissioning and for spare to be handed over to the Employer. The quantity of spare oil to be handed over To the Employer shall be 5% as defined in the BOQ.

№	Reference	Query	Clarification
109.	Part II, Section VII-1 Project Description and Scope of Works, clause, 3.3.13.2, FO cables Damauli substation	We presume that the gantry as mentioned in the referred clause is pertaining to substation gantry. We understand that our scope for FO cable for Telecommunication shall be limited up to 220kV & 132kV line gantry level within switchyard. All other OPGW/FO cable from switchyard gantry to remote end shall be in TL contractor scope. Please confirm.	Confirmed
110.	Part II, Section VII-1 Project Description and Scope of Works, clause, 3.3.18 Fire protection system	Is NIFPES Nitrogen Injection Fire Prevention and Extinguishing System is required for offered transformer ?	Fire protection systems shall be provided as specified. NIFPES Nitrogen Injection Fire Prevention and Extinguishing System for transformer is not included.
111.	Part II, Section VII-1 Project Description and Scope of Works, Clause 3.4.1 - Site related investigations	Bidder requests to furnish the contour survey report with readings at 5m grid intervals, quantity of cutting and filling and recommendation for soil improvement below retaining wall for estimation and costing.	Please refer to VII-9 Annex, 4899A81 D4-3 Updated GTI Report and D5-16 Hydrological Study Final result. Please be advised that the GTI report is provided entirely for Bidder information, so that Bidder can assess the design of the required soil improvement required for site development. Quantity of cutting and filling and for soil improvement shall be determined by the Bidder. Bidder should also consider D5-22, and D5-24, where some additional topographical information is presented.

№	Reference	Query	Clarification
			The Bidder is guided towards open-source survey tools where topographical information is available but assessment of quantities of cut and fill are entirely the responsibility of the Bidder.
112.	Part II, Section VII-1 Project Description and Scope of Works, Clause 3.4.6.1 - „The first earthworks operation shall be the removal of topsoil, to a depth as agreed with the Employer"	Bidder request to mention the depth of top soil to be removed and distance of stacking point from substation yard.	This shall be developed by the Contractor during design stage.
113.	Part II, Section VII-1 Project Description and Scope of Works, Clause 3.4.6.1 - „This includes breaking down and disposal of the existing building,if required to accommodate the new substation"	Bidder requests to furnish the details of structures to be demolished.	Please refer to clarification item No. 86 above
114.	Part II, Section VII-1 Project Description and Scope of Works, Clause 3.4.6.1 - „ Transformer foundations"	Bidder request for acceptance of rail walls with common pad for transformer foundation and soak pit filled with gravel sized for 33% of the transformer oil capacity considering 40% voids in gravel.	Such details shall be subject to approval at design stage.

№	Reference	Query	Clarification
		The oil from individual transformer will be directed to common Burnt oil tank designed for 150% of the oil capacity of largest single transformer. Please accept the same.	
115.	Part II, Section VII-1 Project Description and Scope of Works, Clause 3.4.6.1 - Temperory Access Road	As the consruction of bridge for permanent access road is already in progress by M/s NEA and shall be completed in due course of time, Bidder proposes to use the Permanent Access Road for the construction works and the temperory access road item can be deleted from the BOQ. Kindly confirm.	The temporary access road up to the river is existing already and shall be enhanced as required to serve the purpose for temporary access. The temporary access bridge and temporary access road within the substation area shall be included in the proposal as defined in the Bidding document.
116.	Part II, Section VII-1 Project Description and Scope of Works, Clause 3.4.6.1 - Temperory Access Road	Bidder request to share the section details of temperory access road.	The temporary access road up to the river is existing already please refer to clarification No. 115. The temporary access roads within the substation area are the responsibility of the Contractor and shall be developed during project phase. Please also refer to VII-9 Annex D5-22 DAM. Site Development and Project Phasing.

№	Reference	Query	Clarification
117.	Part II, Section VII-1 Project Description and Scope of Works, Clause 3.4.6.1 - Access Road	Access road (3 m wide) from maintenance access gates to area between the 220kV substation platform and the riverbed." For this item bidder request to provide the length and section details for the same.	Details shall be developed by the Bidder / Contractor.
118.	Part II, Section VII-1 Project Description and Scope of Works, Clause-4.2.1, Existing Substation SCMS	As per the referred clause, *«132 kV switchgear related signals currently covered by the existing RTU shall be transferred to the new SCMS of the 220 kV extension»*. We presume that the existing 132kV switchgear related signals are to be interfaced with the new SCMS directly from the RTU through necessary Fiber cables. Please confirm whether Bidder's understanding is in order. Also please confirm the communication prootocol (IEC 61850 or IEC 60870-5-104) through which the data need to be communicated from the existing RTU to the SCMS.	This is defined in VII-1 Project Description and Scope of Works, Clause-3.2.11.3 and shall be followed accordingly.

№	Reference	Query	Clarification
119.	Part II, Section VII-1 Project Description and Scope of Works, Clause-4.2.1, Existing Substation SCMS	Please clarify the following w.r.t the existing 132kV Switchgear: a) Make & model number of the existing Control & Protection panels b) Whether the existing control & protection IEDs are IEC 61850 compliant?	Information about the existing system and approach for integration are described in VII-1 Project Description and Scope of Works, Clause-3.2.11.3 and shall be followed accordingly. The details are to be elaborated during the design stage.
120.	Part II, Section VII-1 Project Description and Scope of Works, clause, 4.2.1, 132 kV Switchyard - Lekhnath substation	As per referred clause of specification, The two new bays will be provided with two sets of air-insulated capacitive voltage transformers to be used for the voltage control of the new 220/132/33 kV auto transformers. Whereas in BPS and Specification clause 3.2.1, voltage transformers are mentioned. Please confirm whether the requirement is CVT or PT?	The two new bays shall be provided with capacitive voltage transformers as defined in the VII-8 Technical Data Sheets
121.	Part II, Section VII-1 Project Description and Scope of Works, False Ceiling	There is no mention of False Ceiling in the scope of works. Bidder requests M/s NEA to confirm the False Ceiling scope and share the specifications if any.	For the avoidance of doubt, false ceilings shall be provided to all areas of the control building except for battery rooms, switchgear rooms, welfare areas, stores and workshops. The ceiling system shall have fire resisting, sound absorbing and thermal insulation characteristics. Ceiling panels shall be mineral board with the dimensions of 600mm x 600mm. They shall conform to BS8290 and non-combustible class 0 to parts 1 and 4 of BS 476.

№	Reference	Query	Clarification
			The suspension system shall be of sufficient strength and rigidity and an aluminum frames shall support each panel which shall be secured with locking clips to the grid. Rod hangers shall be galvanized steel of 4 mm diameter (minimum). Power driven fasteners shall be used for fixing the rod hangers in the reinforced concrete ceiling.
122.	220kV & 132kV GIS CT ratio	i) As per Specification, Section VII-1 Project Description and Scope of Works, clause 3.2.3 (220kV GIS, Lekhnath), clause 3.3.1(220kV GIS, Damauli), & clause 3.3.3 (132kV GIS, Damauli), Bus coupler / Bus section CTs shall be provided with 5 core, whereas as per Technical data sheet for 220kV GIS clause 3.6 & 132kV GIS Clause 4.6, Bus coupler / Bus section CTs shall be provided with 3 core.Please confirm whether Bus coupler & Bus section CTs of 220kV & 132kV GIS shall be provided with 5 core or 3 core.ii) As per Technical data sheet for 220kV GIS clause 3.6.14, Line bay CT ratio for busbar protection core is 3000/1A for Damauli substation, whereas all other bay CTs are provided with 4000/1A for Busbar protection. Please check & eliminate the discrepancy.	i. Any bus coupler and bus sectionalizer bay shall have two (2) sets of CTs each on the different side of the breaker. The first set shall have two (2) cores: one core for busbar protection and one core for main protection. The second set shall have three (3) cores as above plus one measuring core for BCU with the accuracy class as other measuring core in the scope. ii. The CT ratio for busbar protection in any bay in Damauli SS shall be 4000/1A.

<table>
<tr><th>№</th><th>Reference</th><th>Query</th><th>Clarification</th></tr>
<tr><td>123.</td><td>Part II, Section VII-1 Project Description and Scope of Works, clause, 3.2.2
220/132 kV Auto transformer, Tertiary winding rating - Lekhnath substation</td><td>As per Specification, Section VII-1 Project Description and Scope of Works, clause, 3.2.2 & Technical data sheet for 220/132 kV Auto transformer clause 6.1.1, Transformer shall be provided with tertiary of 33kV voltage level, whereas in BPS surge arrester for tertiary is mentioned with 11kV and Section VII-4 Particular Technical Requirements, clause 3, Basic System Values for Lekhnath substation, the values are provided for 11kV voltage level.

Please confirm the tertiary voltage level.</td><td>Part I Schedule I / II / IV Item 1.1.2.3 shall read “ Surge arresters for the tertiary (33 kV) side”
Please refer to Amendment No. B-2, Item 1

Part II Section VII-4 Particular Technical Requirements, clause 3, Basic System Values for 33 kV and 11kV voltage level shall be as below:

<table><tr><th>Parameter</th><th>Unit</th><th></th><th></th></tr><tr><td>Nominal voltage of system</td><td>kV</td><td>33</td><td>11</td></tr><tr><td>Rated busbar current
Lekhnath SS
Damauli SS</td><td>A</td><td>
2000
2000</td><td>
-
1250</td></tr><tr><td>Rated feeder current
Lekhnath SS
Damauli SS</td><td>A</td><td>
800
800</td><td>
-
800</td></tr></table></td></tr>
<tr><td>124.</td><td>Part II, Section VII-4 Particular Technical Requirements, Clause 3, Basic System Values, Rated short-circuit withstand current, Lekhnath substation</td><td>As per referred clause of specification, Rated short-circuit withstand
current for 11kV voltage level is mentioned as 50kA. We understand that the transformer tertiary impedance shall be chosen in such a way that the tertiary fault level at the terminals shall not exceed 50kA. Please confirm.</td><td>Part II Section VII-4 Particular Technical Requirements, clause 3, Basic System Values for 33 kV and 11kV voltage level shall be as below:

<table><tr><th>Parameter</th><th>Unit</th><th></th><th></th></tr><tr><td>Nominal voltage of system</td><td>kV</td><td>33</td><td>11</td></tr><tr><td>Rated short-circuit withstand current</td><td>kA</td><td></td><td></td></tr></table></td></tr>
</table>

<table>
<tr><th>№</th><th>Reference</th><th>Query</th><th>Clarification</th></tr>
<tr><td></td><td></td><td></td><td>
<table>
<tr><td>Lekhnath SS
Damauli SS</td><td></td><td>25
25</td><td>-
25</td></tr>
<tr><td>Rated peak withstand current
Lekhnath SS
Damauli SS</td><td>kA</td><td>
62.5
62.5</td><td>
-
62.5</td></tr>
</table>
Transformer impedance shall be as defined in the Technical Data Sheet
</td></tr>
<tr><td>125.</td><td>Part II, Section VII-3 General Technical Requirements, Clause-11.2.1 All major equipment and components shall be type tested</td><td>As per this clause « <i>All major equipment and components shall be type tested, in accordance with the applicable international standards (their latest versions, including all amendments), by an internationally ac-credited independent testing laboratory, not associated with the respective manufacturer. Type tests performed at a manufacturer's laboratory and witnessed by an accredited independent third-party are also acceptable. Accreditation to the testing laboratory/ third party shall be given by a signatory member of International Laboratory Accreditation Cooperation (ILAC).»</td><td>The specification shall be followed.</td></tr>
</table>

№	Reference	Query	Clarification
		# Our test lab is NABL accredited & as per NABL : In order, to enable global acceptance of its accredited Conformity Accreditation Bodies (CABs),NABL maintains linkages with the international bodies like International Laboratory Accreditation Co-operation (ILAC) and Asia Pacific Accreditation Co-operation (APAC). NABL has obtained ILAC MRA for Reference Material Producers (RMP) accreditation program (ISO 17034) also, in addition to existing MRA in Testing (ISO/IEC 17025), Medical (ISO 15189),Calibration (ISO/IEC 17025) laboratories and Proficiency Testing Providers (PTP) accreditation program (ISO/IEC 17043)» **# Transformer Type test shall be carried out at our test lab only which is NABL accredited** **# and for type test of the**	

№	Reference	Query	Clarification
		components we will furnish the type test reports as per supplier(s) similar to previously executed NEA projects. **# Reference type test shall be provided from our NABL accredited lab & test may be witnessed by any of end customer only**.	
126.	Part II, VII-5 Technical Specifications, Clause-3.3, page no. 50	As per the referred clause, *«Remote panel in the substation control equipment room on the site for control of circuit breakers, disconnectors, maintenance earthing switches and high-speed earthing switches with position indication in each instance»*. We understand that the remote panel mentioned in the above clause as respective bay control & protection panels. We **do not** envisage any Hardwired Backup control panel in addition to the bay level IEDs. If required, please include a	Confirmed, no hardwired back up control panel is required, only local control panel (hardwired) at switchgear location and remote control and protection panel in control equipment room.

№	Reference	Query	Clarification
		separate line item in the price schedule.	

№	Reference	Query	Clarification
127.	Part II, VII-5 Technical Specifications, Clause-3.6, Temperature rise for GIS	GIS being located indoors in a properly ventilated environment, the current rating of the 220kV & 132kV GIS as mentioned in the technical datasheets will be guaranteed at 40 Deg. C ambient temperature in line with IEC 62271-203 & IEC 62271-1. Please confirm.	The site temperatures as defined in Part II, VII-5 Technical Data Sheets, Item 3.1.35 - 3.1.37, i.e. 40 Deg. C for Lekhnath, respectively 50 Deg. C for Damauli shall be considered.
128.	Part II, VII-5 Technical Specifications, Clause-3.10.1, CB operating Mechanism for GIS	As per the referred clause, *«Circuit breakers shall be complete with spring or hydraulic-operated mechanisms»*. However, as per technical datasheet, SI. No. 3.2.60 & 4.2.58, only Spring-charged mechanism is mentioned. We understand that both spring & hydraulic operated mechanisms are acceptable to NEA. Please confirm.	Confirmed. In case hydraulic operating mechanism is foreseen, technical information and technical data of the drive mechanism shall be provided with the tender.
129.	Part II, VII-5 Technical Specifications, Clause-3.14, Voltage Detectors	The capacitive voltage detectors as mentioned in the referred clause are applicable only for MV switchgears (33kV & below) and are not applicable for EHV GIS (132kV & above).	Confirmed. Please refer to single line diagrams.
130.	Part II, VII-5 Technical Specifications, Clause-3.19.1, Gas compartments	We request NEA to accept the Busbar disconnector & Earth switch as part of the busbar gas compartment. Please confirm.	Confirmed for 132kV GIS only. Please refer to Part II, VII-5, Clause 3.3 Page 48 (three phase design).

№	Reference	Query	Clarification
131.	Part II, VII-5 Technical Specifications, Clause-3.19.6, Gas density monitors	As per the referred clause *«Temperature compensated, digital type, gas density monitors shall be provided for each gas section and gas compartment»*.We understand that from the contacts of the Gas density monitors, the necessary alarms shall be wired to the respective Bay IEDs through hardwired conventional copper control cables. From the Bay IEDs it shall be communicated to the SCMS on IEC 61850 through FO cables. Please confirm.	Confirmed
132.	Part II, VII-5 Technical Specifications, Clause-3.19.10 & 3.21	a) We understand that the Gas handling plant as mentioned under clause 3.19.10 is same as the Gas service cart as mentioned under clause 3.21. Hence, we shall supply One Gas Handling plant (service cart) for each substation. Please confirm. b) Also please clarify the requirement of the Mobile Gas handling plant for both Lekhnath & Damauli substations.	One (1) common mobile gas handling plant (gas service cart) shall be provided for both substations Lekhnath and Damauli. Gas filling cart (in total 3) shall be provided for each HV SF_6 switchgears. Please refer to technical data sheets No. 3.21 and 3.22

№	Reference	Query	Clarification
133.	Part II, VII-5 Technical Specifications, Clause-3.25.2, Type test validity for GIS	As per the referred clause the type test reports shall not be older than **7 years**. However, as per Part-I, Section IV. Bidding Forms, Plant & Conformity of Facilities, page-119/146, type test shall certificates shall not be older than **10 years.** The above clauses are contradictory. Hence we request NEA not to impose any restriction on the type test validity as type tests will not be repeated periodically unless there is a design change. Please confirm.	Part-I, Section IV. Bidding Forms, Plant & Conformity of Facilities, page-119/146, shall be followed, I.e. type test shall certificates shall not be older than **10 years.**
134.	Part II, VII-5 Technical Specifications, Clause-4.2.1.5, Direct incoming unit - disconnecting unit (for 33kV & 11kV Switchgear)	We understand the requirement as Cable side Earthing switch for the 33kV & 11kV feeders. If any disconnecting switch is also required, please confirm & update the SLD accordingly.	Confirmed as defined in Part II, VII-1 Project Description and Scope of Works and SLDs (i.e. no disconnector required).
135.	Part II, Section VII-5 Technical Specifications, Clause-10.6, Weather Station	Please confirm the location of Weather station & include a separate line item in the Price schedule.	The Weather station shall be located within the substation compound, exact location shall be determined during design stage. The cost for the weather station shall be included in the price for SCADA and SCMS, i.e. Schedule I / II item 1.11.1.

№	Reference	Query	Clarification
136.	Part II, Section VII-5 Technical Specification, clause 13.2.7.3 & Section VII-8 Technical Data Sheets, clause 11.1.3.8 & 11.1.3.10, 132kV cable	We understand from the referred clauses of specification & datasheet that if the Aluminum sheath is sufficient enough to withstand the Short circuit earth fault current then additional Metallic screen i.e. Copper wires is not required. Please confirm.	Confirmed, if the Aluminum sheath is sufficient enough to withstand the Short circuit earth fault current then additional Metallic screen i.e. Copper wires is not required. Please confirm. Earth fault current to be considered as specified in VII-8 Technical Data Sheets
137.	Part II, Section VII-5 Technical Specification, clause 13.3.5, MV Cable, Inner sheath & Outer sheath	Please confirm the inner & outer sheath material for 33kV & 11KV cables.	The features are outlined in Section VII-5 Technical Specification, clause 13.3.5 and shall be followed. It is up to the Bidder (respective cable manufacturer) to propose a material which complies with the required features.
138.	Part II, Section VII-5, Technical specification, clause-13.3.6, LV Power and Control Cables	We presume that all LV power & control cables shall be PVC insulated. Please confirm.	LV power and control cables and cable accessories shall be flame retardant and low smoke zero halogen (LSZH), as defined in Section VII-5, Technical specification, clause-13.3.6, LV Power and Control Cables. This excludes PVC.
139.		Constant ohmic type requirements Many NEA projects have constant ohmic type impedance requirements however in this specification it is not mentioned does it required for power Transformers ?	Shall be decided during design stage

№	Reference	Query	Clarification
140.		Digital RTCC Many NEA projects have constant ohmic type impedance requirements however in this specification it is not mentioned does it required for power Transformers ?	Requirements for RTCC are defined in Part II, Section VII-1, Project Description and Scop of Works (“automatic voltage regulator”) and VII-5, Technical specification (“automatic voltage regulator”) Constant ohmic type impedance requirements shall be decided during design stage

№	Reference	Query	Clarification
141.	Part II, Section VII-5, Technical specification,	For power transformer 63 MVA,30 MVA and 8 MVAparallel operation is required with any existing transformer As its green filed project we understand no parallel operation required with any existing Transformer If parallel operation is required with any existing transformer. Please give existing transformer rating plate (Rating, Vector group, Ratio, OLTC tapping range), Existing transformer impedances (Max. voltage tap, Normal volt. tap, Min. Volt. tap). Existing OLTC, AVR details and existing OLTC schematics.	It is not clear to which clause the clarification request is referring. The requirement of Section VII-5, clause 5.2.2.13 shall be followed: *Transformers shall be able to be operated in parallel **with** other transformers of the same characteristic.*

№	Reference	Query	Clarification
142.	Part II, Section VII-5, Technical specification, clause- 5.2.2.1, Flux density and the magnetizing current	As per this clause « *when operating under the most onerous conditions, the flux density in any part of the magnetic circuit does not exceed 1.8 T and the magnetizing current must not exceed 5% of the rated load current at normal rated voltage.* « Here most onerous condition is not specified so, we understand most onerous condition is +/- 10% combine voltage and frequency variation & So, depending on that magnetizing current will be higher than specified values.	Confirmed
143.		There is discrepancy is Flux Density in GTP For each rating. Please confirm Flus density to be followed.	The clarification request is not clear, as no reference was indicated. The flux density in the data sheets refers to rated condition, whereas the requirement in the specification refers to most onerous condition.
144.	Part II, Section VII-5, Technical specification, clause- 5.2.2.1, end plates of the assembly and clamp structure shall be of a nonmagnetic	The bolts, nuts, and end plates of the assembly and clamp structure shall be of a nonmagnetic /magnetic type depend on our design practice	Shall be subject to approval at design stage.

№	Reference	Query	Clarification
145.	Part II, Section VII-5, Technical specification, clause- 5.2.2.2, ZnO protective elements	For higher voltages ZnO protective elements may required to reduces stresses in the winding. So, we will consider if necessary as per design requirements	Shall be subject to approval at design stage.
146.	Part II, Section VII-5, Technical specification, clause- 5.2.2.2, Impedance voltages on extreme tapping	As per this clause « *Impedance voltages on extreme tappings shall not deviate from those for principal tappings by a percentage value of more than two third (2/3) of the difference in percentage tapping factor between the concerned tappings and the principal tappings*» this depend based on tap range & different rating so we will furnish extreme tap impedance values as per our design	Confirmed
147.	Part II, Section VII-5, Technical specification, clause- 5.2.2.1, 5.2.2.2 Use of timber for insulation parts subject to test voltage stresses equal to or higher than LI: 550 kV and/or AC: 230 kV shall not be accepted. The Contractor	We will use wood as per our standard design practices if required.	Shall be subject to approval at design stage.

№	Reference	Query	Clarification
	shall be responsible for the selection of insulation material.		
148.	Part II, Section VII-5, Technical specification, clause- 5.2.2.6, hot dip galvanized steel the minimum thickness of galvanizing shall be 100 µm.	We confirm C5M environment condition as per data sheet HDG and its thickness (eg for radiator) where applicable based on our std. practices only but we confirm C5M requirement as per specifcation	The requirement of the specification shall be followed.
149.	Part II, Section VII-5, Technical specification, clause- 5.2.2.7	Oil shall be inhibited Mineral Oil as per IEC 60296 against mention Mineral / Bio-based oil (in accordance with IEC 61099)	The requirement of the specification shall be followed.
150.	Part II, Section VII-5, Technical specification, clause- 5.2.2.10 / 5.2.2.12 OLTC Short ckt current	As per this clause « *The on-load tap changer shall be designed to withstand maximum short-circuit current as specified for the transformer*» As OLTC will be installed in phase (winding) so, Short ckt current will depend on transformer self impedance only so, OLTC will have SC withstand current accordingly	Shall be subject to approval at design stage.

№	Reference	Query	Clarification
151.	Part II, Section VII-5, Technical specification, clause- 5.2.2.12 OLTC First maintenance, Second maintenance and replacement, Third maintenance	OLTC we will offer Vacuum type Make ABB/ Hitachi, Sweden as per specification & maintenance(first, second, third), replacement period is based on OLTC operational ,load etc. so same same shall be as per OLTC supplier We have supplied ABB/ Hitachi, Sweden OLTC in many NEA projects	Shall be subject to approval at design stage.
152.	Part II, Section VII-5, Technical specification, clause- 5.2.2.12 regulators shall be installed in a dedicated AVR cabinets	The regulators /AVR shall be installed in RTCC (in control room) against dedicated AVR cabinets installed inside the control equipment room.	The AVRS shall be installed in dedicated control panels which shall be located in the control equipment room, as specified.
153.	Part II, Section VII-5, Technical specification, clause- 5.2.2.16, 5.2.2.23 Transformer condition monitoring	We understand as per data sheet cl 6.1.3.21.2, 6.1.4.20.2, 6.1.2.21.2 following is not required/ Not applicable for 63 MVA,30 MVA and 8 MVA -Please confirm Transformer condition monitoring & as described in more detail below and defined in the Tech-nical Data Sheets, including:	Confirmed, condition monitoring is not required, for 63 MVA,30 MVA and 8 MVA transformers, as clearly indicated in Data Sheets clause 6.1.3.21.2, 6.1.4.20.2, 6.1.2.21.2

№	Reference	Query	Clarification
		- Top Oil and winding temperatures (FO) - DGA (>3 gases) and moisture in oil - ambient temperature - HV and MV windings current - Calculations: Winding hot spot, bubbling temperature, ageing rate, water content in winding paper insulation, cooling system efficiency. & also PD measurements for Bushing/ Transformer	
154.	Part II, Section VII-5, Technical specification, clause- 5.2.2.21 Oil level indicators with separate sensor	Oil level indicators shall be of magnetic type only & without any separate sensor and indicating unit -Please confirm	Confirmed
155.	Part II, Section VII-5, Technical specification, clause- 5.2.2.22 FOS	FOS probe & channel details required FOS type test report as per supplier shall be provided during detail engg as per previously executed NEA orders	Shall be subject to approval at design stage.

№	Reference	Query	Clarification
156.	Part II, Section VII-5, Technical specification, clause- 5.2.2.27 QR Requirements Ability to withstand the dynamic effects of short circuit the Bidder/Contractor shall submit a proof that the sourcing transformer factory has already successfully demonstrated the same by test for at least two similar transformers	We will provide design review of the offered transformer as per « IEC60076-5 A.3.3.3 Design review by check against manufacturer's design rules for short circuit strength» We will not prove SC similarity with existing Short ckt. tested (with reference) transformer. -Please confirm Further, note that We will also give Short circuit withstand capability by calculation during detail engineering stage. We can furnish higher rating (MVA and KV) SC test report. # so, SC test shall not be performed on any offered rating -Please confirm	The requirement of the specification shall be followed.
157.	Part II, Section VII-5, Technical specification, clause- 5.2.2.27 Measurement of no-load loss and current and time	No-load loss and no load current test will be based on IEC 60076 for 90% to 110% voltage	IEC 60776-1 shall be applied.

№	Reference	Query	Clarification
158.	Part II, Section VII-5, Technical specification, clause-5.2.2.27: Ability to withstand the dynamic effects of short circuit (IEC 60076-5, subclause 4.2). For all Transformer	Please confirm, in case of demonstrate the ability to withstand the dynamic effects of short circuit of offered transformer **by theoretical calculation** *with IEC 60076-5, subclause 4.2 and IEEMA guideline for short circuit force calculation. However, any similar design transformer for comparison under IEC 60076-5, subclause 4.2 annexure -A & Annexure -B will be excluded from the post-order design review & evaluation.* *Further, Bidder will submit a proof that the sourcing transformer factory has already successfully demonstrated the same by test for at least two similar or higher rating transformers (in terms of Voltage kV class and MVA capacity Rating). This proof shall be submitted together with the Technical Bid.*	The requirement of the specification shall be followed.

№	Reference	Query	Clarification
159.	Part II, Section VII-5, Technical specification, clause- 5.4.2 No load, load loss and Aux. loss	We understand losses shall be offered as per capitalization rates given in 5.4.2 Evaluation	Losses shall be optimized by the Bidder. Clause 5.4 details how losses will be evaluated and penalized.
160.		W kG loss of CRGO will be depend on available CRGO type and design parameter. Bidder suggest to keep it open. Please confirm your acceptance.	Please refer to clarification item No. 159 above
161.		There is no mention on Type of bushing for 132 kV & 33 kV. Bidder request to provide type and details for the same.	Type of bushings is defined in VII-8 Technical data sheets, 6 Transformers. For 33 kV and below bushings, please also refer to clarification item No. 185 below.
162.		The creepage mentioned for the bushing as 43.3 mm/ kV (USCD) i.e. 31 mm/kV SCD. Please confirm.	Confirmed
163.		Type of insulation for all transformer Bidder understand insulation will be as per design only as per applicability of kV class. Please confirm.	Insulation shall be appropriate for the insulation levels defined in VII-8 Technical data Sheets.

№	Reference	Query	Clarification
164.	Part II, Section VII-5, Technical specification, clause- 6.3.2 Electrical Cubicles/Panels seismic withstand capability the complete cubicle	For Transformer marshalling box and RTCC seismic withstand capability is not considered / applicable -Please confirm & no type test report is not available for such test. We will offer RTCC & Mbox as per NEA previously executed orders	The specification requirement shall be followed.
165.	Part II, VII-5 Technical Specifications, Clause- 6.3.4 Enclosure and Ventilation	In the following clause IP-55 class panels has been asked , however in the GTP IP-54 is mentiond. For indoor applications we suggest IP-54 , kindly confirm.	IP 55, as specified in Part II, VII-5 Technical Specifications, Clause- 6.3.4 Enclosure and Ventilation is the general requirement. IP 54 is acceptable for specific applications, as specified in VII-8 Technical Data Sheet.
166.	Part II, Section VII-5, Technical specification, clause 9.9.17 Synchrophasor Measurement Unit	Bidder request to provide the quantity of the PMU's for both the stations.	This is clearly specified in VII-1 Project Description and Scope of Works, Clause-3.2.10 and shall be followed accordingly.
167.	Part II, Section VII-5, Technical specification, clause 9.9.2 Line differential protection (87L)	Bidder understand that Line Differential relays are not applicable for this project, please confirm.	The understanding is wrong. Line Differential protection is to be provided as defined in VII-1 Project Description and Scope of Works

№	Reference	Query	Clarification
168.	Part II, Section VII-5, Technical specification, clause 10.2.1.4 Interface to Remote Control Centers	As per the Annex D5-14 & Annex D5-15, IEC-104 protocol is shown for the data transfer , should be consider only the IEC-104 protocol in the gateways for data transfer to upper level. Bidder understand that IEC-101/Modbus Serial-TCP/IP/IEC-101 is not required for gateway functionality. please confirm.	Bidder understanding is not confirmed. As already specified under Section VII-5/10.1.2.4 Interface to Remote Control Centers, IEC 60870-5-104 is envisaged to be used on both(2) ports of each gateway for both main &back-up gateway channels. However, the Change of protocols on the ports shall not require any change of software or firmware , but need to be selectable via parametrization. Therefore, the functionality of the gateway shall allow doing so.
169.		We understand for Power Transformer except FOS no special accessories, DGA, NIFPES are required -Please confirm a) Online Dissolved Gas (Multi-gas) and Moisture Analyzer b) On-line insulating oil drying system (Cartridge type) c) Digital RTCC panel e) oil storage tank d) On line dissolved Hydrogen and Moisture Measuring Equipment	The request for clarification is not clear, The requirements of the specification shall be followed.

№	Reference	Query	Clarification
		e) Nitrogen Injection Type Fire Prevention & Extinguishing System f) Managed Ethernet switch, LIU patch cords etc. g) Test Kit BDV Kit (if specified in BPS)as per Annexure-H of specification Portable DGA Kit h) Oil Sampling Bottle Oil Syringe I) Hand tools	
170.		We have not received any make list for transformer. If any make list please furnish the same. Presently we have considered makes as per Hitachi standard practices. Please refer attached make list.	Please refer to Part I Section III Item 2.1c, bidder may nominate up to three alternative manufacturers.
171.	Communication equipment	Bidder requrest for acceptance of "MPLS-TP" instead of hybrid (SDH+MPLS-TP) at 220 kV GIS	Requirements of the Specification shall be followed.

№	Reference	Query	Clarification
		Lekhnath Damauli Substations project. Advantages of MPLS-TP are as per below; 1. High Bandwidth 2. Long-Term Spare support 3. SDH technology is nearing its End of Life and Support phase, hence hybrid is also not recommended. M/s NEA, Nepal is also started the acceptance of "MPLS-TP" in recent Pokhara-Bharatpur project and having MPLS-TP specification.	
172.	Metering system	i) As per Specification, section VII-5 Technical Specifications, clause 12.1.3, & Section VII-9 Annexes (D5-5 to D5-8), Energy meter accuracy class shall be **0.2s**, whereas in specification, section VII-1 Project Description and Scope of Works, clause 3.2.13, & 3.3.14, it is mentioned as «Meters shall be	The accuracy class of metering core and meter shall be 0.2S for all voltage levels.

№	Reference	Query	Clarification
		connected to the **class 0.2** metering cores.» Please confirm the accuracy class of Metering system.ii) As per specification, section VII-1 Project Description and Scope of Works, clause 3.2.13, & 3.3.14, Energy meters shall be provided for 33kV & 11kV bays, whereas in Specification, section VII-8 Technical Data Sheets, clause 5.1.6, 5.2.5, 5.3.5. & section VII-9 Annexes (D5-9A & D5-9B) there is no seperate core for metering with 0.2/0.2s class. Please confirm requirement of meters for 33kV & 11kV bays.	
173.	VII-8 Technical Data Sheets, Clause 1.5.4 & 2.7.5 String Insulators	As per Technical data sheet for 220kV & 132 String Insulator clause 1.5.4 & 2.7.5, insulating body material is silicon, whereas the same is porcelain as per specification, section VII-5 Technical Specifications, clause 2.8.4.1. As the above clauses are contradicting, please clarify the type of insulator i.e. Porcelain (or) Silicon.	Silicone Insulators shall be provided as defined in Technical data sheet for 220kV & 132 String Insulator clause 1.5.4 & 2.7.5

№	Reference	Query	Clarification
174.	VII-8 Technical Data Sheets, Clause-3.1.27, Type of enclosure (bus bar/feeder)	Please clarify whether 3-phase enclosure design is acceptable for 220kV GIS Busbar.	3-phase enclosure is not acceptable, the specification requirement shall be followed.
175.	Part II, Section VII-8 Technical Data Sheets, clause-2.1.6	As per the referred clause, the 132kV AIS circuit breaker shall be suitable for Single phase & three phase operation. As 145kV Circuit breakers are of three phase design having one common CB operating mechanism, single pole operation is not possible. Hence, we request NEA to accept 3-phase gang operated circuit breaker with one common operating mechanism.	Three phase design three phase operated is acceptable. Section VII-8 Technical Data Sheets, clause-2.1.6 "single pole - single break per pole" shall read "*three phase / three phase operated*"
176.	Part II, Section VII-8 Technical Data Sheets, clause-4.2.40	As per the referred clause, the 132kV GIS circuit breaker shall be suitable for Single phase & three phase operation. As 132kV GIS is three phase encapsulated design, we request NEA to amend this clause to three phase operation only.	Single phase operation is possible for 132 kV GIS and shall be provided for OHL feeders, other feeders three phase is acceptable. Section VII-8 Technical Data Sheets, clause-4.2.40 shall read „*OHL feeders:* single phase */ other feeders three phase*".
177.	Part II, Section VII-8 Technical Data Sheets, clause-4.2.40	In continuation to the above query 132kV single pole operation is not applicable for transformer & bus-coupler bays. Please confirm.	Confirmed

№	Reference	Query	Clarification
178.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.2.2.3, 6.1.1.16. Flux density	As per Clno: 6.1.1.2.3 magnetic flux density at rated voltage and frequency Max 1.65, however as per cl 6.1.1.16.2, it is 1.60 Tesla. - Please check and confirm final requirements.	Max 1.65 shall apply. Section VII-8 Technical Data Sheets, clause-6.1.1.16.2, 6.1.2.16.2, 6.1.3.16.2, 6.1.4.15.2, 6.2.1.8.2, 6.2.2.8.2 shall read "Max 1.65 T"
179.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.2.16.2, 6.1.3.16.2,6.1.4.15.2 Flux density	Magnetic flux density at rated voltage and frequency Max 1.60 however as per cl 6.1.2.2.3, 6.1.3.2.3, 6.1.4.2.3 it is 1.65 Tesla. - Please check and confirm final requirements	Please refer to clarification item No. 178 above
180.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.1.4, Tertiary rated power of 100MVA 1-phase transformer	The tertiary winding shall be designed in such a way that the active loading of the transformer tertiary shall be limited to 5MVA (Max). Please confirm.	The specification requirement shall be followed.
181.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.1.5.8		Required value for rated lightning impulse withstand voltage shall read "250" instead of "170".
182.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.1.5.9		Required value for rated short-duration induced or separate source AC withstand voltage shall read "95" instead of "70".
183.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.1.12.9		Required value for rated lightning impulse withstand voltage shall read "250" instead of "170".

№	Reference	Query	Clarification
184.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.1.12.10		Required value for rated power frequency withstand voltage (dry) shall read "95" instead of "70".
185.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.1.9 & 6.1.3.9, Bushings	We propose Solid porcelain bushings for 33kV & below voltage level. Please confirm acceptance.	Porcelain is also acceptable for 33 kV and below
186.	Part II, Section VII-8 Technical Data Sheets, clause- 6.1.1.10 , 6.1.1.11 ,6.1.1.12,6.1.1.13, RIP Bushings & Terminations	We understand RIP type bushing are required for 52 kV and above voltage level similar to other NEA project -Please re- confirm Also we have considered Termination for HV, IV, TV & LV side OIL-AIR Bushings- Please confirm	Porcelain is also acceptable for 33 kV and below. Direct termination SF6/oil shall be provided where specified.
187.	Part II, Section VII-8 Technical Data Sheets	With reference to GTP, we understand that voltage class is 220/132 kV for 63 MVA. Please confirm whether tertiary winding is required as per site requirement or not?	Tertiary winding shall be provided as defined in Section VII-8 Technical Data Sheets, clause-6.1.2
188.		Please confirm requirement of tertiary winding in Power Transformer 63 MVA & 30 MVA. Bidder suggest to exclude Tertiary winding from scope, if aux load not required.	Specification shall be followed, tertiary winding shall be provided as defined in Section VII-8 Technical Data Sheets, clause-6.1.2 / 6.1.3.

№	Reference	Query	Clarification
189.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.2.1.8, 6.1.2.1.10	For Power Transformer 63 MVA, & 30 MVA vector group Is mentioned as YNyn0+d & also as per VII-1 cl 3.3.5.1, 3.3.5.2 tertiary is mentioned as Stabilizing type however the voltage and MVA rating of stabilizing winding is not mentioned -Kindly furnish the same.	The data of the stabilizing winding are to be determined by the Bidder / Contractor as part of the transformer design.
190.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.2.1.10, 6.1.3.1.15 & 6.1.4.1.15	We presume that the tertiary winding shall be provided as a stabilizing winding for the following ratings. a) 220/132kV, 50/63MVA transformer b) 132/33kV, 24/30MVA transformer c) 33/11kV, 6/8 MVA transformer Further the tertiary winding shall be buried inside the transformer tank. Please confirm.	Confirmed
191.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.2.1.13, 6.1.2.1.14, 6.1.3.1.13, 6.1.3.1.14, 6.1.2.5.7, 6.1.3.5.7	In clauses 6.1.2.1.13, 6.1.2.1.14, 6.1.3.1.13, 6.1.3.1.14 its mentioned as primary : Uniform & secondary : Uniform However, as per cl 6.1.2.5.7, 6.1.3.5.7 , 220kV & 132kV is graded	The power transformers shall be provided with uniform insulation, as defined in clause-6.1.2.1.13, 6.1.2.1.14, 6.1.3.1.13, 6.1.3.1.14

№	Reference	Query	Clarification
		with insulation class 52 kV (250kVp/95kV rms) so, we will consider graded insulation for HVN winding -Please confirm	
192.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.3.7 Impedance 24/30 MVA Transformer	Looking at the extreme tap impedance values may be the impedance requirement @ normal tap shall be 12.5 % against 10.5% Please check and confirm impedance at normal and extreme tap with base MVA Nominal tap : 10,5 Maximum tap : 15,4 Minimum tap : 10,3	Impedance at nominal tap shall be 10,5%, as indicated in the data sheet. Impedance at extreme taps shall be proposed by the Bidder / Contractor subject to approval at design stage.
193.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.3.11.6 , 6.1.3.13.6,6.1.4.10.6 ,6.1.4.11.6 , 6.1.4.6.2 Fault level for 36kV and 11kV	As per these clauses 36 kV Rated thermal short time current is 40 kA & as per 6.1.3.6.2 / 6.1.4.6.1 it is 25kA & also as per VII-4 cl 3 the value is 25kA So, we will consider 25kA for 36kV and 11kV -Please confirm	Items 6.1.3.11.6, 6.1.3.13.6,6.1.4.10.6 ,6.1.4.11.6 , refer to the short circuit rating of the transformer bushings, whereas 6.1.3.6.2, 6.1.4.6.2, 6.1.4.6.1 refer to the short circuit level of the system. Both need to be carefully distinguished. The specified values shall apply.

№	Reference	Query	Clarification
194.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.4.1.15 tertiary -	As its vector group is Dyn11 we understand tertiary is not required for 6/8 MVA as its vector group already have Delta winding & further as per VII-1 cl 3.3.5.3 its not mentioned so, We will not consider stabilizing/ tertiary winding for 8 MVA-please check and confirm	Confirmed, no stabilizing/ tertiary winding for 8 MVA transformer is required Clause-6.1.4.1.15 shall be disregarded / considered void.
195.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.4.15	Vector group & Stabilizing winding for 8 MVA As its vector group is Dyn11 we understand tertiary is not required for 6/8 MVA as its vector group already have Delta winding & further as per VII-1 cl 3.3.5.3 its not mentioned so, We will not consider stabilizing/ tertiary winding for 8 MVA-please check and confirm	Please refer to clarification item No. 194 above

№	Reference	Query	Clarification
196.	Part II, Section VII-8 Technical Data Sheets, clause-6.1.2.23, 6.1.3.23, 6.1.4.22 & 6.2.1.10, Tank mounted surge arresters for transformers	As per technical data sheet, the surge arresters for transformers are mentioned as"Tank mounted". As it will be difficult to mount the surge arresters for higher voltage levels, we request NEA to accept either stand alone or tank mounted surge arresters.	Shall be subject to approval at design stage.
197.	Part II, Section VII-8 Technical Data Sheets, clause-7.1, LVAC Main Switchgear, Sl. No. 7.1.3, Outgoing feeders	We presume that the outgoing feeders can be MCCB or MCB based on their rating as mentioned in VII-5 Technical Specifications, Clause-6.3.10. Please confirm.	The specification requirement shall be followed.
198.	Part II, Section VII-8 Technical Data Sheets, Clause 11.6, Clamps for connection to the outdoor terminations top-bolt (132kV cable)	In referred clause, Voltage rating of Clamps for connection to the outdoor terminations top-bolt is mentioned as **220kV**. We understand the same is a typo error & it shall be read as **132kV.** Please confirm.	Confirmed, should read "132 kV"
199.	Part II, Section VII-9 Annexes, D4-3 Updated GTI Report 2022-6-27	Borehole Location- Damauli The 4 nos. Borehole locations shown in Soil investigation report of Bidding documents for Damauli substation, which does not lie in the 220 kV Platform area of existing scope as per the layout. Kindly confirm whether the borehole locations lies in the	Annex D4-3 includes five boreholes in the 220 kV substation area, two of them are on the substation platform, and available soil investigation report.

№	Reference	Query	Clarification
		existing scope of works. And provide complete Soil Investigation report.	
200.	Part II, Section VII-9 Annexes, D4-3 Updated GTI Report 2022-6-27	a) Bidder requests to furnish the lateral and uplift capacity of pile foundations. b) Please suggest methodology for soil improvement below retaining wall etc. based on field and laboratory data	This is to be determined by the Bidder / Contractor.
201.	Part II, Section VII-9 Annexes, D4-3 Updated GTI Report 2022-6-27	Borehole Data- Lekhnath As per the soil investigation report there is only one borehole data available for Lekhnath Substation. Bidder requests following: a) to provide other borehole data for Lekhnath Substation b) to provide Section details of existing foundations of existing 132kV Substatation	a) borehole data of only one borehole is available at Lekhnath Substation b) Section details of existing foundations of existing 132kV Substatation are not available
202.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	In the Layout, Aux. Bus arrangement is shown in outdoor area above firewall while in SLD there is no Aux. bus and spare 1-ph. trafo has been shown.Please clarify.	Please refer to Part II, Section VII-1 Project Description and Scope of Works, Clause 3.2.1 for detailed description

№	Reference	Query	Clarification
203.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	In layout, arrangement shown for 132KV conductor connection from 132KV extn. Yard to 220/132KV transformers doen't seems to be executable practically and as per bidder understanding it can be done only by adding more towers/ angle towers/beams may need to be added. Accordingly please provide detialed confirm.	Design shall be provided with one angle tower as per the Bidding Document. Please take note that OHL interconnection including angle tower is within Package A, refer to Section VII-1 Project Description and Scope of Works, Clause 3.2.1 for details.
204.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	"Bidder request to confirm that the Main earth Mat has to be laid in present scope of work area only for 132KV and 220KV."	Please refer to VII-1 Project Description and Scope of Works, Clause 3.2.15 for details.
205.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	Bidder request to share the existing Layout plan and section / earthing layout / EKD / Cable trench Layout for the existing 132KV yard.	Please refer to Amendment No. B-2, Item 7 / Annex D5-28 and D5-29 for reference. Further details shall be elaborated by the Contractor in design stage.
206.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	"In scope 1-ph. VT is mentioned while in SLD 1 ph. CVT is shown for 132KV trafo bays. Please clarify the requirement."	Please refer to clarification item No. 120 above
207.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation	Begnas Pump Storage 1 Begnas Pump Storage 2 Bidder understand that CRP for mentioned bays are not in scope, Please confirm.	Feeders for Begnas Pump Storage 1 and Begnas Pump Storage 2 are future, only space provision to be made, no equipment in scope.

№	Reference	Query	Clarification
208.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	Bidder understand that the equipment to equipment distances shall be considered as per the existing yard only. Please provide existing drawings Plan, Section and Layout of existing 132kV AIS yard.	For extension of existing switchyard, the equipment clearances shall correspond to the existing switchyard, please refer to Please refer to Amendment No. B-2, Item 7 / Annex D5-28 and D5-29 for reference.
209.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	Please specify the fault rating and current rating of existing 132KV Busbar as well as equipments.	For existing busbar, please refer to Amendment No. B-2, Item 7 / Annex D5-28 and D5-29 and to clarification item No. 210 below. Fault rating and current rating of the extension of the 132 kV switchyard shall be in accordance with Section VII-4 Particular Technical Requirements, clause 3, Basic System Values, VII-8 Technical datasheet and VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation.
210.	Part II, Section VII-9 Annexes, D5-3, Layout for Lekhnath substation	Please provide the following details w.r.t 132kV Main busbar which need to be extended under this contract at Lekhnath substation. a) Main bus is Flexible (or) Rigid tube? b) Material, type & size of the Main bus conductor	a) The existing main busbar is rigid type. b) Main bus conductor is 3 inch SC 80 Aluminium Tube
211.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	We understand that Fault rating of 220KV equipments/ conductors / bus etc. shall be 40KA for 1 sec.	Please refer to Section VII-4 Particular Technical Requirements, clause 3, Basic System Values, VII-8 Technical datasheet and VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation.
212.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for	"Refer to Layout the Interconnection of Spare Transformer at 220kV Side shown	Please refer to Part II, Section VII-1 Project Description and Scope of Works, Clause 3.2.1 for detailed description.

№	Reference	Query	Clarification
	Lekhnath substation / D5-3 Layout Lekhnath substation	with Aux bus arrangement at Firewall. Bidder understand the 2 nos. Isolators and Bus post insulators including Structure will be required for each Trasnformer in order to connect the Spare Transformer. Otherwise during the switching to Spare transformer it will very time and cost consuming activity including supply of consumables, re-installation, re-testing & re-commissioning activity every time. Please correct the understanding of bidder and clarify the scope. "	Deatails to be elaborated by the Contractor during design stage.
213.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	Refer to Layout the Interconnection of Spare Transformer at 132kV Side shown with Aux bus arrangement at Firewall. Bidder understand the 2 nos. Isolators and Bus post insulators including Structures will be required for each Trasnformer in order to connect the Spare Transformer. Otherwise during the switching to Spare transformer it will very time and cost consuming activity including supply of consumables,	Please refer to Part II, Section VII-1 Project Description and Scope of Works, Clause 3.2.1 for detailed description. Deatails to be elaborated by the Contractor during design stage.

№	Reference	Query	Clarification
		re-installation, re-testing & re-commissioning activity every time. Please correct the understanding of bidder and clarify the scope.	
214.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	Refer to Layout the formation of Tetiary arrangement of 33kV Side is not shown on the firewall in the layout for each Transformers. Aluminium tubes are crossing over the Trasnformers (layout) or side wise (refering scope of work layout). Also understand Isolator / BPI / Structure will be required. Please clarify the arrangement to be done.	Please refer to Part II, Section VII-1 Project Description and Scope of Works, Clause 3.2.1 for detailed description. Details to be elaborated by the Contractor during design stage.
215.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	If the Bus Arrangement for each voltage or Tertiary formation to be done on Firewall only then bidder understand the firewall will be huge in dimension. please provide the plan and section of firewall And clarify the scope.	Please refer to Part II, Section VII-1 Project Description and Scope of Works, Clause 3.2.1 for detailed description. Details to be elaborated by the Contractor during design stage.
216.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	Since the control panel for 2 nos. 132kV AIS bays of exisitng 132kV yard shall be kept in 220kV Control room. In this scenario the New cable trench for power and control	The control and protection panels for the two 132 kV extension bays shall be located inside the existing control building, as described in VII-1 Project Description and Scope of Works, Clause 3.2.9.

№	Reference	Query	Clarification
		cable shall be constructed between New 220kV GIS Substation area to 2 bays of 132kV AIS extension area. In this case one Road crossing is expected. Exisitng cable trench will not use. Please confirm bidder understanding is correct.	Cable channels, ducts etc. shall be provided from 220 kV GIS building to the existing132 kV switchyard and control building, as defined in VII-1 Project Description and Scope of Works, Clause 3.4.8.1.
217.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	1 no. Transmission tower including Conductor, Stringing Hardware, accessories are part of pkg A tender. In Pkg B Bidder will consider the jumper connection and suitable clamps in order to interconnect at both end of Over Head line. Please confirm bidder understanding is correct.	Please refer to Part II, Section VII-1 Project Description and Scope of Works, Clause 3.2.1 and Clause 4.1 for detailed description and definition of interfaces.
218.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	All single phase trasnformers are under the Tower and Gantry of Substation. please confirm.	The autotransformers shall be located as indicated in Section D5-3 Layout Lekhnath substation
219.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation / D5-3 Layout Lekhnath substation	11kV XLPE cable is underground and crossing below the existing 132kV yard where old / Damage Transformer are kept at present. And we understand Tower	There are possibilities of existing underground 11 kV XLPE cables. Therefore, any excavation and construction activities in that area shall be carried out carefully, not to damage any existing cables. In case relocation should be necessary, details shall be determined at execution stage.

№	Reference	Query	Clarification
		foundation will be fall at same location. Please confirm the suitble shutdown will be provided during execution period. Any shifting/ supply/ laying / testing and commissioning of under ground 11kV Cable is not part of scope.	Any required shutdown will be managed by NEA.
220.	Part II, Section VII-9 Annexes, D5-3 Layout Lekhnath substation	In layout of Lekhnath Note no 1 states for 11 kV Switchgear and 2 floor building. Bidder understands this as the Control Room building for 33 kV Switchgear as shown in the layout. Please confirm.	The note shall read „... for the 33 kV Switchgear ...". This note refers to the building adjacent to the GIS building. Further details are shown in VII-9 Annexes, D5.- 18 LEKH. 220-33 kV Cont. Build.
221.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation	Bidder request to confirm weather space provision for future 220/132/33/11kV bays shown in BID stage SLD has to be considered or not in respective buildings.	Confirmed, space provision for future bays shall be considered in the buildings as shown in D5-3 Layout Damauli substation.
222.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation	"Please confirm weather Aux. bus arrangement for future 220/132kV transformer bays, has to be considered in GIS or or it will be in AIS, accordingly bidder can consider the space only for these future bays in GIS building."	Confirmed, space provision for auxiliary busbar arrangement shall be made as shown D5-1, Single line diagram for Damauli substation / D5-3 Layout Damauli substation and described in Section VII-1 Project Description and Scope of Works, Clause 3.3.1

№	Reference	Query	Clarification
223.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation	As per the referred SLD, the Busbar continuous current rating for 33kV Switchgear is 2000A. However, as per VII-4 Particular Technical Requirements, Clause-3, Basic system values, the busbar rating of 33kV switchgear is 1600A.As there are contradictions between the SLD & the basic system values, please clarify the actual rating to be followed for this project.	VII-4 Particular Technical Requirements, Clause-3, Basic system values, the busbar rating of 33kV should read "2000A" Please refer to clarification item No. 123 above
224.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation	As per the referred SLD, the Busbar continuous current rating for 11kV Switchgear is 800A. However, as per VII-4 Particular Technical Requirements, Clause-3, Basic system values, the busbar rating of 11kV switchgear is 630A. As per the technical datasheet, clause-5.3.3.4, the busbar rated current is 1250A. As there are contradictions between the SLD, the basic system values & datasheet, please clarify the actual rating to be followed for this project.	VII-4 Particular Technical Requirements, Clause-3, Basic system values, the busbar rating of 11kV switchgear shall read "1250 A" Please refer to clarification item No. 123 above VII-9 Annex D5-2, Single line diagram for Damauli substation busbar rated current of 11 kV switchgear shall read "1250 A". Please refer to clarification item No. 123 above

№	Reference	Query	Clarification
225.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation	As per the referred SLD, the Busbar continuous current rating for 220kV GIS Switchgear is 3000A. However, as per VII-4 Particular Technical Requirements, Clause-3, Basic system values, the busbar rating of 220kV GIS switchgear is 2500A. As there are contradictions between the SLD & the basic system values, please clarify the actual rating to be followed for this project.	VII-4 Particular Technical Requirements, Clause-3, Basic system values, the busbar rating of 220kV GIS switchgear shall read 3000A.
226.	Part II, Section VII-9 Annexes, D5-1, Single line diagram for Lekhnath substation	As per the referred SLD, the Busbar continuous current rating for 33kV Switchgear is 2000A. However, as per VII-4 Particular Technical Requirements, Clause-3, Basic system values, the busbar rating of 11kV switchgear is 1250A. As there are contradictions between the SLD & the basic system values, please clarify the Tertiary winding voltage level & current rating to be followed for this project.	Please refer to clarification item No. 123 above VII-4 Particular Technical Requirements, Clause-3, Basic system values, the busbar rating of 11kV switchgear shall read 2000A.

№	Reference	Query	Clarification
227.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation	Bidder request to confirm that the Fault rating of 132kV & 220kV equipments/ conductors / bus etc. shall be 40kA for 1 sec. & Fault rating of 33KV and 11KV equipments/ conductors / Bus etc. shall be 25KA for 1 sec.	Please refer to clarification item No. 124 above
228.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation	Bidder request to provide Site Co-ordinates of plot. / Fence area.	Please refer to Amendment No. B-2, Item 7 / Annex D5-30 (georeferenced file).
229.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation	"Bidder request to confirm that the relocation of Oil pit is possible."	Location of oil pit can be optimized during design stage, subject to approval. However, the oil pit shall not be located in areas designated for vehicle traffic / access.
230.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation	132kV GIS interconnections are shown as combination of Bus duct and Cable connection both. Such requirement is complex and may increse overall requirement of the project. Since Cable celler area has to be constructed for 2 nos. feeder bidder request to accept the Cable module for each bays of 132kV GIS. In this case 132kV XLPE Cable and termination Kits with structure at each end will be requried.	132 kV GIS interconnections shall be provided as defined in the bidding document. For the 132kV GIS part no cable room is foreseen, the 132/33/11kV switchgear room floor level shall be above the ground level as shown in Annex D5-20.

№	Reference	Query	Clarification
		Please confirm the same.	
231.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation	"132kV GIS is shown is shown with Bus duct and Cable connection. Please suggest Cable module is acceptable for each bay of 132kV GIS. "	For the 132kV GIS part no cable room is foreseen, the 132/33/11kV switchgear room floor level shall be above the ground level as shown in Annex D5-20. The concept of the Bidding Document shall be followed.
232.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation	220kV GIS Bus ducts are overlapping with each other,which is not recommended for asthetic and maintanece point of view. also such overlapping may require additional arrangement. Also when bidder will plot the phase wise busduct for each feeder then more space will be required. At the same time the sequesce of "Lekhnath feeder 1", "Tanahu HPP 1" and "Bharatpur 2" are shown at one side of Bus coupler however other side"Lekhnath feeder 2", "Tanahu HPP 2" and "Bharatpur 1"	The Bidder is free to increase the space for the 220kV GIS Bus ducts, the corresponding increase of site preparation works shall be considered in Bidders proposal. The sequence of feeders shall remain as indicated in D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation. For the 220kV GIS building no cable room is foreseen, the 220kV switchgear room floor level shall be above the ground level as shown in Annex D5-19.

№	Reference	Query	Clarification
		are kept. If bidder consider the same sequence then the bidder recommended that instead of Bus Duct M/s NEA should revise the requirement with 220kV XLPE Cable and termination Kits along with structures at each end and Cable celler area in GIS Building. Please confirm the same.	
233.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation	220kV Cable trench connecting to future MCA project. Please confirm it is not in scope of the bid. If yes then provide the size and Section of Cable trench to be constructed.	Cable channel for 220 kV cables from the 220 kV GIS up to the fence towards the future 400 kV Substation shall be provided as defined in VII-1 Project Description and Scope of Works Clause 3.4.8.2 and indicated in D5-4 Layout Damauli substation. The size shall be sufficient to accommodate the cables to the future 400/220 kV transformers. Details shall be developed by the Contractor during design stage subject to approval.
234.	Part II, Section VII-9 Annexes, D5-2, Single line diagram for Damauli substation / D5-4 Layout Damauli substation	"Cable duct for Future 220kV Cable" shown in the layout. Please confirm it is not in scope of the bid. If yes then provide the size and Section of Cable trench to be constructed.	Please refer to clarification item No. 233 above

№	Reference	Query	Clarification
235.	Part II, Section VII-9 Annexes, D5-16 Chabdi River Hydrological Analysis Report	Bidder understands that the data and levels like FGL, Platform level, Retaining wall levels etc. mentioned in the annexures of bidding documents are the basis for design of development works like retaining wall, drainage, 220 kV Platform etc. Accordingly the same shall be binding for the contract and M/s NEA shall be responsible for the hydrology study (if required). Hence any change in data or levels as per bidding docuements shall be a time and price compensation to the bidder. Please confirm.	The Hydrological Analysis Report included in Part II, Section VII-9 Annexes, D5-16 is the basis and shall be followed.
236.	Part II, Section VII-9 Annexes, D5-18, D5-19 & D5-20	a) We understand that the unit of measurement is in meters. Please confirm. b) Please specify the minimum area requirement for each room in the Control building	a) Confirmed (see Scale (m)) b) The size of rooms shall be determined by the Contractor during design stage, subject to approval, taking into consideration the requirements, as identified in the relevant parts of the bidding document, especially as detailed in Section VII-6, Technical Requirements-Civil Works. The room size indicated in layouts shall constitute minimum requirements.
237.	Part II, Section VII-9 Annexes, D5-20	In Lekhnath the Firewall for 132/33 and 33/11 kV Transformer is also shown towards the building side.	Confirmed

№	Reference	Query	Clarification
		If yes, than Bidder shall not include Fire proof walls for building. Kindly confirm.	
238.	Part II, Section VII-9 Annexes, D5-20	In Lekhnath some roof is shown for 132/33 and 33/11 kV Transformer. If yes than Bidder requests to provide roof details for Transformers. Otherwise not applicable please confirm.	No roof is shown for 132/33 and 33/11 kV Transformer, no roofs are foreseen for transformers.
239.	Part II, Section VII-9 Annexes, D5-20	Bidder understands that in Lekhnath and Damauli, bidder is free to design the Control Room Building and GIS Building as combined or separate ones. Please confirm the following; a) Case I - If the buildings are separate then the Control Room Building shall be RCC type and GIS building shall be of Pre Engineered Type. b) Case II- If the building are combined with 2 twin columns with a common wall still bidder shall be free to design RCC for Control	Separate buildings shall be considered as shown on Annex D5-20 (Case I - separate buildings, the Control Room Building shall be RCC type and GIS building shall be of Pre-Engineered Type.).

№	Reference	Query	Clarification
		Room Building and GIS hall shall be Pre Engineered Type.	
240.	Part II, Section VII-9 Annexes, D5-22	"Development of the external drainage collectors (hill side and 400kV site side)"- Bidder understand this drain is an open drain to be designed with stone masonry in trapezoidal shape. Kindly confirm.	Confirmed, this drain shall be constructed as an open drain, details are subject to approval during design stage.
241.	Part II, Section VII-9 Annexes, D5-22	"Development of a suitable drainage system to drain water from the 220 kV Platform area"- Bidder understand this drain is an open drain to be designed with RCC. Kindly confirm.	Confirmed, details are subject to approval during design stage.
242.	Part II, Section VII-9 Annexes, D5-26	The top level of retaining wall is shown as 334.5 m. Bidder request to confirm this level is same across the full retaining wall and there is no change as per wall top levels shown in river hydrology analysis.	The Bidder may consider a staged reduction of the height of the flood defence barrier wall, based on the levels from the hydraulic model of the 200-year flood, with consideration to necessary freeboard. The staging and freeboard will be subject to approval at detail design stage.

№	Reference	Query	Clarification
243.	Part II, Section VII-9 Annexes, D5-21, Telecommunications System, clause 2.3	The substations Sitalpati & Tumlingtar as mentioned in the referred clause are not relevant to this package. Hence, we do not envisage any supply or augmentation works at these stations. Please confirm.	Confirmed
244.	Part II, Section VII-9 Annex D5- 22; 3 Project Phasing, Phase 1- Damauli	"As per the site visit during pre bid meeting with NEA, the bidder was informed that the scope of permanent access road shall start after the point of religious site as marked in the layout of bidding documents. The bridge and Main Road (State Highway) upto religious site shall be in NEA scope. Please confirm."	Confirmed
245.		Bidder understand that GIS bay module ararngement and sequence may be changed during detailed engineering to suit site conditions and building column locations.Please confirm	The sequence of the subject GIS bays shall remain as indicated in the SLS and Layout drawings in Part II, Section VII-9 Annexes, D5-1 to D4-4.
246.	Point-on-Wave (PoW) Controller	We presume that point on wave controller shall be provided for 220kV & 132kV line bays only. Please confirm.	Point-on-Wave (PoW) Controller shall be provided for 220 kV OHL feeders and Auto Transformer Feeder. Please refer to Amendment No. B-2, Item 2

№	Reference	Query	Clarification
247.	Telecommunication Management Network / Network Management System	We presume that NMS is already available at Nepal LDC and bidder has to consider necessary integration works in their scope. Please confirm. Also please confirm the Make & Model number of NMS.	Integration works as defined in the bidding document shall be provided. Details shall be clarified during design stage.
248.	Auxiliary Power Supply System - Damauli Substation	We presume that Auxiliary transformer and LV auxiliary power supply system shall be designed only for 220/132/33/11kV substation. We presume separate LV auxiliary Power Supply System will be provided in future for 400kV Future extension. Please confirm.	Confirmed
249.	Earthing	For Damauli substation, We presume that the Main Earth mat conductor shall be sized for the 220kV fault current i.e. 40kA for 3sec. Please confirm	Confirmed
250.	Layout (Leknath & Damauli)	i) Please provide the layouts with plot dimensions ii) Please provide sectional view for the substation layout.	Key dimensions are indicated Sectional drawings are to be prepared by the Contractor during design stage.

№	Reference	Query	Clarification
251.	Line length - Damauli substation	Please provide the Line length for the following transmission lines from Damauli substation i) 220kV OHL to Lekhnath Substation ii) 220kV OHL to Tanahu power station iii) 220kV OHL to Bharatpur Substation iv) 132kV OHL to Old Damauli substation v) 132kV OHL to Bharatpur Substation	This is not considered relevant for Package B at bidding stage
252.	FOTE	Please provide the existing Telecommunication details such as make , model number, Transmission capacity & Spare interface details) for the following stations a) Existing 132/33/11kV Leknath substation b) Existing Tanahu power station c) Existing Bharatpur Substation d) Old Damauli substation	These details shall be elaborated at design stage.

№	Reference	Query	Clarification
253.	FOTE - Remote End scope (Damauli)	We do not envisage any remote end supply of FOTE equipment for the following stations. a) Existing 132/33/11kV Leknath substation b) Existing Tanahu power station c) Existing Bharatpur Substation d) Old Damauli substation Also we do not envisage any integration or augmentation works at the existing SDH equipment in the above stations Please confirm.	These existing substations need to be integrated, as defined in the Bidding Document. For the existing 132/33/11kV Leknath substation all required fibre optic terminal equipment is to be included, as defined in the Bidding Document.
Civil Queries			
254.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works Cl.no: 3.4.6.1 Site Development Works New Damauli & Annex D5-22 New Damauli Substation Site Development and Project Phasing	As per referred clause, the Site development work is in bidders scope. We trust that, only 220kV Switchyard area (Figure 3-1 - Phase 1 main works) & 220kV Platform area (Figure 3-2 - Phase 2 main works) need to be levelled. And other area such as (i.e., 400kV area, Future area, unused area.,) shall be left as it is condition or levelling is not in bidders scope. Please confirm.	Specifically, '400kV area' is outwith the scope except for the access road, drainage and perimeter enclosure as defined therein. 'Future area' and 'unused area' are not referenced in either refered to document Nevertheless, the scope of site development works is clearly defined in the refered to Bidding documents.

№	Reference	Query	Clarification
255.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works Cl.no: 3.4.6.1 Site Development Works New Damauli	Please provide the following details for the proposed Damauli SS & Leknath SS, 1. High Flood Level 2. Finished Ground level for 220kV Switchyard area 3. Finished Ground level for 220kV platform area Inorder to estimate the quantum of work.	200-year flood levels and FGL for 220kV substations are clearly defined within the bid documents. The Bidder is reminded that for Leknath, this is an existing substation and levels are adopted and indicated accordingly.
256.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works Cl.no: 3.4.6.1 Site Development Works New DamauliFlood Protection work Annex D5-22New Damauli Substation SiteDevelopment and Project Phasing	As per referred clause, the Flood protection work is in bidders scope.We trust that, only 220kV Switchyard area side (Figure 3-2 - Phase 2 main works) need to be protected by Flood Retaining Wall and the approximate length of flood protection wall is 320m.And other area such as (i.e., 400kV area, Future area, unused area.,) shall be developed by other package contractor.Please confirm.	Please refer to the repsonse to Item 254 above. Approximate is as it says, and therefore the Bidders should satisfy themselves fo the required length and adjust their bid accordingly.

№	Reference	Query	Clarification
257.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works Annex D5-22 New Damauli Substation Site Development and Project Phasing Figure 2-1 - Site fencing & New Damauli Substation Overall Layout and Project Phases	As per drawing Figure 2-1 - Site fencing, it is mentioned that "Access road (scope of substation project package - A). However in Dwg.: Annex D5-22 (New Damauli Substation Site Development and Project Phasing) it is mentioned that , Access Road (Scope of Substation Project Package B). Please clarify, whether the access road to the 220kV substation is in scope of Package A orPackage B.	The substation access road is within the Scope of substation Package B and should be priced accordingly. The extent is as defined in D5-22 and other documents within the Bid document.
258.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works Annex D5-22 New Damauli Substation Site Development and Project Phasing Cl.no: 3.4.6.1 Site Development Works New Damauli Phase - 1	In referred clause, it is mentioned that "Construction of temporary bridge from existing access road over Chabdi river for temporary access during site development works and enhancement of existing access road" is in bidders scope. since the construction of temporary bridge is paid in lot basis. Kindly provide the following details, 1. Type of bridge (RCC or Steel) 2. Over bridge or Culvert with Hume pipe 3. Vehicle movement loading data In order to estimate the quantum of work.	The temporary bridge shall serve for the Contractor to access the construction site with vehicles and construction machinery, as long as the permanent bridge is not available. Accordingly, the loading data shall be determined by the Bidder. As it is a temporary bridge, the type of bridge is subject to the Bidder / Contractor. Local civil works requirements shall be observed.

№	Reference	Query	Clarification
259.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works Annex D5-22 New Damauli Substation Site Development and Project Phasing Cl.no: 3.4.6.1 Site Development Works New Damauli Phase - 1	As per referred clause, the access road is in bidders scope & the type of access road is concrete for Proposed Damauli SS. However in tender document the specification for Concrete road is not attached. Kindly provide the same.	All roads inside the substation area shall be concrete as identified in Annex 9 D5-4. The permanent access road from the permanent bridge up to the entrance gate of the Substation, as identified in Annex 9 D5-24 shall be asphalt concrete, for details see Annex 9 D5-25. The construction and quality of concrete shall comply with international standards.
260.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works Annex D5-22 New Damauli Substation Site Development and Project Phasing Cl.no: 3.4.6.1 Site Development Works New Damauli	In referred clause, it is mentioned that "Construction of temporary bridge from existing access road over Chabdi river for temporary access during site development works and enhancement of existing access road" is in bidders scope. We trust that, the necessary approval from the any government authority/Highway department/ forest department/ rural department,etc., shall be not in bidders scope. the same shall be done by M/s NEA. Kindly confirm.	As this is a temporary facility, this is the obligation of the Bidder / Contractor (please also refer to GC subclause 4.13).

№	Reference	Query	Clarification
261.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works Cl.no: 3.4.6.1 Site Development Works New Damauli	Please provide the contour survey indicating with spot levels for the proposed Damauli & Leknath SS.Inorder to estimate the quantum of site development work.	All available topographical survey information is provded in the bid document. The Bidder's attention is advised to D4-3, D5-22 and D5-24 where some additional topographical information is available. Otherwise, the Bidder is guided towards other open- source tolls or there own envedouirs to retireve topographical information,. However, the assessment of quantities for the site developement works are entirely the responsibililty of the Bidder.
262.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works 3.4.8.1 Lekhnath Substation Site Preparation, leveling and compacting	In Pice schedule the Site Preparation, leveling and compacting quantity is not given for the leknath SS. Hence, We trust that, the site development work for proposed Leknath SS in the existing SS yard is not in bidders scope and levelled land will provided to the bidder. Kindly confirm.	This is entirely at the responsibility of the Bidder.
263.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works 3.4.8.1 Lekhnath Substation Site Preparation, leveling and compacting	As per referred clause, The existing 132kV switchyard internal and external service roads have to be extended to suit the switchyard extension is in bidders scope. However in price schedule there is no quantity for the same. Kindly include the same if required.	This is a Fidic Yellow Book Contract and the Bidder should incoporate these works within the provided Price Schedule.

№	Reference	Query	Clarification
264.	1663122448_Package_B_SS_Part_2, VII-1 Project Description and Scope of Works 3.4.8.1 Lekhnath Substation	Please provide the following details for the existing leknath S/S, 1. Existing foundation layout 2. Existing road & Drain layout 3. Existing gravel layout 4. Exisitng foundation type. In order to estimate the quantum of work.	No further as-built information is available. This is a FIDIC Yellow Book contract and the Bidder should prepare their bid accordingly.
265.	VII-6 Technical Requirements - Civil Works Clause 1.6.3, Building - General	As per this clause, GIS building shall be of pre-engineered building. So, Please provide the technical specification for pre-engineered building.	This is a FIDIC Yellow Book Contract and the Bidders should prepare their Bids accordingly.
266.	VII-6 Technical Requirements - Civil Works 1.6.5 - The doors shall be double skin insulated metal types, with the required fire resistance (for minimum 3h)	Bidder understands that fire rating is applicable only for doors in equipment room on the exterior face of the buildings. Kindly confirm.	The Bidders interpretation is incorrect. The mentioned specifcation clause refers to internal doors. External doors are covered eslewhere. The 3-hr fire rating refers to internal doors to all areas, except those excluded in this clause.
267.	VII-6 Technical Requirements - Civil Works Clause 2.8, Concrete Works	Please confirm the grade of concrete.	Please refer to Cl 2.8.3 where acceptable grades of lean and structural concretes are defined.,
268.	VII-6 Technical Requirements - Civil Works Clause 2.8.12, Reinforcing Stee	Please confirm the grade of Reinforcing Steel.	Reinforcement shall comply with Eurocode 2 and the other requirements of Cl 2.8.12

№	Reference	Query	Clarification
269.	VII-6 Technical Requirements - Civil Works Reinforcement Lapping	Bidder shall consider the provison of lapping of reinforcement bars with lap lenth requirements as per IS codes and shall bind the same using binding wire. Kindly confirm the same.	Reinformcent shall comply with Eurocode 2 and the other requirements of Cl 2.8.12
270.	VII-6 Technical Requirements - Civil Works Building Height	The Bidder understands that bidder is free to design different roof heights of GIS and Control Room Building sections for combined Pre Enginered Building as per technical requirements. Kindly confirm.	In principle, it is confirmed that different roof heightswill be accepted for the GIS and Control Buildings. However, the adopted roof heights shall comply with the the requirements of the installed equipment and all other aspected of the Bid document.
271.	VII-6 Technical Requirements - Civil Works Make List	Bidder request to provide approved make list/approved sources for all civil items like-cement, Reinforcement and structural steel and all finishing items.	Such lists shall not be considered . Materials shall be approved at design stage and shall comply with the requirements of the Spedcification
272.	VII-6 Technical Requirements - Civil Works Make List	a) Bidder understands and reques to confirm that the road shall be considered as below: 1.) RCC road for Damauli. 2.) Flexible/Asphalt road for Lekhnath. b) Bidder request to provide Section for the RCC road at Damauli and Flexible roads in Lekhnath.	a) confirmed b) Please refer to VII-9 annex, D5-25 DAM. Access Road Sections. Further details shall be developed by the Bidder / Contractor.

№	Reference	Query	Clarification
273.	VII-6 Technical Requirements - Civil Works Temporary Access Road	Bidder request M/s NEA to provide the detailed plan and section for Temperory Access Road for Damauli for costing and estimation. Pls revert.	The temporary access road up to the river is existing already and shall be enhanced as required to serve the purpose for temporary access. The temporary access bridge and temporary access road within the project area shall be included in the proposal as defined in the Bidding document. Please refer to VII-9 Annex D5-22 DAM. Site Development and Project Phasing. Further details shall be determined by the Bidder. As this is a temporary facility, this is the obligation of the Bidder / Contractor (please also refer to GC subclause 4.13).
274.	VII-6 Technical Requirements - Civil Works Drains	Bidder request to provide the external/internal RCC drain sections for Damauli and Lekhnath.	This is a FIDIC Yellow Book Contract. The successful contractor shall develop drainage arrangement which shall be approved at detail design stage.
275.	VII-6 Technical Requirements - Civil Works Gabion Mattress	Bidder request to provide the detailed plan and section for Gabion Mattress protection works for Damauli for costing and estimation.	This is a FIDIC Yellow Book Contract. The successful contract orshall develop details of gabion mattress protection works which shall be approved at detail design stage.
276.	General, both Substations	Bidder request to provide the detail of approved test labs for the project.	Shall be decided during design stage.
277.	Part II, Section VII-6 Technical Requirements - Civil Works 2.7.17 Piling works	Bidder requests to please furnish detailed Field Quality Plan for Piling Works. A) What will be frequency of pile testing? B) What will be testing methodology?	A) / B):Quality plans for piling, (including testing methodology) shall be developed by the successul Bidder at detail design stage and shalll be subject to approval. C) Please refer to clarification No. 276 above.

№	Reference	Query	Clarification
		C) What are the approved labs for testing?	
278.	Part II, Section VII-6 Technical Requirements - Civil Works Pre Engineered Building wall Sheeting	Bidder understands that the Pre Engineered Building wall Sheeting for GIS building shall start from the FFL i.e. no brick work required and for Control Room Building and it shall start from First Floor i.e. brick work required upto first floor. Kindly confirm.	Part II, Section VII-6 subclause 1.6.6 indicates 1st floor level brick and then cladding above for GIS building. For a stand-alone control building Part II, Section VII-6 subclause 1.6.5 indicates a concrete framed building with full height blockwork. Further details are subject to approval at design stage.
279.	Part II, Section VII-6 Technical Requirements - Civil Works Grade of Concrete	As per the technical specification, the grade of concrete to be used for design is not mentioned. Bidder is considering M25 grade of concrete for RCC works. Please confirm.	Please refer to Cl 2.8.3 where grades of lean and structural concretes are defined.
280.	Part II, Section VII-6 Technical Requirements - Civil Works Drain	Bidder understands that drains along one side of road shall be constructed for switchyard. Please confirm.	The precise arrangement for drainage will be dependent on the final approved layout at detail design stage. The approved design shall be in accordance with VII-6 Technical Requirements - Civil Works subclause 1.6.12.
	Part II, Section VII-6 Technical Requirements - Civil Works Point of disposal	Bidder request to confirm the distance and location of disposal point for excavated earth and dismantled debris.	This is the responsibility of the Bidder / Contractor

№	Reference	Query	Clarification
281.	Part II, Section VII-6 Technical Requirements - Civil Works	Bidder request to confirm that the Manfacture sand may be used as an option to river sand for all the civil works.	The term 'Manfacture sand' is not clear. Washed sand shall considered as an alternative to river sand but in all cases, the sand adopted for the civil works shall meet the mechanical and chemical requirements of the Specification.
Mechanical			
282.	Part II, Section VII-5, Technical specification, clause- 16.5.7 Fire Water Demand Calculation	As per referred clause, Fire Water Demand Calculation a safety factor of approximately 1.15 shall be added mentioned but as per NFPA called for water demand 2hr. kindly clarify?	The speciation shall be followed: The water demand of the Project shall be calculated based on NFPA standard. A safety factor of 1.15 shall be applied to the result of the calculation.
283.	General	Please share the outdoor ambient temp condition for subject area for the following season for subject substation: 1) Summer : DB Temp, & WB, Temp. 2) Monsoon : DB Temp, & WB, Temp. 3) Winter : DB Temp, & WB, Temp. Request to kindly provide the same for enable to size the heater requirement . if ambient is less than 0 deg C.	Please refer to Part II, Section VII-4 Particular Technical Requirements, Clause 2.2.1, which includes the available data.
284.	General	We had considered Beam detector only for GIS hall (More than 9.0 m High) instead of smoke detector.	This is subject to approval during design stage.

№	Reference	Query	Clarification
285.	General	We had considered Beam detector for GIS hall instead of smoke detector please confirm?	Please refer to clarification item No. 284 above
286.	General	Please share the list of approved makes for Fire Protection system and Air conditioning system.	Please refer to Part I Section III Item 2.1c, bidder may nominate up to three alternative manufacturers.
287.	General	We have not considered any mandatory spares for air conditioning system. Kindly confirm.If required please share the requirement in detail and include the line item in the price schedule	Spare parts for air conditioning systems shall be included as defined VII-1 Project Description and Scope of Work and shall be priced under Schedule I / II, Item 3.17
288.	Part II / VII-1 3.4.8.1 Lekhnath Substation 3.4.8.2 Damauli Substation	Air-conditioning, ventilation and heating systems As per referred clause, Air-conditioning system and ventilation system mention only in lot basics and standby requirement for ventilation fans and airconditioning equipment not mention kindly clarify ? Ventilation system for GIS Hall to be maintain positive pressure inside the GIS hall. please confirm. the static pressure requirement in GIS hall.	For battery rooms redundant fans are required. The GIS Hall shall be kept at a positive pressure of about 20 - 30 Pa above ambient pressure.
ESMP			

№	Reference	Query	Clarification
289.	Part II, Section VII-7 ESMMP	The Bidder understands that since the land acquisition for the complete project is in M/s NEA scope so any social impact, compensation of any kind, settlement with habitats etc. shall not be in Bidders scope. The ESMMP clause shall be in Bidders scope only limited to the the execution period within the scope of works and land acquired by NEA. Please confirm.	The Bidder shall include all requirements related to the execution of Package B, as defined in Annex VII-7.
General			
290.	Order of precedence	In case of any discrepancies between General Specification, Technical specification Data sheet, Drawings & BPS, please confirm the order of precedence to be followed.	Please refer to Part II, VII-1 Project Description and Scope of Work: *"In case discrepancies occur between the items of scope of supply and services stated hereby and the ones derived from the respective annexes and/or other contract documents, as well as in case certain items of scope of supply are identified hereby but not elsewhere in the contract documents (or vice versa), the Contractor is requested to interpret the Employer's requirements by considering this document and the annexes in conjunction. The most stringent requirements shall apply in case of deviations/discrepancies."*

№	Reference	Query	Clarification
291.	General, both Substations	We understand that direction of incoming & outgoing lines for all voltage levels shall be as per bid stage layout only and shall not be changed.Please confirm.	Confirmed.
292.	General, both Substations	Baywidth for all voltage levels, distances between transformers/buidings roads/equipments shall be decided by the bidder only based on technical requirements during detailed engineering.Please confirm.	For extension of existing switchyard in Lekhnath Substation, the bay width and equipment clearances shall correspond to the existing switchyard. Other baywidths, distances between transformers/buidings roads/equipments shall be determined by the Contractor during design stage taking into consideration the requirements, as identified in the relevant parts of the bidding document, subject to approval. Sizes and distances indicated in layouts of VII-9 Annex shall constitute minimum requirements.
293.	General, both Substations	Any possible optimisation in layout possible during execution based on technical suitability is acceptable without any cost reduction.	Any possible optimisation in layout possible during execution is subject to approval, (please also refer to GC subclause 13.2).
294.	General, both Substations	Please share Geological conditions table including basic wind speed / site altitude and other project specific enviornmental factors.	Please refer to VII-4, General Technical Requirements and VII-9 Annexes D4-3 and D5-16.
295.	General, both Substations	Type & Size of conductor / Al. tube shall be selected based on the Conductor sizing calculation only. Please confirm.	Type & Size of conductor / Al. tube shall be selected based on the Conductor sizing calculation, subject to approval. For extension of existing switchyard in Lekhnath Substation, size of conductor / Al. tube shall correspond to the existing switchyard, please refer to clarification item No. 210 above

№	Reference	Query	Clarification
296.	General, both Substations	Insulator cantilever strength for BPI and insulators for isolators (if any) can be optimised based on the design calculation as per standard. Please confirm.	Insulator cantilever strength for BPI and insulators for isolators (if any) can be optimised based on the design calculation as per standard, subject to approval.
297.	General, both Substations	A major portion land in bid stage layout in present scope of work area has been shown in grey colour which is shown as a legend of Road(Concrete). Bidder request to confirm weather whole such area shall be concrete road or it is just a Plain cement concrete only.Please confirm.	The area shown in grey colour which is shown in the legend as „Road (Concrete)" shall be concrete road.
298.	General, both Substations	We understand that cable channel shown for future HT/LT cables in bid stage layout are not under present scope of works, please confirm.	The understanding is wrong. Cable channels for future HT/LT cables shall be provided as defined in VII-1 Project Description and Scope of Works Clause 3.4.8.1 / 3.4.8.2 and indicated in VII-9 Annexes D5-3 / D5-4 Details shall be developed by the Contractor during design stage subject to approval.
299.	General, both Substations	Please confirm weather Line side insulator / hardware shall be in bidder's scope or not??	Please refer to VII-1 Project Description and Scope of Works Clause 4.
300.	General, both Substations	Please Share the exact location & yard pemisis coordinates and rotation angle of site north to true north for the station peremisis.	Please refer to Amendment No. B-2, Item 7 Annex D5-28/D5-29 for Lekhnath Substation and Annex D5-30 (georeferenced file) for Damauli Substation.

№	Reference	Query	Clarification
301.	General, both Substations	As per the pre bid site meeting the Bidder understands that all permissions for tree and vegetation e.g. forest clearance, local authority approval etc. shall be in scope of M/s NEA. Please confirm.	Confirmed
302.	General, Lekhnath Substation	As per the pre bid site meeting the Bidder understands that clearance of all other material like steel structures etc. stored in the area of construction shall be in scope of M/s NEA and in order to start the construction activities ready to construct land shall be handed over to the bidder.	In Lekhnath Substation the existing storehouse shall be demolished and removed and one out of service transformer shall be relocated by the Contractor. Please refer to VII-9 Annex D5-3 (Notes) and Schedule IV, Item 1.19.1.2.