



CLARIFICATIONS #4.1

FOR

PROCUREMENT OF PLANT DESIGN, SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF LOT 1: 400 kV RATMATE SUBSTATION AND WORKS AT LAPSIPHEDI AND NEW HETAUDA SUBSTATIONS, LOT 2: 400 kV NEW BUTWAL SUBSTATION, LOT 3: 400 kV

NEW DAMAULI SUBSTATION

Ref No: **MCA-N/ETP/CB/004**

Issued on 02 August 2023

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
1.	<p>Lot 1 Section III: Cl. No. 16 (a)/ Experience/ Qualification and Evaluation Criteria <i>Similar Construction Experience:</i> <i>Successfully completed at least three (3) turnkey or design-build substation projects within the last ten 10 years for each lot,</i> <i>(a) of below mentioned value:</i> <i>for Lot 1: US\$34 Million (3 Contracts each of US\$ 34 Million or above)</i> <i>for Lot 2: US\$ 20 Million (3 Contracts each of US\$ 20 Million or above)</i> <i>for Lot 3: US\$ 21 Million (3 Contracts each of US\$ 21 Million or above)</i></p>	<p>As qualification clause does not mention about type, the bidder understands, for similar construction experience as per Cl. No. 16 (a), in lieu of consideration of AIS domain (substation projects on turnkey or design-build substation projects), similarity means at least three (3) substation turnkey or design-build substation projects (AIS or GIS type) successfully completed within the last ten 10 years for each lot, shall be considered for qualification of bidder. Please confirm their understandings.</p>	<p>For 16 (a) please refer Addendum 2: Successfully completed turnkey or design-build substations projects within the last ten 10 years for each lot:</p> <p>(a) of below mentioned value:</p> <p>for Lot 1: US\$34 Million (2 Contracts each of US\$ 34 Million or above)</p> <p>for Lot 2: US\$ 20 Million (2 Contracts each of US\$ 20 Million or above)</p> <p>for Lot 3: US\$ 21 Million (2 Contracts each of US\$ 21 Million or above).</p> <p>Evidence shall be given by end users or taking over certificates.</p>

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			<p>All contracts must have been successfully and substantially completed.</p> <p>Thus, for each lot 2 Contracts of required value (AIS or GIS) Successfully completed turnkey or design-build substations projects within the last ten 10 years will be considered for qualification.</p> <p>There is no provision of appreciation of rate in the bidding document. The exchange rate for converting the price from any other currency to USD should be the date of Contract signing or award of that particular contract.</p>
2.	<p>Lot 1 Section III: Cl. No. 16 (a)/ Experience/ Qualification and Evaluation Criteria <i>(a) of below mentioned value:</i> <i>for Lot 1: US\$34 Million (3 Contracts each of US\$ 34 Million or above)</i> <i>for Lot 2: US\$ 20 Million (3 Contracts each of US\$ 20 Million or above)</i> <i>for Lot 3: US\$ 21 Million (3 Contracts each of US\$ 21 Million or above)</i></p>	<p>Further to above, the bidder understands that, for establishing the qualification experience, Currency conversion & appreciation rates for previous executed projects which are not in USD are not mentioned in tender document. The Bidder understands that Exchange rate of date of PO / award date shall be considered for currency conversion. Please confirm their understandings.</p>	<p>There is no provision for appreciation of rates in the bidding document. The exchange rate for converting the price from any other currency to USD should be the date of contract signing or award of that particular contract.</p>
3.	<p>Lot 1 Section III: Cl. No. 16 (c)/ Experience/ Qualification and Evaluation Criteria <i>c) Participation as single entity or as joint venture partner in at least three (3)</i></p>	<p>From said clause, the bidder understands that, every type of substation contract executed by bidder in a south asian country shall be considered for evaluation.</p>	<p>For 16 (c) please refer Addendum 2. Successfully completed turnkey or design-build substations projects within the last ten 10 years for each lot (c) Participation as single entity or as joint venture partner in at least two (2) turnkey</p>

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	<p><i>turnkey contracts, at least one being in a South Asian country for each lot.</i></p>		<p>contracts, at least one being in an Asian country for each lot. Evidence shall be given by end users or taking over certificates. All contracts must have been successfully and substantially completed. The bidder shall have successfully completed turnkey or design-build substations projects within the last ten 10 years and the contracts could be for AIS or GIS Substation.</p>
4.	<p>Lot 1 Section III: Cl. No. 16 (d) para 2/ Experience/ Qualification and Evaluation Criteria <i>Evidence shall be given by end users or taking over certificates. All contracts must have been successfully and substantially completed with at least one (1) of them being outside the contractor's home country. All contracts should have features similar to the proposed plant and services.</i></p>	<p>From MCA prebid MOM against Sl. No. 27 vide email dated: 16.05.23, the bidder have noted and understand that at least one (1) of the contract provided under (a), (b), (c) and (d) being outside the contractor's home country.</p>	<p>For 16 (d) please refer Addendum 2. Successfully completed turnkey or design-build substations projects within the last ten 10 years for each lot</p> <p>(d) Supply, delivery, installation, testing and commissioning of at least cumulative 1000MVA three phase (or equivalent capacity in bank of three single phase units) auto/power transformer of 380 kV or higher EHV side and the same should be in successful operation for each lot.</p> <p>Evidence shall be given by end users or taking over certificates.</p> <p>All contracts must have been successfully and substantially completed.</p>

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			Thus, please note that the requirement has been amended and there is no requirement for outside home country under 16 (d).
5.	<p>Lot 1 Section III: Experience/ Qualification and Evaluation Criteria <i>All contracts must have been successfully and substantially completed.....</i></p>	<p>From successfully and substantially completed understand that those projects completed by contractor, however the charging/ commissioning is delayed by customer can also be considered as successfully and substantially completed. Please confirm.</p>	<p>Evidence shall be given by end users or taking over certificates. Thus, if the end users or taking over certificates is issued the Contracts will be considered substantially completed.</p>
6.	<p>Lot 1 Experience/ Qualification and Evaluation Criteria/Section-III & Sl. No 18/ Final minutes of prebid conference/ Page 51 <i>No Limit on the number of JV members/Consortium in the bidding document.</i></p>	<p>From said clause, in case of JV, the bidder understand that Lead bidder will meet 50% of qualification requirement under Clause B and rest of each individual partner shall meet minimum 25% of qualification requirement and pass/ fail criteria under clause B. Please confirm.</p>	<p>Your understanding is not correct: Please refer Addendum 2: 18. Health and Safety Management Experience: Has developed at least two Health and Safety Management Plans for similar types of projects in the last five (5) years prior to the Bid submission deadline.: All members combined must meet requirement.</p> <p>The Minutes of Pre-Bid page 15 clarification 18 states “No Limit on the number of JV members/Consortium in the bidding document.”, and does not state anything related to your question.</p>

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7.	<p>Lot 1 Experience/ Qualification and Evaluation Criteria/Section-III & Sl. No 18/ Final minutes of prebid conference/ Page 51 <i>No Limit on the number of JV members/Consortium in the bidding document.</i></p>	<p>Considering the complexity of this package, in case consortium/JV formed shall be limited by 2 parties or there has to be criteria for each individual party. Please confirm.</p>	<p>Your understanding is not correct: Please refer Addendum 2: 18. Health and Safety Management Experience: Has developed at least two Health and Safety Management Plans for similar types of projects in the last five (5) years prior to the Bid submission deadline. All members combined must meet requirement.</p> <p>Minutes of Pre-Bid page 15 clarification 18 states “No Limit on the number of JV members/Consortium in the bidding document.”</p> <p>There is no limitation on number of JV partner and JV partners need to satisfy the requirements stated in the Bidding Document.</p>
8.	<p>Lot 1: Cl. No. 17 &18/ Experience/ Qualification and Evaluation Criteria/Section- III/ Pg 85 <i>17. Has developed and implemented at least two Environmental and Social Management Plans (ESMP) that include gender and social inclusion considerations for similar types of projects in the last five years prior to the Bid submission deadline.</i> <i>18. Has developed at least two Health and Safety Management Plans for similar</i></p>	<p>Multinational corporate like us globally and regionally develops and implements environmental and social management plans (may be with this name or similar) at corporate level which is applied for all our offices/ factories/ projects etc and all offices/ factories/ project abides to those requirements considering practical local conditions. Considering above, we understand that social and environmental plans implemented at corporate level which are applicable for all projects as well shall be</p>	<p>The requirements are as follows: 17. Environmental and Social Management Experience: Has developed and implemented at least two Environmental and Social Management Plans (ESMP) that include gender and social inclusion considerations for similar types of projects in the last five years prior to the Bid submission deadline. 18. Health and Safety Management Experience: Has developed at least two</p>

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	<i>types of projects in the last five (5) years prior to the Bid submission deadline.</i>	considered as qualifying document. Please confirm our understanding.	Health and Safety Management Plans for similar types of projects in the last five (5) years prior to the Bid submission deadline. <u>Please note that as per requirement only project experience will be considered.</u>
9.	Lot 1: Section III. Qualification and Evaluation Criteria / Page 56 and Sl. No. 14/ Final prebid MOM/ page 45 <i>The Qualifications and Experience of Parents / Sister / Subsidiary Companies shall not be considered for the evaluation of the technical offers.</i>	We understand that type tests carried out by the OEM from any of their global GIS manufacturing unit should be acceptable for the same design.	Your understanding is not correct. The type test should be carried out by the manufacturer (OEM) and their global manufacturing unit type test is not acceptable.
10.	Lot 1 Section III: Qualification and Evaluation Criteria Subcontractors / Manufacturers 5. Auto Transformer (page 90 of 1019) <i>Must have designed, manufactured, tested and supplied at least 10 (Ten) units of power/auto transformers of 380kV class or above, 300 MVA or above, within last five (5) years prior to the date of bid opening. (Three single phase units, if applicable, will be considered as one unit.)</i>	The bidder understands that bidder can have a mix of three phase transformers and single-phase transformers like 7 nos. of 3-ph + 9 nos. of 1-ph units. Kindly confirm.	Confirmed. Bidders can use the experience of design, manufacture, test and supply of mix of three phase bank of single phase power transformers/auto transformers and three phase transformers/auto transformers.
11.	Lot 1 Section III: Qualification and Evaluation Criteria Subcontractors / Manufacturers &	Th Bidder would like to inform us that type tests are carried out to establish the design of an equipment as per IEC and there is no validity / age specified for the reports as per IEC and type tests need not be repeated	Please adhere to the requirements of the bidding documents. Bidders are requested to follow the addendum #2 for the type test validity period.

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	<p>Section V: General Technical Requirement/ Clause number-10 <i>The test reports submitted shall be of the tests conducted within the last 10 (ten) years before the originally scheduled date of bid opening. In case the test reports are of tests conducted earlier than 10 (ten) years before the originally scheduled date of bid opening, the Contractor shall repeat these test(s) at no extra cost to the Employer. However, in the case of 400 kV and 220 kV GIS switchgear (circuit breaker, isolators, earthing switches, instrument transformers, SF6/air & oil bushings, etc.) type tests shall be carried out as per IEC in Short-Circuit Testing Liaison (STL) – Accredited Laboratory</i></p>	<p>unless there is a change in the design. The bidder request that type test reports as per latest IEC conducted on offered EHV GIS design by the bidder / its principal/ collaborator/parent company from internationally recognized test house (accredited / STL labs) during last 15 years from the original due date of tender submission is acceptable to MCA Nepal. In view of above, the bidder request that the age of the Type Test Reports (TTRs) removed from the QR clause, and the bidder understand the bidder/manufacturer need not have to repeat the type test reports from manufacturing plant in India during execution. Please confirm.</p>	
12.	Not used.		
13.	<p>Lot 1: Cl. No. 7 / History of Nonperforming Contracts / Section III. Qualification and Evaluation Criteria / Page 75 <i>Non-performance of a contract (including contracts terminated for cause) did not occur within the last ten (10) years prior to the deadline for Bid submission</i></p>	<p>“As the definition of non-performance is not furnished in tender, we understand that definition of non-performance means any contract awarded to bidder in last ten year is terminated by customer due to failure to perform by the bidder and that has been adjudicated before the court or in Arbitration”. Please confirm.</p>	<p>Non-Performance refers to non-fulfillment of the obligations under the Bidder’s previous contract, which will be determined using all information on fully settled proceedings, litigation, arbitrations, actions, claims, investigations or disputes and will also include Termination.</p>

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14.	<p>Lot 1 Section I : ITB Clause No. 5.8 (d) /Conflicts of Interest <i>(d) participate in more than one Bid in this process; participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the party is involved; however, this provision does not limit the inclusion of the same subcontractor in more than one Bid; or</i></p>	<p>The Bidder understands, if the bidder is also an equipment manufacturer (Supplier) and is participating in the bid, then the bidder cannot be a subcontractor in any other bids. Please confirm.</p>	<p>Please refer Letter of Technical Offer point 7, which states “We are not participating, as a Bidder or as a subcontractor, in more than one Bid in this bidding process in accordance with ITB Sub-Clause 5.8 (d).”</p> <p>Thus, Manufacturers (Suppliers) can be a Bidder and Supplier for other Bidders but cannot be a subcontractor.</p>
15.	<p>Lot 1 BDS Sub clause (ITB 35.1 /Bid Data Sheet / Section-II <i>Though the evaluation of Bids shall be based on total cost of Base scope plus Option scope of work, the Employer reserves the right to exercise either Base Scope of work or Option scope of works or Base scope plus a portion of option scope of work.</i></p>	<p>The Bidder understands that bid evaluation shall be done as per option scope of work which includes base scope of work also. Please confirm.</p>	<p>Please refer Addendum 2: Though the evaluation of Bids shall be based on total cost of Option Scope of work, the Employer reserves the right to exercise either Base Scope of work or Option Scope of work or Base scope plus a portion of option scope of work.</p> <p>Yes, Option Scope of work includes Base Scope of work too.</p>
16.	<p>Lot 1 Section IV: Schedule of Payments/Plant and Materials <i>(a) Fifty (50) percent of DDP-Works Site in Nepal Price (as per Schedule 2) for Plant and Material through irrevocable letter of credit opened in favour of Contractor’s bank upon Delivery to the</i></p>	<p>The Bidder understands the establishment of letter of credit by customer shall be date of signing the contract agreement and same should be a condition for contract effectiveness. Please confirm.</p>	<p>The bidders’ understanding is not correct. Letter of credit will not be opened at the time of contract signing. It will be opened later after signing of the contract. The amount of LC that will be opened will be based on further discussions with the selected contractor.</p>

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	<p><i>Carrier</i> <i>(b) Forty (40) percent of DDP-Works Site in Nepal Price (as per Schedule 2) for Plant and Material upon delivery to laydown area on Site after receipt of request for interim payment with Delivery Completion Certificate issued by the Employer showing Contract number, goods description, quantity through irrevocable letter of credit opened in favour of Contractor's bank.</i></p>		<p>There is no relation between Contract effectiveness and opening of Letter of Credit.</p>
17.	<p>Lot 1 Section IV: Schedule of Payments/ <i>In respect of Plant and Materials supplied from abroad, the following payments shall be made:</i> <i>(a) Fifty (50) percent of DDP-Works Site...</i> <i>(b) Forty (40) percent of DDP-Works Site</i> <i>(c) Ten (10) percent of DDP-Work Site in</i></p>	<p>Considering the quantum of work Involved and to maintain a positive cash flow the bidder request a milestone payment of ten percent (10%) of contract value on submission of key drawings (i.e. overall layout & SLD) within 6-8 Weeks from effective date of contract through Irrevocable Letter of Credit (LC).</p>	<p>The provision in the bidding document cannot be changed.</p>
18.	<p>Lot 1 Section IV: Advance Payment / Cl. No. 14.2 (a) & 14.2 (b) <i>14.2 (a) Repayment of the advance payment shall start after certification of Twenty percent (20%) of the Accepted Contract Amount.</i> <i>14.2 (b) Amortization rate shall be Twenty percent (20%). Advance Payment shall be recovered in full prior to the time when seventy percent (70%) of the</i></p>	<p>The Bidder request advance payment adjustment shall be on pro rata basis from all progress Invoices. Please accept.</p>	<p>The Bidding Document provision will not be amended. The request is not accepted. Repayment of advance payment will be based on contractual terms.</p>

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	<i>Accepted Contract Amount has been certified for payment.</i>		
19.	<p>Lot 1 Section IV: Schedule of Payments (Plant and Materials) <i>(c) Ten (10) percent of DDP-Work Site in Nepal Price (as per Schedule 2) for Plant and Material upon Take Over of the Works and Services</i></p>	<p>The Bidder request the last ten percent (10%) payment shall be released against two milestones as mentioned below :</p> <p>a) Five Percent (5%) of the component for Plant and Materials from abroad shall be paid through Letter of Credit (LC) after successful commissioning of complete substation.</p> <p>b) Balance Five Percent (5%) of the component for Plant and Materials from abroad shall be paid through Letter of Credit (LC) upon Take Over of the Works and Services</p>	<p>There will be no amendment to the Bidding Document. Payments will be based on contractual terms.</p>
20.	<p>Lot 1 Section IV: Schedule of Payments (Plant and Materials) <i>Plant and Materials from abroad:</i> <i>(c) Ten (10) percent of DDP-Work Site in Nepal Price (as per Schedule 2) for Plant and Material upon Take Over of the Works and Services.</i> <i>Installation, start up, commissioning and testing Services:</i> <i>Ten (10) percent of the total amount of installation, start up, testing and commissioning services upon issue of the Taking-Over Certificate.</i></p>	<p>The Bidder understand that the last 10 % payment shall be released against submission of Performance bank Guarantee (PBG) for 10%. PBG shall be valid till completion of Defects Liability Period. Please confirm.</p>	<p>There is no provision for payment against performance bank guarantee. The timing of release of this payment is not post Defects Notification Period but upon Taking Over.</p>

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21.	<p>Lot 1 Section IV: Issue of Interim Payment Certificate/ Cl. No. 14.6 <i>Minimum amount of an Interim Payment Certificates shall be: US\$ 500,000, with no more than one (1) submission per month. However, with prior agreement with the Employer this provision can be considered as US\$ 200,000, with multiple number of submissions per month.</i></p>	<p>Being a substation contract, the bidder anticipate small value of interim payment for better cash flow, hence request contractor shall be entitled for multiple Invoice submissions without any minimum limit. Request us to accept the same.</p>	<p>There will be no amendment to the Bidding Document. Payments will be as per contractual terms.</p>
22.	<p>Lot 1 Section IV: Schedule of Payments <i>In respect of Plant and Materials supplied from abroad, the following payments shall be made:</i> <i>(a) Fifty (50) percent of DDP-Works Site in Nepal price</i> <i>(b) Forty (40) percent of DDP-Works Site in Nepal price</i> Section I: ITB Clause No. 16.1 <i>The currency(ies) of the payment shall be as follows: US\$ (United States Dollar) and the % in Local Currency if specified in the Letter of Financial Offer.</i></p>	<p>There is a discrepancy in currency of payment to be made in ITB and payment schedule clauses. The Bidder understands, in line with ITB clause no 16.1 all payments shall be as follows: US\$ (United States Dollar) and the % in Local Currency if specified in the Letter of Financial Offer. Please confirm.</p>	<p>Currency of Payment under the Contract is USD, with a provision that allows the bidder to request part (%) of the payments to be paid in local currency as offered in the letter of financial offer. In that case that portion shall be paid in local currency. Payment currency will be as per the contract. (Refer to the Letter of Financial Offer, last paragraph of point 2)</p>
23.	<p>Lot 1 Section II: BDS Sub clause (ITB 31.2(b) /Bid Data Sheet <i>The total amount of the Performance Security may be increased to a level not exceeding 20% of the Accepted Contract Amount.</i> &</p>	<p>There is contradiction in % amount of Performance Security in section BDS & bidding forms. The Bidder understands that bidder has to submit Performance Security of 10% of Contract Value for performance of the Contractor. Please confirm.</p>	<p>The Performance Security requirement is for Ten percent (10%) of the Accepted Contract Amount less Provisional Sums and Daywork, payable in US Dollar.</p> <p>However, if the price reasonableness analysis suggest that the financial offer</p>

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	<p>Section IV: Cl. No. 4.2/Bid Submission Forms <i>Performance Security will be in a form acceptable to Employer in the amount of: Ten percent (10%) of the Accepted Contract Amount less Provisional Sums and Daywork, payable in US Dollars.</i></p>		<p>may be unbalanced or frontloaded, in this particular case, based on TB 31.2 (b) the performance security amount can be increased up to 20% of the Accepted Contract Amount less Provisional Sums and Daywork, payable in US Dollar.</p>
24.	<p>Lot 1 Section VIII: Bank Guarantee Contract Forms and Annexes <i>Performance Bank Guarantee</i></p>	<p>The Bidder would like to inform us that being a International competitive bidding package corporate guarantee is also acceptable in place of performance bank guarantee. Please confirm.</p>	<p>The corporate guarantee is not acceptable.</p>
25.	<p>Lot 1 Section VIII: Bank Guarantee Contract Forms and Annexes <i>Bank Guarantee</i></p>	<p>Bank Guarantee to be issued from any Bank in India is also acceptable. Please confirm.</p>	<p>Please refer the language in the format of Bank Guarantee as:</p> <p>[we are a financial institution located outside the Beneficiary’s country but have a correspondent financial institution located in the Beneficiary’s country that will ensure the enforceability of this guarantee. The name of our correspondent bank and contact information is as follows: (provide name, address, phone number, and email address)]</p> <p>Further note added at the end of form states: if theGuarantee is issued by a financial institution located outside the Employer’s country, the</p>

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			Guarantee must be confirmed (counter bank guarantee to be issued) by a correspondent financial institution located in the Employer's country, satisfactory to the Employer, to make the R..... enforceable in the Employer's Country.
26.	Lot 1 Section IV: Clause 13.8 Adjustment for changes in cost <i>Adjustment for changes in cost</i>	Overall establishment of this package is for strengthening the 400 kV grid for Nepal Millennium Challenge Account Nepal (MCA-Nepal) by establishing power flow between Nepal & India. All customer in India including Powergrid Corporation of India (PGCIL) accept the price adjustment formula as per IEEMA without any ceiling. Further, price variation formula furnished in bid documents covers copper variation only. Considering the same, for subject package request you to accept the price adjustment formula as per IEEMA in place of LME Formulae.	The provision of price adjustment and its formula cannot be changed in the bidding documents.
27.	Lot 1 Section IV: Bid Submission Forms B. Financial Offer Forms Appendix to Letter of Financial Offer <i>For Auto Transformer</i> $P_n = P_o [a + b C_n/Co + c Mn/Mo] - P_o$ <i>a=40% (Fixed)</i> <i>b=30% (Copper)</i> <i>c=30% (CRGO)</i>	'The price variation formula does not fully cover all the critical raw materials of a transformer. The bidder requests us to kindly include Insulation, Oil, Steel & Labour components also in the price variation formula and reduce the fixed component. The formula can be proposed as below: $P_n = P_o [a + b C_n/Co + c Mn/Mo + d In/Io + e On/Oo + f Sn/So + g Ln/Lo] - P_o$ <i>a= 5% (fixed)</i> <i>b=30% (Copper)</i> <i>c=30% (CRGO)</i>	The provision of price adjustment and its formula cannot be changed in the bidding documents.

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		d=4% (Insulation) e=9% (Oil) f=12% (Steel) g=10% (Labour) All indexes shall be as per IEEMA publication. Kindly accept.	
28.	Lot 1 Section VII: Particular Conditions of Contract: Sub-Clause 13.7 <i>“, provided, that no such adjustment will be made on account of any change in the Laws of the Country related to taxes as such term is defined and used in Sub-Clause 21.”</i>	As per said clause, the bidder understands that, any billing from Nepal and outside Nepal, no taxes are applicable, accordingly no variation in taxes are applicable. Kindly Confirm.	Compact Section 2.8 read along with Annex VII – Tax Schedules provide the conditions for tax exemption, refund or reimbursement of Taxes. The bidder needs to assess the application of taxes on its own depending on its status of incorporation and prior registration in Nepal.
29.	Lot 1 Section VII: Particular Conditions of Contract: Sub-Clause 21.1 <i>a) income taxes, withholding taxes, and other profit or business taxes imposed on individuals, organizations, or enterprises (other than nationals or permanent residents of the Employer’s</i>	As per said clause, the bidder understands that, for any billing done from within Nepal and outside Nepal, withholding taxes shall be not applicable. Kindly confirm.	Compact Section 2.8 read along with Annex VII – Tax Schedules provide the conditions for tax exemption, refund or reimbursement of Taxes. The bidder needs to assess the application of taxes on its own depending on its status of incorporation and prior registration in Nepal. The Bidder are requested to go through the MCC Compact carefully and understand the different requirements to be eligible for Tax exemptions under Value Added Tax, Custom Duties, Excise Duties, Corporate Income and Withholding Tax and other taxes mentioned in Schedule VII of the Compact.

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30.	<p>Lot 1 Section VII: Particular conditions of the contract/ Sub-Clause 8.1/Commencement of Works/ <i>Commencement of Works</i></p>	<p>The Bidder understands that date for Commencement of Work of Contract shall be date of handing over of encumbrance free land by MCA with fulfilment of Employer's obligations. The Bidder requests us to please confirm the same.</p>	<p>The Commencement shall be as per provision of GCC/PCC 8.1 and the access to site shall be provide as per GCC/PCC 2.1.</p>
31.	<p>Lot 1 Section VII: Particular Condition of Contract/ Clause 6.1, Engagement of Staff and Labour <i>The Contractor shall adopt and implement human resources policies and procedures appropriate to its size and workforce that set out its approach to managing the Contractor's Personnel</i></p>	<p>The Bidder understands, following labor laws are not applicable in Nepal-</p> <ol style="list-style-type: none"> 1. Temporary worker Labour license not required. 2. Provident Fund (PF) not applicable for temporary workers. 3. Insurance coverage required for labor like WC policy. <p>Please confirm.</p>	<p>The Bidder should carry out their own due diligences and perform their own assessment before submitting their Bid. Law in force governing the Contract is that of the Federal Democratic Republic of Nepal.</p>
32.	<p>Lot 1 Section VII: Particular Conditions of Contract/ Sub-Clause 2.1/ Right of Access to the Site <i>If the Contractor suffers delay and/or incurs costs as a result of a failure by the Employer to give any such right or possession within such time, and giving due consideration to the phased implementation of resettlement activities as described in the Appendix to Financial Offer or in a notice from the Engineer, the ontractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1</i></p>	<p>The bidder requests to <u>modify the clause as highlighted below (red font to be deleted)</u>: If the Contractor suffers delay and/or incurs costs as a result of a failure by the Employer to give any such right or possession within such time, and giving due consideration to the phased implementation of resettlement activities as described in the Appendix to Financial Offer or in a notice from the Engineer, the contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1</p>	<p>The Bidding Document shall not be amended.</p>

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33.	<p>Lot 1 Section VII/ Particular Conditions of Contract/ Sub-Clause 20.1/ Contractor’s Claims / And Section VII: Particular Conditions of Contract/ Sub-Clause 4.2/Performance Security/ <i>“Within the above defined period of 42 days, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) the extension (if any) of the Time for Completion (before or after its expiry) in accordance with SubClause 8.4 [Extension of Time for Completion], and/or (ii) the additional payment (if any) to which the Contractor is entitled under the Contract.”</i></p>	<p><u>The bidder requests to modify the clause as highlighted below (blue font to be included):</u>. <u>The aforesaid change is being suggested as in 42 days, not all defects may be remedied. The time would depend upon the complexity of the defect.</u> in case the Contractor is unable to remedy a default within 42 days of receiving notice, from the Employer or such other time period to be mutually agreed between the Parties depending upon the complexity of the defect. The words “, irrespective of whether the notice of termination is given” to be deleted as the Employer needs to follow the termination mechanism laid down in cl 15.2.</p>	<p>The Bidding Document shall not be amended.</p>
34.	<p>Lot 1 Section VII: Particular Conditions of Contract/ Sub-Clause 1.7/ Assignment <i>Neither Party shall assign the whole or any part of the Contract, or any benefit or interest in or under the Contract; provided that, the Employer may assign the whole or any part of the Contract, or any benefit or interest in or under the Contract, to another person or entity of the Government (or another entity designated by the Government) without the consent of the Contractor at any time</i></p>	<p><u>The bidder request to modify the clause as highlighted below (red font to be deleted & blue):</u> Neither Party shall assign the whole or any part of the Contract, or any benefit or interest in or under the Contract; provided that, the Employer may assign the whole or any part of the Contract, or any benefit or interest in or under the Contract, to another person or entity of the Government (or another entity designated by the Government) without with the consent of the Contractor at any time concurrent with the present contract or after the expiration of the Compact.</p>	<p>The Bidding Document shall not be amended.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>concurrent with or after the expiration of the Compact.</i>		
35.	<p>Lot 1 Section VII : Particular Conditions of Contract/ Sub-Clause 2.1/ Right of Access to the Site <i>If the Contractor suffers delay and/or incurs costs as a result of a failure by the Employer to give any such right or possession within such time, and giving due consideration to the phased implementation of resettlement activities as described in the Appendix to Financial Offer or in a notice from the Engineer, the contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1</i></p>	<p>The Bidder request to modify the clause as <u>highlighted below</u>: If the Contractor suffers delay and/or incurs costs as a result of a failure by the Employer to give any such right or possession within such time, and giving due consideration to the phased implementation of resettlement activities as described in the Appendix to Financial Offer or in a notice from the Engineer, the contractor shall give notice to the Engineer and shall be entitled subject to Sub- Clause 20.1</p>	<p>The Bidding Document shall not be amended.</p>
36.	<p>Lot 1 Section-VII: Particular conditions of the contract/Sub-Clause 21.1/ Taxes / <i>“As provided for under the terms of the Compact, most services performed under and activities undertaken in furtherance of the Contract, including in connection with the execution of the Works, are exempt from taxes, duties, levies contributions or other charges imposed under Laws currently or hereafter in effect in the Employer’s Country (separately “tax” and collectively “taxes”) during the effective term of the Compact, including, without limitation:</i></p>	<p>As per the said clause, the bidder understands in case any new taxes or any statutory variation occur during the contractual period, the same shall be to the Employer’s account and shall be reimbursed at actual. Please confirm. Also, any statutory variation during the delayed period shall be in Employer’s account, In case the delay is for the reasons not attributable to contractor.</p>	<p>Compact Section 2.8 read along with Annex VII – Tax Schedules provide the conditions for tax exemption, refund or reimbursement of Taxes. The bidder needs to assess the application of taxes on its own depending on its status of incorporation and prior registration in Nepal.</p> <p>The Bidders are requested to go through the MCC Compact carefully and understand the different requirements to be eligible for Tax exemptions under Value Added Tax, Custom Duties, Excise Duties, Corporate Income and Withholding Tax</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
			and other taxes mentioned in Schedule VII of the Compact.
37.	<p>FIDIC 1999 First edition./Clause 4.2 (c)/ Page 12 <i>failure by the Contractor to remedy a default within 42 days after receiving the Employer's notice requiring the default to be remedied, or</i></p>	<p><u>The Bidder request to modify the clause as highlighted below. The aforesaid change is being suggested as in 42 days, not all defects may be remedied. The time would depend upon the complexity of the defect.</u> <i>failure by the Contractor to remedy a default within 42 days after receiving the Employer's notice requiring the default to be remedied, or such other time period to be mutually agreed between the Parties depending upon the complexity of the defect.</i></p>	The Bidding Document shall not be amended.
38.	<p>FIDIC 1999 First edition./ Clause 4.2 (d)/Page 12 <i>circumstances which entitle the Employer to termination under Sub-Clause 15.2 [Termination by Employer], irrespective of whether notice of termination has been given.</i></p>	<p><u>The Bidder request to modify the clause as highlighted below.</u> The words “, irrespective of whether the notice of termination is given” to be deleted as the Employer needs to follow the termination mechanism laid down in cl 15.2.</p>	The Bidding Document shall not be amended.
39.	<p>FIDIC 1999 First edition/ Clause 4.10) /Page 15 <i>Site Data</i></p>	<p><u>The Bidder request the following provisions w.r.t pre-existing site conditions to be added at the end of this provision:</u> <i>“Notwithstanding the aforesaid: Contractor shall have no responsibility or liability for the pre-existing condition of the Employer’s Equipment or the Site. Prior to the Contractor starting any work at Site, Employer will provide documentation that identifies the presence and condition of any hazardous materials existing in or about the Employer’s</i></p>	The Bidding Document shall not be amended.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p><i>Equipment or the Site that Contractor may encounter while performing under this Contract. Employer shall disclose to Contractor industrial hygiene and environmental monitoring data regarding conditions that may affect Contractor's work or personnel at the Site. Employer shall keep Seller informed of changes in any such conditions.</i></p> <p><i>Contractor shall notify Employer if Contractor becomes aware of: (i) conditions at the Site differing materially from those disclosed by Employer, or (ii) previously unknown physical conditions at Site differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract. If any such conditions cause an increase in Contractor's cost of, or the time required for, performance of any part of the work under the Contract, an equitable adjustment in price and schedule shall be made.</i></p> <p><i>If Contractor encounters Hazardous Materials in the Employer's Equipment or at the Site that require special handling or disposal, Contractor is not obligated to continue work affected by the hazardous conditions. In such an event, Employer shall eliminate the hazardous conditions in accordance with applicable laws and regulations so that Contractor's work under the Contract may safely proceed, and</i></p>	

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p><i>Contractor shall be entitled to an equitable adjustment of the price and schedule to compensate for any increase in Contractor's cost of, or time required for, performance of any part of the work. Employer shall properly store, transport and dispose of all Hazardous Materials introduced, produced or generated in the course of Contractor's work at the Site.</i></p> <p><i>Employer shall indemnify Contractor for any and all claims, damages, losses, and expenses arising out of or relating to any hazardous materials which are or were (i) present in or about the Employer's Equipment or the Site prior to the commencement of Contractor's work, (ii) improperly handled or disposed of by or other contractors of the Employer or (iii) brought, generated, produced or released on Site by parties other than the Contractor".</i></p>	
40.	<p>Lot 1 Section VI : General Condition of Contact <i>The Conditions of Contract, Part 1: General Conditions shall be those forming the General Conditions of the "Conditions of Contract for Plant and Design-Build," First Edition, 1999, as prepared by the Fédération Internationale des Ingénieurs-Conseils ("FIDIC").</i></p>	<p>The Bidder request M/s MCA to provide FIDIC First Edition, 1999 document enabling to consider.</p>	<p>All Bidders are responsible for procuring FIDIC Yellow Book, 1999 edition and other relevant documents required to prepare their Bid and implement the resulting contract, if awarded.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
41.	<p>FIDIC 1999 First edition: Clause 17.1 [Indemnities];/ <i>Indemnities</i></p>	<p><u>The Bidder request to modify the clause as highlighted below.</u> The Contractor shall indemnify and hold harmless the Employer, the Employer's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of: (a) bodily injury, sickness, disease or death, of any person third party whatsoever arising out of or in the course of or by reason of the design, execution and completion of the Works and the remedying of any defects, unless attributable to any negligence, wilful act or breach of the Contract by the Employer, the Employer's Personnel, or any of their respective agents, and (b) damage to or loss of any property, real or personal (other than the Works) of a third party, to the extent that such damage or loss: (i) arises out of or in the course of or by reason of the design, execution and completion of the Works and the remedying of any defects, and (ii) is attributable to any negligence, wilful act or breach of the Contract by the Contractor, the Contractor's Personnel, their respective agents, or anyone directly or indirectly employed by any of them to the extent (a) and/or(b) above is caused due to the negligence of the Contractor. The Employer shall indemnify and hold harmless the Contractor, the Contractor's Personnel, and their respective agents, against and from all</p>	<p>The Bidding Document shall not be amended.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>claims, damages, losses and expenses (including legal fees and expenses) in respect of (1) bodily injury, sickness, disease or death, which is attributable to any negligence, wilful act or breach of the Contract by the Employer, the Employer's Personnel, or any of their respective agents, and (2) the matters for which liability may be excluded from insurance cover, as described in sub-paragraphs (d)(i), (ii) and (iii) of Sub-Clause 18.3 [Insurance Against Injury to Persons and Damage to Property]. In the event the injury or damage is caused by joint or concurrent negligence of the Employer and the Contractor, the loss or expense shall be borne by each party in proportion to its degree of negligence.</p>	
42.	<p>FIDIC 1999 First edition/ Clause 17.6 Limitation of Liability /</p> <p>Section VII: Sub-Clause 17.6 /Limitation of Liability</p> <p><i>“Neither Party shall be liable to the other Party for loss of use of any Works, loss of profit, loss of any contract or for any indirect or consequential loss or damage which may be suffered by the other Party in connection with the Contract, other than as specifically provided in Sub-Clause 8.7 [Delay Damages]; Sub-Clause 11.2 [Cost of Remedying Defects]; Sub-Clause 15.4 [Payment after Termination]; Sub-</i></p>	<p><u>There are too many exceptions to the limitation of liability clause, rendering the clause non-effective. The exceptions leave the Contractor exposed to risk higher than 100% of the contract value. Therefore, the bidder requests the below changes:</u></p> <p><u>First Para:- The bidder would like to retain the original clause as per FIDIC 1999 version except for change below:</u></p> <p>Neither Party shall be liable to the other Party for loss of use of any Works, loss of profit, loss of any contract or for any indirect or consequential loss or damage which may be suffered by the other Party in connection with the Contract, other than under Sub-</p>	<p>The Bidding Document shall not be amended.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>Clause 16.4 [Payment on Termination]; SubClause 17.1 [Indemnities]; Sub-Clause 17.4 (b) [Consequences of Employer’s Risks] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights].”</i></p>	<p>Clause 16.4 [Payment on Termination] and Sub-Clause 17.1 (a) [Indemnities]. <u>Second Para:- Request for modify as under:</u> The total liability of the Contractor to the Employer, under or in connection with the Contract other than under Sub-Clause 4.19 [Electricity, Water and Gas], Sub Clause 4.20 [Employer's Equipment and Free-Issue Material], <u>Sub-Clause 17.1 (a) [Indemnities]</u> and Sub-Clause 17.5 [Intellectual and Industrial Property Rights], shall not exceed the sum stated in the Particular Conditions or (if a sum is not so stated) the Accepted Contract Amount. <u>Third Para:- Request the terms – deliberate default and reckless misconduct be defined.</u> “This Sub-Clause shall not limit liability in any case of fraud, deliberate default or reckless misconduct by the defaulting Party”.</p>	
43.	<p>Lot 1 Section VII: Particular Conditions of Contract / Sub-Clause 11.3/Extension of the Defects Notification Period</p>	<p><u>Request to amend the clause as under as no defects liability can be extended upto 2 years only if suspension by the Employer is attributable to the Contractor. Also, under Cl 16.1, Contractor has the right to suspend due to the defaults of the Employer:</u> If delivery and/or erection of Plant and/or Materials was suspended under Sub- Clause 8.8 [Suspension of Work] provided the suspension by Employer is owing to any act omission of the Contractor or Sub-Clause 16.1 [Contractor's Entitlement to Suspend Work], the Contractor's obligations under this Clause shall not apply to any defects or</p>	<p>The Bidding Document shall not be amended.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		damage occurring more than two years after the Defects Notification Period for the Plant and/or Materials would otherwise have expired.	
44.	FIDIC 1999 First edition./Cl. 11.4 / Failure to Remedy Defects/ Page 35	<u>The Bidder request to modify the clause as highlighted below.:</u> If the defect or damage deprives the Employer of substantially the whole benefit of the Works or any major part of the Works, terminate the Contract as a whole, or in respect of such major part which cannot be put to the intended use. Without prejudice to any other rights, under the Contract or otherwise, the Employer shall then be entitled to recover all sums paid for the Works or for such part (as the case may be), plus financing costs and the cost of dismantling the same, clearing the Site and returning Plant and Materials to the Contractor.	The Bidding Document shall not be amended.
45.	Lot 1 Section VII: Particular conditions of the contract /Sub-Clause 18.5/ Requirements for Professional Liability Insurance <i>Add the following Sub-Clause 18.5:</i> <i>“The Contractor shall effect and maintain professional liability insurance in an amount no less than the total liability of the Contractor to the Employer calculated in accordance with SubClause 17.6</i>	The Bidder would like to inform us that, as per tender specifications, in addition to the Insurance cover for bidder's All Risk and other requirements, the contractor shall maintain Professional Liability Insurance. The Bidder request us to kindly waive / delete the additional requirement of Professional Liability Insurance	The Bidding Document shall not be amended.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
46.	Lot 1 Section IV: Bid Submission Forms/CI. No. 18.1(a) / General Requirements for Insurances <i>Insuring Party shall submit evidence of insurance as well as evidence of payment on or prior to the Commencement Date</i>	The Bidder would like to inform us that , bidder has a global insurance policy covering its entire business portfolio, wherein all Project / Business undertaken by them are covered. Premium Payments are not done as single Project specific. A proof of insurance coverage by means of a certificate by provider can be issued. Request us to kindly accept the same.	The Bidding Document shall not be amended.
47.	Lot 1 Section IV: Bid Submission Forms/ CI. No. 18.2(a) / General Requirements for Insurances <i>Deductibles per occurrence shall not exceed: US\$ 100,000 per occurrence.</i>	The Bidder request to waive this requirement as the risk of the Project until Taking over by Customer lies with Contractor to make good of any insurance loss as per Contract. Request us to kindly accept the same.	The Bidding Document shall not be amended.
48.	Not Used		
49.	Lot 1 CONTRACTUAL CLARIFICATIONS <i>Order of precedence</i>	The Bidder request MCA to confirm the order of precedence of various sections of tender documents.	The Bidders are requested to identify the ambiguity so that it can be corrected.
50.	Lot -1 Price Schedule-2/ Item no. 2.6.1.14 <i>Gas Insulated bus (GIB) and required supports for GIB run whole for Line/Feeder Bay Lot all complete</i>	The Bidder would like to inform us that, reference to the attached Tender drawing the details w.r.t to FGL, NGL, HFL and Terminal points are not furnished. As it may require 3 to 4 months for establishing the same after completion of studies during execution stage and as there may be discrepancy in assumptions considered by	Substations Footprint Coordinates along with the tentative layout drawings are available. Nevertheless, the Bidders are encouraged to visit the sites to carry out the necessary analysis as per the requirements to complete the scope mentioned in the Employer Requirement.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>various bidders, the bidder request MCA kindly provide the following details at tender stage enabling all bidders to quote at par: (1) As per received contour drawing (Drg number- NBW_400_2), we understand, level differences are available at site. Hence, we request to provide clear FGL for GIS enabling to estimate GIB quantities. (2) The bidder request to provide AutoCAD layout indicating bushing termination points.</p>	
51.	<p>Lot-1 -2.18.2.2, 2.18.2.3 2.18.4.2, 2.18.6.2, 2.18.8.2 pg 38, 39 & 189/302 <i>Circuit breakers,4000A: (for 400kV) Complete sets of main contacts - 1Lot Complete sets of arcing contacts - 2Lot Disconnect Swithces,4000A: (for 400kV) Complete set of contacts - 2Nos Maintenance Earthing switches: (for 400kV) Complete set of contacts - 2Nos High speed earthing switches: (for 400kV) Complete set of contacts - 2Nos</i></p>	<p>Factory set up of tools and tackles are needed to assemble & test the contacts, hence these contacts cannot be assembled at site. Hence not feasible to quote as separate item. However main and arcing contacts are already integral part of complete CB pole assembly of spare item. Similarly, DS, ES and HES contacts are already integral part of respective complete pole. Please confirm.</p>	<p>Kindly adhere to the requirements of bidding document.</p>
52.	<p>221123_Lot1_RAT_PSR / 3.1 400KV RATMATE GIS SUBSTATION / Clause 3.1 K / Page 18 of 64</p> <p>220913_Lot1_RAT_TS / clause 12.3.21 / Page 41 of section 1 of GIS Specification <i>The use of PIR and CPWSD for line feeders and associated tiebreaker could</i></p>	<p>Request to please confirm the requirement of PIR for 400KV line feeders and its tie feeder during bid stage.</p>	<p>Bidders are requested to adhere to the specific requirements of GIS-9.2. GIS COMPONENT DELIVERABLES</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>be confirmed only after conducting Transient Switching Study by the Contractor and shall develop respective detailed specifications for PIR as per relevant IEC/IEEE standards. Pre-insertion resistors shall be provided and shall meet the rated line-closing switching surge factor as specified in the applicable standards and the duty cycle as per engineering studies.”</i></p>		
53.	<p>Lot 1 Schedule 4.4.2: Breakdown for day work rates: Materials. <i>4.4.2.6 - Price for control point on wave switching Device (CPWSD) to be installed on 400kV Breaker supplied as per schedule-2</i></p>	<p>Schedule-2 is for complete bays. Request to clarify the description - whether add on price for one number. Of CSD to be indicated for this item?</p>	<p>The Breaker for the Schedule-2 is without CPSWD or PIR, the exact requirement of the CPWSD or PIR will be finalized only after the transient study and additional price will be finalized based on the requirement of the study and price provided in the Schedule 4.4.2</p>
54.	<p>Lot 1 Schedule 4.4.2: Breakdown for day work rates: Materials. <i>4.4.2.7 - Price for Pre-Insertion Resistor (PIR) to be installed on 400kV Breaker supplied as per Schedule-2</i></p>	<p>Schedule-2 is for complete bays. Request to clarify the description - whether add on price for one no. CB with PIR to be indicated for this item?</p>	<p>The Breaker for the Schedule-2 is without CPSWD or PIR, the exact requirement of the CPWSD or PIR will be finalized only after the transient study and additional price will be finalized based on the requirement of the study and price provided in the Schedule 4.4.2</p>
55.	<p>Lot-1-RTE-3.1 e iii,f iii,g iii,h iii, I iii, j i pg 15-18 <i>three-phase sets of single-phase encapsulated, independent pole, circuit breaker isolating disconnect switches and maintenance earthing switches complete with manual and motor-driven</i></p>	<p>Single phase encapsulated independent pole disconnect switches and Earthing switches with manual and motor driven gang operated mechanisms are proposed.</p>	<p>The requirement of the bid document cannot be changed.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>operating mechanisms</i>		
56.	Lot 1-3.2 J ii <i>ii. (2) two trifurcation modules to transition from three single-phase encapsulated, independent pole, autotransformer isolating disconnect switches to single-phase gas-insulated bus extension to a gas-to-air bushing module for the spare autotransformer</i>	As bidder offered GIS is single phase encapsulated design, hence trifurcation module is not applicable. As per customer given layouts, we understand busduct with SF6 to air bushing termination for spare auto transformer is not required. Please confirm.	Kindly adhere to the technical requirements.
57.	Lot 1- 3.2 k) <i>The use of PIR and CPWSD for line feeders and associated tiebreaker could be confirmed only after conducting Transient Switching Study by the Contractor and shall develop respective detailed specifications for PIR as per relevant IEC/IEEE standards. The Price of the line circuit breaker and its associated tie circuit breakers equipped with CPWSD and circuit breaker equipped with PIR should be provided as per the Schedule 4.4.2: Breakdown for Day work Rates: Materials</i>	Since the bidder understand that line length for proposed sub stations interconnections is less than 200kM, request to confirm the requirement of PIR for line bays and its associated tie bays for both options. Request kindly to note that dimensions of CB with PIR and CB without PIR will have huge impact on size of building/GIS dimensions. Accordingly, request to confirm PIR requirement for building design consideration.	The exact requirement of the CPWSD or PIR will be finalized only after the transient study which is under the current scope of work.
58.	Price Schedule Lot 1 - Base Price Schedule & Option Price Schedule, Lot-1, 1.1 & 220913_Lot1_NBW_TS 101 & 225/302 <i>Design works (Electrical)</i>	The bidder request M/s MCA to exclude system studies for the whole Sub Station. Relevant Type Test Reports (TTRs) shall be submitted for GIS during execution stage.	The system study is part of the project requirement and hence bidders are requested to meet the stipulated requirement. The GIS shall be of type tested as per GTR.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
59.	<p>Price Schedule Lot 1 - Base Price Schedule & Option Price Schedule, Lot-1 - 4.1.7.1.14, 4.1.7.2.15 <i>Three Single Phase Gas Insulated bus (GIB) and required GIS Termination along with supports for GIB run for whole Transformer Bay Lot</i></p>	<p>The Bidder request M/s MCA to quantify Gas insulated bus (GIB) length in price schedule (Base and Option). Any change in length shall be paid at actuals at unit rate basis.</p>	<p>The requirement of GIB cannot be quantified in the Price Schedule as it is a design build contract, so bidders are requested to offer the price as per available information /site visit and their expertise to complete the scope of works.</p>
60.	<p>Price Schedule Lot 1, - Base SoW & Option SoW / 3.18 <i>Recommended spare parts, equipment, tools and instruments for maintenance</i></p>	<p>Mandatory spares as customer BOQ shall be offered. The bidder does not recommend spares in their offer.</p>	<p>Bidders are requested to fill the Price Schedule No. 6: Recommended Spare Parts, Repair and Maintenance Tools (Breakdown of Rates) for <i>Recommended spare parts, equipment, tools and instruments for maintenance</i> apart from the included mandatory spare parts listed in schedule 2 and schedule 3. Please note that the price of recommended spare parts quoted in Price Schedule No. 6 shall not be considered for evaluation.</p>
61.	<p>Section V-B1 (Technical specification) for all SS / 8.7.1 pg 17 9.1.12 pg 23 <i>o. 3D Model of GIS general arrangement drawings</i></p>	<p>3D models shall be provided in .iges or .stp format.</p>	<p>The design software and the format of reporting shall be mutually decided during implementation. Any internationally recognized format may be accepted.</p>
62.	<p>Section V-B1 (Technical specification) Clause Number -8.7.1 Page 17 9.1.12 Page 23 <i>d. Insulation coordination, transient recovery voltage (TRV), very fast transients (VFT), and electromagnetic transients program studies pricing.</i> <i>e. Seismic qualification plan and pricing.</i></p>	<p>The Bidder request M/s MCA to accept below – d. Very fast transients (VFT) studies shall be excluded from bidder’s scope. Relevant Type Test Report (TTR) shall be submitted for the same during execution stage.</p>	<p>Bidders are requested to adhere to the stipulated requirements. The Type Test Requirement shall be met as per GTR and Technical Specifications.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>Insulation co-ordination study</i>	e. Seismic calculation with required note shall be submitted during Engineering in line with approved layouts for this package.	
63.	Section V-B1 (Technical specification) for all SS / 8.7.2 pg 17 <i>l. Availability and price of high-voltage test equipment.</i>	HV test kit shall be brought to site on returnable basis during commissioning. The bidder is not considering the same in supply tools.	Yes, your consideration is correct.
64.	Section V-B1 (Technical specification) for all SS / 9.1.11 pg 22 <i>Temperature rise of current carrying parts shall be limited to the values stipulated in IEC 62271-1, under rated current and the climatic conditions at site. The temperature rise for all enclosures shall not exceed 20 °C above the ambient temperature of 50 °C.</i>	Temperature rise of current carrying parts shall be as per latest IEC 62271-1 Table 14.	Your understanding is correct
65.	Section V-B1 (Technical specification) for all SS / 9.2.13 pg 24 12.2.17 pg 46 <i>A gas density monitoring system (GDM) integrated with existing communication systems including gas density monitors (with alarm contacts), gas density monitoring (GDM with transducers) hardware and software system, pressure relief devices, gas filling connections and Human Machine Interface (HMI). The Contractor shall also provide a stand-alone Gas Density Monitoring (GDM) system using SF6 gas density transducers. The GDM shall have RS-485 serial communication with distributed network protocol (DNP) to</i>	Gas density monitoring system shall be with temperature compensated gas density switches with RS485 interface wired up to GIS LCC. Transducers, hardware and software system, HMI shall be through SCADA in control room building and separate HMI at LCC level is not envisaged as per bidder's offered design .	Kindly adhere to the requirements of the Technical Specifications.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>transmit gas zone and system alarms to the Employer's Human Machine Interface (HMI) system.</i>		
66.	Section V-B1 (Technical specification) for all SS / 9.3.6 pg 26 2 c) pg 106 <i>System Switching Transient Study - to determine whether the circuit breakers need to be equipped with pre-insertion resistors.</i> <i>Pre-insertion resistor: 400Ω, min. insertion time 8ms, insertion overlap with main contacts 5ms</i>	<p>The bidder would like to inform us that requirement of Preinsertion resistor (PIR) for line bay Circuit Breakers to be decided before bid submission as there is huge impact on cost and dimensions of GIS. Hence, the bidder request to confirm this requirement for line bay Circuit Breakers with revise Single Line Diagram during bidding stage enabling to consider.</p>	<p>The exact requirement of the CPWSD or PIR will be finalized only after the transient study which is under the current scope of work. Bidders are requested to submit the proposal accordingly.</p>
67.	Section V-B1 (Technical specification) for all SS / 9.3.7 pg 26 <i>Ferro resonance study - to determine if interactions between the GIS bus or interconnected cables and wound voltage transformers produce a resonance situation and require the installation of tuned inductors on the voltage transformer secondaries.</i>	<p>The bidder would like to inform us that ferro resonance study is required when GIS Circuit Breakers are with double interrupter & uses capacitors for voltage distribution. As Offered Circuit Breakers are with single interrupter design, hence requirement of dampening device on VT secondaries are not required. Accordingly, ferro resonance study is also not required and not considered. Please accept and confirm.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>
68.	Section V-B1 (Technical specification) for all SS / 11.4 pg 27 <i>Bushing insulation properties - 400kV - 1550kVp</i>	<p>The bidder would like to inform us that mentioned Bushing insulation properties are for 550kV system. For 400kV, BIL shall be 1425 kVp. Please confirm.</p>	<p>The bidders are requested to refer and comply with the technical specifications.</p>
69.	Section V-B1 (Technical specification) for all SS / 12.2.3 pg 44 <i>Each section shall be provided with the necessary piping and valves to allow isolation, evacuation, and refill of gas without evacuation of any other section.</i>	<p>The bidder would like to inform us that in bidder's offered type tested design, there is no piping arrangement, hence not considered. Please accept and confirm.</p>	<p>No change in the specifications. The Design is subject to approval by the Engineer.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
70.	<p>Section V-B1 (Technical specification) for all SS / 12.2.4 pg 44 <i>.....each circuit breaker bay shall have separate independent gas compartments for the circuit breaker, CTs, disconnect switches, maintenance earthing switches, high speed ground switches, voltage transformers, metal-enclosed surge s, cable sealing end enclosures, bus sections, gas-toair- bushing modules and interface connections for future expansion of the GIS.</i></p>	<p>Request kindly to note that in our design CT secondaries are Air insulated. Hence, separate gas compartment is not required / applicable. For 220kV design, as Maintenance earthing switches are combined with disconnectors, all maintenance earthing switches and high speed earthing switches shall be part of disconnector gas compartment.</p>	<p>No change in the specifications. The Design is subject to approval by the Engineer</p>
71.	<p>Section V-B1 (Technical specification) for all SS / 12.4.5 pg 52 <i>For Isolating Disconnect Switches and Maintenance Earthing Switches: A minimum of 12 "a" and 12 "b" auxiliary contacts shall be provided for each switch that are field reversible for the Employer's use.</i></p>	<p>4NO+4NC shall be spare auxiliary contacts available for multiplication as required. Kindly note auxiliary contacts are not reversible/adjustable at site due to safety reasons.</p>	<p>Noted.</p>
72.	<p>Section V-B1 (Technical specification) for all SS / 12.6.9 pg 56 <i>CTs : Shielded cables with a minimum of 6 mm² stranded copper conductor shall be used for wiring between the current transformer and the LCC.</i></p>	<p>In bidder's offered GIS, 4 sq.mm stranded copper conductor is used for wiring between the CT and the LCC. Please accept and confirm.</p>	<p>Bidders are requested to adhere to the standard requirements as stipulated in technical specifications.</p>
73.	<p>Section V-B1 (Technical specification) for all SS / 12.10.2 & 12.10.3 pg 59 <i>The connection shall be equipped with a removable link to permit separation of GIB and GIS for high voltage testing. The Employer's preference is for the GIL</i></p>	<p>The Bidder understand, removable telescopic conductor shall be provided for separation of GIB and GIS. Hence, requirement of the same shall be decided during detailed Engineering stage depending on the test circuit. Please confirm.</p>	<p>Confirmed.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>removable link to be located inside the GIS enclosure for an indoor GIS.</i>		
74.	Section V-B1 (Technical specification) for all SS / 12.13.1 & 12.13.2 pg 59 <i>The LCCs shall comply with the requirements of IEEE C37.21. Each cabinet shall be a NEMA 12 enclosure, as a minimum, for indoor application.</i>	The bidder would like to inform us that in bidders offered GIS, LCC complies latest IEC standard. Please accept.	No change in the specifications. The Bidder to prove that the requirements of the IEC are equivalent or better than NEMA.
75.	Section V-B1 (Technical specification) for all SS / 12.13.13 pg 62 <i>Marshaling cabinets may also be required and are acceptable as intermediate termination locations between the GIS and LCC and LCC and the substation control room.</i>	Terminal box shall be provided at GIS end. Marshaling box is not provided in GIS.	The exact requirement will be finalized in the detailed Engineering with approval by the Engineer.
76.	Section V-B1 (Technical specification) for all SS / 12.14.2 pg 62 <i>All current transformer secondary wiring in the LCC shall be minimum 6 mm² stranded copper and all other wiring except for instrumentation shall be a minimum 2.5 mm²</i>	The bidder would like to inform us that in bidders offered GIS, wiring of CT shall be with 4 sq.mm copper wires and control wiring shall be with 1.5 sq.mm copper wires. Please accept.	The requirement in the bid document cannot be changed.
77.	Section V-B1 (Technical specification) for all SS / 12.18.1 pg 66 <i>The GIS shall be provided with capacitive voltage couplers, with provisions for the attachment of a voltage measuring device for diagnostic monitoring and ultra-high-frequency partial discharge (PD) measurement</i>	UHF sensors shall be provided for PD monitoring. PD monitoring system can measure and monitor PD in GIS with expert system software for diagnosis. Capacitive voltage couplers are not provided for voltage measurement as all outgoing feeders are with Voltage transformer.	Your understanding is correct.
78.	Section V-B1 (Technical specification) for all SS / 12.24.1 pg 72	Hard copy and soft copy of detailed Operation and maintenance manuals shall be provided to customer during Engineering.	Please follow the requirements of the bid document.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>The Contractor shall provide DVD videos which provide an overview of the operation and maintenance of the GIS equipment provided for the project.</i>		
79.	Section V-B1 (Technical specification) for all SS / 1. pg 102 <i>Each LCC shall be furnished with a local/remote switch to block or allow local control through the HMI screen.</i>	The bidder would like to inform us that in bidders offered GIS, LCC is of conventional type and will not have any HMI screen. Please accept.	The provision in the bid document cannot be changed.
80.	Section V-B1 (Technical specification) for all SS / 1. pg 102 <i>Gas Density Monitoring (GDM) equipment for each gas zone with Human Machine Interface (HMI).</i>	GDM shall be with temperature compensated gas density switches with RS485 ports wired up to LCC. There will not be any HMI in LCC. Please confirm.	The provision in the bid document cannot be changed.
81.	Section V-B1 (Technical specification) for all SS / 2 pg 103 <i>System X/R (maximum) X/R = TBD (shall be finalized after study report)</i>	Please provide the X/R ratio value.	It is design and build contract and the value of X/R will be finalized during the detailed engineering which is under this scope of work.
82.	Section V-B1 (Technical specification) for all SS / 2 c) pg 105 <i>TRV peak value terminal fault - 817kV at T100 [1]</i> <i>TRV peak value short line fault - 629kV at T100 [1]</i> <i>TRV peak value out-of-phase - 1120kV at T100 [1]</i>	The bidder would like to inform us that mentioned TRV peak values are not as per Table-5 of IEC 62271-100 for 400kV system. Hence, following values are considered by bidder- TRV peak value terminal fault - 624kV at T100 TRV peak value short line fault - 480kV at T100 TRV peak value out-of-phase - 857kV at T100. Please accept	Kindly adhere to the requirements of the bidding documents.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
83.	Section V-B1 (Technical specification) for all SS / 2 c) pg 105 & 106 <i>TRV peak value T60 - 876kV [1]</i> <i>TRV peak value T30 - 899kV [1]</i> <i>TRV peak value T10 - 1030kV [1]</i>	The bidder would like to inform us that mentioned TRV peak values are not as per Table-26 of IEC 62271-100 for 400kV system. Hence, following values are considered by bidder- TRV peak value T60 - 669kVp TRV peak value T30 - 687kVp TRV peak value T10 - 787kVp. Please accept.	Kindly adhere to the requirements of the bidding documents.
84.	Section V-B1 (Technical specification) for all SS / 2 c) pg 106 <i>Ambient temperature range : -30 °C up to +40 °C</i>	The bidder would like to inform us that temperature range shall be -20 to +50 deg C. Please amend.	Kindly adhere to the requirements of the bidding documents.
85.	Section V-B1 (Technical specification) for all SS / 2 e) pg 107 <i>GIS CT : Mechanical design - Indoor class, temp range -30 to +50°C</i>	The bidder would like to inform us that temperature range shall be -20 to +50 deg C. Please amend.	Kindly adhere to the requirements of the bidding documents.
86.	Section V-B1 (Technical specification) for all SS / 2 f) pg 107 <i>GIS VT: Accuracy class 0.3WXYZ</i>	The bidder request M/s MCA to clarify the accuracy class for GIS VTs.	Accuracy class shall be as indicated in the requirements of the bidding documents.
87.	Not Used.		
88.	Price Schedule Lot1 Base / 2.7.2.14 <i>Isolating and Earthing switches, 400kV, 4000A, 50kA single phase and Gas insulated Bus(GIB) for spare transformer, with auxiliary bus, GIS to AIS bushing termination....</i>	Not applicable to 220kV GIS as it is indicated as 400kV.	MCA-Nepal may issue an addendum to correct the voltage rating in the Price Schedule after approval from the authority.
89.	Price Schedule Lot1 Base / 2.18.5 & 2.18.7 <i>Mandatory spare parts of 220kV GIS:</i>	Maintenance earthing switch is integral part of one of the bus bar disconnect or and outgoing feeder disconnect. Hence 2.18.7 shall not be quoted as separate.	Kindly adhere to the requirements of the bidding documents.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>Disconnect switches 4000A (For 220kV) Maintenance Earthing switches (For 220kV)</i>		
90.	Price Schedule Lot1 Base / 2.18.3.2,2.18.3.3,2.18.5.2,2.18.7.2,2.18.9.2 <i>Circuit breakers,4000A 220kV: Complete sets of main contacts - 1Lot Complete sets of arcing contacts - 2Lot Disconnect Swithces,4000A 220kV: Complete set of contacts - 2Nos Maintenance Earthing switches 220kV: Complete set of contacts - 2Nos High speed earthing switches: Complete set of contacts - 2Nos</i>	Factory set is needed to assemble the contacts, hence these contacts cannot be assembled at site. Hence not feasible to quote as separate item. However, 2.18.3.2,2.18.3.3 are already integral part of 2.18.3.1 complete CB pole assembly spare item. Similarly,2.18.5.2 & 2.18.9.2 are already integral part of 2.18.5.1 & 2.18.9.1.	The Bidder shall quote the price under the Price Schedule required to carry out Work stated under Employer's Requirements (including technical specifications) based on the Conditions of Contract.
91.	Price Schedule Lot1 Base / 2.7.5 <i>Other necessary works as per Employer's requirement and conditions of contract, if any, not included above(specify)</i>	Not applicable.	The Bidder shall quote the price under the Price Schedule required to carry out Work stated under Employer's Requirements (including technical specifications) based on the Conditions of Contract.
92.	Section V - B1 (Project Specific Requirements) / 3.2 e iii,f iii,g iii,h iii <i>three-phase sets of single-phase encapsulated, independent pole, circuit breaker isolating disconnect switches and maintenance earthing switches complete with manual and motor-driven operating mechanisms</i>	Single phase encapsulated independent pole disconnect switch with combined earthing switch with manual and motor driven gang operated mechanisms.	Kindle adhere to the requirements of the bidding documents.
93.	Section V - B1 (Project Specific Requirements) / 3.2 J ii <i>ii. (2) two trifurcation modules to transition from three single-phase</i>	As offered GIS is single phase encapsulated design, hence trifurcation module is not applicable. As per customer given layout RTE-200-1 Rev10, we understand busduct	Kindly adhere to the technical requirements.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	encapsulated, independent pole, autotransformer isolating disconnect switches to single-phase gas-insulated bus extension to a gas-to-oil termination bushing module for the spare autotransformer	with SF6 to air bushing termination for spare auto transformer is not required. Please confirm.	
94.	SLD: RTE-101-2 Rev 2 <i>220kV GIS Line/Transformer/BC bay</i>	As per customer given SLD, there is no future bays shown, hence we do not consider space for future dia. If require space for future bays, please clarify number of future dia space to consider.	Please follow the B11: PSR for number of future bays dia. for bidding purpose.
95.	Not Used.		
96.	CHAPTER 1: GIS TECHNICAL SPECIFICATION / Clause no 12.28 / EOT Crane <i>12.28. ELECTRIC OVERHEAD TRAVELLING CRANE: One EOT Crane each for 400kV GIS hall and 220kV GIS hall of suitable capacity shall be provided for erection & maintenance of the largest GIS component/assembly.</i>	EOT Crane capacity of 5T with Single girder, hook height as per OEM recommendation shall be considered which is adequate and meets the functional requirement for both 400KV & 220kV GIS hall. Kindly accept.	Bidders are requested to consider suitable capacity of the EoT for 400kV GIS hall and 220kV GIS hall. The size will be finalized at the time of detailed design.
97.	221123_Lot1_RAT_PSR Cl. 2.1.1 .h General Arrangement Ratmate 400/220/132/33kV Substation Drg. No. RTE-200-1 <i>220 kV GIS bays with required GIB, 2 nos. for 220 kV future lines including GIB termination along with supporting structure but without outdoor AIS equipment.</i>	In the general arrangement layout, all 220kV lines (including GIBs) are shown in dotted (as future). In case 220kV line GIB are to be considered kindly confirmed GIB to be considered for which bays.	The GIB for the future bays shown in the dotted lines is not under current scope of works.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
98.	221123_Lot1_RAT_PSR Cl. 2.1.1 <i>GIS Bays</i>	The bidder understands, GIS bay modules for future bays (for both 400kV and 220kV) are not to consider in the base offer as well as option offer.	Kindly adhere to the clause 2.1.1 and 2.2.1 of PSR for Base Scope of work and Option Scope of work.
99.	221123_Lot1_RAT_PSR Cl. 3.5 <i>Station Service Transformer</i>	Kindly define the losses to be considered for station service transformer.	MCA-Nepal may issue an addendum to include the technical specifications and losses of station transformer after approval from the authority.
100.	Not Used.		
101.	221123_Lot1_RAT_PSR Cl. 2.1.2.a <i>Two numbers of 400 kV GIS bays including control and protection relay panels, substation automation system, etc. are being supplied, delivered, installed, tested and commissioned by NEA under a different Contract for termination of Ratmate-New Hetauda 400 kV D/C Transmission line at New Hetauda Substation.</i>	400kV GIS bays, GIBs, outdoor equipment at New Hetauda substation is already existing including power & control cables, equipment connection (conductor & clamp-connector/hardware), earthing etc.	Kindly adhere to the requirement of the bidding documents including PSR for the exact scope of work.
102.	221123_Lot1_RAT_PSR Cl. 2.1.3.a <i>Two numbers of 400 kV GIS bays including control and protection relay panels, substation automation systems etc. are being supplied, delivered, installed, tested and commissioned by Other Contractor of NEA for termination of Ratmate-Lapsiphedi 400 kV D/C Transmission line at Lapsiphedi Substation.</i>	400kV GIS bays, GIBs, outdoor equipment at New Hetauda S/s is already existing including power & control cables, equipment connection (conductor & clampconnector/hardware), earthing etc.	Kindly adhere to the requirements of the bidding documents including PSR for the exact scope of work.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
103.	220913_B02_GTR Cl. 17.1 DET_410_2 DET_410_4 <i>SUPPORT STRUCTURES: The equipment support structures shall be suitable for equipment connections at the first level i.e. 14.0 meter and 8.0 meter from plinth level for 420 kV and 245 kV substations respectively.</i>	As per drawing no. DET_410_2 and DET_410_4, equipment bus height (1st level) has been mentioned 5.90 m and 8.0 m for 220kV and 400kV system respectively. This requirement is not matching with GTR requirement. As there is contradiction between drawing and GTR, bidder understand that bidder to follow input furnished in tender drawing. Kindly confirm	Confirmed.
104.	221123_Lot1_RAT_PSR Cl. 3.12 <i>Earthing</i>	The bidder understand, base scope earth mat for 400kV & 220kV side is limited to present bays in scope only. Kindly confirm.	Earthmat and land development for the future bays is also included in the Base Scope of works.
105.	221123_Lot1_RAT_PSR Cl. 3.13 <i>LIGHTING SYSTEM</i>	The bidder understand, base scope lighting system for 400kV & 220kV side is limited to present bays in scope only. Kindly confirm.	As there is no supply of future bays in the Base Scope of work, so no scope of lighting system for future bays is envisaged.
106.	221123_Lot1_RAT_PSR Cl. 3.14 <i>Lightning Protection</i>	The bidder understand, base scope of lightning protection for 400kV & 220kV side is limited to present bays in scope only. Kindly confirm	Confirmed.
107.	221123_Lot1_RAT_PSR Cl. 3.16 <i>Visual Monitoring system</i>	The bidder understand cameras for visual monitoring system shall be installed in the new 400kV bays area under the present scope mentioned in base offer.	Visual monitoring system shall be installed in the area under the present scope mentioned in Base Scope of work.
108.	Lot -1 Price Schedule-2 Item no. 2.1.18 <i>30kV,10kA Lightning arrester for 33kV line bays</i>	As per tender SLD the bidder understands that there is no 33kV line in the present scope. 33kV Station transformer shall be fed from tertiary of Auto Transformer. Kindly confirm the requirement of 30kV LA for 33kV line bays.	30kV LA is for protection of station service transformer fed from tertiary of Auto Transformer. Please treat this 33kV bay feeding Station Transformer as Station Transformer Bay. There is no 33kV Line Bay as such.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
109.	Lot -1 Price Schedule-2 Item no. 2.4.4 <i>XLPE Power Cable, 33kV (from LV side of the Auto transformer to 33kV line bay arrangement)</i>	Location of 33kV line bay arrangement is not shown in the layout (Drg. No. NDM-200-1 Rev.7). Hence, request us to kindly either share the location of 33kV line bays or else provide the route length of the 33kV Cable. Kindly also define size and cores for 33kV Cable.	There are no 33kV Line Bays as indicated above also. From Auto Transformer Tertiary Terminals, 33kV Cables to be routed towards suitable location for Station Transformer indicated in the referenced drawing. Tertiary Bus also needs to be formed as required. 33kV Cable shall be of copper conductor and must be sized to be safe against say 30% overload, against voltage drop (within 1%) and against short circuit current mostly limited by Station Service Transformer Impedance.
110.	Lot -1 Price Schedule-2 Item no. 2.4.5 <i>33 kV Cable Pothead</i>	Kindly explain the scope of work against the line item.	To complete the scope of 33 kV cable connecting from tertiary of autotransformers to Tertiary Bus.
111.	Lot -1 Price Schedule-2 Item no. 2.4.7 <i>Cable carriers (trays, conduits, ducts) for routing the HV & LV power, control, instrumentation, and communication interface cables.</i>	The bidder understand HV cable shall be laid buried. For other LT power, control and instrumentation cable shall be in the trench on support angle without cable trays. Kindly confirm our understanding.	Kindly adhere to the requirements of the bidding documents.
112.	220913_Lot1_RAT_TS Chapeter-2 Section 1 Cl. 7.0 SPARE PARTS AND MAINTENANCE EQUIPMENT	The bidder have considered spare parts and maintenance equipment as per bid price schedule only and also understand bid price schedule supersedes technical specification regarding requirement of spares and maintenance equipment. Kindly confirm our understanding.	The spare parts have to be supplied as per the Price Schedule and as per the technical specifications, as the two documents are complementary. The Bidder shall quote the prices to comply with the Employer's requirements as well as the Technical Specifications.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
			Further, please note that the purpose of price schedules is to identify the Bid Price which will be used to determine progress payments. The Bidder shall quote the price under the Price Schedule required to carry out Work stated under Employer's Requirements (including technical specifications) based on the Conditions of Contract.
113.	220913_Lot1_RAT_TS Chapeter-2 Section 2 Cl. 6.0 <i>Support Structure for Isolator</i>	The bidder understands that, support structure for isolator shall be operated BOQ item no. 2.2.10 of price schedule 2.	Correct.
114.	SLD Drg. RTE-100-2 Rev-08 <i>220kV LA</i>	In the SLD, 220kV LA has shown however, in the price schedule 220kV LA and associated structure has not been mentioned. Kindly confirm 220kV LA shall be AIS type or part of GIS. In case 220kV LAs are AIS type, kindly amend the BOQ accordingly.	Please follow the item 2.1.1: 167 MVA, (400/√3/220/√3/33) kV, Single Phase Auto-Transformer with OLTC, RTCC Facility, <i>Surge protection arrangement (AIS) for HV, IV and LV side</i> and with Bushing CT complete with all accessories as specified for the LA required for the Autotransformers and it should be AIS.
115.	SLD Drg. RTE-100-2 Rev-08 <i>220kV LA</i>	The bidder understands, 220kV LAs to be considered for 400/220kV Auto transformers only. For line bays 220kV LAs are not be considered. Kindly confirm.	Confirmed. The AIS equipment including AIS LA for 220 kV for Future Line Bays is not in the current scope of works.
116.	220913_Lot1_RAT_TS Chapeter-2 Section 2 Cl. 8.0 <i>SPARE PARTS AND MAINTENANCE EQUIPMENT</i>	As per received tender documents, Spare Parts and Maintenance Equipments required are mentioned in both Price Schedule and technical specification (220913_Lot1_NBW_TS). The bidder understand that bidder has to consider spare parts and maintenance	The spare parts have to be supplied as per the Price Schedule and as per Technical Specifications, as the two documents are complementary. The Bidder shall quote the prices to comply with the Employer's

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>equipment as per bid price schedule only and the spare parts and maintenance equipment in the respective specification not to be consider by bidder. Kindly confirm our understanding.</p>	<p>requirements as well as the Technical Specifications. Further, please note that the purpose of price schedules is to identify the Bid Price which will be used to determine progress payments. The Bidder shall quote the price under the Price Schedule required to carry out Work stated under Employer's Requirements (including technical specifications) based on the Conditions of Contract</p>
117.	<p>220913_Lot1_RAT_TS Chapeter-2 Section 3 Cl. 3.0 <i>Current Transformer</i></p>	<p>Kindly provide secondary core details (i.e. number of cores, core classifications, burden etc.) for Current transformers.</p>	<p>This will be finalized during detailed Engineering subject to approval by the Engineer.</p>
118.	<p>220913_Lot1_RAT_TS Chapeter-2 Section 3 Cl. 7.0 & Chapeter-2 Section 4 Cl. 6.0 <i>SPARE PARTS AND MAINTENANCE EQUIPMENT</i></p>	<p>The bidder has considered spare parts and maintenance equipment as per bid price schedule only and also understand bid price schedule supersedes technical specification regarding requirement of spares and maintenance equipment. Kindly confirm their understanding.</p>	<p>The spare parts have to be supplied as per Price Schedule and as per Technical Specifications, as the two documents are complementary. The Bidder shall quote the prices to comply with the Employer's Requirements as well as the Technical Specifications. Further, please note that the purpose of price schedules is to identify the Bid Price which will be used to determine progress payments. The Bidder shall quote the price under the Price Schedule required to carry out Work stated under Employer's Requirements (including technical</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
			specifications) based on the Conditions of Contract
119.	Lot -1 Price Schedule-2/ Item no. 2.13.1.10 <i>Online Partial Discharge Monitor System-1 No</i>	The bidder wish to inform us that, as per standard practice followed by utilities and major private players, they propose offline Partial Discharge Monitoring system for 400kV GIS & 220KV GIS, which will be as optimum consideration meeting functional requirement. They request to accept the same.	Kindly adhere to the requirements of the bidding documents.
120.	220913_Lot1_RAT_TS Chapter-6 Cl. 1.1.a <i>For all control and protection or instrumentation purposes PVC insulated armoured control cables of minimum 2.5 mm² size with stranded copper conductors shall be used.</i>	Kindly confirm, whether they may propose 1.5sq.mm. LT control cables other than cables for CT & CVT. For CT & CVT we shall consider min. size as 2.5 sq.mm. cable.	Kindly adhere to the requirements of the bidding documents.
121.	220913_Lot1_RAT_TS Chapter-17 Cl. 1.0 <i>AAC AND ACSR CONDUCTOR</i>	The bidder understands bidder can choose the any conductor type as per the actual requirement. Kindly confirm.	Confirmed. The conductor type will be finalized subject to approval by the Engineer.
122.	220913_Lot1_RAT_TS Chapter-17 Cl. 3.4 Table 12 <i>Technical Parameters of Tubular Bus</i>	The bidder understands bidder can choose the any size of the tubular conductor as per the actual requirement. Kindly confirm.	The tubular bus can be finalized based on the requirement of TS subject to approval by the Engineer.
123.	220913_Lot1_RAT_TS Chapter-17 Cl. 1.4.a <i>The substation earthing system shall be designed to meet 50 kA of fault current with a clearing time of 20 cycles.</i>	The bidder understands, for earthing design they can consider fault current 50kA with max. clearing time 1s.	Yes.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
124.	220913_Lot1_RAT_TS Chapeter-17 Cl. 6.9 <i>LIGHTING SYSTEM INSTALLATION WORKS</i>	The bidder understands for outdoor illumination scope, gantry mounted lighting is acceptable customer. Kindly confirm.	Kindly adhere to the requirements of the bidding documents.
125.	220913_Lot1_RAT_TS Chapeter-18 Cl. 1.0 <i>STRING INSULATORS & HARDWARE</i>	The bidder understands that transmission line side insulator along with hardware are not part of substation's contractor scope. Kindly confirm.	Confirmed. Please follow the <i>limit scope of supply and interfaces</i> chapter of PSR documents for details.
126.	Lot 1-Price schedule / Item 2.13.5 <i>Water Treatment Facility</i>	The Bidder request us to kindly furnish the detailed specification for water Treatment facility.	MCA-Nepal may issue an addendum to the biding document after approval of the authority to include the water treatment facility specifications.
127.	Lot 1-Price schedule / Item 2.14.2.1 <i>Oil-treatment unit 6000lph along with suitable size and quantity of connection arrangement (MCCB (240-300 Amp),terminal lugs etc.) all complete (autotransformer)</i>	The bidder request you to kindly furnish the detailed specification for Oil-treatment unit 6000lph.	MCA-Nepal may issue an addendum to the bidding document after approval of the authority to include the specifications of the oil-treatment unit.
128.	CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION / clause 3.14 DISSOLVED GAS AND MOISTURE MONITOR: <i>a. An on-line transformer monitoring system to continuously monitor dissolved gasses and moisture shall be provided for each autotransformer supplied.</i>	The bidder wish to inform us that said item for on-line transformer monitoring system is not mentioned in Bid price schedule hence we understand the same is excluded from bidder's scope . Please confirm.	Please note that the purpose of the price schedules is to identify the Bid Price which will be used to determine progress payments. The Bidder shall quote the price under the Price Schedule required to carry out Work stated under Employer's Requirements (including technical specifications) based on the Conditions of Contract.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
129.	Section IV: Bid Submission Forms Lot 1- Technical Data Schedule 1.1 Single-Phase Auto Transformer Serial Number 6 / 147 of 1019 <i>'Cooling: ONAN / ONAF / OFAF</i>	As ODAF cooling is improved technology bidder's offered transformer is considered with the cooling ONAN/ONAF/ODAF. Please accept.	Accepted.
130.	Section IV: Bid Submission Forms Lot 1- Technical Data Schedule 1.1 Single-Phase Auto Transformer Serial Number 12.4.3 & 21 148 & 153 of 1019 <i>'Serial Number 12.4.3</i> <i>'Sound Levels : 80 dbA</i> <i>Serial Number 21</i> <i>'Noise Level: As per NEMA TR-1</i>	The Bidder would like to inform us that requirement mentioned is contradictory. Offered sound level shall be as per NEMA TR-1 for 315 MVA OFAF/ODAF cooling sound pressure level is 90 dB(A). Please accept.	Please follow the technical specifications for the noise level.
131.	Section IV: Bid Submission Forms Lot 1- Technical Data Schedule 1.1 Single-Phase Auto Transformer Serial Number 12.12 / 149 of 1019 <i>'Overload capacity: As per IEC-354</i>	'IEC-60345 is withdrawn and replaced by IEC 60076-7. Kindly accept	Accepted
132.	Section IV: Bid Submission Forms Lot 1- Technical Data Schedule 1.1 Single-Phase Auto Transformer Serial Number 18 / 151 of 1019 <i>18. Bushings</i>	'Details of Tertiary bushing not specified, kindly provide the details	MCA-Nepal may issue an addendum to the bidding document after approval from the authority to include the tertiary bushing specifications as: Tertiary Bushings shall have Rated Voltage: 52kV Rated Current: 1250Amp Minimum Total Creepage Distance=1612mm
133.	Section IV: Bid Submission Forms Lot 1- Technical Data Schedule 1.1 Single-Phase Auto Transformer	'Requirement of termination is not clear. However bidder have considered the termination as mentioned below.	Your consideration is correct.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	Serial Number 18.7 / 153 of 1019 <i>18.7 - Mounting</i> <i>18.7.1 : HV</i> <i>18.7.2 : IV</i> <i>18.7.3 : Neutral</i>	HV: Oil to Air Termination IV: : Oil to Air Termination TV: Oil to Air Termination HVN : Oil to Air Oil communicating type Porcelain Bushing. If any change kindly confirm the exact requirement.	
134.	Section IV: Bid Submission Forms Lot 1- Technical Data Schedule 1.1 Single-Phase Auto Transformer Serial Number 24 / 153 of 1019 <i>'Note: In case of parallel operation with existing transformer, the impedance, OLTC connection, and range and the winding configuration (if necessary) is to be matched.</i>	'Offered transformer can be run in parallel with identical transformer only. In case of parallel with existing transformer, details of Percentage Impedance and its pattern (i.e., Constant Ohmic type or Constant percentage type), winding arrangement, is required to check feasibility of parallel operation. Request to provide the same.	Actually, there are no “existing transformers” of given voltage ratio. Transformers supplied under this Contract will be the first ones. And the offered transformers should be able to run in parallel.
135.	Section IV: Bid Submission Forms Lot 1- Technical Data Schedule 1.1 Single-Phase Auto Transformer Serial Number 25 / 153 of 1019 <i>'Online dissolved gas and moisture monitoring device (DGA Monitoring): GE-HYDRAN M2 or equivalent</i>	'Kindly specify the exact requirement whether required GE-HYDRAN M2 or as per CHAPTER 3: AUTOTRANSFORMER SPECIFICATION clause 3.14.	Kindly adhere to the requirements stated in Clause 3.14 of Chapter 3 Auto Transformer. The ambiguity in the bidding document will be corrected through issuing an Addendum to the Bidding Document, after receiving approval from authority.
136.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 1.1 / 277 of 841 (220913_Lot1_RAT_TS) <i>'d. The autotransformers shall in general have constant ohmic impedance between HV and IV on all taps. In the case of parallel operation with multiple autotransformers the following shall</i>	'Offered transformer can be run in parallel with identical transformer only. In case of parallel with existing transformer, details of Percentage Impedance and its pattern (i.e., Constant Ohmic type or Constant percentage type), winding arrangement, is required to check feasibility of parallel operation. Request to provide the same.	Actually, there are no “existing transformers” of given voltage ratio. The transformers supplied under this Contract will be the first ones. And the offered transformers should be able to run in parallel.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>apply:</i>		
137.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 1.1, 278 of 841 (220913_Lot1_RAT_TS) <i>'g. Autotransformers shall also be fitted with a sufficient number of GIS enabled impact recorders during transportation to measure the movement due to impact in all three directions.</i></p>	The bidder request M/s MCA to specify the exact requirement as same is not clear.	Autotransformers shall be fitted with sufficient number of GPS enabled impact recorders during the transportation to record/measure movement of any internal parts e.g. core coil assembly etc. from possible impact in all three (length wise, width wise or height wise) directions
138.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 2.1, 281 of 841 (220913_Lot1_RAT_TS) <i>'c. The autotransformers and accessories shall be rated to carry, without danger, on the extreme minus tap 120% of the rated transformer current</i></p>	The bidder would like to inform us that required tap is overload condition, hence same shall be as per IEC 60076-7. Please accept and confirm.	Agreed.
139.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 2.1, 281 of 841 (220913_Lot1_RAT_TS) <i>'d. The auto transformers shall be capable of being operated, without danger, on any tap at the rated MVA with voltage variation $\pm 10\%$ corresponding to the rated voltage of the tap.</i></p>	'Voltage variation shall be $\pm 10\%$ with respect to normal voltage tap i.e. at 400 kV. At Maximum Tap i.e. $(400 \times 1.1) = 440$ kV, further voltage variation of $+10\%$ will be $440 \times 1.1 = 484$ kV. Hence, voltage variation with respect to rated voltage will be $484/400 = 121\%$. which we presume not the requirement as per this clause. Rated MVA at minimum tap position (360 kV) with -10% voltage i.e. transformer operating at 315 MVA @324 kV	Your understanding of loading beyond nameplate rating as per IEC 60076-7 is correct.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		voltage is overloading condition. Any loading beyond name plate rating shall be considered as per IEC 60076- 7. Kindly Confirm their understanding is correct.	
140.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 2.1, 281 of 841 (220913_Lot1_RAT_TS) <i>'h. The autotransformers shall be capable of being loaded in accordance with IEC-354.</i></p>	The bidder would like to inform us that mentioned IEC-60345 is withdrawn and replaced by IEC 60076-7. Please accept and amend.	Accepted.
141.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 2.1, 282 of 841 (220913_Lot1_RAT_TS) <i>'k. Autotransformers shall withstand, without injurious heating, combined voltage and frequency fluctuations which produce the following over fluxing conditions:</i> <i>i. 125% for 1 minute</i> <i>ii. 140% for 5 seconds</i> <i>iii. Contractor shall indicate 150% and 170% over voltage withstand time</i></p>	Find following bidder's observation on over voltage operation i. 110% rated voltage continuous ii. 125% rated voltage for 1 minute iii. 140% rated voltage for 5 seconds iv Not Recommended. Please accept and confirm.	Confirmed.
142.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.1a , 287 of 841 (220913_Lot1_RAT_TS)</p>	The Bidder would like to inform us that bidder's offered transformer shall be conventional / bell type tank. Please accept and confirm.	Kindly adhere to the requirement of the bidding documents.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>'iv. The auto transformers shall be of the bell type tank</i>		
143.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.1.b, 289 of 841 (220913_Lot1_RAT_TS)</p> <p><i>'v. Test bushings for winding leads shall be provided on all bushing and turret shipping blanking plates for SFRA and insulation testing upon arrival at site.</i></p>	' SFRA and insulation testing at site shall be done during erection and commissioning of transformer hence test bushing is not recommended. Please accept and confirm.	Kindly adhere to the requirement of the bidding documents.
144.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.1.c, 289 of 841 (220913_Lot1_RAT_TS)</p> <p><i>'iv. Contractor can supply one set of trolleys in place of wheel assembly rollers for movement of the autotransformer per sub-station for foundation mounted autotransformers.</i></p>	'Trolley shall not be in bidder's scope of supply. Transformer shall be supplied with the rollers. Please accept and confirm.	Kindly adhere to the requirement of the bidding documents.
145.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.1.e (iii), 290 of 841 (220913_Lot1_RAT_TS)</p> <p><i>'f. Contractor shall provide a screen or other means to preserve oil exchange if the bladder fails</i></p>	'Bidder will provide aircell rupture relay to detect the aircell fail condition.	Kindly adhere to the requirement of the bidding documents.
146.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.1.e (v), 291 of 841</p>	'Bidder understand breather minimum required capacity 2.5 kg. Please accept and confirm.	2x 2.5kg is accepted and confirmed.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p>(220913_Lot1_RAT_TS) <i>'g. Two breathers (each of 2.5-liter minimum volume) shall be connected in series for the OLTC tank conservator.</i></p>		
147.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.1.h (ii), 293 of 841 (220913_Lot1_RAT_TS) <i>'b. Any special cable required for shielding purpose, for connection between cooler control cabinet and remote WTI control circuit, shall be in scope of Contractor. Only one remote WTI with a four-point selector switch shall be provided for all the three windings (HV, IV and LV).</i></p>	<p>'Bidder shall provide the interconnecting cable for transformer to Marshalling box, DM box only. Cabling from M. Box to RTCC & CRP panel is not in bidder's scope of supply. Also, no other cabling, accessories, glands, etc. shall be in bidder's scope of supply</p>	<p>This is a tender document for ultimate design and build contract. All that is mentioned by the bidder is in the scope of bidder.</p>
148.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.2, 294 of 841 (220913_Lot1_RAT_TS) <i>'b. The core shall be constructed from high grade, non-ageing, cold rolled, super grain oriented, silicon steel laminations having high permeability and low hysteresis loss. Edges shall be coated for rust control.</i></p>	<p>'Offered core shall be M4(0.27) or better grade. Please accept and confirm.</p>	<p>The specification is clear and must be followed. The proposed core material should be subject to approval by the Engineer at the detailed design stage.</p>
149.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.3 & 3.8.a, 295 & 301 of 841 (220913_Lot1_RAT_TS)</p>	<p>There is Ambiguity in specification kindly confirm the exact requirement. 1) Top oil temperature rise. 2) Winding temperature rise. 3) Winding hotspot temperature rise</p>	<p>Winding temperature rise by resistance shall not exceed 55° C and hottest spot winding temperature rise shall not exceed</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>'3.3. WINDINGS'</i> <i>b. All autotransformer windings shall be designed and wound with maximum short circuit strength as a primary design criterion. All windings shall be furnished with insulation that will permit continuous operation at a winding rise of 55°C above ambient and a hotspot rise of 90°C above ambient without affecting the normal life expectancy of insulation.</i></p> <p><i>3.8. COOLING EQUIPMENT</i> <i>ii. Winding temperature rise by resistance shall not exceed 65°C and hottest spot winding temperature rise shall not exceed 80°C for the full range of transformer operation.</i></p>		<p>90° C for the full range of transformer operation.</p> <p>MCA-Nepal will issue an addendum to the bidding document to correct the ambiguity after approval from authority</p>
150.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.3, 295 of 841 (220913_Lot1_RAT_TS) <i>'f. The winding resistance shall not vary from phase to phase by more than 1%.</i></p>	<p>'The bidder confirm the following incase of 400 kV and 220 kV winding, however generally in-case of low voltage winding (33 kV Tertiary) winding phase to phase variation can approx. 2%. Please accept and confirm.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>
151.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.3, 295 of 841 (220913_Lot1_RAT_TS) <i>'l. A purity test of copper shall be conducted on a sample of copper for assessing its quality from two independent NABL accredited laboratories</i></p>	<p>'Bought out TC shall be provided in line with bidder's quality plan if applicable. Please accept and confirm.</p>	<p>Confirmed as long as the test certificate conforms to the requirements of the specifications (i.e. two NABL accredited labs).</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
152.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.3, 295 of 841 (220913_Lot1_RAT_TS) <i>'n. All test, tertiary, or stabilizing windings must be included on the drawings and shall include an appropriately sized CT.</i></p>	Requirement not clear, kindly elaborate.	The specifications are clear and adhere to the requirement of the specifications.
153.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.5.a, 299 of 841 (220913_Lot1_RAT_TS) <i>'TERMINAL ARRANGEMENT</i> <i>iv. Bushings rated for 420 kV, 245 kV, and 52 kV shall be of the oil filled condenser type. Mounting dimensions of 420kV, 245 kV and 52 kV bushings shall be per IEC.</i></p>	<p>'Requirement of termination is not clear. However, bidder have considered the termination as mentioned below. HV: Oil to Air Termination IV: : Oil to Air Termination TV: Oil to Air Termination HVN: Oil to Air Oil communicating type Porcelain Bushing. If any change kindly confirm the exact requirement.</p>	Your consideration is correct.
154.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.5.a, 300 of 841 (220913_Lot1_RAT_TS) <i>'vii. Bushings of identical ratings shall be interchangeable.</i></p>	Bushings of identical ratings shall be interchangeable within the transformer supplied by bidders.	Correct
155.	Not used.		
156.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.5, 300 of 841</p>	<p>'Requirement of termination is not clear. However, we have considered the termination as mentioned below. HV: Oil to Air Termination</p>	Your consideration is correct.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p>(220913_Lot1_RAT_TS) <i>'b. The transformer terminals shall be designed to connect to GIS to air bushings using open air flexible conductors and standard terminal pads.</i></p>	<p>IV: : Oil to Air Termination TV: Oil to Air Termination HVN: Oil to Air Oil communicating type Porcelain Bushing. If any change kindly confirm the exact requirement.</p>	
157.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.7, 300 of 841 (220913_Lot1_RAT_TS) <i>'a. The neutral terminal of autotransformers shall be brought to the ground level by a brass/tinned copper ground bar, supported from the tank by using porcelain insulators. The end of the brass/tinned copper bar shall be brought to a convenient point, for making bolted connections to two (2) 72x12 mm galvanized steel flat pads connected to the station earthing mat. Provision shall be made for protection against GIC induced currents, such as DC CT on the neutral on other appropriate method.</i></p>	<p>'Requirement is not clear. Kindly specify the exact requirement.</p>	<p>Requirement is clear. The Engineer will define with the Contractor the characteristics of GIC protection at the design review stage.</p>
158.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.8, 302 of 841 (220913_Lot1_RAT_TS) <i>d. Valves</i> <i>i. All valves shall be stainless steel ball valves where possible unless specified otherwise and shall be of leakage class</i></p>	<p>'Requirement of valves are not clearly specified in specification. However, bidder solution is as below: - Valves shall be of forged carbon steel upto 50 mm size and of gun metal or of cast iron bodies with brass fittings for sizes above 50 mm. - Radiator valves, Top & bottom cooler isolating valves are of Butterfly type.</p>	<p>The detailed requirement of valve will be finalized during the detailed design subject to approval by the Engineer.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>III or better. They shall be of full way type with internal screw and shall open when turned counterclockwise when facing the hand wheel.</i>	- Drain Valve, Top & bottom filter valve, Cooler pipe drain valves, vacuum pulling valve are of Gate type valves. - All other valves are of globe type. Kindly accept.	
159.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.9, 310 of 841 (220913_Lot1_RAT_TS) <i>'i. There shall be no variances inserted in the tap changer to limit the surge voltage across any of the contacts. The regulating winding shall be designed to withstand the transient voltage appearing during lightning and switching surges.</i>	MOV (Metal oxide varistor) shall be provided across the regulating winding. Kindly accept.	Contractor to abide by the requirements without exception
160.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.13, 314 of 841 (220913_Lot1_RAT_TS) <i>'3.13. PAINTING</i>	'Detailed painting procedure shall be as per bidder's standard practice. Please accept and confirm.	The painting procedure should be as per the technical specifications followed by the manufacturer standard practice.
161.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 4.1.a, 317 of 841 (220913_Lot1_RAT_TS) <i>'iv. Pressure relief devices with alarm/trip contacts</i>	'Pressure relief devices is with trip contacts	Kindly adhere to the requirements of the bidding document.
162.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 4.1.a, 317 of 841	Trolley shall not be in bidder's scope of supply. Transformer shall be supplied with the rollers.	Kindly adhere to the requirements of the bidding documents.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p>(220913_Lot1_RAT_TS) <i>'xiii. Rating and diagram plates on autotransformers and auxiliary apparatus. Flanged bi-directional wheels/trolley for movement</i></p>		<p>The rollers for transformer are to be provided with flanged bi-directional wheels and axles subject to approval by the Engineer.</p>
163.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, 319 of 841 (220913_Lot1_RAT_TS) <i>'Inspection</i> <i>b. Core</i> <i>x. High voltage test (2 kV for one minute) between core and clamps</i></p>	<p>This is with AC or DC ? Not mentioned. Kindly specify</p>	<p>AC.</p>
164.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, 319 of 841 (220913_Lot1_RAT_TS) <i>'Inspection</i> <i>c. Insulating Material</i> <i>xv. Check for the reaction of hot oil on insulating materials</i></p>	<p>This not applicable as routine test. It is one time test before use of any material.</p>	<p>Contractor will have to produce type testing results on the material, subject to approval by the Engineer</p>
165.	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, 319 of 841 (220913_Lot1_RAT_TS) <i>'Inspection</i> <i>c. Insulating Material</i> <i>xvi. Dimension stability test at high temperature for insulating material xvii.</i></p>	<p>'As per bidder standard practice this is not applicable</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>Tracking resistance test on insulating material</i>		
166.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, 320 of 841 (220913_Lot1_RAT_TS) <i>Inspection</i> <i>d. Winding</i> <i>iii. Sample check on insulating paper for pH value, bursting strength and electric strength</i>	'Bursting strength: Not applicable as per IEC 60641-2. Please accept and confirm.	pH value and electric strength test report to be submitted.
167.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, 320 of 841 (220913_Lot1_RAT_TS) <i>Inspection</i> <i>d. Winding</i> <i>iv. Check for the reaction of hot oil on insulating paper</i>	'This not applicable as routine test. It is one time test before use of any material. Please accept and confirm.	Agreed.
168.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, 320 of 841 (220913_Lot1_RAT_TS) <i>Inspection</i> <i>d. Winding</i> <i>ix. Measurement of voltage ratio to be carried out when core/yoke is completely restacked, and all connections are ready</i>	Not applicable in winding stage, it is applicable in CCA stage. Please accept and confirm.	Agreed. Voltage ratio test can be done only towards the completion of core coil assembly.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
169.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, 320 of 841 (220913_Lot1_RAT_TS) <i>'Inspection</i> <i>e. Checks before drying process</i> <i>iv. Insulation of core shall be tested at 2 kV/minute between core to bolts and</i>	This is with AC or DC? Not mentioned. Kindly specify	AC.
170.	Not used.		
171.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.2, Table 7, 322 of 841 (220913_Lot1_RAT_TS) <i>'10. Short duration induced AC withstand Test (ACSD) with PD measurement</i>	'As per IEC 60076-3 (2018) ACSD test replaced by LTAC for withstand only partial discharge not applicable. LTAC test is Special test as per IEC 60076-3 and should be tested in ONE unit only. However, IVPD test shall be performed for PD measurement as per IEC 60076-3.	Your understanding is correct.
172.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.2, Table 7, 323 of 841 (220913_Lot1_RAT_TS) <i>'20. Tank vacuum test - Routine</i> <i>21. Tank pressure test - Routine</i>	Shall be type test & will be conducted on 1st unit	Kindle adhere to the requirements of the bidding documents i.e. technical specifications.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
173.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.2, Table 7, 323 of 841 (220913_Lot1_RAT_TS) <i>'22. Frequency response analysis (Soft copy of test report in sfra format to be submitted to site along with O & M manual)</i>	Also required at site, shall be excluded.	Tests at site are not excluded – this is turn-key substation contract.
174.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.3, 325 of 841 (220913_Lot1_RAT_TS) <i>'INSPECTION AND TESTING AT SITE</i>	Bidder request to excluded from bidder's scope of work.	Tests at site are not excluded – this is turn-key substation contract
175.	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.4, 328 of 841 (220913_Lot1_RAT_TS) <i>'Warranty - 3 years from the date of operational acceptance</i>	Bidder request us to kindly accept a warranty period for transformers as 36 months from the date of operational acceptance or 42 months from the date of Ex-works dispatch of transformer, whichever is earlier.	Kindly adhere to the requirements of the bidding documents.
176.	Section V: Employer's Requirements B0.2 General Technical Requirements Clause 10.3 & 10.4, page 17 of 53 'TYPE TESTING, INSPECTION, TESTING & INSPECTION CERTIFICATE	It is not possible to do type test on transformer in an STL accredited lab. However, we have NABL accredited lab, and all the types tests have been done in our lab. Kindly accept.	The type test for the transformer can be done in NABL accredited lab also subject to approval by the Engineer after audited by Engineer for compliance at contractor's cost.
177.	Section V: Employer's Requirements B1.1 Project Specific Requirement, 'General	'Bidder understand that the following sites where the transformer shall be installed. Lot1: 7x167 MVA 400/220/33 kV ICT at Ramate site (Altitude 492 m) .	Confirmed.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		Please confirm.	
178.	General <i>Temperature Rise Test</i>	Bidder understanding is temperature rise test is to be conducted between HV-IV at minimum tap which having higher losses.	Your understanding is correct.
179.	General <i>'Spare list</i>	There is an ambiguity in spare list given in BOQ and Technical specification. Kindly confirm which one to follow.	The spare parts have to be supplied as per the Price Schedule and as per the Technical Specifications, as the two documents are complementary. The Bidder shall quote the prices to comply with the Employer's Requirements as well as the Technical Specifications.
180.	Part 2 - Employer_s Requirement / 221123_Lot1_RAT_PSR/2.2.1/ 18 of 69 Part 2: Employer's Requirements Section V – B1 (Project Specific Requirements) Pg 13 <i>The bidders are requested to quote their price considering that the future bays shall not include the feeder Control, Relay & Protection panels but shall include diameter protection, Local Control Panels and, Substation Automation System. The protection of the associated stubs and of the tie breaker shall also be included.</i>	Bidder understands that for optional scope, CB panel has to be considered along with busbar protection only. Kindly confirm.	Kindly adhere to the requirements of Project Specific Requirement.
181.	Part 2 - Employer_s Requirement / 221123_Lot1_RAT_PSR/3.9/ 33 of 69 Part 2: Employer's Requirements Section V – B1 (Project Specific	The bidder understands that Redundant Low Impedance Centralized Busbar Protection of same make for 400 kV is acceptable. Kindly confirm.	The Main 1 and Main 2 busbar protection should be of low impedance differential type. The Main 1 and Main 2 relays should be of different manufacturer or different operating principles.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p>Requirements) Pg 28 <i>The primary protection element for the bus bars shall be low impedance bus differential</i></p>		
182.	<p>Part 2 - Employer_s Requirement/221123_Lot1_RAT_PSR/3.9/ 32 of 69 Part 2: Employer’s Requirements Section V – B1 (Project Specific Requirements) Pg 27 <i>The primary protection element for the Overhead Lines in both Main and Main II protection schemes shall be line current differential with communication between local and remote relays provided by fiber optic communication channels</i></p>	<p>Please confirm the requirement and Scope of remote end Line Differential Relay at LAPSEPHEDI, HETAUDA & NEW DAMAULI 400kV lines.</p>	<p>Kindle adhere to the requirements of the bidding documents.</p>
183.	<p>Part 2 - Employer_s Requirement / 221123_Lot1_RAT_PSR/2.2.1/15 of 69 Part 2: Employer’s Requirements Section V – B1 (Project Specific Requirements) Pg 10 <i>2.1.2 NEW HETAUDA SUBSTATION Each DPC needs to interface with SDH/MUX telecommunication terminal equipment located in the Control Room required for the communication for each 400 kV Lines with the present SAS and SCADA system of the LDC.</i></p>	<p>The Bidder understands that Supply and Installation of Digital Protection Coupler (DPC) for these lines & SDH equipment and associated Power & Control Cables, Fibre optic cables, and accessories for New Hetauda end of Ratmate-New Hetauda 400kV lines are under other Contractor’s scope. Hence the interface with SAS and SCADA system of the LDC at NEW HETAUDA SUBSTATION is not in bidder scope. Kindly confirm their understanding.</p>	<p>Confirmed. But Contractors to ensure the compatibility with the existing system at New Hetauda Substation.</p>
184.	<p>Part 2 - Employer_s Requirement / 221123_Lot1_RAT_PSR/2.2.1/ 16 of 69</p>	<p>The Bidder understands that Supply and Installation of Digital Protection Coupler (DPC) for these lines & SDH equipment and associated Power & Control Cables, Fibre</p>	<p>Confirmed. But Contractors to ensure the compatibility with the existing system at New Lapsiphedi Substation.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p>Part 2: Employer’s Requirements Section V – B1 (Project Specific Requirements) Pg 11 2.1.3 LAPSIPHEDI SUBSTATION • <i>The present scope of this contract shall include supply, delivery, installation, testing and commissioning of necessary approach cable and hardware for termination of OPGW of Ratmate – Lapsiphedhi D/C Lines at Lapsiphedhi Substation telecommunication panels, it's interfacing with existing DPC for tele protection application and supply, delivery, installation, testing and commissioning of necessary SDH, MUX/DMUX telecommunication terminal equipment required for the communication of the said 400 kV Lines and its integration with SAS at both end substations and SCADA system of the LDC.</i></p>	<p>optic cables, and accessories for Lapsiphedhi end of Ratmate- Lapsiphedhi 400kV lines are under other Contractor’s scope. Hence the interface with SAS and SCADA system of the LDC at Lapsiphedhi SUBSTATION is not in bidder scope. Kindly confirm understanding.</p>	
185.	<p>PROJECT SPECIFIC REQUIREMENT (PSR) 400KV RATMATE Substation, Document No: B1.1, Clause: 2.1.1 Scope of Work -Base <i>Ratmate Base Scope of Work : Table of Qty, 220KV Line Bay - 2 Nos</i></p>	<p>In the Base Scope, 220KV Line Bays is shown as 2 Nos. But as per BOQ 220KV line bay is not mentioned. Hence bidder are not considering any Protection for 220KV Line Bays at Ratmate Substation. Kindly confirm.</p>	<p>220 kV line bay is for future line and protection system for such is not required now. Please note that MCA-Nepal is intending to issue an addendum to the bidding document after approval from the authority to exclude the Base Scope of work.</p>
186.	<p>Not used.</p>		

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
187.	<p>"PROJECT SPECIFIC REQUIREMENT (PSR) 400KV RATMATE Substation, Document No: B1.1, Clause: 3.8 /pg 29of69 Part 2: Employer’s Requirements Section V – B1 (Project Specific Requirements) Pg 24 3.8AUTOMATION AND TELECOMMUNICATION SYSTEM <i>The system under the present scope shall be integrated by the Contractor into the existing SAS of Siemens ‘SINAUT Spectrum’ (version 4.3.2) installed at the Master Station (i.e., Nepal Electricity Authority) LDC</i></p>	<p>As the LDC is of Siemens Make, bidder request MCA/NEA to remove the clause as it will be advantage for Siemens. Requesting to considered Integration in NEA Scope only.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>
188.	<p>Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/61 of 841 Chapter 1: 420 kV GIS Technical Specification pg53 12.13.12 (i),(j),(k)</p>	<p>The bidder understands that the LCC shall not have any SCADA I/O module and remote I/O hardware. The signals from LCC shall be integrated into BCU (located in breaker Control panel). Kindly confirm.</p>	<p>This can be finalized during detailed engineering subject to approval by the Engineer.</p>
189.	<p>Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 3.6/ 541of841 Chapter 1: Control and Relay Specification Section 1: Control and Relay Panel Specification Pg 11 3.6. METERING PANEL: Two (2) Power Quality and Energy meters, test terminal blocks, with cut out and wiring; -</p>	<ol style="list-style-type: none"> 1. Please confirm the Accuracy Class of the Meter. 2. Bidder shall provide Meter data on MODBUS Protocol with RS485 Cable. IEC 61850 based meter not considered. Please confirm. 3. Please provide if any specific Make & model of Energy Meter to be considered. Also furinsh us the energy meter specification. 4. Bidder are not considering any Online Metering Software- Please confirm 	<ol style="list-style-type: none"> 1. Revenue accuracy class as per NEA. 2. Meter to be accessible local and remotely. Interface to be coordinated by the Engineer during project execution 3. To be coordinated by the Engineer during project execution 4. Refer to #2 above 5. ABT (Availability based tariff) features to be coordinated by the Engineer at the project execution stage

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>5. ABT features integration with SAS Is not considered in Scope. Other then ABT Features Meter Data shall be made available in Scada System - Please confirm</p> <p>6. Please Provide the Power Quality meter speciification.</p>	<p>6. To be coordinated by Engineer at project execution stage</p>
190.	<p>Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 3.6/ 543of841 Chapter 1: Control and Relay Specification Section 1: Control and Relay Panel Specification Pg 13 <i>3.8. INTERFACE PANEL</i></p>	<p>As bidder are offering Control and Relay panel separately for 400 and 220 kV. All the interface shall be routed through the control panel. Hence, the Interface Panel is not required. Please confirm.</p>	<p>This can be finalized during detailed engineering subject to approval by the Engineer.</p>
191.	<p>Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 3.6/ 552of841 Chapter 1: Control and Relay Specification Section 2: Control and Relay Panel Specification Pg 3 <i>k. At remote end substations, add/modify the metering system to incorporate the feeders involved under this project. If the metering panels found insufficient to accommodate the metering requirements of the new feeders, then separate stand-alone panels shall be provided to meet the project requirements</i></p>	<p>At remote end substation, bidder scope does not include any supply of CRP. In addition to that tender BOQ is not having provision for the same. Hence bidder have not envisaged any metering scope at remote end. Kindly confirm understanding.</p>	<p>The Bidder shall quote the price under the Price Schedule required to carry out Work stated under Employer’s Requirements based on the Conditions of Contract.</p>
192.	<p>Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 3.6/ 552of841 Chapter 1: Control and Relay Specification Section 2: Control and Relay Panel Specification Pg 3</p>	<p>At remote end substation, bidder scope does not include any supply of bay equipment. In addition to that tender BOQ is not having provision for the same. Hence bidder have not envisaged any modification CT’s,</p>	<p>The Bidder shall quote the price under the Price Schedule required to carry out the work stated under Employer’s Requirements based on the Conditions of Contract.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p>I. PROTECTION MODIFICATION AT THE REMOTE ENDS: Any modification needed for the CT's or devices shall be part of this contract. For remote end modifications, any modification needed in the protection panels, control panels/Station HMI shall be fully covered under the bidder's scope of work. The contractor shall ensure that all the needed changes for annunciation & fault recording at the remote end are brought out in line with the ongoing NEA practice to satisfy the latest standards as part of this PR.</p>	<p>equipment or any devices scope at remote end. Kindly confirm understanding.</p>	
193.	<p>Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 3.4/ 540of841 Chapter 10 : Control and Relay Panel Section 1 : Control and Relay Protection Specification Pg 10 3.4. CIRCUIT BREAKER PANEL - Auto-Reclose Scheme</p>	<p>The bidder understands that Auto-Reclose scheme shall be integral part of the Bay Control Unit and will be located in Circuit breaker panel. Please confirm.</p>	<p>The location of auto reclose scheme will be finalized during detailed engineering upon approval by the Engineer.</p>
194.	<p>Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 4.5/ 572of841 Chapter 10 : Control and Relay Panel Section 2 : Control and Relay Protection Specification Pg 23 4.5. RELAY TEST EQUIPMENT <i>a. A relay test kit shall be provided at each substation. The kit shall include:</i> <i>i. 2 test plugs for each type of test terminal blocks</i> <i>ii. 2 test plugs for use with modular type relays if included in the design</i></p>	<p>Bidder understand that relay test kit shall comprise of following only: i. 2 test plugs for each type of test terminal blocks ii. 2 test plugs for use with modular type relays if included in the design. No other equipment to be considered. Kindly confirm.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>iii. Any other test equipment specified by manufacture or as requested by Engineer/Employer.</i>		
195.	Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 7.3/ 627of841 Chapter 11:Substation Automation System (SAS) Specification pg29 7.3. BAY MONITORING <i>c. Each bay monitoring unit should contain an event disturbance recorder capable of storing a minimum of 200 time-tagged events, transient fault, and disturbance records.</i> <i>e. The disturbance report will be saved in the standard COMTRADE format or similar</i>	The bidder would like to inform that disturbance recorder facility shall be available in bay protection IED and not in bay monitoring unit (BCU). Kindly accept.	Accepted. However kindly adhere to the specifications.
196.	Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 2.3/ 533of841 Chapter 10: Control and Relay Specification Section 1: Control and Relay Panel Specification Pg 3 2.3. INTERNAL WIRING, <i>b (ii). Current transformer circuits, other metering circuits control: 6 mm2.</i>	Bidder understand that 4 mm2 for CT Circuits and Metering Circuits is sufficient to cater the requirement and accepted to M/s MCA. Kindly confirm.	Kindly adhere to the requirement of the bidding documents.
197.	Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 1.1/ 550of841 Chapter 10: Control and Relay Specification Section 2: Control and Relay Panel Specification Pg 1	Bidder shall provide Relays which are compatible with IEC61850 and DNP3 Protocol. Kindly accept.	Kindle adhere to the requirements of the bidding documents.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>1.1. GENERAL RELAY REQUIREMENTS Relays shall be numerical or digital type and communication protocol shall comply with IEC 61850 (MMS), 60870-5-104 and/or DNP3 as specified in SCADA section</i></p>		
198.	<p>Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 2.1/ 551of841 Chapter 10: Control and Relay Specification Section 2: Control and Relay Panel Specification Pg 2 <i>2.1. TRANSMISSION LINE PROTECTION</i> <i>d. Relays shall be suitable for CVT connections, with transient response and nonelectronic damping. Relays shall be capable of a minimum of two (2) three phase voltage transformer inputs. These two inputs shall allow the relay to perform sync-checks for two breakers.</i></p>	<p>Bidder understand that for Sync Check Application, one 3 Phase VT and one Ph-Ph/Ph-N VT's Shall be sufficient to perform the sync check function. Hence bidder can consider accordingly. Kindly confirm.</p>	<p>Confirmed subject to approval by the Engineer during detailed Engineering.</p>
199.	<p>Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 6.2/ 615of841 Chapter 11:Substation Automation System (SAS) Specification Pg 17 <i>6.2. Virtualization Architecture</i></p>	<p>As the requirement calls for SAS HMI Client 1& 2, SAS HMI Scada, SAS HMI Historean. Please let bidder know the Sizing Calculation required of VMWare or similar software required in the Virtualization Server.</p>	<p>This will be finalized during detailed design subject to approval by the Engineer. Bidders are requested to submit the proposal accordingly.</p>
200.	<p>Part 2 - Employer_s Requirement/ 220913_Lot1_RAT_TS/ 6.2/ 631of841 Chapter 11:Substation Automation System (SAS) Specification Pg 33</p>	<p>The bidder understands this is Power Quality Analyser Requirement which includes PMU and PQM datas. The bidder understand same is required only for 400kV line bays. Kindly confirm our understanding.</p>	<p>To be coordinated by the Engineer during the project execution stage.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>10. MULTIFUNCTION POWER SYSTEM MONITORING</i> <i>10.1. GENERAL A multifunction IED (IEEE C37.118.1/C37.118.2) for system monitoring will be provided. The IEDs will be accessible from the station engineering workstation installed with the vendor data collection and analysis software.</i></p>		
201.	<p>CHAPTER 10: CONTROL AND RELAY SPECIFICATION 1.1. GENERAL RELAY REQUIREMENTS: <i>d. Relays shall be numerical or digital type and communication protocol shall comply with IEC 61850 (MMS), 60870-5-104 and/or DNP3 as specified in SCADA section.</i></p>	<p>The bidder Understand as per the SCADA System Architecture we need to considered all Numerical Relays and BCU to Communicate on IEC61850 PRP Protocol</p>	<p>Kindly adhere to the requirements of the bidding document.</p>
202.	<p>CHAPTER 10: CONTROL AND RELAY SPECIFICATION 6. SPARE PARTS</p>	<p>The bidder shall consider the Spare Parts mentioned in the Technical Specification as per the referred clause for all the 3 Substation in line with our offered scope</p>	<p>Kindly adhere to the requirements of the bidding document.</p>
203.	<p>CHAPTER 10: CONTROL AND RELAY SPECIFICATION 5.3. TEST EQUIPMENT AND FACILITIES</p>	<p>The bidder understand that all necessary test equipment shall be maintained along with its calibrated report in the Manufacturing Location during FAT. Kindly confirm</p>	<p>Confirmed.</p>
204.	<p>CHAPTER 10: CONTROL AND RELAY SPECIFICATION 3.9. BAY CONTROL UNIT (BCU) <i>The Bay Control unit and the numerical relays supplied under present scope shall be connected to the Ethernet switch. The Ethernet switch shall comply with IEC</i></p>	<p>The bidder are providing data till the gateway of the substation which can report to 4 nos masters. As per PSR document the data shall be integrated with the LDC of NEA which is located at Suichatar, also bidder understands NTAMC System is not available in NEA. Kindly confirm.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>61850-3 requirements. It shall have sufficient number of ports to accommodate all the IEDs of the new bays and at least 6 spare ports for integrating the numerical Relays/BCUs with NTAMC system i.e. redundant Gateways/RTU and redundant SDC and two spare ports. The IP addressing scheme for the devices shall be provided.</i></p>		
205.	<p>Lot1_RAT_DWG <i>Metering panel</i></p>	<p>1. Bidder understand that bidder to provide dedicated metering panel for present scope line bays under base scope. Whereas it is not applicable for optional scope. 2. Bidder propose to combine the meters for line bays to optimize the panel requirement. Also bidder understands the annunciator is not applicable for metering panel as indicated in tender panel GA drgs.</p>	<p>1. The Bidder needs to provide the meeting panel for current bays under the base and optional scope of works. 2. Yes, bidders may propose to combine meters for line bays and the metering panel may not contain annunciators subject to approval by the Engineer.</p>
206.	<p>230324_SS_Bid_Document_for_issuance_Final <i>Lot 1 – Option</i></p>	<p>The bidder understands for 220kV Optional scope, busbar protection shall be single (non redundant) low impedance centralized scheme. Kindly confirm.</p>	<p>The Main 1 and Main 2 busbar protection should be of low impedance differential type. The Main 1 and Main 2 relays should be of different manufacturers or different operating principles.</p>
207.	<p>Not Used</p>		

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
208.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 4 of 52 / 1.1 c), 1.1 d) & 1.1 f)</p> <p><i>c. This scope of works includes the interfacing and extension of the existing telecommunication systems of</i></p> <p><i>i. Lapsiphedi Substation</i></p> <p><i>ii. New Hetauda Substation</i></p> <p><i>d) The Contractor will be responsible to supply and install interface cards of SDH multiplexer plus phone sets in Lapsiphedi and New Hetauda for remote extensions, interface cards of SDH multiplexer and EPABX at LDC, ECC, New Dhalkebar and New Hetauda.</i></p> <p><i>g) New SDH FO communication links, with associated terminal equipment, are required at 400 kV substations in Hetauda, Lapshiphedi and New Damauli to integrate the existing communication</i></p>	<p>The bidder understand scope of work involves supply of new SDH and Multiplexer equipment at Ratmate GIS S/S and augmentation of existing SDH equipment at Lapsiphedi & New Hetauda. In view of the same, please provide following:</p> <p>a) Make & Model of existing SDH cum Multiplexer equipment at Lapsiphedi & New Hetauda</p> <p>b) STM level (STM-1/4/16)</p> <p>c) Slot/optical & Electrical interface cards/ports availability for proposed integration with new SDH at Ratamate GIS S/S in MCA.NEA scope.</p> <p>d) Please confirm modification of configuration in existing SDH Equipments at New Hetauda & Lapsiphedi will be done by Purchaser.</p> <p>e) Please confirm new SDH Equipments can be proposed at New Hetauda & Lapsiphedi in-lieu of integration/interfacing requirement of new proposed SDH equipment at Ratamate S/S with existing SDH equipment at New Hetauda & Lapsiphedi S/S . Please confirm</p>	<p>The contractor shall make sufficient provision to interface the existing SDH equipment. After award, MCA-Nepal will do the necessary coordination with the successful contractor to retrieve the details.</p> <p>a. STM 16 upgradable to 64 as per the requirements</p> <p>b. It is the responsibility of the contractor.</p> <p>c. It is the responsibility of the contractor.</p> <p>d. Refer to the requirements with interfacing at existing New Hetauda & Lapsiphedi SDH equipment and new SDH equipment at Ratmate.</p> <p>e. This will be finalized during detailed Engineering subject to approval by the Engineer.</p>
209.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 4 of 52/ 1.1 g).iv)</p> <p><i>iv. The fiber optic communication used for protection purpose between the Relays at the two ends of the circuit shall be as per the requirement.</i></p>	<p>1. Please confirm requirement under this project is Digital Protection Coupler is for Distance Protection only & no differential Protection interface are to be proposed with offered D&I Mux equipment.</p> <p>2. Please confirm DPC qty & same is to be offered distance protection for following</p>	<p>1. Confirmed.</p> <p>2. Confirmed</p> <p>3. The Contractor is responsible to provide a complete and functional solution consistent with protection schemes and</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>lines: Ratamate- New Hetauda 400kV D/C - 8 Nos. (4 at each end) Ratamate- Lapsiphedhi 400kV D/C - 8 Nos. (4 at each end).</p> <p>3. Please provide specification of Digital protection coupler. Whether NEA specification of DPC i.e 4 command , E1 , 48 V DC operated , Command voltage upto 220VDC to be followed or additional IEC61850 ed.2 gose messaging support to be available in offered Digital Protection coupler equipment. Please confirm.</p>	meet NEA requirements for purpose of compatibility.
210.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 5 of 52/ 1.1 i) <i>i. Digital type measuring equipment shall comply with ITU-T (CCITT) Recommendation O.151.</i></p>	Please confirm whether Digital Type Measuring equipment's are to be supplied. If yes provide detailed specification & quantities of Measuring equipment so that all bidders will be on same platform.	Bidders to propose measuring and testing equipment compliant with the requirements. Refer to the Price Schedule.
211.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 6 of 52 / 1.2. i) / TELECOMMUNICATION INTERFACE REQUIREMENT <i>i. Testing tools for STM1,4, 16& 64 shall be supplied.</i></p>	Please confirm whether Testing Tools for STM-1,4, 16 & 64 are to be supplied. If yes provide detailed specification & quantities of Measuring equipment so that all bidders will be on same platform.	Bidders to propose metering and testing equipment. Refer to the Price Schedule.
212.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 7 of 52 / 2. c) / FIBER OPTIC PATCH CABLES <i>c. Contractor to provide new RFTU to integrate to existing NEA EXFO NQMS Fiber Remote Fiber Testing System. The new RFTS requirement shall be equal with existing RFTUM.</i></p>	Please confirm requirement of new RFTU for integration to existing NEA EXFO Fiber Remote Fiber Testing System. Whether supply of the same in scope or not ? Please provide detailed specification & quantity for this requirement.	To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
213.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 7 of 52 / 2.1.b to e) / GENERAL NETWORK CHARACTERISTICS</p> <p><i>b. The SDH node shall be used for interconnection of terminal Substation to the fibre optic network and shall be based on the Synchronous Digital Hierarchy(SDH) having bit rate of STM-4/16 as specified in price schedule.</i></p> <p><i>c. New Generation SDH STM-16 (Upgradeable to STM-64) Add/Drop Multiplexers (ADM)/ Equipment shall be provided and installed by CONTRACTOR at all sites to establish the fiber optics links specified in the SOW/TS. Specific system requirement of the New Generation SDH STM-16 Add/Drop Multiplexer equipment.</i></p> <p><i>d. CONTRACTOR shall provide and install STM-16 Optical Interface cards/modules with single STM- 16 TX and RX optical ports in each card/module.</i></p> <p><i>e. The SDH node will be upgradeable to STM-64.</i></p>	<p>1. Requirement of SDH Equipment not clear , please confirm whether SDH Equipment requirement is for STM-1/4/16</p> <p>2. Upgradability to STM-64 is not understood and NEA requirement currently is for STM-4/16 or MPLS-TP 1G/10G interfaces (~STM-64). In case offered equipment chassis supports MPLS-TP 1G or 10 G (equivalent to STM-64) & same can be upgraded in future with MPLSTP interface cards, will it be acceptable to MCA. Please confirm</p> <p>3. SDH Technology is getting obsolete & only few selected manufacturers in Power Utility domain manufactures SDH equipments which supports STM-64 upgradability. Most of Utilities including NEA are transitioning for existing SDH installed base to MPLS-TP. Hence we request MCA to either limit the requirement to STM-1/4/16 which is used in NEA network in existing & ongoing requirements or in case much more capacity requirement please consider Hybrid MPLS-TP equipment which supports MPLS-TP/SDH/PDH with 1 G or 10G interfaces additionally it can provide STM-1/4/16 interfaces for interfacing with existing SDH equipment.</p>	<p>1. As per Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, new generation SDH STM -16 (Upgradeable to STM-64) needs to be proposed as per the Employer's Requirement.</p> <p>2. To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.</p> <p>3. To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.</p>
214.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 8 of 52 / 2.1.j) / GENERAL NETWORK CHARACTERISTICS</p>	<p>Requirement is not clear. Is it requirement of 13 Nos. D&I Mux at Ratamate S/S or same is mentioned by mistake.</p>	<p>It should be cards with 16 E1 channels as specified in the Technical Data Schedules.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>j. Provide, install, test and commission (13 Nos.) thirteen sets of data/voice Multiplexer (Drop/Insert Operation). The Data/Voice Multiplexer equipment design shall be provided with 2 x 2.048Mbit/s aggregate ports, redundant power supply cards and redundant cross connect matrix cards (and/or E1 cards). Analog Voice and Data Interface cards shall be provided.</i></p>	<p>Please provide detailed requirement for this point or else delete this clause.</p>	
215.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 9 of 52 / 2.1 q) / GENERAL NETWORK CHARACTERISTICS <i>The offered transmission equipment (SDH node) shall support an optical link of at least 375 km for STM-4 and 400 km for STM-16 without any repeater station in between. If required, a wavelength translator/optical amplifier shall be provided by the contractor.</i></p>	<p>Please confirm type of optical interfaces proposed under this project for optical links to be proposed under this project i.e. STM-4 or STM-16.</p>	<p>As per Section V, B1.2, Chapter 12: Telecommunications Specification, new generation SDH STM -16 (Upgradable to STM-64) needs to be proposed as per the Employer's Requirement.</p>
216.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 9 of 52 / 2.2.b) & c) / TRANSMISSION EQUIPMENT <i>b. SDH node will be STM-16 with five (5) MSP protected directions.</i> <i>c. Two (2) STM-16 (2.5Gbps) Aggregate optical fiber Interface cards operating in 1+1 protected configuration (4Fiber 1+1 MSP) directions towards remote substations each.</i></p>	<p>1. Bidder understands equipment to be proposed is STM- 16,5 MSP & only 2 directions out of 5 protected directions should be equipped. Please confirm the bidders' understanding. 2. SDH Technology is getting obsolete & only few selected manufacturers in Power Utility domain manufactures SDH equipments. Most of Utilities including NEA are transitioning for existing SDH installed base to MPLS-TP. Please change</p>	<p>1. Confirmed 2. To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment. 3. To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>requirement to MPLSTP Hybrid 1G , 5 Protected directions.</p> <p>3. In case bidder offers equivalent MPLS-TP 1G 5 Protected directions will it be acceptable. Please confirm.</p>	
217.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 10 of 52 / 2.2.i)/ TRANSMISSION EQUIPMENT NETWORK MONITORING (CRAFT TERMINAL BASED)</p> <p><i>The New Generation SDH STM-16/4/1/2M Add/Drop Multiplexer equipment shall fully operate with the existing and/or new Telecommunication Network Management Systems.</i></p> <p><i>i. The craft terminal for telecommunications equipment will be part of the engineering workstations.</i></p> <p><i>iv. Provide THREE (3) Local Craft Terminals (loaded with original Operating System and Application software) with interface converters and complete accessories (battery pack, Power supply, carrying bag & optical mouse) to carry-out all local maintenance, Configuration, provisioning and alarm</i></p> <p><i>v. Provisioning will be in the Local Craft Terminal for integration with a full NMS server</i></p>	<p>1. Please confirm whether new NMS to be supplied for monitoring of offered NG-SDH Equipment at Ratamate S/S or bidder has to supply only 03 Nos. LCT terminals loaded with craft terminal software for maintenance, configuration & provisioning.</p> <p>2. Please confirm Laptops should be workstation based & no laptop to be provided for this requirement.</p> <p>3. In case only Craft terminals to be offered then requirement of integration with full NMS server is not understood. If OEM didn't have existing NMS in NEA/MCA network how to integrate craft terminal as existing NMS is proprietary in nature.</p>	<p>1. Supply shall be as specified in 2.2 j and 2.2.1</p> <p>2. Workstation to be laptop based.</p> <p>3. Refer to #1 above</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
218.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 15 of 52 / 3.4 3.5.ii) / OPTICAL FIBRE TERMINATION AND SPLICING FIBER OPTIC DISTRIBUTION PANELS</p> <p><i>The Contractor shall provide rack/wall mounted Fibre Optic Distribution Panels (FODPs) sized as indicated in the appendices and shall terminate the fibre optic cabling up to the FODPs.</i></p> <p><i>ii. All FODPs will use the same connectors that existing FODPs use at Hetauda, Lapsiphedhi and New Damauli. If information is not available SC connectors are preferred.</i></p>	<p>Please confirm whether 24 F or 48F Fiber Rack mounted /Wall Mounted fiber FODP to be proposed at Ratamate GIS S/S .</p> <p>Please confirm whether existing FODP's at Lapsiphedhi & New Hetauda (existing FO Approach Cable are already terminated) can be used for new link i.e New Hetauda to Ratamate & Ratamate to Lapsiphedhi or new FODP's are to be supplied at Ratamate, New Hetauda & Lapsiphedhi S/S's</p>	<ol style="list-style-type: none"> 1. 48F FODP 2. Contractor to supply new FODP at Lapsiphedhi and New Hetauda
219.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 20 of 52 / 17 of 53 /11 of 68 / 10 , 10.3, 1.3 /Testing TYPE TESTING, INSPECTION, TESTING & INSPECTION CERTIFICATE</p> <p><i>c. All Telecom equipment with all types of cards being supplied will conform to Type Tests as per Sections 10.1 to 10.5. The test reports submitted will be of the tests conducted within the last five (5) years.</i></p> <p><i>d. In case the test reports are older than five (5) years, the Contractor will repeat these tests at no extra cost to the Employer.</i></p>	<p>Please confirm requirement of Type tests for Telecom is 10 years or 5 Years as both Technical specifications, PSR & GTR requirement are conflicting.</p>	<p>5 Years for telecommunication equipment. MCA-Nepal may issue an addendum to this requirement, subject to the approval of the authority.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>10.3 The test reports submitted shall be of the tests conducted within the last 10 (ten) years before the originally scheduled date of bid opening.</i></p> <p><i>1.3 Only type tested equipment shall be used. Type test reports of similar equipment - in terms of mechanical and electrical size/measures, mechanical and electrical technical data, similar model type, and not older than 10 years at bid opening, shall be accepted. Type Test Reports shall be subject to the Engineer's approval. If no type test certificates are available, the relevant type tests shall be performed at the Contractor's expenses.</i></p>		
220.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 33 of 52/ 10.8 / PHASES FOR SITE ACCEPTANCE TESTING</p> <p><i>v. Testing Tools</i></p> <p><i>a. All testing kits for STM1, 4 16 & 64 shall be supplied b. Testing kits for VC12 and VC4 shall be supplied</i></p> <p><i>c. Ethernet testing tools shall be supplied.</i></p> <p><i>d. OTDR and power & Sources shall be supplied.</i></p>	<p>Please confirm whether Testing Tools are to be supplied. If yes provide detailed specification & quantities of Testing tools so that all bidders will be on same platform.</p>	<p>Bidders to propose metering and testing equipment. Refer to the Price Schedule.</p>
221.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 39 of 52 / 2.e) / EQUIPMENT TECHNICAL PARTICULARITIES</p>	<p>The bidder understands EPABX to be supplied wired with required interfaces & it should have 200% spare capacity for future. Please confirm</p>	<p>Confirmed.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>e. The EPABX shall be supplied to provide for the initial requirements as specified in the Technical Data Schedules and 100% spare capacity. It shall also be designed for future expansion (ultimate capacity) equivalent to at least 100 % of the installed capacity. The EPABX shall be flexible and allow for easy growth</i></p>		
222.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 40 of 52 / 2.i) / EQUIPMENT TECHNICAL PARTICULARITIES <i>i. The EPABX will be supplied along with one attendant console and provision for operation with various attendant consoles including their cabling accessories to allow connection to the MDF.</i></p>	<p>Please provide attendant console requirement & expandability requirement for attendant consoles.</p>	<p>Bidder to propose attendant console to be suitable and meet requirements of clause 2.5.4</p>
223.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 40 of 52 / 2.h) / EQUIPMENT TECHNICAL PARTICULARITIES <i>h. Multiconductor interconnection cables (5 meters length minimum) will be fitted at one end to the EPABX by means of a plug-in connector and at the other end to the wall-mounted Main Distribution Frame (MDF) terminals. All PBX circuits shall be terminated to the MDF. All external cables in the EPABX enclosure shall enter through the bottom plate.</i></p>	<p>5 Meter 10 PAIR Jelly filled Telephone cable to be supplied with EPABX for Analog Subscriber/Remote Subscribers.</p>	<p>Bidder to propose a fully functional turnkey installation not limited to 5m.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
224.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 40 of 52 / 2.k) / EQUIPMENT TECHNICAL PARTICULARITIES</p> <p><i>k. The EPABX at Ratmate should be linked (Via SDH fiber optic network) with the other EPABX (installed in other NEA substation) by means of digital trunks (such as E1(2048 kb/s) of 30 voice channels) with (Refer to diagram in #8 Figure):</i></p> <ul style="list-style-type: none"> <i>i. Hetauda ECC passing through New Hetauda substation directly to Hetauda</i> <i>ii. LDC passing through Lapsiphedhi-Bahrabishe-New Khimti Lamosangu-Bhaktapur to ECC</i> <i>iii. New Dhalkebar PBX passing through Lapsiphedhi-Bahrabishe- New Khimti</i> <i>iv. New Hetauda PBX</i> <i>v. The EPABX at Ratmate will be linked to other EPABX of NEA network by means of 4W E/M trunks as defined during initial design.</i> 	<p>Please confirm E1/E&M /FXS interfaces for Remote subscriber & existing EPABX integration will be provided by MCA/NEA. Existing EPABX configuration for integration will be in scope of MCA/NEA . Please confirm.</p>	<p>The entire requirement to fulfill the tasks will be in the scope of the contractor.</p>
225.	<p>Part 2: Employer's Requirements Section V B1 (Technical Specifications) / 46 of 52</p> <p><i>h. The number of telephone sets to be installed is as follow:</i></p> <ul style="list-style-type: none"> <i>i. One digital IP based Attendant console (Ratmate)</i> <i>ii. Two digital IP based Operators phone in each substation control room</i> 	<p>Telephone Cabling in existing S/S's in New Hetauda and New Butwal & at Ratamate office, equipment room , guard room , control building, switchyard room will be in scope of MCA/NEA. Please confirm</p>	<p>The entire requirement to fulfill the tasks will be in the scope of the contractor.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>(Ratmate, New Hetauda and New Butwal)</i></p> <p><i>iii. One digital IP based phone set for each office, each equipment room, conference room and guard room of each substation</i></p> <p><i>iv. Two digital IP based phone sets located conveniently in each of Lapsiphedi and New Hetauda substation control building</i></p> <p><i>v. Three digital IP based phone in each GIS hall of each substation</i></p> <p><i>vi. 10 Outdoor phone sets located strategically in the switchyard near maneuvering points and power transformers of each substation</i></p>		
226.	Not used.		
227.	<p>220913_Lot1_RAT_TS CHAPTER 5: FIRE PROTECTION SYSTEM SPECIFICATION</p> <p>2.3. FIRE FIGHTING WATER TANK</p> <p><i>a. Reinforced cement concrete water tank with two compartments each meeting the requirements set forth in Clause 2.3.11 as a minimum. Typical dimensions for minimum sizing are as follows:</i></p> <p><i>i. Size 9.31 m X 9.31 m and capacity of 317 Cubic Meter shall be constructed.</i></p> <p><i>ii. A sump of size 2.5 m X 2.5 m x 0.5 m deep shall be provided at one corner in each compartment.</i></p> <p><i>&</i></p>	<p>There is a discrepancy between the two referred clauses related to sizing of fire water tank As per Cl. (a). Size of compartment has been designed on the basis of 1(One) hour requirement of fixed fire water suppression system along with 1850 l/min, which is as per TAC requirement for electrical substations with light hazard classification.</p> <p>As per Cl (k), Fire water Tank has been designed on the basis of NFPA 850 to simultaneously supply all Fire Protection and Non-Fire Protection needs for the facility. with the basis of 2 (Two) hour requirement of fire water</p>	<p>The design of water tank shall be carried out as mentioned in the clause k.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>k. The design of water tank shall be carried out as follows:</i></p> <p><i>i. Per relevant British standard codes (B S Codes) or equivalent International Standards.</i></p> <p><i>ii. Tank shall also be designed in accordance with NFPA 850 to simultaneously supply all Fire Protection and Non-Fire Protection needs for the facility. This shall include as a minimum the following:</i></p> <p><i>iii. 2 hour supply for the largest fixed Fire Suppression system demand.</i></p> <p><i>iv. Simultaneous hose stream of not less than 1890 l/min.</i></p>	<p>along with hose stream protection not less than 1890 l/min.</p> <p>Kindly confirm the basis to be considered.</p>	
228.	<p>230324_SS_Bid_Document_for issuance Final Breakdown of Rates and Prices Schedule No. 2. CI No. 2.11.5 Page 675 of 1019</p> <p><i>Clean-agent fire extinguishers</i></p>	<p>Kindly furnish details of rooms to be protected with Clean agent type fire extinguishers.</p>	<p>The contractors are responsible for the design of clean agent fire extinguisher and requested to do an independent analysis to meet the technical specifications. The design will be subject to approval by the Engineer</p>
229.	<p>230324_SS_Bid_Document_for issuance Final Breakdown of Rates and Prices Schedule No. 2. CI No. 2.12 Page 675 of 1019</p> <p><i>HVAC And Ventilation Systems</i></p>	<p>Kindly furnish Technical Specifications of Ventilation system to be considered for 400/220kV GIS hall and Control room building.</p>	<p>The contractors are responsible for the GIS hall and control room to determine the adequate ventilation parameters. The bidders are requested to do an independent analysis to meet the technical specifications. The design will be subject to approval by the Engineer</p>
230.	<p>220913_Lot1_RAT_TS Chapter 19 : Air Conditioning Specification CI No.2</p>	<p>The Bidder understands that bidder may select any combination or any one of the Air Conditioning System for any specific area.</p>	<p>Bidders are requested to follow the technical specifications.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>a. Air conditioning requirement of control room building shall be met using a combination of following types Air Conditioning units as required.</i></p> <p><i>i. Ductable Split unit of 8.5TR.</i></p> <p><i>ii. Cassette type split AC units of 3TR.</i></p> <p><i>High wall type split AC units of 2TR</i></p>	Kindly confirm.	
231.	<p>230324_SS_Bid_Document_for issuance_Final Breakdown of Rates and Prices Schedule No. 4.5 Other Installation Services CI No. 4.5.1.6 Page 748 of 1019</p> <p><i>Clean agent fire extinguishing system</i></p>	Kindly furnish details of rooms to be protected with Clean agent based fire extinguishing system.	The contractors are responsible for the design of clean agent fire extinguisher and requested to do an independent analysis to meet the technical specifications. The design will be subject to approval by the Engineer
232.	<p>B1.1 PROJECT SPECIFIC REQUIREMENT (PSR) 2.1.2 NEW HETAUDA SUBSTATION 2.1.3 LAPSIPHEDI SUBSTATION Page 15,16 of 69 Breakdown of Rates and Prices Schedule No. 2. CI No. 2.21 & 2.22 Page 685 of 1019</p> <p><i>HVAC and Fire Protection system</i></p>	The bidder understands that any work related to HVAC and Fire protection system is not in bidder's scope for referred substation extension work.	HVAC and Fire Protection system is in the current scope of work.
233.	<p>221123_Lot1_RAT_PSR 230324_SS_Bid_Document_for issuance_Final</p> <p><i>Clause no 2: Irrespective of the Base Scope or Option Scope (or part of it) to be selected by the Employer, the scope of work shall include construction of the entire GIS buildings, control buildings, station services, and site preparation</i></p>	From details of clause no 2 regarding Base & Optional scope, we found that Item description of BPS price schedule Lot-1-Base and Lot-2-optional and Sl. No 4.3.1 are same. Since irrespective of base and option scope bidder has to quote and thereby we understand that, BPS line item of Base scope shall supercede any other details. Please confirm.	No. The price schedule for base and options may be treated separately.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>and grading for the full scope of work, as shown on the single line and layout drawings.</i>		
234.	221123_Lot1_RAT_PSR Clause No 3.17.2.1 <i>roads and parking</i>	Kindly confirm the capacity of Parking shaed to be considered in present scope.	The capacity of the parking will be finalized during detailed engineering subject to approval by the Engineer.
235.	221123_Lot1_RAT_PSR Clause No 3.17.2.6.1 <i>TOPOGRAPHIC SURVEY A TOPOGRAPHICAL SURVEY, CONCERNING THE THREE (3) SITES OF THE PROJECT SHALL BE CARRIED OUT BY THE CONTRACTOR.</i>	Kindly confirm that, Contouring and Land development work has been excluded from Bidder's present scope at Lapsiphedi and New Hetauda SS. Please confirm.	Confirmed.
236.	221123_Lot1_RAT_PSR Clause No 3.17.2.7 <i>Site clearance including diversion of existing services, if any</i>	The bidder understands that, necessary statutory approval of existing services shall be made available by MCA to the successful bidder. Please confirm.	Refer 2.2 of GCC.
237.	221123_Lot1_RAT_PSR Clause No 3.17.2.9 <i>Cable Ducts: Where necessary, reinforced concrete trenches and ducts shall be provided.</i>	The bidder understands that, bidder's scope for design and construction of Cable ducts is limited to the present scope as mentioned at present SLD and Layout. Please confirm.	Confirmed. However, the layout will be finalized subject to approval by the Engineer.
238.	221123_Lot1_RAT_PSR Clause No 3.17.2.14 <i>Construction of a rainwater drainage system for the complete substation area, including an adequate discharge system outside of the substation area including also the dewatering of cable channels, as well as a discharge system to the outdoor</i>	Since, no outfall point is mentioned at Tender document, thereby the bidder understands that, suitable outfall point shall be made available by MCA to successful bidder within 20mtrs beyond the proposed substation boundary. Please confirm.	It is responsibility of the contractor to design the suitable outfall and its location subject to approval by the Engineer.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>area, as requested and approved by the Engineer;</i>		
239.	230324_SS_Bid_Document_for issuance_Final 221101_B01_GPD <i>Schedule No. 4.3: Breakdown of Civil Works; Clause no: 4.3.2.1 - Improvements of existing earthen access road to asphalted road up to substation. CLAUSE NO 5: SITE ACCESSIBILITY, PAGE (19 OF 106)</i>	From the BPS line item no 4.3.2.1 and Clause no 5 of '221101_B01_GPD', the bidder understands that bidder's scope of improvement of access road is limited to 0.700km. Please confirm.	Confirmed.
240.	221123_Lot1_RAT_PSR Clause No 3.17.2.14 <i>The Contractors shall avoid using private access roads belonging to individual ground owners for accessing the works. Any damage to their ground shall be repaired so that the owner shall not be dissatisfied.</i>	The bidder understands that, all ROW, statutory clearances for access road and related to substation work shall be facilitated by MCA to successful Bidder. Please confirm.	The statutory approval/clearances are contractors' responsibility and MCA-Nepal will facilitate during the process if required.
241.	230324_SS_Bid_Document_for issuance_Final Annex_B01_11_Road_Assessment_Report Vol_IV_Cost_Estimate 221101_B01_GPD <i>Material basic rate</i>	The bidder understands that, specified rates at various Price schedule available with 'Annex_B01_11_Road_Assessment_Report' are in NPR currency and applicable for access road related work. Please confirm.	The road assessment report is only for the reference for the bidding purpose and it has not any linkage with price schedule. It is responsibility of the bidder to get updated information associated with such report.
242.	230324_SS_Bid_Document_for issuance_Final Annex_B01_11_Road_Assessment_Report Vol_IV_Cost_Estimate 221101_B01_GPD <i>Vol_IV_Cost_Estimate</i>	Line items provided along with the respective price schedule at "VIL_IV_Cost Estimate" and rate estimate will be the basis of priced offer for access road related work of Bidder. Please confirm.	The annexed road access report is only for the reference. Bidders are requested to submit the proposal to complete the scope work as per the Employer's Requirement.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
243.	230324_SS_Bid_Document_for issuance_Final Annex_B01_11_Road_Assessment_Report Vol_IV_Cost_Estimate 221101_B01_GPD Vol_IV_Cost_Estimate	The Bidder understands that, beyond the applicable BPS line items to be envisaged for access related work. If any additional Civil line items apart from cost estimated BOQ line items, required during execution stage shall be payable extra. Please confirm.	Your understanding is not correct. Please note that the purpose of the price schedules is to identify the Bid Price which will be used to determine progress payments. The Bidder shall quote the price under the Price Schedule required to carry out Work stated under Employer's Requirements (including technical specifications) based on the Conditions of Contract.
244.	221123_Lot1_RAT_PSR Clause No 3.21.1 <i>There is no AIS scope of works for Substation Contractor at New Hetauda S/S and Lapsipedi S/S.</i>	From the stated clause no:3.21.1, the bidder understands that any type of Civil work, Gantry, equipment structure work is excluded from bidder's present scope from New Hetauda and Lapsipedi SS. Please confirm.	Confirmed.
245.	221123_Lot1_RAT_PSR Clause No 3.21.1 <i>1. Boundary wall for the entire property. Note the fence for the substation proper is in the scope of Contractor.</i>	From the stated clause no:3.21.1, the bidder understands that, Boundary wall with suitable slope protection work and retaining wall shall be facilitated by MCA to successful Bidder. Please confirm.	The construction of boundary wall for the entire property of the substation is not contractor scope of work but substation footprint as per final layout is under current scope of work.
246.	220913_Lot1_RAT_TS Clause No: 4.7 <i>DISPOSAL OF SURPLUS EARTH</i>	The Bidder understands that, if surplus earth required to be disposed beyond substation area, in that case, encumbrance free disposal area shall be facilitated by MCA.	The disposal area for the surplus earth material is under the current scope of the work. Please refer ESHSMP document annex in the bidding document for further details.
247.	220913_Lot1_RAT_TS; Chapter 9; Section 1; Clause No: 8 <i>Roads</i>	Both RCC and Black top roads has been mentioned at specification. Kindly confirm which type of road shall be planned within the substation.	The road type will be finalized during detailed design subject to approval by the Engineer

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
248.	220913_Lot1_RAT_TS; Chapter 9; Section 1; Clause No: 8 Lot1_RAT_DWG; 02System_Drawing; DET_400_2 <i>Roads</i>	In absence of specification details road cross section, the bidder understands that, cross sectional details provided by “DET_400_2” shall be followed for substation road. Please confirm.	The detailed design of the road will be finalized during detailed engineering subject to approval by the Engineer.
249.	220913_Lot1_RAT_TS; Chapter 9; Section 1; Clause No: 12 Drg No: RTE_400_1 230324_SS_Bid_Document_for issuance_Final; Schedule No 4.1; Clause No:4.1.14.6; 4.3.2.11 <i>Water Supply</i> <i>Water Treatment Facility – Lot -1</i>	Referring Civil work specification in conjunction with Tender Layout” RTE_400_1”, bidder is unable to find the following: 1. Specification of Water treatment Plant. 2. Capacity of water treatment plant. 3. Water Storage tower. 4. Capacity of water storage tank Kindly provide detailed specification of the both for tender stage estimation	The design and development of the Water Treatment Plant, capacity of water treatment plant, water storage tower, capacity of storage tower is in the present scope of works. The same shall be finalized during detailed engineering subject to approval of Engineer.
250.	220913_Lot1_RAT_TS; Chapter 9; Section 1; Clause No: 8 Lot1_RAT_DWG; 02System_Drawing; RTE_110_1_Rev_2 <i>CONTROL ROOM BUILDING</i>	Referring tender drawing “RTE_400_1”, we can able to find requirement of two buildings: 1. Control room Building – 50m x 25m. 2. Another room – 15m x 14m adjacent to the GIS building (RTE_300_1_Rev_1) Since, separate C&R Panel room shall be provided along with the length of proposed GIS building thereby, the bidder understands that, room (15m x 14m) adjacent to the GIS building is not required. Please confirm.	The dimensions of the building shall be decided by the bidder depending upon requirement with approval by the Engineer. Provision for extension of the building in the future shall be made. The Bidders are requested to follow the technical specifications for further details.