



### CLARIFICATION #4.3

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: 3 August 2023**

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
501.	<p><b>Lot 3</b> <b>Section IV: Schedule of Payments/Plant and Materials</b> <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 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>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. The Letter of credit will not be established by the contract date. It will be subsequent to the contract date as per the deliverables mentioned in the contract.</p> <p>There is no relation between Contract effectiveness and opening of Letter of Credit.</p>

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502.	<p><b>Lot 3</b>  <b>Section IV: Schedule of Payments/</b>  <i>In respect of Plant and Materials supplied from abroad,</i>  <i>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 &amp; SLD) within 6-8 Weeks from effective date of contract through Irrevocable Letter of Credit (LC).</p>	<p>The Bidding Document provision will not be amended.</p> <p>The Payment schedule for the design services as per schedule 1 of the price schedule will be made separately apart from the schedule of plant and materials (schedule 2 and schedule 3).</p> <p>For better understanding please refer to the <b>schedule of payments</b> in the bidding document.</p>
503.	<p><b>Lot 3</b>  <b>Section IV: Advance Payment / Cl. No. 14.2 (a) &amp; 14.2 (b)</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 Accepted Contract Amount has been certified for payment.</i></p>	<p>The Bidder request advance payment adjustment shall be on pro rata basis from all progress Invoices. Please accept.</p>	<p>The request is not accepted. Repayment of advance payment will be based on contractual terms.</p>
504.	<p><b>Lot 3</b>  <b>Section IV: Schedule of Payments (Plant and Materials)</b>  <i>(c) Ten (10) percent of DDP-Work Site in Nepal Price (as per Schedule 2) for Plant and</i></p>	<p>The Bidder request the last ten percent (10%) payment shall be released against two milestones as mentioned below :  a) Five Percent (5%) of the component for Plant and Materials from abroad shall be paid through Letter</p>	<p>There will be no amendment to the Bidding Document. It will be based on contractual terms.</p>

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	<i>Material upon Take Over of the Works and Services</i>	of Credit (LC) after successful commissioning of complete substation. 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	
505.	<p><b>Lot 3</b>  <b>Section IV: Schedule of Payments (Plant and Materials)</b>  <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>	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.	There is no provision of payment against performance bank guarantee. The timing of release of this payment is not post Defects Notification Period but upon Taking Over.
506.	<p><b>Lot 3</b>  <b>Section IV: Issue of Interim Payment Certificate/ Cl. No. 14.6</b>  <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>	Being a substation contact, 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.	There will be no amendment to the Bidding Document. Payments will be as per contractual terms.

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507.	<p><b>Lot 3</b>  <b>Section IV: Schedule of Payments</b>  <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></p> <p><b>Section I: ITB Clause No. 16.1</b>  <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>The Bidder's understanding is correct. Currency of Payment under the Contract is USD, with a provision that if the Bidder requests a percentage of the contract amount 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. <a href="#">(Refer to the Letter of Financial Offer, last paragraph of point 2)</a></p>
508.	<p><b>Lot 3</b>  <b>Section II: BDS Sub clause (ITB 31.2(b) /Bid Data Sheet</b>  <i>The total amount of the Performance Security may be increased to a level not exceeding 20% of the Accepted Contract Amount.</i>  <b>&amp;</b>  <b>Section IV: Cl. No. 4.2/Bid Submission Forms</b>  <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>There is contradiction in % amount of Performance Security in section BDS &amp; 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 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>

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509.	<b>Lot 3</b> <b>Section VIII: Bank Guarantee Contract Forms and Annexes</b> <i>Performance Bank Guarantee</i>	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.	The corporate guarantee is not acceptable.
510.	<b>Lot 3</b> <b>Section VIII: Bank Guarantee Contract Forms and Annexes</b> <i>Bank Guarantee</i>	Bank Guarantee to be issued from any Bank in India is also acceptable. Please confirm.	<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:</p> <p><i>if the .....Guarantee is issued by a financial institution located outside the Employer’s country, the ..... 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.</i></p>

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511.	<p><b>Lot 3</b>  <b>Section IV: Clause 13.8 Adjustment for changes in cost</b>  <i>Adjustment for changes in cost</i></p>	<p>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 &amp; 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.</p>	<p>The provisions in the bidding document related to the price adjustment formula and its variation coefficients will not be modified.</p>
512.	<p><b>Lot 3</b>  <b>Section IV: Bid Submission</b>  <b>Forms B. Financial Offer Forms</b>  <b>Appendix to Letter of Financial Offer</b>  <i>For Auto Transformer</i>  <math>P_n = P_o [a + b C_n/Co + c Mn/Mo] - P_o</math>  <i>a=40% (Fixed)</i>  <i>b=30% (Copper)</i>  <i>c=30% (CRGO)</i></p>	<p>'The price variation formula does not fully cover all the critical raw materials of a transformer. The bidder request us to kindly include Insulation, Oil, Steel &amp; Labour components also in the price variation formula and reduce the fixed component.  The formula can be proposed as below:  <math>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</math>  a= 5% (fixed)  b=30% (Copper)  c=30% (CRGO)  d=4% (Insulation)  e=9% (Oil)  f=12% (Steel)  g=10% (Labour)  All indexes shall be as per IEEMA publication.  Kindly accept.</p>	<p>The provisions in the bidding document related to the price adjustment formula and its variation coefficients will not be modified.</p>

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513.	<p><b>Lot 3</b>  <b>Section VII: Particular Conditions of Contract: Sub-Clause 13.7</b>  <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></p>	<p>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.</p>	<p>Please refer to the Compact Section 2.8 (a) which states “Unless the Parties specifically agree otherwise in writing, the Government will ensure that all MCC Funding is free from the payment or imposition of any existing or future taxes, duties, levies,...” read along with Annex VII – Tax Schedules.</p> <p>All 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 and other taxes mentioned in Schedule VII of the Compact.</p>
514.	<p><b>Lot 3</b>  <b>Section VII: Particular Conditions of Contract: Sub-Clause 21.1</b>  <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></p>	<p>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.</p>	<p>Please refer to the Compact Section 2.8 (a) which states “Unless the Parties specifically agree otherwise in writing, the Government will ensure that all MCC Funding is free from the payment or imposition of any existing or future taxes, duties, levies,...” read along with Annex VII – Tax Schedules.</p> <p>All the Bidders are requested to go through the MCC Compact carefully and understand the different requirements to be eligible for Tax exemptions under Value</p>

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			Added Tax, Custom Duties, Excise Duties, Corporate Income and Withholding Tax and other taxes mentioned in Schedule VII of the Compact
515.	<b>Lot 3</b> <b>Section VII: Particular conditions of the contract/ Sub-Clause 8.1/Commencement of Works/</b> <i>Commencement of Works</i>	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.	The Commencement date shall be as per provision of GCC/PCC 8.1 and the access to site shall be provide as per GCC/PCC 2.1.
516.	<b>Lot 3</b> <b>Section VII: Particular Condition of Contract/ Clause 6.1, Engagement of Staff and Labour</b> <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>	The Bidder understands, following labor laws are not applicable in Nepal- 1. Temporary worker Labour licence not required. 2. Provident Fund (PF) not applicable for temporary workers. 3. Insurance coverage required for labor like WC policy. Please confirm.	The Bidder should carry out their own due diligence and perform their own assessment before submitting their Bid. Law in force governing the Contract is that of the Federal Democratic Republic of Nepal.
517.	<b>Lot 3</b> <b>Section VII: Particular Conditions of Contract/ Sub-Clause 2.1/ Right of Access to the Site</b> <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</i>	The bidder requests to modify the clause as highlighted below (red font to be deleted): 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	The Bidding Document shall not be amended.



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	<i>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>	described in the Appendix to Financial Offer <del>or in a notice from the Engineer</del> , the contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1	
518.	<p><b>Lot 3</b>  <b>Section VII/ Particular Conditions of Contract/ Sub-Clause 20.1/ Contractor’s Claims /</b>  <b>And</b>  <b>Section VII: Particular Conditions of Contract/ Sub-Clause 4.2/Performance Security/</b>  <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 <u>or such other time period to be mutually agreed between the Parties depending upon the complexity of the defect.</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.
519.	<p><b>Lot 3</b>  <b>Section VII: Particular Conditions of Contract/ Sub-Clause 1.7/ Assignment</b>  <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</i></p>	<p>The bidder request to modify the clause as highlighted below (red font to be deleted &amp; blue )::  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</p>	The Bidding Document shall not be amended.

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	<i>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 concurrent with or after the expiration of the Compact.</i>	another person or entity of the Government (or another entity designated by the Government) <del>without</del> with the consent of the Contractor at any time concurrent with the present contract or <del>after the expiration of the Compact.</del>	
520.	<p><b>Lot 3</b>  <b>Section VII : Particular Conditions of Contract/ Sub-Clause 2.1/ Right of Access to the Site</b>  <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><u>The Bidder request to modify the clause as 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 <del>or in a notice from the Engineer</del>, the contractor shall give notice to the Engineer and shall be entitled subject to Sub- Clause 20.1</p>	The Bidding Document shall not be amended.
521.	<p><b>Lot 3</b>  <b>Section-VII: Particular conditions of the contract/Sub-Clause 21.1/ Taxes /</b>  <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</i></p>	<p>As per the said clause, the bidder understand 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>	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. Section 2.8 (a) clearly mentions as follows: Unless the Parties specifically agree otherwise in writing, the Government will

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	<p><i>“tax” and collectively “taxes”) during the effective term of the Compact, including, without limitation:</i></p>		<p>ensure that <i>all MCC Funding is free from the payment or imposition of any existing or future taxes, duties, levies, contributions or other similar charges (but not fees or charges for services that are generally applicable in Nepal, reasonable in amount and imposed on a non-discriminatory basis) (“Taxes”)</i>...</p> <p>All 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 and other taxes mentioned in Schedule VII of the Compact</p>
522.	<p><b>FIDIC 1999 First edition./Clause 4.2 (c)/ Page 12</b>  <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>  failure by the Contractor to remedy a default within 42 days after receiving the Employer's notice requiring the default to be remedied, or <b>such other time period to be mutually agreed between the Parties depending upon the complexity of the defect.</b></p>	<p>The Bidding Document shall not be amended.</p>

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523.	<b>FIDIC 1999 First edition./ Clause 4.2 (d)/Page 12</b> <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>The Bidder request to modify the clause as highlighted below.</p> <p>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>
524.	<b>FIDIC 1999 First edition/ Clause 4.10) /Page 15</b> <i>Site Data</i>	<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></p> <p><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 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. 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</i></p>	<p>The Bidding Document shall not be amended.</p>

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		<p><i>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 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>	

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525.	<p><b>Lot 3</b>  <b>Section VI : General</b>  <b>Condition of Contact</b>  <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 required to purchase their own FIDIC Conditions of Contract for Plant and Design-Build,” First Edition, 1999 and other relevant documents required to prepare their Bid.</p>
526.	<p><b>FIDIC 1999 First edition:</b>  <b>Clause 17.1 [Indemnities];/</b>   <i>Indemnities</i></p>	<p>The Bidder request to modify the clause as highlighted below.  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, <del>of any person</del> 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) <b>of a third party</b>, 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</p>	<p>The Bidding Document shall not be amended.</p>

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		<p>respective agents, or anyone directly or indirectly employed by any of them <b>to the extent (a) and/or(b) above is caused due to the negligence of the Contractor.</b> The Employer shall indemnify and hold harmless the Contractor, the Contractor's Personnel, and their respective agents, against and from all 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]. <b>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.</b></p>	
527.	<p><b>FIDIC 1999 First edition/ Clause 17.6 Limitation of Liability /</b></p> <p><b>Section VII: Sub-Clause 17.6 /Limitation of Liability</b></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</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 request the below changes:</u></p> <p><u>First Para:- Th 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</p>	The Bidding Document shall not be amended.

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	<p><i>Damages]; Sub-Clause 11.2 [Cost of Remedying Defects]; Sub-Clause 15.4 [Payment after Termination]; Sub-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>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-Clause 16.4 [Payment on Termination] and Sub-Clause 17.1 (a) [Indemnities].</p> <p><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], <b>Sub-Clause 17.1 (a)</b> [Indemnities] 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.</p> <p><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>	
528.	<p><b>Lot 3 Section VII: Particular Conditions of Contract / Sub-Clause 11.3/Extension of the Defects Notification Period</b></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] <del>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]</del>, the Contractor's obligations under this Clause shall not apply to any defects or damage</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)
		occurring more than two years after the Defects Notification Period for the Plant and/or Materials would otherwise have expired.	
529.	<b>FIDIC 1999 First edition./Cl. 11.4 / Failure to Remedy Defects/ Page 35</b>	<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), <del>plus financing costs and the cost of dismantling the same, clearing the Site and returning Plant and Materials to the Contractor.</del>	The Bidding Document shall not be amended.
530.	<b>Lot 3</b> <b>Section VII: Particular conditions of the contract /Sub-Clause 18.5/ Requirements for Professional Liability Insurance</b> <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)
531.	<p><b>Lot 3</b>  <b>Section IV: Bid Submission Forms/Cl. No. 18.1(a) / General Requirements for Insurances</b>  <i>Insuring Party shall submit evidence of insurance as well as evidence of payment on or prior to the Commencement Date</i></p>	<p>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.</p>	<p>The Bidding Document shall not be amended.</p>
532.	<p><b>Lot 3</b>  <b>Section IV: Bid Submission Forms/ Cl. No. 18.2(a) / General Requirements for Insurances</b>  <i>Deductibles per occurrence shall not exceed: US\$ 100,000 per occurrence.</i></p>	<p>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.</p>	<p>The Bidding Document shall not be amended.</p>
533.	<p><b>Not Used.</b></p>		
534.	<p><b>Lot 3</b>  <b>CONTRACTUAL CLARIFICATIONS</b>  <i>Order of precedence</i></p>	<p>The Bidder request MCA to confirm the order of precedence of various sections of tender documents.</p>	<p>The Bidders are requested to identify the ambiguity so that it can be corrected.</p>
535.	<p><b>Lot -1 Price Schedule-2/ Item no. 2.6.1.14</b>  <i>Gas Insulated bus (GIB) and required supports for GIB run whole for Line/Feeder Bay Lot all complete</i></p>	<p>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 various bidders, the bidder request</p>	<p>Substations Footprint coordinates along with the tentative layout drawings are available. Nevertheless, 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 Requirements.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>MCA kindly provide the followings details at tender stage enabling all bidders to quote at par:</p> <p>(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.</p> <p>(2) The bidder request to provide AutoCAD layout indicating bushing termination points.</p>	
536.	<p><b>221123_Lot3_NDM_PSR/ 3.1 400KV NEW DAMAULI GIS SUBSTATION / Clause 3.1 K / Page 20 of 64</b></p> <p><b>220913_Lot3_NDM_TS / clause 12.3.21 / Page 41 of section 1 of GIS Specification</b>  <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.</i>  <i>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>	Request to confirm the requirement of PIR for line feeders and its tie feeders.	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, and same shall be applied if required.
537.	<p><b>220913_Lot3_NDM_TS/CHAPTER 1: GIS TECHNICAL SPECIFICATION / Clause no 12.28 / EOT Crane</b>  <b>12.28. ELECTRIC OVERHEAD TRAVELLING CRANE:</b>  <i>One EOT Crane each for 400kV GIS hall and 220kV GIS hall of suitable capacity shall be</i></p>	<p>As 220kV GIS is not applicable for New Butwal Sub Station, The bidder understands EOT crane for 220 KV GIS as mentioned in said clause is not applicable.</p> <p>For 400kV GIS, the bidder would like to inform us that EOT Crane capacity of 5T with Single girder, hook height as per GIS OEM recommendation shall</p>	New Butwal has 220kV AIS Substation and hence EOT Crane is not required in reference to 220kV side. We will issue an addendum to the bidding document to exclude EOT crane suitably.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>provided for erection &amp; maintenance of the largest GIS component/assembly.</i>	be considered, which meets the functional requirement. Kindly accept.	The EOT crane for 400 kV GIS should meet the specifications mentioned in the technical specifications. i.e. the crane for 400kV GIS hall shall have capacity of minimum 10T safe working load and minimum height of crane shall have to be 9.0 meters or as per actual requirement whichever is higher”.
538.	<b>Price Schedule Lot 3 - Base Price Schedule &amp; Option Price Schedule, Lot-3, 1.1 &amp; 220913_Lot3_NDM_TS 101 &amp; 225/302</b> <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.	Kindly adhere to the requirements of the bidding documents.
539.	<b>Price Schedule Lot 3 - Base Price Schedule &amp; Option Price Schedule, Lot-3 - 2.6.1.14, 2.6.2.14 &amp; 220913_Lot3_NDM_TS Page 103,104, 228 &amp; 229/302,</b> <i>Three single phase Gas insulated bus (GIB) with required GIS termination bushing along with supports for GIB run for whole Line/Feeder Bay (Three phase set) - 6 bays / 2 bays</i>	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.	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 the available information /site visit and their expertise.
540.	<b>Price Schedule Lot 3 - Base Price Schedule &amp; Option Price Schedule, Lot-3-2.17.2.2,2.17.2.3 2.17.3.2, 2.17.4.2, 2.17.5.2 pg 148 &amp; 272/302 2.18.5.2 Page 109 &amp; 233/302</b> <i>Mandatory spare parts for 400kV GIS 2.17.2-Circuit breakers,4000A: (for 400kV) Complete sets of main contacts - 1Lot</i>	The Bidder would like to inform us that factory set up tools and tackles are needed to assemble & test the contacts, hence these contacts cannot be assembled at site and not feasible to quote as separate item. However main and arcing contacts are already integral part of complete Circuit Breaker pole assembly of spare item. Similarly, Disconnect Switches, Earthing Switch and High-Speed Earthing contacts are already	The Bidders are requested to comply with the requirements of the Bidding Document.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>Complete sets of arcing contacts - 2Lot 2.17.3-Disconnect Swithces,4000A: (for 400kV) Complete set of contacts - 2Nos</i></p> <p><i>2.17.4-Maintenance Earthing switches: (for 400kV) Complete set of contacts - 2Nos</i></p> <p><i>2.17.5-High speed earthing switches: (for 400kV) Complete set of contacts - 2Nos</i></p>	<p>integral part of respective complete pole. Please confirm.</p>	
541.	<p><b>Price Schedule Lot 3 - Schedule 4.4.2: Breakdown for day work rates: Materials</b></p> <p><i>Price for control point on wave switching Device (CPWSD) to be installed on 400kV Breaker supplied as per schedule 2</i></p>	<p>The Bidder would like to inform us that 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 requirements of the study and price provided in the Schedule 4.4.2 and same shall be applied if required.</p>
542.	<p><b>Price Schedule Lot 3 - Schedule 4.4.2: Breakdown for day work rates: Materials</b></p> <p><i>Price for Pre-Insertion Resistor (PIR) to be installed on 400kV Breaker supplied as per Schedule-2)</i></p>	<p>The bidder would like to inform us that Schedule-2 is for complete bays. Request to clarify the description - whether add on price for one number Circuit Breaker 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 and the same shall be applied if required.</p>
543.	<p><b>221123_Lot3_NDM_PSR, Clause 3.1 k, Page 20 of 64, Clause -3.1 e iii, f iii, g iii, h iii, I iii</b></p> <p><i>three-phase sets of single-phase encapsulated, independent pole, circuit breaker isolating disconnect switches and maintenance</i></p>	<p>Single phase encapsulated independent pole disconnecter switches and Earthing switches with manual and motor driven gang operated mechanisms are proposed by bidder. The Bidder request to accept..</p>	<p>The requirement of the bidding document cannot be changed.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>earthing switches complete with manual and motor-driven operating mechanisms</i>		
544.	<b>Lot 3-3.2 J ii, Page 13</b> <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, the bidder understand busduct with SF6 to air bushing termination for spare auto transformer is not required. Please confirm.	Kindly adhere to the requirements of the bidding documents.
545.	<b>221123_Lot3_NDM_PSR, Clause 3.1 k, Page 20 of 64</b> <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 is completed, which is under the current scope of work.
546.	<b>LAYOUT- NDM_210_1_Rev_5-LAY</b> <i>Three single phase Gas insulated bus (GIB) and required GIS Termination along with supports for GIB .....</i>	Gas insulated bus (GIB) quantities are not indicated in received Price schedule with tender document (BASE & OPTION). Hence, the bidder understand GIB length shall be as per GIS layout drawing (Drg number- NDM_210_1_Rev_5-LAY, NDM_200_1_Rev_7-LAY). Please confirm.	The requirement of GIB cannot be quantified in the Price Schedule as this is a design & build contract, so bidders are requested to offer the price as per the available information /site visit and their expertise

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
547.	<b>Single Line Diagram- NDM_100_1_Rev_7            NDM_100_2_Rev_7            NDM_101_1_Rev_4            NDM_110_2_Rev_2</b> <i>400kV GIS Line/Transformer/BC bay.</i>	As per received single line diagram SLD (Drg number- NDM_100_1_Rev_7, NDM_100_2_Rev_7, NDM_101_1_Rev_4 , NDM_110_2_Rev_2), there are no future bays shown. Hence, the bidder understand space for future dia not to consider. If require space for future bays, please clarify number of future dia enabling to consider space for the same.	Bidders are requested to refer to the clause 2.1.1 and 2.2.1 for number of line and transformer bays and its associated diameter requirements.
548.	<b>Section V-B1 (Technical specification)            Clause Number -8.7.1 Page 17            9.1.12 Page 23</b> <i>o. 3D Model of GIS general arrangement drawings</i>	The Bidder request to M/s MCA to provide 3D models in. iges or .stp format.	MCA-Nepal has already shared all drawings and models available. Please submit the proposal based on the available information and documents.
549.	<b>Section V-B1 (Technical specification)            Clause Number -8.7.1 Page 17            9.1.12 Page 23</b> <i>d. Insulation coordination, transient recovery voltage (TRV), very fast transients (VFT), and electromagnetic transients program studies pricing.            e. Seismic qualification plan and pricing.            Insulation co-ordination study</i>	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. E. Seismic calculation with required note shall be submitted during Engineering in line with approved layouts for this package.	Kindly adhere to the requirements of the bidding documents.
550.	<b>Section V-B1 (Technical specification)            Clause Number -8.7.2 Page 17</b> <i>l. Availability and price of high-voltage test equipment</i>	The bidder understand high-voltage test kit shall be brought to site on returnable basis during commissioning stage. Hence, supply cost not to be consider in this bid. Please confirm.	Confirmed.
551.	<b>Section V-B1 (Technical specification)            Clause Number -9.1.11 Page 22</b> <i>Temperature rises of current carrying parts shall be limited to the values stipulated in IEC</i>	The Bidder understands, Temperature rises of current carrying parts shall be as per latest IEC 62271-1 Table 14. Please confirm.	Your understanding is correct.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>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>		
552.	<p><b>Section V-B1 (Technical specification) Clause Number -9.2.13 Page 24 &amp; Clause 12.2.17 Page 46</b></p> <p><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).</i></p> <p><i>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 transmit gas zone and system alarms to the Employer's Human Machine Interface (HMI) system.</i></p>	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 bidding documents.
553.	<p><b>Section V-B1 (Technical specification) Clause Number -9.3.7 Page 26 2 c) Page 106</b></p> <p><i>System Switching Transient Study - to determine whether the circuit breakers need to be equipped with pre-insertion resistors. 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 Pre-insertion 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, bidder request to confirm this requirement for line bay Circuit Breakers with revise Single Line Diagram during bidding stage enabling to consider.	The exact requirement of the CPWSD or PIR will be finalized only after the transient study which is under the current scope of work, is completed. Bidders are requested to submit their proposals accordingly.



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
554.	<p><b>Section V-B1 (Technical specification)</b>  <b>Clause Number -9.3.6 Page 26</b>  <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>	<p>The bidder would like to inform us that ferro resonance study is required when GIS Circuit Breakers are with double interrupter &amp; 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>
555.	<p><b>Section V-B1 (Technical specification)</b>  <b>Clause Number -11.4 Page 27</b>  <i>Bushing insulation properties - 400kV - 1550kVp.</i></p>	<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>
556.	<p><b>Section V-B1 (Technical specification)</b>  <b>Clause Number -12.2.3 Page 44</b>  <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>	<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. Design subject to approval by the Engineer</p>
557.	<p><b>Section V-B1 (Technical specification)</b>  <b>Clause Number -12.2.4 Page 44</b>  <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-to-air-bushing modules and interface connections for future expansion of the GIS.</i></p>	<p>The bidder would like to inform us that in bidder's offered type tested design, CT secondaries are Air insulated, hence, separate gas compartment is not required / not applicable.</p>	<p>No change in the specifications. 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)
558.	<p><b>Section V-B1 (Technical specification)</b>  <b>Clause Number -12.2.5 Page 52</b>  <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>The bidder would like to inform us that spare auxiliary contacts (4NO+4NC) shall be available for multiplication as required.  Further to above also note, auxiliary contacts are not reversible/adjustable at site due to safety reasons. Hence, not consider. Please accept and confirm.</p>	Confirmed.
559.	<p><b>Section V-B1 (Technical specification)</b>  <b>Clause Number -12.6.9 Page 56</b>  <i>CTs: Shielded cables with a minimum of 6 mm<sup>2</sup> 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>	Kindly adhere to the requirement of bidding document.
560.	<p><b>Section V-B1 (Technical specification)</b>  <b>Clause Number - 12.10.2 &amp; 12.10.3 page 59</b>  <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 removable link to be located inside the GIS enclosure for an indoor GIS.</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>	Confirmed.
561.	<p><b>Section V-B1 (Technical specification)</b>  <b>Clause Number - 12.13.1- &amp; 12.13.2-Page 59</b>  <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></p>	<p>The bidder would like to inform us that in bidders offered GIS, LCC complies latest IEC standard. Please accept</p>	No change in the specifications. Bidders to prove that the requirements of the IEC are equivalent or better than NEMA.
562.	<p><b>Section V-B1 (Technical specification)</b>  <b>Clause Number - 12.13.13 Page 62</b>  <i>Marshaling cabinets may also be required and are acceptable as intermediate</i></p>	<p>Terminal box shall be provided at GIS end. Marshalling box is not provided in GIS. Please accept.</p>	The exact requirement will be finalized in the detailed design subject to approval by Engineer.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>termination locations between the GIS and LCC and LCC and the substation control room..</i>		
563.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number - 12.14.2 Page 62</b> <i>All current transformer secondary wiring in the LCC shall be minimum 6 mm<sup>2</sup> stranded copper and all other wiring except for instrumentation shall be a minimum 2.5 mm<sup>2</sup>.</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.	Kindly adhere to the requirements of the bidding documents.
564.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number - 12.18.1 Page 66</b> <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.
565.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number - 12.24.1 Page 72</b> <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>	Hard copy and soft copy of detailed Operation and maintenance manuals shall be provided to customer during Engineering. Please accept.	Please follow the requirements of the bidding document.
566.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number -page 102</b> <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 bidding document cannot be changed.
567.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number -page 102</b> <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 bidding document cannot be changed.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
568.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number -page 103</b> <i>System X/R (maximum) X/R = TBD (shall be finalized after study report)</i>	The bidder requests to provide the X/R ratio value at bidding stage enabling to consider.	X/R ratio value will be determined during the detailed engineering based on the Contractor's System Studies.
569.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number -page 105</b> <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.
570.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number -page 105 &amp; 106</b> <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.
571.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number -page 106</b> <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.
572.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number -page 107</b> <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.
573.	<b>Section V-B1 (Technical specification)</b> <b>Clause Number -page 107</b> <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.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
574.	<p><b>220913_Lot3_NDM_TS</b>  <b>Chapeter-6 Cl. 2.1. e.i.d.</b>  <i>Conductor size shall be determined by the Contractor based on soil resistivity measurements, soil temperature, load factor, and other parameters to obtain a continuous current rating of 1315A. However, it is anticipated that the conductor size will be as follows:</i>  <i>Copper Conductor - 2000mm<sup>2</sup></i></p>	<p>The bidder understands, 2000 sq.mm. copper conductor shall not be the minimum size of the cable conductor to be considered. Bidder shall determine the size of the cable based as per transformer rating.</p>	<p>Conductor size to be determined by calculation during detailed design. For bidding purposes, 2000 sq. mm should be considered</p>
575.	<p><b>220913_Lot3_NDM_TS Chapeter-8 Cl. 4.0</b>  <b>SPARE PARTS AND MAINTENANCE EQUIPMENT</b></p>	<p>As per received tender documents, Spare Parts and Maintenance Equipment required are mentioned in both Price Schedule and technical specifications (220913_Lot2_NDM_TS).  The bidder understand that bidder has to consider spare parts and maintenance 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 understanding.</p>	<p>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.  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 the Work stated under the Employer's requirements (including technical specifications) based on the Conditions of Contract.</p>
576.	<p><b>220913_Lot3_NDM_TS</b>  <b>Chapeter-17 Cl. 1.0</b>  <b>AAC AND ACSR CONDUCTOR</b></p>	<p>As in received tender specification, technical parameter of AAC and ACSR Conductor are not mentioned, bidder understand bidder can choose any conductor type as per the actual requirement.  Kindly confirm.</p>	<p>Confirmed subject to the approval of proposed size by the Engineer.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
577.	<b>220913_Lot3_NDM_TS Chapter-17 Cl. 3.4 Table 12</b> <i>Technical Parameters of Tubular Bus</i>	As in received tender specification, technical parameter of Tubular Bus is not mentioned, bidder understand bidder can choose the any size of the tubular conductor as per the actual requirement. Kindly confirm.	Confirmed subject to the approval of proposed size by the Engineer.
578.	<b>220913_Lot3_NDM_TS Chapter-18 Cl. 1.4. a</b> <i>The substation earthing system shall be designed to meet 50 kA of fault current with a clearing time of 20 cycles</i>	As in received tender specification, clearing time for earthing design is not mentioned, the bidder understand clearing time shall be maximum 1 second. Please confirm.	Bidder's understanding is correct and hence confirmed.
579.	<b>220913_Lot3_NDM_TS Chapter-19 Cl. 1.0</b> <i>STRING INSULATORS &amp; HARDWARE</i>	As specification do not clarify, the bidder understands that transmission line side insulator along with hardware are not part of substation's contractor scope. Kindly confirm.	Confirmed. The transmission line side insulators with hardware are not part of this contract.
580.	<b>220913_Lot3_NDM_TS</b> <i>Technical specification of Aux. Transformer.</i>	Kindly provide detailed technical specification of Aux. transformer.	Please follow LT Transformer under Chapter 4: LV Switchgear Specification of technical specifications.
581.	<b>220913_Lot3_NDM_TS /CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION / clause 3.14 DISSOLVED GAS AND MOISTURE MONITOR:</b> <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 wishes to inform us that said item for on-line transformer monitoring system is not mentioned in Bid price schedule hence we understand that the same is not in scope and bidder not to consider the same as same is not specified in bid price schedule. Please confirm	The price of the online transformer monitoring system should be included in the proposal suitably to comply with the technical specifications. 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 the 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)
582.	<p><b>Lot 3-Price schedule / Item 2.13.2.1</b>  <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></p>	<p>The bidder request us to kindly furnish the detailed specification for Oil-treatment unit 6000lph.</p>	<p>MCA-Nepal may issue and addendum to the bidding document to include the specifications of the Oil filtration unit subject to approval from the authority.</p>
583.	<p><b>220913_Lot3_NDM_TS / 1. LT TRANSFORMER / Clause 1.7 b &amp; 17.c</b>  <i>The manufacturer shall submit type tests &amp; additional test reports as listed above already carried out on transformers of identical design for Engineer/Employer acceptance.</i>  <i>i. Same voltage ratio, kVA rating, vector group &amp; impedance</i>  <i>In addition to all type and routine tests, transformers shall also conform to the following additional type tests as per IEC 60076.</i>  <i>i. Short circuit test</i>  <i>ii.</i></p>	<p>As per clause 1.7 b, the bidder understand that bidder need to submit valid type test / short circuit report of similar design of the offered transformer for owner acceptance and there is no need for repetition of short circuit test. Please confirm.</p>	<p>Confirmed.</p>
584.	<p><b>CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION / clause 3.14 DISSOLVED GAS AND MOISTURE MONITOR:</b>  <i>a. An on-line transformer monitoring system to continuously monitor dissolved gasses and moisture shall be provided for each autotransformer supplied.</i></p>	<p>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</p>	<p>The price of the online transformer monitoring system should be included in the proposal as per the technical specifications.  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 the 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.
585.	<b>Section IV: Bid Submission Forms</b> <b>Lot 3- Technical Data Schedule</b> <b>1.1 Single-Phase Auto Transformer</b> <b>Serial Number 6, Page 482 of 1019</b> <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.
586.	<b>Section IV: Bid Submission Forms</b> <b>Lot 3- Technical Data Schedule</b> <b>1.1 Three-Phase Auto Transformer</b> <b>Serial Number 12.4.3 &amp; 36, Page 483 &amp; 489 of 1019</b> <i>'Serial Number 12.4.3</i> <i>'Sound Levels: 80 dbA</i> <i>Serial Number 36</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..	Kindly adhere to the requirement of the bidding documents.
587.	<b>Section IV: Bid Submission Forms</b> <b>Lot 3- Technical Data Schedule</b> <b>1.1 Three-Phase Auto Transformer</b> <b>Serial Number 17, Page 486 of 1019</b> <i>'Overload capacity: As per IEC-354.</i>	The bidder would like to inform us that 'IEC-60345 is withdrawn and replaced by IEC 60076-7. Kindly accept	Accepted.
588.	<b>Section IV: Bid Submission Forms</b> <b>Lot 2- Technical Data Schedule</b> <b>1.1 Three-Phase Auto Transformer</b> <b>Serial Number 18, Page 486 of 1019</b> <i>'Bushings</i>	Details of Tertiary bushing not specified, kindly provide the details.	Tertiary Bushings shall have Rated Voltage: 52kV Rated Current: 1250Amp Minimum Total Creepage Distance=1612mm
589.	<b>Section IV: Bid Submission Forms</b> <b>Lot 3- Technical Data Schedule</b> <b>1.1 Three-Phase Auto Transformer</b> <b>Serial Number 18.7, Page 488 of 1019</b> <i>'Mounting</i> <i>18.7.1: HV</i>	'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	Confirmed.



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	18.7.2: IV 18.7.3: Neutral	HVN: Oil to Air Oil communicating type Porcelain Bushing. If any change kindly confirms the exact requirement.	
590.	<b>Section IV: Bid Submission Forms Lot 3- Technical Data Schedule 1.1 Three-Phase Auto Transformer Serial Number 24, Page 488 of 1019</b> <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. The transformers supplied under this Contract will be the first ones and the offered transformers should be able to run in parallel.
591.	<b>Section IV: Bid Submission Forms Lot 2- Technical Data Schedule 1.1 Three-Phase Auto Transformer Serial Number 24, Page 488 of 1019</b> <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: AUTO-TRANSFORMER 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.
592.	<b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 1.1, 167 of 741 (220913_Lot3_NDM_TS)</b> <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 apply:</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.
593.	<b>Section V: Employer's Requirements B1.2 Technical Specifications</b>	'Details of route survey i.e., transport weight /dimension limitations are not available. Kindly provide route survey report or transport dimensions / weight limitations available if any.	Please refer to Annex B01_11_Road assessment survey report for the transportation of bulky equipment. Please

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><b>Chapter 3 Autotransformer Specification</b>  <b>Clause 1.1, Page 167 of 741</b>  <b>(220913_Lot3_NDM_TS)</b>  <i>f. The Contractor shall ship the autotransformer filled with oil or in an atmosphere of nitrogen or dry air to prevent the ingress of moisture during transportation. In the former case the contractor shall comply with the weight limitation on transport to the site and handling facilities at the substation.</i></p>		<p>note that the report was prepared many years back and can be a reference document only and MCA-Nepal will not be liable in case the information in the report does not match with current ground reality. Bidders are expected to conduct their own survey as required.</p>
594.	<p><b>Section V: Employer's Requirements</b>  <b>B1.2 Technical Specifications</b>  <b>Chapter 3 Autotransformer Specification</b>  <b>Clause 1.1, Page 168 of 741</b>  <b>(220913_Lot3_NDM_TS)</b>  <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>	<p>The bidder request M/s MCA to specify the exact requirement as same is not clear.</p>	<p>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. GIS will be changed to GPS through addendum to the bidding document after approval from the authority.</p>
595.	<p><b>Section V: Employer's Requirements</b>  <b>B1.2 Technical Specifications</b>  <b>Chapter 3 Autotransformer Specification</b>  <b>Clause 2.1, Page 171 of 741</b>  <b>(220913_Lot3_NDM_TS)</b>  <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>	<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.</p>	<p>Confirmed. However, it should be noted that Current of all taps should be such that rated power is available at all taps. Therefore, transformer shall be operated at 120% of rated power at all taps.</p>
596.	<p><b>Section V: Employer's Requirements</b>  <b>B1.2 Technical Specifications</b></p>	<p>'Voltage variation shall be <math>\pm 10\%</math> with respect to normal voltage taps i.e., at 400 kV.</p>	<p>Provisions as per IEC 60076-7 are confirmed.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><b>Chapter 3 Autotransformer Specification Clause 2.1, Page 171 of 741 (220913_Lot3_NDM_TS)</b>  <i>d. The auto transformers shall be capable of being operated, without danger, on any tap at the rated MVA with voltage variation <math>\pm 10\%</math> corresponding to the rated voltage of the tap.</i></p>	<p>At Maximum Tap i.e. <math>(400 \times 1.1) = 440</math> kV, further voltage variation of <math>+10\%</math> will be <math>440 \times 1.1 = 484</math> kV. Hence, voltage variation with respect to rated voltage will be <math>484/400 = 121\%</math>. which we presume not the requirement as per this clause.  Rated MVA at minimum tap position (360 kV) with <math>-10\%</math> voltage i.e., transformer operating at 315 MVA @324 kV voltage is overloading condition. Any loading beyond name plate rating shall be considered as per IEC 60076-7.  Please Confirm their understanding is correct.</p>	
597.	<p><b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 2.1, Page 171 of 741 (220913_Lot3_NDM_TS)</b>  <i>'h. The autotransformers shall be capable of being loaded in accordance with IEC-354.</i></p>	<p>The bidder would like to inform us that mentioned IEC-60345 is withdrawn and replaced by IEC 60076-7.  Please accept and amend.</p>	Confirmed.
598.	<p><b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 2.1, Page 169 of 732 (220913_Lot2_NBW_TS)</b>  <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>	<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.</p>	Accepted.
599.	<p><b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification</b></p>	<p>The bidder would like to inform us that bidder's offered transformer shall be conventional / bell type tank. Please accept and confirm.</p>	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><b>Clause 3.1a , Page 172 of 741 (220913_Lot3_NDM_TS)</b>  <i>'iv. The auto transformers shall be of the bell type tank</i></p>		
600. tc	<p><b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.1.b, Page 176 of 741 (220913_Lot3_NDM_TS)</b>  <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>	<p>SFRA and insulation testing at site shall be done during erection and commissioning of transformer hence <b>test bushing is not recommended</b>. Please accept and confirm.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>
601.	<p><b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.1.c, Page 178 of 741 (220913_Lot3_NDM_TS)</b>  <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>	<p>Trolley shall not be in bidder's scope of supply. Transformer shall be supplied with the rollers. Please accept and confirm.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>
602.	<p><b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.1.e (iii), Page 179 of 741 (220913_Lot3_NDM_TS)</b>  <i>'f. Contractor shall provide a screen or other means to preserve oil exchange if the bladder fails</i></p>	<p>Bidder's offered Transformer shall be provided with aircell rapture relay to detect the aircell fail condition.</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)
603.	<p><b>Section V: Employer's Requirements</b>  <b>B1.2 Technical Specifications</b>  <b>Chapter 3 Autotransformer Specification</b>  <b>Clause 3.1.e (v), Page 180 of 741</b>  <b>(220913_Lot3_NDM_TS)</b>  <i>g. Two breathers (each of 2.5-liter minimum volume) shall be connected in series for the OLTC tank conservator.</i></p>	<p>The bidder understands breather minimum required capacity 2.5 kg. Please accept and confirm.</p>	<p>Three breathers (of identical size) shall be connected in series for the main tank conservator.   Two breathers (each of 2.5 liter minimum volume) shall be connected in series for the OLTC tank conservator.</p>
604.	<p><b>Section V: Employer's Requirements</b>  <b>B1.2 Technical Specifications</b>  <b>Chapter 3 Autotransformer Specification</b>  <b>Clause 3.1.h (ii), Page 182 of 741</b>  <b>(220913_Lot3_NDM_TS)</b>  <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>'We shall provide the interconnecting cable for transformer to Marshalling box, DM box only. Cabling from M. Box to RTCC &amp; 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>
605.	<p><b>Section V: Employer's Requirements</b>  <b>B1.2 Technical Specifications</b>  <b>Chapter 3 Autotransformer Specification</b>  <b>Clause 3.2, page 183 of 741</b>  <b>(220913_Lot3_NDM_TS)</b>  <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>
606.	<p><b>Section V: Employer's Requirements</b>  <b>B1.2 Technical Specifications</b>  <b>Chapter 3 Autotransformer Specification</b></p>	<p>There is Ambiguity in specification kindly confirm the exact requirement.  1) Top oil temperature rise.</p>	<p>Winding temperature rise by resistance shall not exceed 55° C and hottest spot</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><b>Clause 3.3 &amp; 3.8.a, page 184 &amp; 190 of 741 (220913_Lot3_NDM_TS)</b>  <b>3.3. WINDINGS'</b>  <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>  <b>3.8. COOLING EQUIPMENT</b>  <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>2) Winding temperature rise.  3) Winding hotspot temperature rise.</p>	<p>winding temperature rise shall not exceed 90° C for the full range of transformer operation.</p> <p>MCA-Nepal may issue an addendum to the bidding document to modify the requirement of temperature rise after approval from authority</p>
607.	<p><b>Section V: Employer's Requirements</b>  <b>B1.2 Technical Specifications</b>  <b>Chapter 3 Autotransformer Specification</b>  <b>Clause 3.3, Page 184 of 741 (220913_Lot3_NDM_TS)</b>  <i>f. The winding resistance shall not vary from phase to phase by more than 1%.</i></p>	<p>'The bidder confirm the following in case 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>
608.	<p><b>Section V: Employer's Requirements</b>  <b>B1.2 Technical Specifications</b>  <b>Chapter 3 Autotransformer Specification</b>  <b>Clause 3.3, Page 184 of 741 (220913_Lot3_NDM_TS)</b>  <i>l. A purity test of copper shall be conducted on a sample of copper for assessing its quality</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 specification (i.e. two NABL accredited labs).</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>from two independent NABL accredited laboratories</i>		
609.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 3.3, page 184 of 741</b> <b>(220913_Lot3_NDM_TS)</b> <i>'n. All test, tertiary, or stabilizing windings must be included on the drawings and shall include an appropriately sized CT.</i>	'Requirement not clear, kindly elaborate.	The specifications are clear. Kindly adhere to the requirements of specifications.
610.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 3.5.a, page 188 of 741</b> <b>(220913_Lot3_NDM_TS)</b> <b>TERMINAL ARRANGEMENT</b> <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>	'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.	Your consideration is correct.
611.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 3.5.a, Page 189 of 741</b> <b>(220913_Lot3_NDM_TS)</b> <i>vii. Bushings of identical ratings shall be interchangeable.</i>	Bushings of identical ratings shall be interchangeable within the transformer supplied by bidders.	Correct.
612.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 3.5.a, Page 189 of 741</b> <b>(220913_Lot3_NDM_TS)</b>	Requirement not clear. Kindly elaborate.	Surge arresters on the tertiary are required. The mounting arrangement is part of the 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)
	<i>xiii. Surge s with brackets shall be mounted in the tertiary compartment of the transformers and connected to the tertiary bushings.</i>		
613.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 3.5, Page 189 of 741</b> <b>(220913_Lot3_NDM_TS)</b> <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>	'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.	Your consideration is correct
614.	<b>Not used.</b>		
615.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 3.8, Page 191 of 741</b> <b>(220913_Lot3_NDM_TS)</b> <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 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>	'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. - 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.	The detailed requirement of valve will be finalized during detailed design subject to approval by the Engineer.
616.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications Chapter 3</b> <b>Autotransformer Specification Clause 3.9,</b> <b>page 199 of 741 (220913_Lot3_NDM_TS)</b> <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</i>	MOV (Metal oxide varistor) shall be provided across the regulating winding. Kindly accept.	Contractor to abide by the requirements without exception.



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>shall be designed to withstand the transient voltage appearing during lightning and switching surges.</i>		
617.	<b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.13, Page 203 of 741 (220913_Lot3_NDM_TS) 3.13. PAINTING</b>	'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's standard practice.
618.	<b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.14, page 204 of 741 (220913_Lot3_NDM_TS) 3.14. DISSOLVED GAS AND MOISTURE MONITOR</b>	'Kindly specify the exact requirement whether required GE-HYDRAN M2 or as per CHAPTER 3: AUTO-TRANSFORMER 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.
619.	<b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 4.1.a, Page 206 of 741 (220913_Lot3_NDM_TS)  iv. Pressure relief devices with alarm/trip contacts</b>	Pressure relief devices is with trip contacts	Kindly adhere to the requirements of the bidding documents.
620.	<b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 4.1.a, page 206 of 741 (220913_Lot3_NDM_TS) 'xiii. Rating and diagram plates on autotransformers and auxiliary apparatus. Flanged bi-directional wheels/trolley for movement</b>	'Trolley shall not be in bidder's scope of supply. Transformer shall be supplied with the rollers.	The rollers are to be provided with flanged bi-directional wheels and axles.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
621.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 5.1, page 208 of 741</b> <b>(220913_Lot3_NDM_TS)</b> <i>Inspection</i> <i>b. Core</i> <i>x. High voltage test (2 kV for one minute) between core and clamps</i>	This is with AC or DC ? Not mentioned. Kindly specify	AC.
622.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 5.1, page 207 of 732</b> <b>(220913_Lot2_NBW_TS)</b> <i>Inspection</i> <i>c. Insulating Material</i> <i>xv. Check for the reaction of hot oil on insulating materials</i>	This not applicable as routine test. It is one time test before use of any material..	Contractor will have to produce type testing results on the material, subject to approval by the Engineer
623.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 5.1, page 208 of 741</b> <b>(220913_Lot3_NDM_TS)</b> <i>Inspection</i> <i>c. Insulating Material</i> <i>xvi. Dimension stability test at high temperature for insulating material</i> <i>xvii. Tracking resistance test on insulating material</i>	As per our standard practice this is not applicable.	The Contractor will have to produce copy of such tests, which shall be approved by the Engineer.
624.	<b>Section V: Employer's Requirements</b>	'Bursting strength: Not applicable as per IEC 60641-2. Please accept and confirm..	pH value and electric strength test report to be submitted .

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<b>B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, page 208 of 741 (220913_Lot3_NDM_TS)</b> <i>Inspection</i> <i>d. Winding</i> <i>iii. Sample check on insulating paper for pH value, bursting strength and electric strength</i>		
625.	<b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, page 208 of 741 (220913_Lot3_NDM_TS)</b> <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.
626.	<b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, Page 209 of 741 (220913_Lot3_NDM_TS)</b> <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.
627.	<b>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, Page 209 of 741 (220913_Lot3_NDM_TS)</b> <i>Inspection</i> <i>e. Checks before drying process</i>	'This is with AC or DC? Not mentioned. Kindly specify	AC.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>iv. Insulation of core shall be tested at 2 kV for one minute between core to bolts and.</i>		
628.	<b>Not used.</b>		
629.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications Chapter 3</b> <b>Autotransformer Specification</b> <b>Clause 5.2, Table 7, page 210 of 732</b> <b>(220913_Lot2_NBW_TS)</b> <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.	Your understanding is correct.
630.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 5.2, Table 7, Page 212 of 741</b> <b>(220913_Lot3_NDM_TS)</b> <i>20. Tank vacuum test - Routine</i> <i>21. Tank pressure test - Routine</i>	Shall be type test & will be conducted on 1st unit	Kindly adhere to the requirements of the bidding documents i.e. technical specifications.
631.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications Chapter 3</b> <b>Autotransformer Specification Clause 5.2,</b> <b>Table 7, page 212 of 741</b> <b>(220913_Lot3_NDM_TS)</b> <i>22. Frequency response analysis (Soft copy of test report in sfra format to be submitted to site along with O &amp; M manual)</i>	'Also required at site, shall be excluded.	SFRA test to be conducted first at Factory and then repeated at site.
632.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications</b> <b>Chapter 3 Autotransformer Specification</b> <b>Clause 5.3, page 214 of 741</b> <b>(220913_Lot3_NDM_TS)</b> <b>INSPECTION AND TESTING AT SITE.</b>	The bidder request to excluded from bidder's scope of work.	Tests at site are not excluded – this is turn-key substation contract

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
633.	<b>Section V: Employer's Requirements</b> <b>B1.2 Technical Specifications Chapter 3</b> <b>Autotransformer Specification Clause 5.4,</b> <b>page 217 of 741 (220913_Lot3_NDM_TS)</b> <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.	The requirement in the bidding document cannot be changed. Note that this is not only the transformer supply contract.
634.	<b>Section V: Employer's Requirements</b> <b>B0.2 General Technical Requirements</b> <b>Clause 10.3 &amp; 10.4, page 17 of 53</b> <i>'TYPE TESTING, INSPECTION, TESTING &amp; INSPECTION CERTIFICATE'</i>	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 the Engineer for compliance at the contractor's cost.
635.	<b>Section V: Employer's Requirements</b> <b>B1.1 Project Specific Requirement,</b> <i>'General'</i>	The bidder understands that the following sites where the transformer shall be installed. Lot2: 2x315 MVA 400/220/33 kV ICT at New Butwal (Altitude 120 m) Please confirm.	Confirmed.
636.	<b>General</b> <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.
637.	<b>General</b> <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 with the Technical Specifications.
638.	<b>Part 2 - Employer's Requirement /</b> <b>221123_Lot3_NDM_PSR/2.2.1/</b> <b>13 of 62</b>	The bidder understand that for optional scope, Circuit Breaker panel has to be considered along with busbar protection only. Kindly confirm.	Kindly adhere to the requirements of the Project Specific Requirements.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><b>Part 2: Employer's Requirements Section V – B1 (Project Specific Requirements) Pg 9</b></p> <p><i>The bidders are requested to quote their price considering that the future bays shall not include the feeder Control, Relay &amp; 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></p>		
639.	<p><b>Part 2 - Employer's Requirement / 221123_Lot3_NDM_PSR /3.8/ 24 of 62</b></p> <p><b>Part 2: Employer's Requirements Section V – B1 (Project Specific Requirements) Pg 20</b></p> <p><i>The primary protection element for the bus bars shall be low impedance bus differential</i></p>	The bidder understand that Redundant Low Impedance Centralized Busbar Protection of same make for 400 kV is acceptable. Kindly confirm	Confirmed.
640.	<p><b>Part 2 - Employer's Requirement / 221123_Lot3_NDM_PSR /3.8/ 23 of 62</b></p> <p><b>Part 2: Employer's Requirements Section V – B1 (Project Specific Requirements) Pg 19</b></p> <p><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>	Please confirm the requirement and Scope of remote end Line Differential Relay at New Butwal & Ratmate 400kV lines.	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)
641.	<p><b>PROJECT SPECIFIC REQUIREMENT (PSR) 400KV RATMATE Substation, document No: B1.1, Clause: 3.8 /pg 21of62 Part 2: Employer’s Requirements Section V – B1 (Project Specific Requirements) Pg 17</b></p> <p><i>3.8AUTOMATION AND TELECOMMUNICATION SYSTEM</i></p> <p><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, we request MCA/NEA to remove the requirement of integration works at LDC, as it will be an advantage for one of the participating bidder. Requesting to consider Integration in Nepal Electricity Authority Scope only.</p>	<p>Kindly adhere to the requirements of the bidding document.</p> <p>This is to clarify that Load Dispatch Centre (LDC) under NEA of Nepal has been currently using certain SCADA System as regards software and hardware components. Bidders are required to integrate their supplied equipment and systems to currently existing system at LDC of NEA</p>
642.	<p><b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /58 of 741 Chapter 1: 420 kV GIS Technical Specification pg51</b></p> <p><i>12.13.12 (i), (j), (k)</i></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>
643.	<p><b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /458 of 741 Chapter 1: Control and Relay Specification Section 1: Control and Relay Panel Specification Pg 11</b></p> <p><i>3.6. METERING PANEL: Two (2) Power Quality and Energy meters, test terminal blocks, with cut out and wiring; -</i></p>	<ol style="list-style-type: none"> <li>1. Please confirm the Accuracy Class of the Meter.</li> <li>2. Bidder shall provide Meter data on MODBUS Protocol with RS485 Cable. IEC 61850 based meter not considered. Please confirm.</li> <li>3. Please provide if any specific Make &amp; model of Energy Meter to be considered. Also furnish us the energy meter specification.</li> <li>4. Bidder are not considering any Online Metering Software - Please confirm</li> <li>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</li> <li>6. Please Provide the Power Quality meter specification.</li> </ol>	<ol style="list-style-type: none"> <li>1. Revenue accuracy class as per NEA.</li> <li>2. Meter to be accessible local and remotely. Interface to be coordinated by the Engineer during project execution</li> <li>3. To be coordinated by the Engineer during project execution.</li> <li>4. Refer to #2 above.</li> <li>5. ABT (Availability based tariff) features to be coordinated by the Engineer at the project execution stage.</li> <li>6. To be coordinated by the Engineer at the project execution stage.</li> </ol>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
644.	<p><b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /460 of 741</b>  <b>Chapter 1: Control and Relay Specification</b>  <b>Section 1: Control and Relay Panel Specification Pg 13</b>  <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 will be finalized during detailed design subject to approval by the Engineer.</p>
645.	<p><b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /469 of 741</b>  <b>Chapter 1: Control and Relay Specification</b>  <b>Section 2: Control and Relay Panel Specification</b>  <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 &amp; tender price schedule does not have 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>
646.	<p><b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /469 of 741</b>  <b>Chapter 1: Control and Relay Specification</b>  <b>Section 2: Control and Relay Panel Specification</b>  <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</i></p>	<p>At remote end substation, bidder scope does not include any supply of bay equipment &amp; tender price schedule does not having provision for the same. Hence bidder have not envisaged any modification CT’s, equipment or any devices 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 the 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)
	<i>changes for annunciation &amp; 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</i>		
647.	<b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /457 of 741</b> <b>Chapter 10 : Control and Relay Panel</b> <b>Section 1 : Control and Relay Protection Specification Pg 10</b> <i>3.4. CIRCUIT BREAKER PANEL - Auto-Reclose Scheme</i>	Bidder understand that Auto-Reclose scheme shall be integral part of the Bay Control Unit and will be located in Circuit breaker panel. Please confirm.	Confirmed.
648.	<b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /489 of 741</b> <b>Chapter 10 : Control and Relay Panel</b> <b>Section 2 : Control and Relay Protection Specification</b> <b>4.5. RELAY TEST EQUIPMENT</b> <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> <i>iii. Any other test equipment specified by manufacture or as requested by Engineer/Employer</i>	The Bidder understands 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.	Confirmed subject to the Engineer's approval at the Design review stage.
649.	<b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /547 of 741</b> <b>Chapter 11:Substation Automation System (SAS) Specification pg29</b> <b>7.3. BAY MONITORING</b> <i>c. Each bay monitoring unit should contain an event disturbance recorder capable of</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.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>storing minimum of 200 time-tagged events, transient fault, and disturbance records. e. The disturbance report will be saved in the standard COMTRADE format or similar</i></p>		
650.	<p><b>Part 2 – Employer’s Requirement/ 220913_Lot3_NDM_TS /450 of 741</b>  <b>Chapter 10: Control and Relay Specification</b>  <b>Section 1: Control and Relay Panel Specification Pg 3</b>  <i>2.3. INTERNAL WIRING,  b (ii). Current transformer circuits, other metering circuits control: 6 mm2.</i></p>	<p>'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..</p>	<p>The requirement in the bid document cannot be changed.</p>
651.	<p><b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /467 of 741</b>  <b>Chapter 10: Control and Relay Specification</b>  <b>Section 2: Control and Relay Panel Specification Pg 1</b>  <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>	<p>The bidder shall provide Relays which are compatible with IEC61850 and <b>DNP3</b> Protocol. Kindly accept.</p>	<p>Kindly adhere to the requirements of the bidding document.</p>
652.	<p><b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /468 of 741</b>  <b>Chapter 10: Control and Relay Specification</b>  <b>Section 2: Control and Relay Panel Specification Pg 2</b>  <i>2.1. TRANSMISSION LINE PROTECTION  d. Relays shall be suitable for CVT connections, with transient response and</i></p>	<p>The bidder understands 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 Engineer’s approval at the design review stage.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>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>		
653.	<b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /534 of 741 Chapter 11:Substation Automation System (SAS) Specification Pg 16</b> <i>6.2. Virtualization Architecture</i>	As the requirement calls for SAS HMI Client 1& 2, SAS HMI Scada, SAS HMI Historian. Please let bidder know the Sizing Calculation required of VMWare or similar software required in the Virtualization Server.	Confirmed subject to the Engineer's approval at the design review stage.
654.	<b>Part 2 - Employer_s Requirement/ 220913_Lot3_NDM_TS /552 of 741 Chapter 11:Substation Automation System (SAS) Specification Pg 34</b> <i>10. MULTIFUNCTION POWER SYSTEM MONITORING</i> <i>10.1. GENERAL</i> <i>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>	The Bidder understands this is Power Quality Analyzer Requirement which includes PMU and PQM data. The bidder understand same is required only for 400kV line bays. Kindly confirm understanding.	To be coordinated by the Engineer during the project execution stage.
655.	<b>CHAPTER 10: CONTROL AND RELAY SPECIFICATION</b> <i>1.1. GENERAL RELAY REQUIREMENTS:</i> <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>	As per the SCADA System Architecture, we understand all Numerical Relays and BCU to Communicate on IEC61850 PRP Protocol. Please confirm.	Kindly adhere to the requirements of the bidding document.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
656.	<b>CHAPTER 10: CONTROL AND RELAY SPECIFICATION</b> <i>6. SPARE PARTS</i>	The bidder understands Spare Parts for Control & protection as mentioned in the Technical Specification clause 6 to be considered by bidder for all the 3 Substation in line with our offered scope	The mentioned spare parts in the technical specifications for each substation shall be offered and supplied.  The spare parts have to be supplied as per the Price Schedule and as per Technical Specifications for each substation Lot, as the two documents are complementary. The Bidder shall quote the prices to comply with the Employer's requirements as well as with the Technical Specifications.
657.	<b>CHAPTER 10: CONTROL AND RELAY SPECIFICATION)</b> <i>5.3. TEST EQUIPMENT AND FACILITIES</i>	The bidder understand that all necessary test equipment shall be maintained along with its calibrated report in the Manufacturing Location during FAT. Kindly confirm.	Confirmed.
658.	<b>CHAPTER 10: CONTROL AND RELAY SPECIFICATION</b> <i>3.9. BAY CONTROL UNIT (BCU)</i> <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 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>	The bidder would like to inform us that, the data shall be provided 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 we understand NTAMC System is not available in NEA. Kindly confirm.	It will be finalized in coordination with the Engineer at the detailed design review stage.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
659.	<b>Lot3_NDM_DWG</b> <i>Metering panel</i>	As specification do not clarify, following assumptions are considered. Please confirm. 1. 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 the bidder understand the annunciator is not applicable for metering panel as indicated in tender panel GA drgs.	1. It will be finalized in coordination with the Engineer at the detailed design review stage  2. Confirmed.
660.	<b>230324_SS_Bid_Document_for issuance_Final</b> 2.13.3.2 <i>Test Equipment &amp; tools for SAS SYSTEM for measuring, configuration &amp; diagnostics</i>	The Bidder understands that they need to supply SAS software which shall have the configuration tool along with gateway, client, HMI, server software's only. Kindly confirm.	All tools and software required to configure and maintain the SAS System are included in the scope of work.
661.	<b>Part 2: Employer's Requirements Section V B1 (Technical Specifications),</b> <i>'b. The sites included in this specification are the following:</i> <i>i. 400/220 kV New Damauli GIS Substation</i> <i>d. The Contractor will be responsible for supply and installation of Interface cards of SDH multiplexer plus phone sets and coordinate with Ratmate Contractor through MCA-Nepal.</i> <i>e. New SDH FO communication links, with associated terminal equipment, are required at 400 kV substations in Ratmate and New Butwal to integrate the existing communication network to the new 400 kV substations.</i>	The bidder understand scope of work involves supply of new SDH and Multiplexer equipment at New Damauli GIS S/S and augmentation of existing SDH equipment at Ratamate (to be supplied in LOT-1)& New Butawal (to be supplied in LOT-2).	The equipment at Ratmate and New Butwal are in the scope of the respective lots. Coordination between lots is required at the design and construction stage, if there are different contractors for the different lots. MCA-Nepal shall assist with coordination.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
662.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b>  <b>221123_Lot3_NDM_PSR</b>  <b>General Project Description &amp; Scope</b>  <i>c. 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>  <i>b. The following transmission lines are associated with substation:</i>  1. <i>New Damauli – Ratmate 400 kV D/C Lines: 89 km (along with OPGW)</i>  2. <i>New Damauli – New Butwal 400 kV D/C Lines: 90 km (along with OPGW)</i>  <i>The necessary approach cable and hardware for termination of OPGW of Ratmate – New Damauli D/C and New Damauli – New Butwal D/C Lines at New Damauli Substation End, its interfacing with DPC for tele protection application and necessary SDH, MUX/DMUX telecommunication terminal equipment required for the communication of the said 400 kV Lines</i></p>	<p>1. Please confirm requirement under this project is Digital Protection Coupler is for Distance Protection only &amp; no differential Protection interface are to be proposed with offered D&amp;I Mux equipment.  2. Please confirm DPC qty &amp; same is to be offered distance protection for following lines:  Ratamate- New Damauli 400kV D/C - 8 Nos. (4 at each end)  New Butawal- New Damauli 400kV D/C - 8 Nos. (4 at each end, 4 Nos. of New Butawal considered in LOT-2).  3. Please provide specification of Digital protection coupler.</p>	<p>It will be finalized in coordination with the Engineer at the detailed design review stage.</p>
663.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b>  <i>The design requirements of (c.) 400kV remote-end locations shall be coordinated with the remote-end Contractor for the protection IEDs communication scheme.i. Communication for Line Differential Protection 87L1 &amp; 87L2.</i></p>	<p>The Bidder understands C37.94 differential interface to be proposed with proposed D&amp;I Mux for differential protection interfacing/operation through Telecom equipment. Please confirm.</p>	<p>The Engineer will coordinate the interfaces at the remote ends to ensure compatibility.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
664.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b>  <i>Digital type measuring equipment shall comply with ITU-T (CCITT) Recommendation O.151.</i></p>	<p>Please confirm whether Digital Type Measuring equipment's are to be supplied. If yes provide detailed specification &amp; quantities of Measuring equipment so that all bidders will be on same platform..</p>	<p>The Bidders to propose measuring and testing equipment compliant with the requirements. Refer to the Price Schedule.</p>
665.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b>  <i>a. High speed E1 channel support.  b. 64kbps and nx64kbps data channel support as required.  c. Low speed (300 -1,200 bps) data channel support as required.  d. Voice (2 ires, 4 wires) channel support and integration with EMPloyer's IP-PBX system. The details of IP-PBX System is provided later in the specification  e. Data transport supporting network management channels.  f. The connectivity between substations and control center over TCP/IP using Ethernet interface for various services of data and voice such as for RTUs, VOIP, etc.</i></p>	<p>The bidder understand D&amp;I mux to be supplied along with SDH Equipment for providing Multiplexer interfaces viz. 64kbos, FXO/FXS, Serial IEC-101. Please confirm D&amp;I Mux requirement along with proposed SDH Equipment.</p>	<p>The Bidders are requested to abide by the requirements of the bidding documents.</p>
666.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b>  <b>TELECOMMUNICATION INTERFACE REQUIREMENT</b>  <i>i. Testing tools for STM1,4, 16&amp; 64 shall be supplied.</i></p>	<p>Please confirm whether Testing Tools for STM-1,4, 16 &amp; 64 are to be supplied. If yes provide detailed specification &amp; quantities of Measuring equipment so that all bidders will be on same platform.</p>	<p>Bidders to propose metering and testing equipment compliant with the requirement. Refer to the Price Schedule.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
667.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications) FIBER OPTIC PATCH CABLES</b>  <i>c. Contractor to provide new RFTU to integrate to existing NEA EXFO NQMSFiber Remote Fiber Testing System. The new RFTS requirement shall be equal with existing RFTUM..</i></p>	<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 &amp; quantity for this requirement.</p>	<p>To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment</p>
668.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications) GENERAL NETWORK CHARACTERISTICS</b>  <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>  <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</i></p>	<p>1. Requirement of SDH Equipment not clear , please confirm whether SDH Equipment requirement is for STM-1/4/16  2. Upgradability to STM-64 is not understood as 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) &amp; same can be upgraded in future with MPLS-TP interface cards, will it be acceptable to MCA. Please confirm  3. SDH Technology is getting obsolete &amp; only few selected manufacturers in Power Utility domain manufacture SDH equipments which supports STM-64 upgradability. Most of Utilities including NEA are transitioning for existing SDH installed base to MPLS-TP. Hence bidder request MCA to either limit the requirement to STM-1/4/16 which is used in NEA network in existing &amp; ongoing</p>	<p>1. As per Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, new generation SDH STM -16 (Upgradeable to STM-64) need to be proposed as per the Employer's Requirement.  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><i>Generation SDH STM-16 Add/Drop Multiplexer equipment.</i></p> <p><i>d. CONTRACTOR shall provide and install STM-16 Optical Interfacecards/modules with single STM-16 TX and RX optical ports in eachcard/module.</i></p> <p><i>e. The SDH node will be upgradeable to STM-64..</i></p>	<p>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>	
669.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b></p> <p><b>GENERAL NETWORK CHARACTERISTICS</b></p> <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>Requirement is not clear. Please clarify, is this requirement of 13 Nos. D&amp;I Mux at Ratamate substation or same is mentioned by typographical error. Request to kindly review &amp; clarify the requirement.</p>	<p>It should be cards with 16 E1 channels as specified in the Technical Data Schedules.</p>
670.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b></p> <p><b>TRANSMISSION EQUIPMENT</b></p> <p><i>b. SDH node will be STM-16 with five (5) MSP protected directions.</i></p> <p><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. The Bidder understand equipment to be proposed is STM-16,5 MSP &amp; only 2 directions out of 5 protected directions should be equipped. Please confirm our understanding.</p> <p>2. SDH Technology is getting obsolete &amp; 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 requirement to MPLS-TP Hybrid 1G , 5 Protected directions.</p>	<ol style="list-style-type: none"> <li>1. Confirmed</li> <li>2. To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.</li> <li>3. To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.</li> </ol>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		3. In case bidder offers equivalent MPLS-TP 1G 5 Protected directions will it be acceptable. Please confirm.	
671.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b>  <b>TRANSMISSION EQUIPMENT NETWORK MONITORING (CRAFT TERMINAL BASED)</b>  <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>  <i>i. The craft terminal for telecommunications equipment will be part of the engineering workstations.</i>  <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 &amp; optical mouse) to carry-out all local maintenance, Configuration, provisioning and alarm</i>  <i>v. Provisioning will be in the Local Craft Terminal for integration with a full NMS server.</i></p>	<p>1. The bidder understands that there is no requirement of new NMS under this project &amp; offered SDH integration at existing Centralised NMS will be done by NEA/MCA through existing NMS OEM. Please confirm our understanding.  2. At Ratamate Substation or bidder has to supply only 03 Nos. LCT terminals loaded with craft terminal software for maintenance, configuration &amp; provisioning.  3. Please confirm Laptops should be workstation based &amp; no laptop to be provided for this requirement.  4. In case only Craft terminals to be offered then requirement of integration with full NMS server is not understood. Offered SDH integration at existing Centralised NMS will be done by NEA/MCA through existing NMS OEM. 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  2. Same as #1  3. Workstation to be laptop based.  4. Refer to #1 above</p>
672.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b>  <b>OPTICAL FIBRE TERMINATION AND SPLICING</b>  <i>The Contractor shall provide rack/wall mounted Fibre Optic Distribution Panels (FODPs) sized as indicated in the appendices</i></p>	Please confirm whether 24 F or 48F Fiber Rackmounted /Wall Mounted fiber FODP to be proposed at New Damauli GIS S/S .	48 F FODP shall be proposed.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>and shall terminate the fibre optic cabling up to the FODPs.</i>		
673.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b>  <b>220913_B02_GTR</b>  <b>221123_Lot3_NDM_PSR</b></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><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>1.3.1 The only type of 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.</i></p>	<p>Please confirm requirement of Type tests for Telecom is 10 years or 5 Years as validity of type test requirements are Contradicting in Technical specifications, PSR &amp; GTR requirement.</p>	<p>5 Years for telecommunication equipment.</p> <p>MCA-Nepal will issue an addendum to the bidding document to modify this requirement, subject to the approval of authority</p>
674.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b></p> <p><i>v. Testing Tools</i></p> <p><i>a. All testing kits for STM1, 4 16 &amp; 64 shall be supplied</i></p> <p><i>b. Testing kits for VC12 and VC4 shall be supplied</i></p> <p><i>c. Ethernet testing tools shall be supplied.</i></p>	<p>Please confirm whether Testing Tools are to be supplied. If yes provide detailed specification &amp; quantities of Testing tools so that all bidders will be on same platform.</p>	<p>Bidders to propose metering and testing equipment compliant with the requirements. Refer to the Price Schedule.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>d. OTDR and power &amp; Sources shall be supplied.</i>		
675.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b>  <b>TELEPHONE SYSTEM</b>  <i>The present section outlines the Technical Requirements applicable for the design, supply, installation and commissioning of telephone systems to be installed in New Damauli and associated telephone equipment for a complete operational private telephone system to be installed in related substations as an extension of the existing NEA phone system.</i>  <i>These technical requirements shall always be read in conjunction with the "General Technical requirements" in B.02 and Technical Data sheets in Vol.2</i></p>	<p>Please provide configuration of offered EPABX system at RATAMATE S/S as details not provided TS/Technical datasheet i.e</p> <ol style="list-style-type: none"> <li>1. no. Analog/ Digital Subscribers,</li> <li>2. no. of IP Subscribers,</li> <li>3. No. of E1 Interface,</li> <li>4. No. of E&amp;M Interface</li> <li>5. CO Lines</li> <li>6. Power Supply &amp; Control Card Redundancy required or not</li> <li>7. Operater Console PC Based or Phone based</li> <li>8. Analog Subscriber qty &amp; specification</li> <li>9. Digital Subscriber phone qty &amp; specification</li> <li>10. Attendant Phones qty &amp; specification</li> <li>11. Outdoor Telephone Sets quantity &amp; Specification</li> <li>12. IP Phone Qty &amp; specification (SIP based or open SIP)</li> </ol>	<ol style="list-style-type: none"> <li>1 to 5- Refer to the corresponding technical data schedule.</li> <li>6- Required</li> <li>7- Phone based</li> <li>8 – Analog phone in substation main control room</li> <li>9 – Digital phone in each room of control building and GIS building</li> <li>10- Attendant phone in substation main control room</li> <li>11- Outdoor phone in three strategic locations of the substation</li> <li>12- Same as #9</li> </ol>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
676.	<p><b>Part 2: Employer's Requirements Section V B1 (Technical Specifications)</b>  <i>h. The number of telephone sets to be installed is as follow:</i>  <i>i. Two digital IP based Operators phone in each substation control room (New Damauli, New Butwal)</i>  <i>ii. One digital IP based phone set for each office, each equipment room, conference room and guard room of each substation</i>  <i>iii. Three digital IP based phone in each GIS hall of each substation</i>  <i>iv. 10 Outdoor phone sets located strategically in the switchyard near maneuvering points and power transformers of each substation</i>  <i>v. Two analogue 2W phone set for any local PSTN (Public Switched Telephone Network) lines for each substation.</i></p>	<p>Telephone Cabling in existing substation in New Butwal &amp; at New Damauli 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>
677.	<p><b>Not used.</b></p>		
678.	<p><b>220913_Lot3_NDM_TS</b>  <b>CHAPTER 5: FIRE PROTECTION SYSTEM SPECIFICATION</b>  <b>2.3. FIRE FIGHTING WATER TANK</b>  <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>  <i>i. Size 9.31 m X 9.31 m and capacity of 317 Cubic Meter shall be constructed.</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.  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</p>	<p>The sizing and design of water tank shall be as per point k.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<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>&amp;.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>needs for the facility. with the basis of 2 (Two) hour requirement of fire water along with hose stream protection not less than 1890 l/min.</p> <p>Kindly confirm the basis to be considered.</p>	
679.	<p><b>230324_SS_Bid_Document_for issuance Final</b></p> <p><b>Breakdown of Rates and Prices Schedule No. 2. CI No. 2.10.4</b></p> <p><b>Page 798 of 1019</b></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 the 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>
680.	<p><b>230324_SS_Bid_Document_for issuance Final</b></p> <p><b>Breakdown of Rates and Prices Schedule No. 2.</b></p> <p><b>CI No. 2.11</b></p> <p><b>Page 798 of 1019</b></p> <p><i>HVAC And Ventilation Systems</i></p>	<p>Kindly furnish Technical Specifications of Ventilation system to be considered for 400kV 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>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
681.	<b>220913_Lot3_NDM_TS</b> <b>Chapter 20: Air Conditioning Specification</b> <b>CI No.2</b> <i>a. Air conditioning requirement of control room building shall be met using a combination of following types of Air Conditioning units as required.</i> <i>i. Ductable Split unit of 8.5TR.</i> <i>ii. Cassette type split AC units of 3TR.</i> <i>High wall type split AC units of 2TR</i>	The Bidder understands that bidder may select any combination or any one of the Air Conditioning System for any specific area. Kindly confirm.	Bidders are requested to follow the technical specifications.
682.	<b>230324_SS_Bid_Document_for issuance</b> <b>Final Breakdown of Rates and Prices</b> <b>Schedule No. 4.5 Other Installation</b> <b>Services CI No. 4.5.1.6</b> <b>Page 828 of 1019</b> <i>Clean agent fire extinguishing system.</i>	Kindly furnish details of rooms to be protected with clean agent-based fire extinguishing system.	The contractors are responsible for the design of the clean agent fire extinguisher and requested to do an independent analysis to meet the technical specification. The design will be subject to approval by the Engineer.
683.	<b>220913_Lot3_NDM_PSR</b> <b>Clause No 3.17.2.7</b> <i>Site leveling and grading;</i>	For the subject package, all lands are protected and controlled by MCA/ Government of Nepal, hence the bidder understand that, nearby location/ source for bought out earth (if applicable) shall be made available by MCA. Please confirm. In addition to this, bidder also understand Vegetation clearance shall be in scope of MCA, please confirm.	Finding the location/source for bought out earth is the responsibility of contractors. MCA-Nepal will facilitate the process if required.  Please note that the site clearance including vegetation clearance falls under the current scope of work.
684.	<b>220913_Lot3_NDM_PSR</b> <b>Clause No 3.17.2.7</b> <i>Site leveling and grading;.</i>	The bidder understands that, land development work is limited to the present scope of 400kV area only at New Damuli substation. Please confirm.	Confirmed.
685.	<b>220913_Lot3_NDM_PSR</b> <b>Clause No 3.17.2.7</b> <b>Site leveling and grading;.</b>	For New Damuli substation, slope protection work between 400KV and 220kV area is excluded for	Slope protection for 400 kV side is under the current scope of work.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		Bidder's present scope. Please confirm understanding.	Please refer to addendum#6 for better understanding.
686.	<b>230324_SS_Bid_Document_for issuance_Final; Schedule No 4.3; Clause No:4.3.2.7</b> <i>River Protection Works</i>	The bidder understands that, top level for river protection work shall be similar to the adjacent bridge (in construction phase) of proposed Damauli site. Please confirm.	Contractor needs to perform the hydrological study and based on the result of such study, the river protection works need to be performed with approval by the Engineer.
687.	<b>230324_SS_Bid_Document_for issuance Final Annex B01_11_Road_Assessment_Report Vol_IV_Cost_Estimate 221101_B01_GPD</b> <i>Vol_IV_Cost_Estimate</i>	The bidder would like to inform us that, estimate of approach road, bridge strengthening/construction of new bridges, provided in Tender documents was done on the basis of assessment dated 2019. However, during site visit , it was observed that, approach road, bridge strengthening/construction of new bridges is already in progress. Hence, we assume that, before commencement of proposed substation work for subject package & transportation of equipment to the respective substation, proper approach will be available and accordingly bidder not to consider the above mentioned work in their scope. Please confirm.	It is the responsibility of the bidders to check existing road and bridges conditions for transportation of their equipment.  The Annexed report is just a reference report and MCA-Nepal will not bear any responsibility towards its relevance and accuracy of information and ultimately upon the bid price implications if any.
688.	<b>General</b> <i>Land development, internal road, drain at future area.</i>	Kindly confirm, Land development, internal road, drain for future area as mentioned at Layout are excluded from bidder's present scope of works..	Land development, internal road, drain for future area as per layout are also included in the bidder's present scope of works
689.	<b>Tender Drg No: NDM_400_1 NDM_400_2</b> <i>Tender Drawing New Damauli</i>	The bidder would like to inform us that, reference to the attached Tender drawing the details w.r.t to FGL, NGL, HFL 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 various bidders, we request MCA kindly provide the followings details at tender stage enabling all bidders to quote at par:	The hydrological study along with the design of the river protections works design and implementation work is under the current scope of work. Bidders are requested to submit a proposal based on the available information, site visit and their own assessment to complete the scope defined in the Employers requirement.



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		1. FGL of the proposed Damauli Substation. 2. NGL of proposed Damauli Substation. 3. HFL Data for Damauli Substation. 4. Available contour drawing in Autocad format with spot levels of proposed substation premises. 5. Rainfall intensity data of proposed substation catchment area for Bid stage assessment of storm water drainage.	
690.	<b>221123_Lot3_NDM_PSR</b> <b>Clause No 3.17.2.1</b> <i>roads and parking</i>	Kindly confirm the capacity of Parking shed to be considered in present scope.	To be agreed with the Engineer at the design review stage.
691.	<b>221123_Lot3_NDM_PSR</b> <b>Clause No 3.17.2.7</b> <i>Site clearance including diversion of existing services, if any</i>	The bidder understand that necessary statutory approval of existing services shall be made available by MCA to successful bidder. Please confirm.	Refer 2.2 of GCC.
692.	<b>221123_Lot3_NDM_PSR</b> <b>Clause No 3.17.2.9</b> <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.
693.	<b>221123_Lot3_NDM_PSR</b> <b>Clause No 3.17.2.14</b> <i>Construction of all internal and external drainage and substation flood protection works, as well as river protection works have to be carried out in conformity to the flood risk assessment following the hydrological study.</i>	1. Since, no outfall point is mentioned at Tender document, thereby the bidder understand that, suitable outfall point shall be made available by MCA to successful bidder within 20mtrs beyond the proposed substation boundary. Please confirm. 2. As per Contour drawing provided, the bidder understands that, River protection work is not applicable at Damauli SS. Please confirm	1. It is the responsibility of the successful bidder to get approval for the outfall point, from the Engineer prior to the construction. Bidders are requested to refer to Site Drainage under Chapter-9: Civil Works Specifications, Section 1: General Civil Works Specifications.  2. River protection work is under the current scope of works. Please refer to the technical specifications for details.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
694.	<b>Not used.</b>		
695.	<p><b>230324_SS_Bid_Document_for issuance_Final</b>  <b>221123_Lot3_NDM_PSR</b>  <b>221101_B01_GPD</b>  <i>Schedule No. 4.3; Clause no: 4.3.2.1: Improvement of Access Road as required to Substation</i>  <i>Clause no: 3.16.2.10 - The proposed roads and paving are indicated in the layout plan.</i>  <i>Clause No 5: Site Accessibility, Page (19 of 106); NEA to construct an access road and bridge.</i>  <i>Construction of temporary bridge from existing access road over Chabdi river for temporary access during site development works and enhancement of existing access road in case of delay in construction of permanent bridge by NEA.</i></p>	<p>Since, NEA to construct access road and bridge for New Damauli substation, the bidder understands that, in case of delay the same also be facilitated by successful bidder by MCA/NEA. Please confirm.</p>	<p>As per GPD the temporary bridge construction and temporary access need to be developed by the contractor if there will be delay in construction of said access road and bridge.</p>
696.	<p><b>221123_Lot3_NDM_PSR</b>  <b>Clause No 3.19.5</b>  <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></p>	<p>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.</p>	<p>The statutory approval/clearances are contractors' responsibility and MCA-Nepal will facilitate during the process if required.</p>
697.	<p><b>230324_SS_Bid_Document_for issuance_Final</b>  <b>Annex_B01_11_Road_Assessment_Report</b>  <b>Vol_IV_Cost_Estimate</b>  <b>221101_B01_GPD</b>  <i>Material basic rate</i></p>	<p>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.</p>	<p>The Annexed report is just a reference report and MCA-Nepal will not bear any responsibility towards its relevance and accuracy of information and ultimately upon the bid price implications if any.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
			It is the responsibility of the bidders to check existing road and bridge conditions for transportation of their equipment and offer the Bid Price as per the requirements.
698.	<b>230324_SS_Bid_Document_for issuance_Final</b> <b>Annex_B01_11_Road_Assessment_Report Vol_IV_Cost_Estimate 221101_B01_GPD</b> <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.	<p>The annexed report is just a reference report and MCA-Nepal will not bear any responsibility towards its relevance and accuracy of information and ultimately upon the bid price implications if any.</p> <p>It is the responsibility of the bidders to check existing road and bridge conditions for transportation of their equipment and propose the cost as per the requirements.</p>
699.	<b>230324_SS_Bid_Document_for issuance_Final</b> <b>Annex_B01_11_Road_Assessment_Report Vol_IV_Cost_Estimate 221101_B01_GPD</b> <i>Vol_IV_Cost_Estimate.</i>	The bidder understands that, beyond the applicable price schedule, line items not to be envisaged for substation access related work. If any additional Civil works are required at later stage apart from cost estimated BOQ line items the shall be payable extra. Please confirm.	<p>The purpose of the price schedule 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 based on the Conditions of Contract.</p> <p>The civil works are in lot in Price Schedule to complete the scope of work mentioned in the Employer Requirements.</p>
700.	<b>221123_Lot3_NDM_PSR</b> <b>Clause No 3.20.1</b>	From the stated clause no: 3.21.1, the bidder understands that Boundary wall with suitable slope protection work and retaining wall shall be	Boundary wall/fence, suitable slope protection work and retaining wall for 400

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>1. Boundary wall for the entire property. Note the fence for the substation proper is in the scope of Contractor..</i>	facilitated by MCA to successful Bidder. Please confirm.	kV side of the Substation is under current scope of work.
701.	<b>220913_Lot3_NDM_TS</b> <b>Clause No: 4.7)</b> <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 of surplus earth is part of the current scope of works and all costs required for such works is deemed to be included in the Financial Offer.
702.	<b>220913_Lot3_NDM_TS; Chapter 9; Section 1;</b> <b>Clause No: 8</b> <i>Roads</i>	Both RCC and Black top roads has been mentioned in specification. Kindly confirm which type of road shall be planned by bidder within the substation.	We could not locate the road in the mentioned clauses and drawings.  Please note that access road construction does not fall under this scope at New Damauli Substation.
703.	<b>220913_Lot3_NDM_TS; Chapter 9; Section 1; Clause No: 8</b> <b>Lot3_NDM_DWG; 02System_Drawing;</b> <b>DET_400_2</b> <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..	This has to be agreed with the Engineer at the design review stage
704.	<b>220913_Lot3_NDM_TS; Chapter 9; Section 1;</b> <b>Clause No: 12</b> <b>Drg No: NDM_400_1</b> <b>230324_SS_Bid_Document_for issuance_Final; Schedule No 4.3; Clause No: 4.3.2.10</b> <i>Water Supply. Water Treatment Facility – Lot -1</i>	Reference to Civil work specification in conjunction with Tender Layout” NBW_200_1_Rev_7”, the following details are not furnished : 1. Specification of Water treatment Plant. 2. Capacity of water treatment plant. 3. Water Storage tower. 4. Capacity of water storage tower Kindly provide detailed specification for tender stage estimation.	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 the Engineer. MCA-Nepal will issue an addendum to the bidding document, if required.
705.	<b>220913_Lot3_NDM_TS; Chapter 9; Section 1; Clause No: 12</b> <b>Drg No: NDM_200_1_Rev_7</b>	The Bidder understands that, location of water treatment facility and water storage tower mentioned at drg. No. “NDM_200_1_Rev_7” is	Confirmed.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<b>230324_SS_Bid_Document_for issuance_Final; Schedule No 4.3; Clause No: 4.3.2.10</b> <i>Water Supply</i> <i>Water Treatment Facility – Lot -1</i>	tentative and shall be finalized at detailed stage please confirm.	
706.	<b>220913_Lot3_NDM_TS; Chapter 9; Section 2; Clause No:2.1</b> <b>Drg No: NDM_300_1_Rev_1</b> <b>230324_SS_Bid_Document_for issuance_Final; Schedule No 4.3; Clause No: 4.3.2.10.</b> <i>Control Room</i>	Reference to tender drawing "NDM_300_1_Rev_1", there are requirement of two buildings: 1. Control room Building – 25m x 25m (NDM_120_1_Rev_2_. 2. Another room – 15m x 14m adjacent to the GIS building (NDM_300_1_Rev_1) Since, separate C&R Panel room shall be provided along with the length of proposed GIS building, thereby, we understand that, room with dimension (15m x 14m) adjacent to the GIS building is not required. Please confirm.	Dimensions of the building shall be decided by the bidder depending upon requirement with approval by the Engineer. Provision for future extension of the building shall be made. Bidders are requested to follow the technical specifications for further details.
707.	<b>220913_Lot3_NDM_TS; Chapter 9; Section 1;</b> <i>BRITISH STANDARD CODES.</i>	The bidder understands that equivalent International Standard i.e., IS Code shall also be permissible for design, supply, fabrication and erection for Lot -1 substations. Please confirm.	Codes to be followed shall be as per the TS subject to approval by the Engineer during detailed design.
708.	<b>220913_Lot3_NDM_TS; Chapter 9; Section 2; Clause No: 2.2.g</b> <i>Fabrication and installation of permanent hot dip galvanized steel caged ladders for access to roofs (Inclined Type) of 400 kV &amp; 220 kV buildings and control buildings and overhead travelling cranes of 400 kV and 220 kV GIS Buildings.</i>	The bidder understand that inclined roof shall be made of RCC roof and slope to be maintained. Thereby we also understand that no separate sheeting is not require above the RCC roof. Please confirm.	The Roof design and construction to follow technical specifications (As per Clause 6).
709.	<b>220913_Lot3_NDM_TS; Chapter 9; Section 2;</b> <b>Clause No: 3.v</b>	Kindly confirm that, type of foundation will be decided by recommendation of soil investigation report, whether open/pile foundation. Please confirm.	The type of foundation will be decided after the soil investigation is completed.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<i>Detailed design calculations shall be submitted by the bidder showing complete details of piles/pile groups proposed to be used.</i>		
710.	<b>Annex_B01_10_Geotech_Report</b> <i>Geohazard</i> <i>ERT</i> <i>Seismic Analysis</i> <i>VES.</i>	The bidder presume that, all the data available along with ‘Annex_B01_10_Geotech_Report’ is applicable for Transmission Tower work at various route. Request MCA to confirm exact geo technical data applicable for the respective substaion premises. Please confirm and provide.	The geotechnical report provided in the report is for the tendering purpose and bidders are requested to perform their own study to validate such report and submit the proposal accordingly.
711.	<b>230324_SS_Bid_Document_for issuance_Final; Schedule No 4.3; Clause No:4.3.2.7</b> <i>River Protection Work</i>	The bidder could not find any details for the river protection work at PSR for Damauli substation. If the same is in bidder’s present scope, kindly provide the detailed specifications of the same	The hydrological study followed by the river protection works is under the current scope of work and provided in the technical specifications.  Please note that an addendum to the biding document will be issued for detailed scope of works for Hydrological, Environmental and /Social assessment study and implementations.
712.	<b>230324_SS_Bid_Document_for issuance_Final; Schedule No 4.3; Clause No:4.3.3.1</b> <i>Soil Investigation and Test (Including Post-Construction Grounding Test) – 1 Lot</i>	Kindly confirm the details of Post-construction grounding work to be carried out.	The Grounding system has to be tested after completion.
713.	<b>RTE_210_1_Rev_9</b> <b>221123_Lot1_RAT_PSR</b> <b>Clause No 3.17.2.7</b> <i>Mismatch in co-ordinate</i>	Coordinate mentioned in PSR and tender drg. No. ‘RTE_210_1_Rev_9’ is Contradictory. Kindly confirm all the co-ordinates for bid stage assessment purpose	Please follow the PSR coordinate for coordinate of tentative location of the substations for bidding purpose.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
714.	<p><b>Technical Specification</b></p> <p><b>Chapter 3: Auto Transformer Specification</b></p> <p><b>CI No 3.3 and 3.8 (ii)</b>  <b>As per GTP format</b>  Top oil measured by thermometer: 50 °C.  Winding measured by resistance method: 55 °C.</p>	<p>Please confirm the following parameters.</p> <p>1) Top oil temperature rise.  2) Wining temperature rise.  3) Winding hotspot temperature rise."</p>	<p>The following is confirmed.</p> <ol style="list-style-type: none"> <li>1. Top oil temperature rise: 50 °C.</li> <li>2. Winding temperature rise: 55 °C</li> <li>3. Hottest spot winding temperature rise:90° C</li> </ol> <p>MCA-Nepal will issue addendum to the bidding document to correct CI 3.9 a ii after approval from the authority.</p>
715.	<p><b>Technical Specification</b></p> <p><b>Chapter 3: Auto Transformer Specification</b></p> <p><b>CI No 3.14</b>  As per Technical Specification CI no: 3.14  9 Gas + H2O measurement required for DGA with IEC 61850 protocols over FO port.</p> <p>While In GTP CI no: 40, Gas Sensor called GE-HYDRAN M2 or equivalent with 3 Gas + H2O measurement required for DGA with Modbus or DNP 3.0 protocol over RS-485</p>	<p>Both requirements are different and cost for the same is also different. As per Technical Spec. GE-Transfix model is suitable while as per GTP GE-Hydran M2 model is suitable.</p> <p>Please confirm the requirement.</p>	<p>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.</p>
716.	<p><b>Technical Specification</b></p> <p><b>Chapter 3: Auto Transformer Specification</b></p> <p><b>CI No 2.1 (g), ii</b></p>	<p>As per NEMA TR-1 Standard, 315 MVA for 1300 BIL above for OFAF cooling 90 dB(A) noise level acceptable.  Please confirm the same Noise level.</p>	<p>Kindly adhere to the requirements of the bidding document.</p>
717.	<p><b>PART 2 – EMPLOYER’S REQUIREMENTS B1.1 PSR 3.1 400kV NEW BUTWAL GIS</b></p>	<p>Does separate operating mechanism for high-speed earthing switches accepted?</p>	<p>Mechanism shall be part of GIS assembly.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<b>SUBSTATION f. Line Feeder Circuit Breaker Bay Elements, (v)</b>		
718.	<b>PART 2 – EMPLOYER’S REQUIREMENTS B1.1 PSR 3.1 400kV NEW BUTWAL GIS SUBSTATION f. Line Feeder Circuit Breaker Bay Elements, (vii)</b>	Does three one-phase set bushing accepted ? Which type bushing required? Porcelain or composite?	Kindly adhere to the requirements of the bidding documents.
719.	<b>PART 1 Bidding procedures. Section 4 Bid submission form. 2.6.1.5 Line/Feeder High Speed Earthing Switches, with removable earthing link 400kV, 50kA, single-phase, three-phase : set</b>	Kindly clarify what is removable earthing link ?	The removable link provides low voltage test provisions to permit testing at each maintenance-earthing switch at voltages up to 10kV and up to 200A. The provisions allow the test voltage and current to be applied to the conductor without removing SF6 gas or other components. All maintenance earthing switches shall be insulated to provide connections to the internal bus for timing and /or resistance measurements. The dielectric withstand capability of this insulation shall be 10kV rms. The removable ground connection shall be sized for the GIS short-time current withstand rating.
720.	<b>PART 1 Bidding procedures. Section 4 Bid submission form.  Financial offer forms BOQ Lot 2 2.6.1.6 Voltage Transformers, 400kV, dual secondary, with earthing link, Single-phase, Three-phase: set</b>	Kindly clarify what is dual secondary, with earthing link ?	Kindly follow the technical specifications and single line diagram.



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
721.	<p><b>PART 2 – EMPLOYER’S REQUIREMENTS B1.1 Drawings</b>  <i>Option BOQ quantity and quantity mentioned in single line diagram.</i></p>	<p>The ES,FES,PT quantity mentioned in Option BOQ and SLD are mismatching. Which one should be followed ?</p>	<p>Bidders are requested to follow the SLD. The ambiguity might may be corrected through an addendum.</p> <p>Further MCA-Nepal intends to issue the addendum to exercise the “option” scope of works as part of this bid document removing base scope of work in current scope of work subject to approval from the authority.</p>
722.	<p><b>PART 2 – EMPLOYER’S REQUIREMENTS B1.1 Drawings BOQ 2.6.4.3 &amp; PSR 3.1</b>  <i>Main Bus Elements iii. (3) three high-speed earthing switches complete with manual and motor-driven operating mechanisms.</i></p>	<p>In SLD is mentioned ES required. Which one should be followed ?</p>	<p>ES will be required as per requirements of PSR, technical specifications and SLD</p>
723.	<p><b>PART 2 – EMPLOYER’S REQUIREMENTS B1.1 PSR</b>  <b>Single line diagrams</b></p>	<p>Does Electrical interlocking accepted?</p>	<p>To be agreed with the Engineer at the design review stage.</p>
724.	<p><b>PART 2 – EMPLOYER’S REQUIREMENTS B1.1 PSR</b>  <b>3.1 400kV NEW BUTWAL GIS SUBSTATION</b>  <i>k. Line Feeder and associated tie breaker</i></p>	<p>The circuit breaker included PIR and CSD ? Kindly confirm.</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>
725.	<p><b>Single line diagrams</b></p>	<p>400 GIS CT parameters mentioned in SLD incomplete. Kindly provide Measurement rating</p>	<p>The current transformer location, polarity, ratios, and accuracy shall be as specified</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
			and in accordance with IEEE C57.13 and IEC 60044.
726.	<b>Scope of Supply Single line diagrams</b>	The GIS supply scope mentioned in SLD is within the dashed range. Kindly confirm .	Please see the note in the drawing for the supply of GIS. Further, please refer to the PSR for more information.
727.	<b>220913_Lot1_RAT_TS, 220913_Lot2_NBW_TS, 220913_Lot3_NDM_TS CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION CI 2.3.1 Loss Capitalization</b>	We understand losses shall be offered as per capitalization rates given in this clause. If transformer to be designed with any fixed maximum losses, please define.	The Contractor shall guarantee that the autotransformers comply with the performance stated in the Technical Data Sheets. Tolerances shall not exceed the values specified in IEC 60076 or those listed in the Technical Data Sheets. The autotransformer losses will be capitalized at rates given in the bidding documents for evaluation purposes.
728.	<b>220913_Lot1_RAT_TS, 220913_Lot2_NBW_TS, 220913_Lot3_NDM_TS CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION CI 3.1 a, iv</b>	We propose to offer the transformer with conventional type of tank with bolted top cover due to the following reasons: a) Any inspection at site can be easily carried out by removing top cover and inspection covers. b) If we supply with bell tank design, the gasket joint which is at tank bottom side will continuously see excessive oil pressure head and there will be more chances of oil leakage. Due to this reason many customers prefer conventional tanks even for higher ratings. c) We have supplied upto 500MVA 400kV with conventional tank with bolted top cover to various utilities in India.	The provision in the current bidding document will not be changed.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		In view of the above we request you to kindly accept the tank with conventional, bolted top cover construction.	
729.	<b>220913_Lot1_RAT_TS,</b> <b>220913_Lot2_NBW_TS,</b> <b>220913_Lot3_NDM_TS</b> <b>CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION</b> <b>Cl. 3.1 h.ii.b</b>	No question asked	Noted.
730.	<b>220913_Lot1_RAT_TS,</b> <b>220913_Lot2_NBW_TS,</b> <b>220913_Lot3_NDM_TS</b> <b>CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION</b> <b>Cl. 3.3 Windings (f)</b>	Winding resistance variance between phases depend on various factor like tolerance on conductor dimension effecting area, tolerance on proof stress effecting conductivity, and cable length for vector connection and surface contact at lug/various connections. So, variation of 1% is not possible. It will be as per measurement at actuals without effecting principal guaranteed parameters like losses.	Agreed.
731.	<b>220913_Lot1_RAT_TS,</b> <b>220913_Lot2_NBW_TS,</b> <b>220913_Lot3_NDM_TS</b> <b>CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION</b> <b>Cl. 3.5 Terminal Arrangement, a xii &amp; xiii</b>	Please note we do not envisage any insulating caps to be provided on tertiary. Kindly confirm. Please clarify requirement of tertiary compartment and confirm requirement of air filled cable box on tertiary.	It is confirmed that no insulating caps will be provided on tertiary. Tertiary compartment requirement is confirmed and cable boxes shall be air insulated. They shall be of sufficient size to accommodate cables to be connected. Cable boxes shall have suitable removable side/top cover to facilitate cable termination and inspection.
732.	<b>220913_Lot1_RAT_TS,</b> <b>220913_Lot2_NBW_TS,</b> <b>220913_Lot3_NDM_TS</b> <b>CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION</b>	We understand that, Bushing (HV,MV,TV, Neutral) terminations is through oil-to-air bushings. Kindly confirm	Confirmed. Oil to air bushings are required.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	Cl. 3.5 Terminal Arrangement, b		
733.	Not used.		
734.	<b>220913_Lot1_RAT_TS,  220913_Lot2_NBW_TS,  220913_Lot3_NDM_TS  CHAPTER 3: AUTO-TRANSFORMER  SPECIFICATION  Cl. 3.3 b  &amp;  Cl. 3.8 ii</b>	Both clauses are contradictory. Please confirm temperature rise requirement of avg. winding, top oil and hot-spot winding rise.	The following is confirmed. <ol style="list-style-type: none"> <li>1. Top oil temperature rise: 50° C.</li> <li>2. Winding temperature rise: 55° C</li> <li>3. Hottest spot winding temperature rise: 90° C.</li> </ol> MCA-Nepal may issue an addendum to the bidding document to correct Cl 3.9 a ii after approval from the authority.
735.	Not used.		
736.	<b>220913_Lot1_RAT_TS,  220913_Lot2_NBW_TS,  220913_Lot3_NDM_TS  CHAPTER 3: AUTO-TRANSFORMER  SPECIFICATION  Cl. 5.2 note C. i</b>	We understand that, this is a requirement for 400kV and above OIP bushings only. Please confirm.	MCA-Nepal may issue an addendum to the bidding document after approval of the authority with following: <p>Bushing (Type Test as per IEC:60137 including Snap back &amp; Seismic test for 400 kV and above voltage class bushing)</p> <p>Bushing (Type Test as per IEC:60137 including Snap back &amp; Seismic test for 400 kV and above voltage class bushing)</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
737.	<p>220913_Lot1_RAT_TS, 220913_Lot2_NBW_TS, 220913_Lot3_NDM_TS <b>CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION &amp; Cl. 5.2 note C. v</b></p> <p><b>Bidding Document Technical Data Sheet- Technical Data Sheet Sl.No.6</b></p> <p><b>Auto Transformer Technical Data Sheet</b></p>	<p>Considering following disadvantages while using oil pumps, We offer ONAN/ONAF1/ONAF2 cooling instead of ONAN/ONAF/OFAF cooling,</p> <ol style="list-style-type: none"> <li>1. Oil pumps often require a separate foundation for supporting pump and attached large pipe network from ground.</li> <li>2. Oil pumps need continual maintenance during operation as for any rotary equipment. Since hot oil is continuously circulated through it, frequent monitoring is required for any oil leakage.</li> <li>3. Oil pumps consume more auxiliary power in comparison to corresponding consumption by extra cooling fans required in the event of eliminating oil pump.</li> <li>4. In case of a gasket leak during service, air can be sucked through pipe joints in the suction side of pumps which gets mixed up with circulating oil and can be an entry point for moisture into transformer. Several gasket joints in pipe network result in many such moisture entry points.</li> <li>5. In case of shifting of transformer from one location to another location, pumps and its pipe network require proper handling and care.</li> <li>6. We have supplied up to 500MVA 400kV with ONAN/ONAF1/ONAF2 cooling to various utilities in India.</li> </ol> <p>Customer to kindly review and accept the same. Note that mis-operation of buchholz relay is not applicable in case of proposed ONAN/ONAF1/ONAF2 cooling.</p>	All three modes of cooling allowed.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
738.	<b>220913_Lot1_RAT_TS,</b> <b>220913_Lot2_NBW_TS,</b> <b>220913_Lot3_NDM_TS</b> <b>CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION</b> <b>Cl. 5.2 note C. viii</b>	PRD operation check will be done by air separately without mounting on Transformer.	Agreed. Test report to be submitted.
739.	<b>220913_Lot1_RAT_TS,</b> <b>220913_Lot2_NBW_TS,</b> <b>220913_Lot3_NDM_TS</b> <b>CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION</b> <b>Cl. 6, Table 8</b>	<p>The items specified in the Table 8 is not covered in Prices Schedule. We request to confirm which requirement is to be followed.</p> <p>In case the requirement mentioned in table 8 to be supplied by contractor, Kindly amend the price schedule accordingly.</p>	<p>MCA-Nepal will issue an addendum to the bidding document in the price schedule after approval from the authority.</p> <p>However please note that the purpose of price schedule 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 the Work stated under Employer's Requirements based on the Conditions of Contract</p>
740.	<b>Bidding Document Technical Data Sheet</b> <b>Auto Transformer Technical Data Sheet</b> <b>Technical Data Sheet Sl.No.17.2</b>	We understand that, tap changer is required for HV variation and is located at common end of series winding to achieve constant ohmic impedance requirement. Please confirm.	On Load Tap changer shall be provided for variation of voltage on HV side of +/- 10% using 17(8 plus, 8 minus, nominal) steps of 1.25% each, provided on common end of series winding. It shall be of constant flux voltage variation type as per CI.3.2 of IS:2026 Part- IV-1977
741.	<b>220913_Lot1_RAT_TS,</b> <b>220913_Lot2_NBW_TS,</b> <b>220913_Lot3_NDM_TS</b> <b>CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION</b>	Both clauses are contradictory. As per Technical specification 8gas + moisture online DGA is required and as per technical data sheet 4 gas GE-HYDRAN M2 or equivalent model is required. Please confirm which one to follow.	Kindly adhere to the requirement stated in Clause 3.14 of Chapter 3 Auto Transformer. The ambiguity in the bidding document will be corrected through issuing

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<b>3.14. DISSOLVED GAS AND MOISTURE MONITOR table 6 &amp; Bidding Document Technical Data Sheet SI.No.25 Auto Transformer Technical Data Sheet</b>		an addendum to the bidding document, after receiving approval from authority.
742.	<b>221123_Lot1_RAT_PSR, 221123_Lot2_NBW_PSR, 221123_Lot3_NDM_PSR</b> <i>Seismic Condition</i> <i>Seismic Acceleration</i> (PGA: peak ground acceleration) 0.50 g	Please confirm seismic acceleration value. Mentioned acceleration is high. We propose to offer RIP bushing due to high seismic acceleration.	The requirements in the bid document cannot be changed. The Contractor to demonstrate withstand ability of the whole transformer including bushings to seismic activities
743.	<b>Part 2: Employer's Requirements Section V – B0 (General Technical Requirement) Cl. 10 TYPE TESTING, INSPECTION, TESTING &amp; INSPECTION CERTIFICATE</b>	For Power/ Auto Transformers, please confirm if the tests reports of similar or higher rating transformer are acceptable.	The test report of higher rating transformer might not acceptable. Please note that the type test should be as per IEC 600076.
744.	<b>General Short Circuit (S.C) withstand</b>	We do not envisage any S.C test for the transformer. Also, we do not envisage any SC similarity as per IEC 60076 Part -5. We will submit S.C withstand calculations in the event of order to demonstrate S.C capability of the transformer. Kindly confirm	Each transformer is a custom design unless the design is identical. Therefore, type tests on the first unit are compulsory. OEM should demonstrate that it has already performed SC tests to verify its design.
745.	<b>General Type test</b>	We do not envisage repetition of type test for transformer accessories. Type test report available for transformer accessories shall be submitted for reference purpose without any limitation on validity.	The requirement of Type test report for transformer accessories will be issued through issuance of an addendum to the bidding document after receiving approval from the authority.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
			MCA-Nepal is anticipating including in the bidding document the requirement as follows: Type test report for transformer accessories should not be more than 5 years old.
746.	<b>Section IV. Bid Submission Forms</b> <b>CI 13.8 Adjustment for Changes in Cost</b>	Price adjustment formula specified for Auto Transformers, Gas Insulated Switchgear (GIS), Earthing System, LV/HV Power Cable and Control Cable has specified fixed and variable component. This 60%/50%/70%/50% variation is covers variation of only Copper/Ferrous/ Aluminium Steel. This won't cover manufacturer's full exposure towards commodity price variation. There are other components like Mild Steel (MS), Oil, Insulation and Labour etc. which are also plays major role in composition. In last two years, price of raw materials and international transportation has increased significantly and still their behaviour is highly volatile. Hence, we request you to consider price variation of these commodities as well and reduce fixed component to reasonable value. Also, we recommend to follow IEEMA price variation formula for this."	The price adjustment formula in the bid document cannot be changed.
747.	<b>Chapter 10, Control and Relay Panel</b> <b>S2 TS CRP Port RATMATE Substation.</b> <b>2.5 Bus Protection</b>	For Busbar Protection scheme for 220 kV & 400 kV Voltage level shall be redundant i.e. whether we have to provide Bus differential relay main 1 and main 2 relays of different manufacturer. Busbar Protection scheme for Substation is considered as Centralized Busbar Protection scheme.	The requirement of the manufacturer will be determined during detailed engineering subject to the approval of Engineer. Busbar Protection scheme will be centralized such that it is ensured that tripping can happen on the faulted bus even if one of the system is out of service

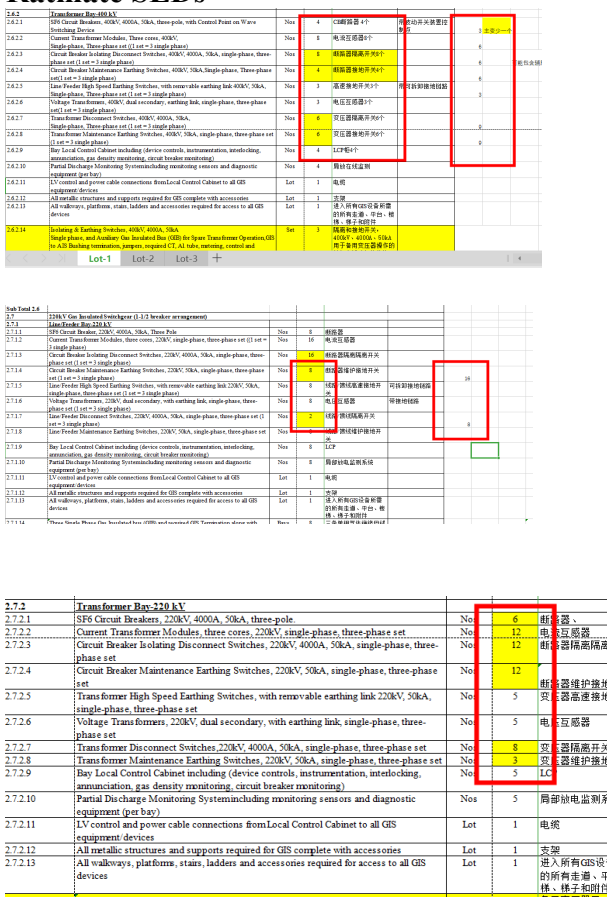


SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
748.	<b>BOQ Lot 1 RAT Base &amp; Option</b> <b>2.8.4.10 400 kV Metering,</b> <b>2.8.4.11 220 kV Metering</b>	Detailed Technical specification of Power Quality and Energy Meter is required. Technical specification for same is missing. Kindly provide the details.	MCA-Nepal will issue an addendum to the bidding document to include the technical specifications of power quality and energy meter after approval from the authority.
749.	<b>221123_Lot 2 NBW_PS Base/ Option</b> <b>2.7.4.10 &amp; 2.7.4.11</b> <b>400 kV Metering &amp; 220kV Metering</b>	We understand there is no separate metering requirement for the package. As per the technical specification we shall provide power quality & energy meter only	Your understanding is correct
750.	<b>BOQ Lot 1 RAT Base</b> <b>Clause No. 2.8.4, 2.8.4.1, 2.8.4.2, 2.8.4.3, 2.8.4.4, 2.8.4.5</b> <i>SAS Operator Station for control of 400/220/33 kV: 1 Set</i> <i>Substation Automation System (SAS) for 400 kV System per diameter: 4 Set</i> <i>Substation Automation System (SAS) for 220kV System per diameter: 2 Set</i> <i>Substation Automation System (SAS) for 33kV System per feeder: 2 Set</i> <i>Substation Automation System (SAS) for Auxiliary System: 1 Set</i>	Considered the supply of single set of Substation Automation System accommodating all the bay of 400 kV, 220 kV & 33 kV level. Kindly confirm	Confirmed.
751.	<b>Chapter 10, Control and Relay Panel</b> <b>Ch 10 S1-S2 TS CRP NBW</b> <b>2.5 Bus Protection</b>	For Busbar Protection scheme for 220 kV & 400 kV Voltage level shall be redundant i.e. whether we have to provide Bus differential relay main 1 and main 2 relays of different manufacturer. Busbar Protection scheme for Substation is considered as Centralized Busbar Protection scheme. Kindly confirm.	The requirement of the manufacturer will be determined during detailed engineering subject to the approval of Engineer. Busbar Protection scheme will be centralized such that it is ensured that tripping can happen on the faulted bus even if one of the system is out of service
752.	<b>BOQ Lot 2 NBW Base</b> <b>2.7.4.10: 400 kV Metering</b> <b>2.7.4.11: 220kV Metering</b>	Detailed Technical specification of Power Quality and Energy Meter is required. Technical	MCA-Nepal will issue an addendum to the bidding document to include the technical

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		specification for same is missing. Kindly provide the details	specifications of power quality and energy meter after approval from the authority.
753.	<p><b>BOQ Lot 2 NBW Base</b>  <b>Clause No. 2.7.4, 2.7.4.1, 2.7.4.2, 2.7.4.3, 2.7.4.4</b>  <i>SAS Operator Station for control of 400/220/33 kV: 1 Set</i>  <i>Substation Automation System (SAS) for 400 kV System per diameter: 3 Set</i>  <i>Substation Automation System (SAS) for 33kV System per feeder: 2 Set</i>  <i>Substation Automation System (SAS) for Auxiliary System: 1 Set</i></p>	Considered the supply of single set of Substation Automation System accommodating all the bay of 400 kV, 220 kV & 33 kV level.	Confirmed.
754.	<p><b>Ch 11 S1-S2 TS CRP (Control and Relay Panel)</b>  <b>2.5 Bus Protection</b>  <i>Bus protection shall be redundant at the 220 and 400 kV voltage level.</i>  <i>This fully redundant system shall comprise a microprocessor - based low impedance percentage-slope differential bus protection scheme.</i>  <i>The design shall ensure tripping can happen on the faulted bus, even if one of the systems is out of service.</i></p>	For Busbar Protection scheme for 220 kV & 400 kV Voltage level shall be redundant i.e. whether we have to provide Bus differential relay main 1 and main 2 relays of different manufacturer. Busbar Protection scheme for Substation is considered as Centralized Busbar Protection scheme.	The requirement of the manufacturer will be determined during detailed engineering subject to the approval of the Engineer. Busbar Protection scheme will be centralized such that it is ensured that tripping can happen on the faulted bus even if one of the systems is out of service
755.	<p><b>BOQ Lot 3 New Damauli</b>  <b>2.7.3.9: 400 kV Metering</b></p>	Detailed Technical specification of Power Quality and Energy Meter is required. Technical specification for same is missing.	MCA-Nepal may issue an addendum to the bidding document to include the technical specifications of power quality and energy meter after approval from the authority.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)																				
756.	<p><b>BOQ Lot 3 New Damauli</b>  <b>Clause No. 2.7.3, 2.7.3.1, 2.7.3.2, 2.7.3.3, 2.7.3.4, 2.7.3.5</b>  <i>SAS Operator Station for control of 400/220/33 kV: 1 Set</i>  <i>Substation Automation System (SAS) for 400 kV System per diameter: 3 Set</i>  <i>Substation Automation System (SAS) for 33kV System per feeder: 2 Set</i>  <i>Substation Automation System (SAS) for Auxiliary System: 1 Set</i></p>	<p>Considered the supply of single set of Substation Automation System accommodating all the bay of 400 kV, 220 kV &amp; 33 kV level.</p>	<p>Only 400kV and 33kV as NDSS wishes to have its separate SAS.</p>																				
757.	<p><b>GIS_Lot1_RAT_TS&amp;GIS_Lot2_NBW_TS &amp;GIS_Lot3_NDM_TS</b>  <b>P26</b></p> <p><u>Bushing Insulation Properties</u></p> <table border="1" data-bbox="237 784 808 995"> <thead> <tr> <th>System Nominal Voltage</th> <th>Bushing IIL</th> </tr> </thead> <tbody> <tr><td>69kV</td><td>350kV</td></tr> <tr><td>115kV</td><td>550kV</td></tr> <tr><td>138kV</td><td>650kV</td></tr> <tr><td>161kV</td><td>900kV</td></tr> <tr><td>230kV</td><td>1050kV</td></tr> <tr><td>345kV</td><td>1300kV</td></tr> <tr style="border: 2px solid red;"><td>400kV</td><td>1550kV</td></tr> <tr><td>500kV</td><td>1800kV</td></tr> <tr><td>765kV</td><td>2050kV</td></tr> </tbody> </table>	System Nominal Voltage	Bushing IIL	69kV	350kV	115kV	550kV	138kV	650kV	161kV	900kV	230kV	1050kV	345kV	1300kV	400kV	1550kV	500kV	1800kV	765kV	2050kV	<p>The insulation level of the 420 station is 1425KV, and the insulation level of the 420KV in the IEC standard is 1425. Please clarify whether the insulation performance of the bushing is implemented in accordance with the IEC standard 1425KV.</p> <p>It is suggested that to follow the IEC standard values.  Kindly confirm.</p>	<p>The insulation level in the bidding document will be corrected through issuing an addendum to the bidding document, after receiving approval from the authority</p>
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758.	<b>Technical Data Sheet - Lot-01&amp;Technical Data Sheet - Lot-02&amp;Technical Data Sheet - Lot-03</b> <b>420KV GIS: 2.6 Rated lightning impulse withstand voltage (1.2 / 50 μs)(+bias) 1425(+457)KV"</b>	<p>The specified value in the IEC 62271-203 standard is 1425 (+240) KV, please confirm whether it can be performed in accordance with the specified value of the IEC standard.</p> <p>It is suggested that to follow the IEC standard values. Kindly confirm.</p>	<p>The insulation level in the bidding document will be corrected through issuing an addendum to the bidding document, after receiving approval from authority</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
759.	<p><b>MCA Nepal BoQ - GIS ; Ratmate SLDs</b></p> 	<p>The number of components described in the BOQ and the SLD in the tender is different</p> <p>1. IN the BOQ table of LOT 1, there are 4 main transformer intervals CB for 400KV substations, while the number on the SLD is 3, it is one nos less than BOQ. The number of current transformer, circuit breaker, isolation switch and earthing switch is also different.</p> <p>2. The number of outlet interval circuit breaker maintenance earthing switches for the 200KV substation in the BOQ table of LOT 1 does not correspond to the SLD. ;</p> <p>3. In the BOQ table of LOT 1, there are 6 CB intervals in the main variable interval BOQ of the 200KV substation; however, there are 5 in the SLD, and the number of component is also not match.</p> <p>Please clarify whether the supply is subject to BOQ or the SLD.</p>	<p>MCA-Nepal will issue an addendum to the Price Schedule after approval from the authority.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
760.	<p><b>MCA Nepal BoQ - GIS, Lot-1 :</b>  <b>2.6.2.14 Isolating &amp; Earthing Switches, 400kV, 4000A, 50kA Single phase, and Auxiliary Gas Insulated Bus (GIB) for Spare Transformer Operation, GIS to AIS Bushing termination, jumpers, required CT, Al. tube, metering, control and protection as required all complete. 33kV isolators, 33kV cables , jumpers as required all complete.</b></p>	<p>We think “GIS to AIS Bushing termination, jumpers, required CT, Al. tube, metering, control and protection as required all complete. 33kV isolators, 33kV cables , jumpers as required all complete ”It belongs to equipment other than GIS and is not within the scope of supply of GIS manufacturers.</p> <p>Please confirm.</p>	<p>Isolating &amp; Earthing Switches, 400kV, 4000A, 50kA Single phase, and Auxiliary Gas Insulated Bus (GIB) for Spare Transformer Operation, GIS to AIS Bushing termination, jumpers, required CT, Al. tube, metering, control and protection as required all complete. 33kV isolators, 33kV cables, jumpers as required all complete is under current scope of work</p>
761.	<p><b>MCA Nepal BoQ - GIS, Lot-1 :</b>  <b>2.14.1.13 400kV GIS Laptop computer with specialized software for GIS setting and monitoring.</b>  <b>2.14.1.14 220kV GIS Laptop computer with specialized software for GIS setting and monitoring.</b>  <b>MCA Nepal BoQ - GIS, Lot-2 :</b>  <b>2.13.1.7 400kV GIS Laptop computer with Specialized software for GIS setting and monitoring.</b>  <b>MCA Nepal BoQ - GIS, Lot-3 :</b>  <b>2.13.1.7 400kV GIS Laptop computer with Specialized software for GIS setting and monitoring.</b></p>	<p>The GIS main body does not have monitoring software, please confirm if this part of the supply is for the local online monitoring system or not.</p> <p>Please confirm.</p>	<p>Confirmed. Also, please refer to PD discharge monitoring as per requirements of TS.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)																																																																																																																		
762.	<p><b>Technical Data Sheet - Lot-01&amp;Technical Data Sheet - Lot-02&amp;Technical Data Sheet - Lot-03</b>  <b>420KV GIS:</b></p> <table border="1" data-bbox="205 358 724 662"> <tr> <td></td> <td></td> <td>N/A</td> <td>2.0 at T100</td> <td></td> <td></td> </tr> <tr> <td>2.23.</td> <td>TRV peak value terminal fault</td> <td>kV</td> <td>817 at T100</td> <td></td> <td></td> </tr> <tr> <td>2.24.</td> <td>TRV peak value short line fault</td> <td>kV</td> <td>629 at T100</td> <td></td> <td></td> </tr> <tr> <td>2.25.</td> <td>TRV peak value out-of-phase</td> <td>kV</td> <td>1120 at T100</td> <td></td> <td></td> </tr> <tr> <td>2.26.</td> <td>Rate of rising of recovery voltage (RRRV) terminal fault</td> <td>kV/ μs</td> <td>2 at T100</td> <td></td> <td></td> </tr> <tr> <td>2.27.</td> <td>Rate of rising of recovery voltage (RRRV) short-line fault</td> <td>kV/ μs</td> <td>2 at T100</td> <td></td> <td></td> </tr> <tr> <td>2.28.</td> <td>Rate of rising of recovery voltage (RRRV) out-of-phase</td> <td>kV/ μs</td> <td>1.54 at T100</td> <td></td> <td></td> </tr> <tr> <td>2.29.</td> <td>TRV peak value T60</td> <td>kV</td> <td>876</td> <td></td> <td></td> </tr> <tr> <td>2.30.</td> <td>TRV peak value T30</td> <td>kV</td> <td>899</td> <td></td> <td></td> </tr> <tr> <td>2.31.</td> <td>TRV peak value T10</td> <td>kV</td> <td>1030</td> <td></td> <td></td> </tr> </table>			N/A	2.0 at T100			2.23.	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Please confirm whether the TRV can be performed in accordance with the 420KV value specified in the IEC standard</p> <table border="1" data-bbox="814 431 1413 686"> <tr> <td>2.23.</td> <td>TRV peak value terminal fault<sup>(1)</sup></td> <td>kV<sup>(2)</sup></td> <td>817 at T100<sup>(2)</sup></td> <td>624<sup>(2)</sup></td> <td>6<sup>(2)</sup></td> </tr> <tr> <td>2.24.</td> <td>TRV peak value short line fault<sup>(1)</sup></td> <td>kV<sup>(2)</sup></td> <td>629 at T100<sup>(2)</sup></td> <td>488<sup>(2)</sup></td> <td>6<sup>(2)</sup></td> </tr> <tr> <td>2.25.</td> <td>TRV peak value out-of-phase<sup>(1)</sup></td> <td>kV<sup>(2)</sup></td> <td>1120 at T100<sup>(2)</sup></td> <td>857<sup>(2)</sup></td> <td>6<sup>(2)</sup></td> </tr> <tr> <td>2.26.</td> <td>Rate of rising of recovery voltage (RRRV) terminal fault<sup>(1)</sup></td> <td>kV/ μs<sup>(2)</sup></td> <td>2 at T100<sup>(2)</sup></td> <td>2<sup>(2)</sup></td> <td>6<sup>(2)</sup></td> </tr> <tr> <td>2.27.</td> <td>Rate of rising of recovery voltage (RRRV) short-line fault<sup>(1)</sup></td> <td>kV/ μs<sup>(2)</sup></td> <td>2 at T100<sup>(2)</sup></td> <td>2<sup>(2)</sup></td> <td>6<sup>(2)</sup></td> </tr> <tr> <td>2.28.</td> <td>Rate of rising of recovery voltage (RRRV) out-of-phase<sup>(1)</sup></td> <td>kV/ μs<sup>(2)</sup></td> <td>1.54 at T100<sup>(2)</sup></td> <td>1.54 at T100<sup>(2)</sup></td> <td>6<sup>(2)</sup></td> </tr> <tr> <td>2.29.</td> <td>TRV peak value T60<sup>(1)</sup></td> <td>kV<sup>(2)</sup></td> <td>876<sup>(2)</sup></td> <td>669<sup>(2)</sup></td> <td>6<sup>(2)</sup></td> </tr> <tr> <td>2.30.</td> <td>TRV peak value T30<sup>(1)</sup></td> <td>kV<sup>(2)</sup></td> <td>899<sup>(2)</sup></td> <td>687<sup>(2)</sup></td> <td>6<sup>(2)</sup></td> </tr> <tr> <td>2.31.</td> <td>TRV peak value T10<sup>(1)</sup></td> <td>kV<sup>(2)</sup></td> <td>1030<sup>(2)</sup></td> <td>787<sup>(2)</sup></td> <td>6<sup>(2)</sup></td> </tr> </table>	2.23.	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763.	<p><b>Price Schedule</b>  <b>Mandatory Spare Parts</b>  <b>2.14.1.2 Capacitive voltage transformer, 400kV: 1 No</b>  <b>2.14.1.3 Current transformer, 400kV : 1 No</b>  <b>2.14.1.4 Current transformer, 220kV: 1 No</b>  <b>2.14.1.5 Current transformer, 72.5kV : 1 No</b></p>	<p>We understand that under this line items contractor needs to supply the 1 no highest rated equipment against each line items.</p>	<p>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 Bidders shall quote the prices to comply with the Employer's Requirements as well as with the Technical Specifications.</p>																																																																																																																		

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764.	<p>220913_Lot1_RAT_TS 220913_Lot1_RAT_TS 220913_Lot3_NDM_TS</p> <p><b>Chapter 2 : Outdoor Switchgear Specification</b> <b>Section 2 : Isolators and Earthing Switches Specification</b></p>	<p>As per Isolator specification "The insulators shall conform to or IEC 60168. The porcelain of the insulator shall conform to the requirements stipulated in IEC and shall have a minimum cantilever strength of 600 Kgs.</p> <p>Please note that in case of 220kV Disconnecter required at Butwal AIS substation, minimum cantilever strength required for Insulator for 220kV Isolator shall be of 800 Kgs. Kindly amend and confirm.</p>	Confirmed.
765.	<p><b>Technical Specification</b> <b>Chapter 12: Telecommunications Specification (Page 7/52)</b> <b>2.1. c General Network Characteristics</b></p> <p><b>2.2. b Transmission Equipment</b></p>	<p>As current NEA network is of STM-04 capacity. So connectivity with new node of STM-16 is not compatible. As per NEA standard specification they are migrating to MPLS system. According to NEA technical specifications "<u>Communication equipments calls for SDH features with STM – 4 MADM upto 4 MSP Protected directions as well as MPLS – TP functionality with 10G capacity 4 MSP Protected directions along suitable optical line interfaces &amp; tributary cards.</u>" Please confirm that this is acceptable and applicable for this project.</p>	To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.
766.	<p><b>Technical Specification</b> <b>Chapter 12: Telecommunications Specification (Page 7/52)</b> <b>2.1. f General Network Characteristics</b></p>	<p>Please confirm the availability of spare optical port at remote NEA substations for connectivity of new node.</p>	Bidders are requested to do an independent analysis to suffice to the technical specifications and fulfill the scope of works as stated in the bidding document



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767.	<b>Technical Specification</b> <b>Chapter 12: Telecommunications</b> <b>Specification (Page 7/52)</b> <b>2.1. General Network Characteristics, h and j</b>	<p>Nowadays all applications run on IEC-104 protocol and PDH add drop multiplexer (IEC-101) and low speed data cards are now obsolete and NEA is also not buying it anymore.</p> <p>Please confirm that this is not required.</p>	<p>Kindly adhere to the requirements of the bidding document.</p>
768.	<b>Technical Specification</b> <b>Chapter 13: Telephone System</b> <b>Specification(Page 39/52)</b>  <b>2. Equipment Technical Particularities, b and k</b>	<p>Please confirm E1 card availability at existing NEA s/s with make and model of EPABX</p>	<p>Interface to be coordinated by the Engineer at the execution stage.</p>
769.	<b>Technical Specification</b> <b>Chapter 13: Telephone System</b> <b>Specification(Page 44/52)</b>  <b>2.5.2. Analogue Subscriber Phone</b>	<p>Please confirm that analog phones are not required, and IP phones have to be supplied.</p>	<p>The Contractor to abide by the requirements and supply analogue phone as well as IP phones.</p>
770.	<b>221123_Lot2_NBW_PSR</b>  <b>3.8 AUTOMATION AND TELECOMMUNICATION SYSTEM</b>	<p>We understand that the 220kV Bays are required to be integrated with existing SAS at NEA 220kV Butwal Station. Kindly confirm. Also confirm the existing SAS at NEA Butwal station.</p>	<p>Yes. However, the contractor needs to maintain necessary coordination with the existing 220kV S/S during implementation for full functioning of the system.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
771.	<b>221123_Lot2_NBW_PSR</b> <b>3.9 CONTROL AND PROTECTION</b>	We understand that the 220kV Bays are required to be integrated with existing busbar protection at NEA 220kV Butwal Station. Kindly confirm. Also confirm the existing busbar protection at NEA Butwal station.	Yes. However, the contractor needs to maintain necessary coordination with the existing 220kV S/S during implementation for full functioning of the system.
772.	<b>Requirement of Approach Road</b>	<p>We understand that there is a requirement of additional approach road to the site plot.</p> <p>We understand the required ROW shall be provided by MCA. Kindly confirm.</p> <p>Request to add separate line item in price schedule for the same mentioning the requirement in meters and width required.</p>	<p>Bidders are advised to refer to Clause 5 Site Accessibility under Section V-B0 (Project General Description). Additionally, Bidders are advised to do their own analysis to find the details and conditions of the access road to prepare a suitable proposal.</p> <p>MCA-Nepal may issue an addendum to the bidding document after the approval from the authority for the prices schedule.</p> <p>However, please note that the purpose of the price schedule 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 the Work stated under the 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)
773.	<b>Indoor Illumination Line Item missing for Control Room, GIS</b>	Request to kindly add the line item in price schedule for Illumination for Control Room & 400kV GIS Room	<p>MCA-Nepal may issue an addendum to the bidding document to include the illumination for control room and GIS room after the approval from the authority for the prices schedule.</p> <p>However, please note that the purpose of the price schedule 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 the Work stated under Employer's Requirements based on the Conditions of Contract</p>
774.	<b>221031_Lot 2 NBW_PS Base/ 221031_Lot 2 NBW_PS Option BOM 2.1.7 400kV Surge Arrestor</b>	<p>We understand outdoor SA required only for 400kV Outgoing line bays and not for 400kV Transformer bays. Kindly confirm.</p> <p>If required for Transformer Bays, kindly amend the price schedule accordingly.</p>	<p>The Bidders are requested to follow the technical specifications and project specific requirements.</p> <p>MCA-Nepal will issue an addendum to the price schedule after approval from the authority.</p> <p>The Bidder shall quote the price under the Price Schedule required to carry out the work stated under the Employer's Requirements.</p>

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775.	<b>221031_Lot 2 NBW_PS Base/ 221031_Lot 2 NBW_PS Option BOM 2.2.1</b> <i>Gantry Column for 400 kV Incoming Line: 5 Nos and Layout requirement</i>	It should be 6 nos as per layout whereas 5 Nos as per the Price schedule. Kindly confirm and amend	<p>MCA-Nepal will issue an addendum to the price schedule after approval from the authority.</p> <p>The Bidder shall quote the price under the Price Schedule required to carry out the work stated under the Employer's Requirements.</p>
776.	<b>221031_Lot 2 NBW_PS Base/ 221031_Lot 2 NBW_PS Option BOM 2.2.2 &amp; 2.2.4</b> <i>Gantry Column for 220 kV Incoming Line &amp; Gantry Girder for 220 kV Incoming Line</i>	Its should be 5 Nos of Gantry Column and with 4 Nos of Girder as per Layout. Kindly confirm and amend	The price schedule is correct. However, The Bidder shall quote the price under the Price Schedule required to carry out the work stated under the Employer's Requirements.
777.	<b>221031_Lot 2 NBW_PS Base/ 221031_Lot 2 NBW_PS Option Price Schedule, Mandatory Spares for 630kVA Transformer BOM 2.14.3.7 3-Phase 11 kV Horn Gap Fuse</b>	We understand this will be 33kV instead of 11kV. Kindly amend	Correct. MCA-Nepal will issue an addendum to the price schedule after obtaining approval from the authority.
778.	<b>Technical Specification Chapter 6: Control and Power Cable Specification CI No. 1.2 a) vii</b>	<p>As per cl.no. 1.2.-vii- ARMOUR: Strip wire armouring method shall not be accepted for any of the cables.</p> <p>So please confirm only round wire armour is required for all the cables or only for Control cables we need to consider Round wire armouring.</p>	<p>As per TS, Strip wire armouring method shall not be accepted for any of the cables.</p> <p>For control cables only round wire armouring shall be used.</p> <p>Please note that strip wire armouring is not acceptable for any kind of armouring.</p>

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779.	<p><b>PSR-Civil Works</b>  <b>3.17.2.14 SPECIFIC CIVIL WORKS IN THE SUBSTATION</b></p>	<p>Construction of all internal and external drainage and substation flood protection works, as well as river protection works have to be carried out in conformity to the flood risk assessment following the hydrological study.</p> <p>The Butwal GIS substation is being adjacent to an existing NEA substation, and the nearest river being 25km away from the site and no Fluvial Flood risk is envisaged, we understand the Hydrology Study Report is not required for Butwal substation. Kindly confirm.</p>	<p>The provision in the bidding documents cannot be changed.</p> <p>There are small rivers both on the east and west side of the substation. Hydrological study that includes the flood flow analysis is a must in the case the sub-station that lies adjacent to small river or rivulets. MCA-Nepal will issue an addendum regarding the hydrological study that need to be done by the contractor at New Butwal Substation after approval form the authority.</p>
780.	<p><b>Section V – B1 (Project Specific Requirement)</b>  <b>Site transportation</b></p>	<p>We understand that the vehicle mentioned under the said clause shall be in the name of MCA Nepal. Kindly confirm.</p> <p>We understand that all taxes related to the procurement &amp; maintenance (Custom Duty, Road Taxes, VAT, Service Tax etc.) shall be exempted for the said vehicles. Kindly confirm.</p>	<p>The price of vehicle mentioned under the said clause is deemed to have been included in the scope of the bidding document and the Contractor could purchase/import these vehicles in its own name for the purpose of utilizing them in the Construction activities under the Contracts awarded by MCA-Nepal.</p> <p>So long as the goods are utilized in the Construction activities under the Contracts awarded by MCA-Nepal, the tax exemptions will be governed by Section 2.8 of the Compact read along with Annex – VII of the Compact.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
781.	<b>Section III. Qualification and Evaluation Criteria</b> <i>Resident Project Director</i> <i>Resident Construction Manager-Electrical:</i> <i>Resident Construction Manager-Civil:</i> <i>Resident LDC (Load Dispatch Centre) Integration and SCADA specialist:</i> <i>Resident Commissioning Engineer</i> <i>Resident Engineer-Planning:</i>	We understand that the said persons can be work remotely and not required to be at site for the complete duration of project. The said persons shall be available at site as and when required as per the final execution plan agreed with MCA before the start of execution.	Your understanding is correct.
782.	<b>221123_Lot2_NBW_PSR</b> <b>CI No 3.17.2.5</b> <i>TEMPORARY SITE INSTALLATION WORKS</i> <i>Temporary roads..... shall be constructed as necessary for the execution of works;</i>	We understand that the said road is to be constructed inside the plot area. Kindly confirm.	Temporary roads, parking areas, and fences shall be constructed as necessary for the execution of work inside or outside the plot area as per the requirements, in coordination with Engineer.
783.	<b>221123_Lot2_NBW_PSR</b> <b>CI No 3.19.5 Access</b>	We understand that the for the equipment storage, the required space for open, semi closed & closed storage shall be available inside the plot boundary. Kindly confirm  We do not envisage any requirement of separate store yard for storing materials. Kindly confirm"	The Contractor is suggested to plan adequately for the storage yard etc. during the course of execution at the site. However, the Contractor will have the responsibility to acquire or lease the land at his cost for its temporary office, laydown area and storage yards at appropriate locations consistent with its deployment and work performance strategy, and in locations, if required, compliant with the provisions of the ESHSMP and approved by the Engineer and the Employer.
784.	<b>221123_Lot2_NBW_PSR</b>  <b>CI No 3.19.5 Access</b>	In case of any unforeseen conditions or force majeure event, which destroys the existing roads or bridges, the contractor shall not be responsible for making up of any national/ state/ local body roads	This shall be governed as per GCC 4.15.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>and bridges. Further contractor shall make efforts for alternate road routes for safe receipt of materials at site. Kindly confirm the understanding.</p> <p>In case no alternate routes are available, required time and cost compensation shall be provided as per the conditions of Force majeure mentioned in the bid document.</p>	<p>Any loss or damage to any part of the Works (including access or temporary roads) due to any natural event occurring prior to the date of issue of the Taking-Over Certificate shall be covered by insurance to be taken out by the Contractor as per the provisions of GCC 18.2 c).</p> <p>Thus, the Contractor shall make efforts for alternate road routes for safe receipt of materials at site.</p>
785.	<b>Request for Time Extension</b>	We request to kindly consider an extension of 1 Month from the current bid due date	Requested is accepted and MCA-Nepal has already issued an addendum for 35-day time extension. Please refer the addendum #03.
786.	<b>Third Party Inspection</b>	Apart from the test witnessing / inspection of goods at Vendor works in presence of Employer / Contractors Representative. Is there any additional inspection to be carried out by the nominated inspection agency. The cost of the same is to the account of employer. Kindly confirm	The Contractor has to inquire for any specific inspection from an international agency (Such as SGS or Bureau Veritas) that may be required to transport the goods from the country of origin to final destination. Cost of such inspection is the responsibility of the Contractor.
787.	<b>Section VII - Particular Conditions of Contract, Clause No.-21, Taxes &amp; Duties</b>	<p>Please clarify and confirm the correctness of our Understanding that the following taxes are exempted for this project for Off Shore Supplies :</p> <ul style="list-style-type: none"> <li>(i) Customs duties,</li> <li>(ii) import duties</li> <li>(iv) VAT,</li> <li>(v) Other taxes &amp; levies</li> <li>(vi) Withholding Taxes</li> </ul>	Please refer to the Compact Section 2.8 (a) which states “Unless the Parties specifically agree otherwise in writing, the Government will ensure that all MCC Funding is free from the payment or imposition of any existing or future taxes, duties, levies,…” read along with Annex VII – Tax Schedules.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>vii) Ecowas Levy viii) Customs user fee</p>	<p>All 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 and other taxes mentioned in Schedule VII of the Compact</p>
788.	<p><b>Section VII - Particular Conditions of Contract, Clause No.-21, Taxes &amp; Duties</b></p>	<p>As per the said clause Taxes &amp; Duties are Exempted to Bidder/Contractor. In case of Bidder/Contractor, deploys a Local Subcontractor for Civil &amp; Installation then the Local Subcontractor is eligible for Exemption from Taxes. Please clarify.</p> <p>If not exempted to subcontractor in such case please clarify the Taxes applicable to Local Subcontractors.</p>	<p>Please refer to the Compact Section 2.8 (a) which states “Unless the Parties specifically agree otherwise in writing, the Government will ensure that all MCC Funding is free from the payment or imposition of any existing or future taxes, duties, levies,...” read along with Annex VII – Tax Schedules.</p> <p>All 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>



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			and other taxes mentioned in Schedule VII of the Compact.
789.	<b>Section VII - Particular Conditions of Contract, Clause No.-21, Taxes &amp; Duties</b>	Kindly clarify & confirm us whether Tax Exemption shall be applicable for the temporary importation of our Tools & Plants which will be taken back after completion of the Project.	<p>Please refer to the Compact Section 2.8 (a) which states “Unless the Parties specifically agree otherwise in writing, the Government will ensure that all MCC Funding is free from the payment or imposition of any existing or future taxes, duties, levies,...” read along with Annex VII – Tax Schedules.</p> <p>All 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 and other taxes mentioned in Schedule VII of the Compact.</p> <p>The Compact does not make any differentiation between temporary importation and permanent imports of any Capital Goods, inputs or raw materials.</p>

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790.	<b>Section VII - Particular Conditions of Contract, Clause No.-21, Taxes &amp; Duties</b>	Kindly clarify & confirm us whether Tax Exemption shall be applicable for the importation of Construction Material like Cement and Reinforcement steel for the Project.	<p>Please refer to the Compact Section 2.8 (a) which states “Unless the Parties specifically agree otherwise in writing, the Government will ensure that all MCC Funding is free from the payment or imposition of any existing or future taxes, duties, levies,...” read along with Annex VII – Tax Schedules.</p> <p>All 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 and other taxes mentioned in Schedule VII of the Compact.</p>
791.	<b>Type Test Reports</b>	Please confirm whether a complete set of type test reports of offered equipment to be included in the technical proposal or a list of type of test report with result pages of offered equipment in the technical proposal is acceptable.	Accepted.
792.	<b>Section IV. Bid Submission Forms Form TECH-10: List of Proposed Manufacturer and/or Supplier</b>	Kindly confirm, the bidder propose the Chinese manufactures in their bid?	Please refer to Part 13 of MCC Program Procurement Guidelines for detail.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
793.	<b>NEW BUTWAL 400/220/132/33/11kV SUBSTATION</b> <b>Drawing no : NBW-400</b>	The Quantities for Soil filling ,cutting was given in the drawing. Kindly confirm the bidder can consider these Quantities for their costing ?	The quantity provided in the drawings is only for references purposes. The Bidders need to perform their own analysis to validate the exact requirements of soil filling and cutting to complete the scope of works.
794.	<b>NEW DAMAULI 400/220/132kV SUBSTATION</b> <b>Drawing no : NBW-400 -1</b>	The Quantities for Soil filling ,cutting was given in the drawing. Kindly confirm the bidder can consider these Quantities for their costing ?	The quantity provided in the drawings is only for references purposes. The Bidders need to perform their own analysis to validate the exact requirements of soil filling and cutting to complete the scope of works.
795.	<b>New Damauli SS</b> <b>Price Schedule 4.3.4</b> <i>Living Quarters</i>	In layout drawing NDM-210-1, Living Quarters is mentioned. Kindly provide the size of the quarters building, share drawing of the building.	Living quarter mentioned in the drawing is for 220 kV side which is not under this scope.
796.	<b>New Damauli SS</b> <b>Price Schedule 4.3.4.4</b> <i>Living Quarters</i>	No separate line item is given in the price schedule for the Living quarters, specify. Clarify if the Living quarters & the Substation should be in same elevation?	Living quarter for the substations is not under this scope.
797.	<b>New Damauli SS</b> <b>Price Schedule 4.2.3 to 4.2.6</b> <b>Soil Works</b>	In grading plan drawing NDM-400-1, volume of earthworks is mentioned. Clarify if these quantities are final to be considered for estimation.	The quantity provided in the drawings is only for reference purposes. Bidders need to perform their own analysis and study to validate the exact requirement of volume of earthwork to complete the scope of works
798.	<b>New Damauli SS</b> <b>Price Schedule 4.3.2.2</b> <b>Internal Paving</b>	What is the type of road to be considered inside the Substation? Clarify if it is Bituminous road (or) Concrete road.	The type and specifications of internal road shall be as per the requirements defined in the topic ROADS of Section 1: General Civil Works Specification of Chapter 10:

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			Civil works Specifications of Technical Specifications documents.
799.	<b>New Damauli SS</b> <b>Price Schedule 4.3.2.11</b> <i>Substation Perimeter Fence</i>	In grading plan drawing NDM-400-1, plot entry access road is shown from <b>Chabdi Temple Road</b> . However, the living quarters is shown at far end of plot to be accessed through the substation only. Clarify if a separate entry to Living quarters is required, or the layout provided is final.	Living quarter mentioned in the drawing is for 220 kV side which is not part of this scope. The layout can be optimized for 400 kV side of the substation during detailed Engineering.
800.	<b>New Butwal SS</b> <b>Price Schedule 4.3.2</b> <b>Guard House</b>	As per Tender specification Cl.14.c, Item Security room is frame type with size mentioned as 3.0m x 3.0m. In layout drawing NBW-200-1 Guard house is mentioned as 5.0m x 5.0m. Confirm the actual size required for estimation.	The Security room shall be an RCC framed room of size 3 m X 3m and 3 m high with 1.5 m wide veranda shall be provided near the gate. Please refer to technical specifications for more details.  MCA-Nepal may issue an addendum to the bidding document as per above after obtaining approval from the authority.
801.	<b>New Butwal SS</b> <b>Price Schedule 4.3.1</b>	What is the type of road to be considered inside the Substation? Clarify if it is Bituminous road (or) Concrete road.	The type and specifications of internal road shall be as per the requirements defined in the topic ROADS of Section 1: General Civil Works Specification of Chapter 10: Civil works Specifications of Technical Specifications documents.
802.	<b>New Damauli</b> <b>Roads and Fencing</b> <i>GENERAL ARRANGEMENT</i> <i>NEW DAMAULI 400/220/132kV SUBSTATION</i>	As per the GA drawing the roads and fencing is also shown in the 220 kV and 132 kV yard area. Bidder seeks clarification that this shall be in the scope for this package or not. Kindly confirm.	The roads and fencing as shown in the 220 kV and 132 kV yard area does not fall under the scope of this bid.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
803.	<p><b>Area Requirement -Control Room Building</b>  <i>CHAPTER 9: CIVIL WORKS SPECIFICATION</i>  <i>SECTION 2: BUILDINGS</i>  <i>2. AREA REQUIREMENT</i>  <i>2.1.CONTROL ROOM BUILDING</i></p>	<p>The area requirement as per the Technical Specifications of Building and the area requirement as per the Tender Drawing of the building are different.  The area of individual rooms as per the drawing is on a much higher side as compared to the minimum area requirements. Bidder seeks flexibility is designing the Control Room Building with optimized area meeting the minimum area requirements of individual rooms and in compliance with the Codal provisions mentioned in the Technical Specifications.  Kindly confirm.</p>	<p>The building room size will be as per the technical specifications and which can be optimized during detailed engineering after approval by the Engineer.</p>
804.	<p><b>Room Requirement -Control Room Building</b>  <i>CHAPTER 9: CIVIL WORKS SPECIFICATION</i>  <i>SECTION 2: BUILDINGS</i>  <i>2. AREA REQUIREMENT</i>  <i>2.1.CONTROL ROOM BUILDING</i></p>	<p>In the area requirement clause, "the Room for Non Executives" are mentioned with a minimum area requirement but the same is not part of the drawing and it may or may not be required. Bidder seeks clarification whether this room shall be considered or not. Kindly confirm.</p>	<p>The area requirement for the control building should be as defined in the technical specifications. Bidders are requested to submit their proposal accordingly.</p>
805.	<p><b>All Custom Duties</b>  <i>Section VII. Particular Conditions of Contract</i>  <i>21. Taxes</i>  <i>Sub-Clause 21.1</i>  <i>Certain Forms of Local Taxation</i></p>	<p>Bidder intends to source the Cement, Aluminum sections, Tiles, Kota stone, Granite, False ceiling, False flooring, Pipes, Paint and other Finishing Items, Foundation bolts, Reinforcement Steel and Steel structure e.g.SS Rails, MS Steel Sections, Cable trays, Sheeting, Aluminum Plate, Chequer Plate, Rail etc. from India.  Kindly confirm that the customs duties, tariffs, import and export taxes or other taxes imposed as applicable for above mentioned materials will be either exempted or reimbursed by MCA - Nepal. Since there is no separate price schedule for above items like supply of cement , reinforcement steel etc</p>	<p>Contractors are free to procure their inputs, raw materials and capital goods in compliance with the Laws of Nepal. Any tax exemption on import shall be as per Section 2.8 of the Compact available at <a href="https://assets.mcc.gov/content/uploads/compact-nepal.pdf">https://assets.mcc.gov/content/uploads/compact-nepal.pdf</a> read along with Schedule - VII of the Compact. MCA-Nepal shall provide required documents for the tax exemption as per the laws of Nepal.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>it should not be a concern with the tax authorities during execution while crossing the borders that this is not billable and will not be exempted. So M/s MCA needs to provide us the exemption certificate item wise at the start of the project which will be acceptable to tax authorities in India as well in Nepal. Kindly confirm the same.</p>	
806.	<p><b>Lot1_RAT_PSR</b> <b>1.3 SCOPE OF SUPPLY AND SERVICES</b> <i>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>	<p>The offered 400kV &amp; 220kV GIS has been Type Tested with IEC 62271-203 ( list of Type tests enclosed for review) , certain Type tests have crossed a period of 10 years. However it has to be noted that there has been no change in the type tested design and same type tested modules are being offered for this project requirement. Request a concurrence on the validity of Type test reports over 10 years.</p>	<p>The validity of the type test has been changed from 10 year to 15 years. Please refer SN#11 of addendum #2 for more information.</p>
807.	<p><b>PSR_Lot1_RAT_PSR</b> <b>3.1- d</b> <i>iv. (3) three motor-driven earthing switches complete with manual and motor-driven operating mechanisms.</i></p>	<p>From given reference clause, three motor driven earthing switches are required. From application point of view 2 sets (i.e.1 set = 3 phase) earthing switches suffices the purpose for 2 busbar system. Please confirm whether our understanding is correct.</p>	<p>Your understanding is correct.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
808.	<b>PSR_Lot1_RAT_PSR</b> <b>3.1- e ; 3.1- f ; 3.1- g ; 3.1- h</b> <i>iii. (3) 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>	Offered GIS has gang operated disconnect switches. Request an acceptance on the same.	The requirement in the bidding document will not be modified.
809.	<b>PSR_Lot1_RAT_PSR</b> <b>3.1- e ; 3.1- f ; 3.1- g ; 3.1- h</b> <i>iv. (3) three inductive voltage transformers with isolating links</i>	We will offer manual integrated isolators for line voltage transformer. Request an acceptance on the same.	The requirement in the bidding document will not be modified.
810.	<b>PSR_Lot1_RAT_PSR</b> <b>3.1- e ; 3.1- f ; 3.1- g</b> <i>v. (1) one set of the three-pole group operated High-Speed Grounding Switch (HSGS) and able to interrupt capacitive current from adjacent line circuit complete with manual and motor-driven operating mechanisms</i>	400KV GIS shall be offered with single pole operated high speed ES. Request an acceptance on the same.	The requirement in the bidding document will not be modified.
811.	<b>PSR_Lot1_RAT_PSR</b> <b>3.1- i</b> <i>(2) two 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>	GIS has gang operated disconnect switches. Request an acceptance on the same.	The requirement in the bidding document will not be modified.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
812.	<p><b>PSR_Lot1_RAT_PSR</b>  <b>3.1- k</b>  <i>The use of PIR and CPWSD for line feeders and associated tie breaker 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></p>	<p>Since as per tender all the Transmission Line lengths are under 100KMS. After Transient Study in case PIR is required then the specifications for PIR shall be as per relevant IEC/IEEE standards. Please confirm.</p>	<p>Confirmed. The requirement of PIR will be known only after the transient study and which shall be as per the IEC/IEEE standards with approval by the Engineer.</p>
813.	<p><b>PSR_Lot1_RAT_PSR</b>  <b>3.2- d</b>  <i>iv. (3) three motor-driven earthing switches complete with manual and motor-driven operating mechanisms.</i></p>	<p>From given reference clause, three motor driven earthing switches are required. From application point of view 2 sets (i.e.1 set = 3 phase) earthing switches suffices the purpose for 2 busbar system. Please confirm whether our understanding is correct.</p>	<p>Your understanding is correct.</p>
814.	<p><b>PSR_Lot1_RAT_PSR</b>  <b>3.2- e ; 3.2- f ; 3.2- g ; 3.2- h; 3.2- j</b>  <i>(3) 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></p>	<p>GIS has gang operated disconnect switches. Request an acceptance on the same.</p>	<p>The requirement in the bidding document will not be modified.</p>
815.	<p><b>PSR_Lot1_RAT_PSR</b>  <b>3.2- e ; 3.2- f ; 3.2- g ; 3.2- h</b> <i>iv. (3) three inductive voltage transformers with isolating links</i></p>	<p>We will offer manual integrated isolators for line voltage transformer. Request an acceptance on the same.</p>	<p>The requirement in the bidding document will not be modified.</p>



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
816.	<p><b>PSR_Lot1_RAT_PSR</b>  <b>3.2- i</b>  <i>(2) two 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></p>	<p>Offered Type tested design of 220kV GIS is accepted by various utilities in India and Abroad, the Busbar design shall be three phase encapsulated. We request a concurrence on the acceptability of this busbar design</p>	<p>The requirement in the bidding document will not be modified.</p>
817.	<p><b>PSR_Lot1_RAT_PSR</b>  <b>3.2- i</b>  <i>(2) two 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></p>	<p>Offered GIS has gang operated disconnect switches. Request an acceptance on the same.</p>	<p>The requirement in the bidding document will not be modified.</p>
818.	<p><b>B0-2_General Tech Req</b>  <b>10.3</b>  <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 &amp; oil bushings, etc.) type tests shall be carried out as per IEC in Short-Circuit Testing Liaison (STL) – Accredited Laboratory.</i></p>	<p>The offered 400kV &amp; 220kV GIS has been Type Tested with IEC 62271-203 ( list of Type tests enclosed for review) , certain Type tests have crossed a period of 10 years. However it has to be noted that there has been no change in the type tested design and same type tested modules are being offered for this project requirement. Request a concurrence on the validity of Type test reports over 10 years.</p>	<p>The validity of the type test has been changed from 10 year to 15 years. Please refer SN#11 of <b>addendum#2</b> for more information.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
819.	<p><b>B0-2_General Tech Req 10.3</b>  <i>If the manufacturer had not successfully carried out complete type test as per IEC in Short-Circuit Testing Liaison (STL) - Accredited Laboratory as on the originally scheduled date of bid opening, the Bidder shall submit undertaking letter along with bid to carry out the mentioned test in Short-Circuit Testing Liaison (STL) - Accredited Laboratory from offered manufacturer without any extra cost to Employer.</i></p>	<p>STL does not issue guideline for other type tests which includes following tests:  i) Test to prove strength of the enclosure – governed by IEC 62271 – 203  ii) Test to prove the satisfactory operation of the included switching devices (Mechanical endurance Test) – governed by IEC 62271-203  iii) Test on auxiliary switch – governed by IEC 62271 – 203  iv) Tests on instrument transformers – governed by IEC 61869 – 1, 61869 – 2, 61869 – 3 (for instrument transformers)  v) Tests on insulated bushings (SF6 to air bushing) – governed by IEC 60137  At the same time, they don't have the facility to conduct such type tests at their member laboratories. Under the given circumstances, OEMs don't have an option other than performing such tests at other independent test labs</p> <p>Despite that we approached STL member laboratories in recent past for performing type test on enclosure which is denied by them due to unavailability of facility. In view of same we request you to accord approval to the submitted type test reports as per attached List of Type tests</p>	<p>Please note that complete set of type tests for applicable voltage level shall need to be performed in an STL accredited lab as per latest applicable IEC Standard.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
820.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 2.10</b></p> <p><i>The GIS and GIB furnished under this specification shall be in accordance with all the most current requirements of applicable IEEE and IEC standards. All materials and devices shall be in accordance with the applicable requirements of the Local or National "Occupational Safety and Health Standards."</i></p>	Offered 400kV GIS shall confirm to IEC 62271-203, we request to share the specific requirements of Local/National requirements needed additionally to be complied for this requirement	It is the responsibility of the contractor to get informed of and to comply with the applicable national safety requirements
821.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 5</b></p> <p><i>CODES AND STANDARDS</i></p>	Offered GIS is designed, manufactured and tested as per IEC 62271-203. Request an acceptance on the same.	Accepted.
822.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 8.7.2</b></p> <p><i>l. price of high-voltage test equipment.</i></p>	We understand Supply the high-voltage test equipment is not required in the contract. Hence "Price" mentioned in the clauses in the specification is not valid. Please confirm.	Bidders to submit an optional price for test equipment
823.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 9.1.5</b></p> <p><i>Due to safety requirements for working on this pressurized equipment, whenever the pressure of the adjacent gas compartment is reduced during maintenance, this</i></p>	Due to safety requirements, if the gas pressure of a compartment is reduced, the same part can not be kept in service as the gas density in the stated compartment shall not be sufficient to withstand the electrical stress. Request an acceptance on the same.	Accepted. If the gas pressure is reduced during the maintenance, the equipment cannot remain in service

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	<i>compartment shall be designed so that it shall remain in service to perform its intended duty.</i>		
824.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT</b></p> <p><b>9.1.12</b></p> <p><i>To facilitate GIS extension in the future, the Contractor shall make available during the detailed engineering phase, the complete design detail of interface module including enclosure cross section, enclosure material, enclosure dimensions (inner &amp; outer), flange diameter (inner &amp; outer), conductor connection arrangement, bolt circle spacing &amp; dimensions, rated gas pressure etc</i></p>	The data required for extension shall be in line with IEEE C37, kindly confirm	The proposed extension interface design and facilities will be subject to approval by the Engineer at the detailed engineering phase.
825.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT</b></p> <p><b>9.2.13</b></p> <p><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).</i></p>	Kindly share any additional data with reference to the GDM system required	To follow the specification. Bidders to propose based on their experience.

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826.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 9.2.22</b></p> <p><i>A camera system for locations where physical access to viewports is restricted.</i></p>	<p>Not applicable for offered 220kV GIS design. Please confirm.</p>	<p>Kindly adhere to the requirements of the bidding document.</p>
827.	<p><b>DWG_Combined_Optimized RTE-100-1, 100-2, 100-3, 100-4</b></p>	<p>Given SLD contains metering and differential protection class cores whereas only 5P20 accuracy class details are given in CT technical datasheet &amp; CT particulars. Request to provide required CT accuracy classes with detail parameters like burden, knee point voltage, excitation current and Rct etc.</p>	<p>CT accuracy for metering to be as per applicable standards. Bidders to propose according to their experience</p>
828.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 11.27</b></p> <p><i>All terminals and control circuit wiring shall be capable of withstanding 1500 V ac, 50 Hz for one minute or 1800 V ac, 50Hz for one second in accordance with IEEE C37.122.</i></p>	<p>Power frequency voltage withstand voltage shall be as per IEC standard. Request kind acceptance.</p>	<p>The requirement in the bidding documents cannot be changed.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
829.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 11.3</b></p> <p><i>Corridors shall be provided along the length of the GIS as required, for transporting gas processing equipment. These spaces shall be clear of any columns, stairways, ladders, etc., that would impede movement of a gas cart. Maintenance access corridors shall also be provided between adjacent bays</i></p>	<p>No maintenance access corridors are applicable between adjacent bays in the GIS w.r.t requirement of spaces i.e. clear of any columns, stairways, ladders, etc., that would impede movement of a gas cart. Maintenance access corridors</p> <p>Please confirm.</p>	<p>Detailed GIS layout design subject to approval by the Engineer</p>
830.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.2.4</b></p> <p><i>For the purpose of gas monitoring and maintenance, 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-to-air-bushing modules and interface connections for future expansion of the GIS. Each switching device and earthing device shall have its own individual gas zone.</i></p>	<p>For offered 400/220KV GIS- maintenance earthing switches, high speed ground switches shall be provided with disconnect compartment or any other adjacent gas compartment. Request kind acceptance on same.</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)
831.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.2.5</b></p> <p><i>Buffer gas compartments shall be provided between circuit breaker current transformer compartments and the associated isolating disconnect switches; between cable sealing ends and bus runs; between gas-to-air bushings and bus runs; between voltage transformers and voltage transformer disconnecting devices, to allow maintenance to be performed on the circuit breaker, cable termination, gas-to-air bushings, or voltage transformer without having to depressurize the adjacent switching device gas compartment.</i></p>	<p>Request to note that incase of repair/maintenance the faulty bay is allowable to go out of service as per IEC 62271-203. Considering the same, providing buffer compartments between each modules is not envisaged. All the specific requirement of Service continuity shall be met by providing gas compartmentalization as per manufacturers type tested design</p>	<p>Accepted. Provided service continuity is maintained.</p>
832.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 13.2.8</b></p> <p><i>e. Verification of thermal short-time current withstand</i></p>	<p>For SF6/Air bushings, Calculation will be provided in line with IEC 60137. Request to kindly confirm.</p>	<p>Confirmed.</p>
833.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.2.10</b></p> <p><i>d. Ambient temperature gauge</i></p>	<p>We recommend the provision of separate temperature monitoring IR Thermometer for this requirement. Kindly confirm</p>	<p>This will be finalized during detailed design to be approved by the Engineer.</p>

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834.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.2.14</b></p> <p><i>4. Circuit Breaker and HSGS Block Level: This is the minimum gas density level at which the manufacturer will guarantee the rated fault interrupting capability of the breaker or the fault making capability of the HSGS. At this level the breaker block contact shall operate or the HSGS block contact shall operate, and the closing &amp; tripping circuits for these switching devices shall be blocked. Each gas density monitoring device shall be individually adjustable and shall have electrically-independent contacts to include a slow leak detection circuit.</i></p>	Please further technical details for this requirement.	Kindly adhere to the requirements of the specifications. Bidders to propose based on their experience.
835.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.2.24</b></p> <p><i>The bursting pressure of the relief device shall be effectively coordinated with the rated gas pressure and the pressure rise due to arcing as described in <b>IEEE Std. C37.122</b></i></p>	The bursting pressure of the relief device shall be as per IEC 62271-203 standard	Accepted.
836.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.3.17</b></p>	The Necessary contacts shall be provided using multiplier facility. Please confirm	Confirmed.



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	<i>A minimum of 20 "a" and 20 "b" auxiliary contacts shall be provided that are field reversible for the Employer's use.</i>		
837.	<b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b>  <b>Ch 1_S2_TS_220kV GIS_RAT 12.6.3</b> <i>All current transformers shall be multi- ratio.</i>	With reference of mentioned clause, multi ratio CTs are required but only single ratio CTs are given in SLD & Technical data sheet. Request to provide CT's with multiple ratios	Kindly adhere to the requirement of the bidding documents.
838.	<b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b>  <b>Ch 1_S2_TS_220kV GIS_RAT 12.13.2</b> <i>Each cabinet shall be a NEMA 12 enclosure, as a minimum, for indoor application. Any outdoor junction boxes or marshalling cabinets shall be rated NEMA 4X and constructed of stainless steel.</i>	We will provide IP class as per IEC 60529 (IP43 class for indoor). Request an acceptance on same.	Accepted for indoor enclosures. For outdoor, NEMA 4X should be provided.
839.	<b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b>  <b>Ch 1_S2_TS_220kV GIS_RAT 12.13.5</b> <i>For any cabinets located outdoors, the top of the outdoor cabinets (where provided) shall be sloped (2% minimum) to prevent water accumulation. A drip shield shall be provided above the cabinet door. It shall be rigidly braced and secured.</i>	For offered 400/220KV GIS floor mounted LCC cable entry shall be from bottom side	Kindly adhere to the requirements of the bidding documents. This will be finalized during detailed engineering

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840.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.13.12</b></p> <p><i>d. One or two (one for each circuit breaker trip coil) red light-emitting diodes (LED) and one green LED for each circuit breaker, each disconnect and earthing (maintenance or high-speed) switch, for contact position indication on the mimic diagram. LEDs shall be visible when illuminated from a minimum of 2 meters away in bright sunlight. All indicating lights shall be capable of being seen without the necessity of opening any doors on the LCC.</i></p>	<p>For the offered 220KV/400KV GIS, (red/green) indication lamps shall be provided however provision of any separate indication for trip/ close coil is not envisaged.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>
841.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.13.12</b></p> <p><i>h. An annunciator (type and model to furnished by the Engineer/Employer) with Ethernet communications and global positioning system (GPS) time synchronization with the following alarms connected:</i></p>	<p>Annunciator with RS485 shall be provided. Request an acceptance on same.</p>	<p>Annunciator details will be finalized during detailed engineering after approval by the Engineer.</p>
842.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.13.12</b></p>	<p>Kindly provide additional technical details for these points.</p>	<p>Will be finalized during detailed engineering after approval by the Engineer.</p>

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	<p><i>j. Terminal blocks and terminations for each input and output on the SCADA-I/O. Jumpers shall not be allowed on the device.</i></p> <p><i>k. Test switches shall be utilized to isolate each input and output of the SCADA-I/O devices.</i></p> <p><i>l. Test switches shall be utilized to isolate the contacts from control switches in the trip and close circuits of circuit breakers, disconnect switches, ground switches, and fast-acting ground switches.</i></p>		
843.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT</b> <b>12.13.12</b></p> <p><i>q. Visible secondary break disconnect devices in the voltage transformer wiring circuit for isolating all ungrounded voltage transformer secondary wiring circuits</i></p>	<p>Disconnecting type terminal blocks shall be provided for CT and VT. Request an acceptance on same.</p>	<p>Kindly adhere to the requirement of bidding documents.</p> <p>Details to be subject to approval by the Engineer.</p>
844.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b> <b>Ch 1_S2_TS_220kV GIS_RAT</b> <b>12.14.1</b></p> <p><i>All control wiring shall comply with the requirements of the standards in the CODES AND STANDARDS section of this specification. All exterior wiring shall be enclosed in schedule 40, hot-dipped galvanized steel conduit. PVC conduit is not acceptable. All external mounting hardware and fasteners shall be stainless steel. Electro-galvanized fittings are not acceptable</i></p>	<p>We understand that provision of cable trays for cables between GIS to LCC shall also be acceptable. Request to kindly confirm.</p>	<p>Confirmed.</p>

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845.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.14.2</b></p> <p><i>All current transformer secondary wiring in the LCC shall be minimum 6 mm<sup>2</sup> stranded copper and all other wiring except for instrumentation shall be a minimum 2.5 mm<sup>2</sup> stranded copper and as specified. All wiring shall be insulated for 600 volts with ETFE (Ethylene Tetrafluoroethylene) 150 °C insulation or approved equivalent.</i></p>	<p>We recommend cable size of 4 mm<sup>2</sup> for current transformer secondary and 1.5mm<sup>2</sup> for all other wiring. Request an acceptance on same.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>
846.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.14.2</b></p> <p><i>All current transformer secondary wiring in the LCC shall be minimum 6 mm<sup>2</sup> stranded copper and all other wiring except for instrumentation shall be a minimum 2.5 mm<sup>2</sup> stranded copper and as specified. All wiring shall be insulated for 600 volts with ETFE (Ethylene Tetrafluoroethylene) 150 °C insulation or approved equivalent.</i></p>	<p>For the offered 400/220KV GIS, control cable material shall be FRLS (Fire Retardant Low Smoke) which also has similar properties as ETFE (Ethylene Tetrafluoroethylene). Request an acceptance on same.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>
847.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.14.3</b></p>	<p>Ring type terminals shall be provided. Request an acceptance on same.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>

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	<i>Wires shall be terminated using solder-less, compression type insulated ferrule , ring tongue terminals.</i>		
848.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.14.4</b></p> <p><i>All lugs will be crimped with an approved type tool, and the indent shall be placed for continual inspection. Double lugging (two wires in one connector) is not permitted. Only one wire and lug per terminal is permitted. Connectors shall be rated for the wire size used. The use of shims to allow use of larger connectors is not acceptable.</i></p>	Plug type contacts shall be provided to this requirement.	Kindly adhere to the requirements of the bidding documents.
849.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.14.4</b></p> <p><i>Screws, with locking device, shall be non-ferrous and corrosion-resistant Philips fillister-head metal type. All metal parts of the terminal block shall be non-ferrous and corrosion-resistant.</i></p>	The make of this requirement shall be in line with manufacturers established supplier base which is in line with international standard. Request a confirmation on the same.	Confirmed.
850.	<p><b>SECTION 1: 420kV GIS TECHNICAL SPECIFICATION</b></p> <p><b>Ch 1_S2_TS_220kV GIS_RAT 12.14.5</b></p>	For the offered circuit breakers 10 kA interrupting shall be provided. Request a confirmation on the same.	Kindly adhere to the requirements of the bidding documents.

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	<p><i>All wiring and components, including relay coils, motor controls, etc., shall be minimum 600 V AC insulation class, where applicable. Circuit breakers shall be thermal magnetic and rated a minimum of 230 Volts AC, 20 kA interrupting.</i></p>		