



**CLARIFICATION#1**

**FOR**

**PROCUREMENT OF PLANT DESIGN, SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF LOT 1: 400 kV RATMATE SUBSTATION AND WORKS AT LAPSIPHEDI AND NEW HETAUDA SUBSTATIONS, LOT 2: 400 kV NEW BUTWAL SUBSTATION, LOT 3: 400 kV NEW DAMAULI SUBSTATION (ISSUED ON 30 MAY 2023)**

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

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
1.		Requesting, you to please provide Excel BOQ for subject tender.	We will issue it in due course.
2.	BIDDING DOCUMENT – PART 1 - Section III. Qualification and Evaluation Criteria	<p>BIDDING DOCUMENT – PART 1 - Section III. Qualification and Evaluation Criteria</p> <p><b><u>15. Similar Design Experience</u></b></p> <p>(c) Successfully completed as single entity or as joint venture partner at least one (1) turnkey contract as a designer in a <b>South Asian</b> country</p> <p><b><u>16. Similar Construction Experience</u></b></p> <p>(c) Participation as single entity or as joint venture partner in at least three (3) turnkey contracts, at least one being in a <b>South Asian</b> country for each lot.</p> <p>Please note that the above stated Qualification Criteria set for at least one project being in a</p>	MCA-Nepal will review the concern raised and if acceptable, will issue an addendum to the RFP after obtaining approval of the corresponding authority

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		<p>South Asian country is too stringent and cannot be met by most of the prospective international bidders. EPC bidders based in the South Asia region can only participate in the Bid as per the PQ condition. In view of this, we request you to kindly review the above criteria once again and relax/liberalize this requirement by changing the contract's experience as "at least one being in an <b>Asian</b> country." instead of "at least one being in a <b>South Asian</b> country".</p>	

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3.	BIDDING DOCUMENT – PART 1 - Section III. Qualification and Evaluation Criteria	<p>BIDDING DOCUMENT – PART 1 - Section III. Qualification and Evaluation Criteria</p> <p>16. Similar Construction Experience</p> <p>Successfully completed at least three (3) turnkey or design-build substation projects within the last ten 10 years for each lot,</p> <p>(a) of below mentioned value:  <b>for Lot 1: US\$34 Million (3 Contracts each of US\$ 34 Million or above)</b>  <b>for Lot 2: US\$ 20 Million (3 Contracts each of US\$ 20 Million or above)</b>  <b>for Lot 3: US\$ 21 Million (3 Contracts each of US\$ 21 Million or above)</b></p> <p>For the award of a combination of contracts, it shall be required to meet the aggregate of the respective requirement for each contract as above. Each such contract should be different from the other. Please confirm.</p>	Yes, each contract should be different from the others.
4.		We are writing to you with a request to provide the AutoCAD files of the drawings mentioned in the Bid document for the Substation Package tender floated recently. As a bidder for this project, we require the AutoCAD files to facilitate our preparation of the bid proposal.	The available AUTOCAD files are not the final updated ones. Thus, MCA-Nepal cannot provide the same. The only available files are already included in the Bidding Document.

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		We have thoroughly reviewed the tender document and found that the drawings mentioned in it are crucial to our understanding of the project's requirements. We believe that having access to the AutoCAD files will enable us to provide a more accurate and competitive bid for the project	
5.		<p>We would like to request clarification on the following:</p> <ul style="list-style-type: none"> <li>- What are the specific qualifications required for this tender?</li> <li>- How can we confirm if our company meets the requirements?</li> <li>- Is there any additional information or documentation that we need to provide to support our application?</li> <li>- How can we get RFP Document?</li> </ul>	<ul style="list-style-type: none"> <li>- Please refer Section III of the Bidding Document</li> <li>- By assessing your capability in comparison to the requirements of the Bidding Document</li> <li>- You need to provide the documents required under the Bidding Document</li> </ul> <p>The Bidding Document can be requested at <a href="mailto:MCANepalPA@dt-global.com">MCANepalPA@dt-global.com</a></p>
6.	Section III: Qualification and Evaluation Criteria, Subcontractors / Manufacturers Item No.1: - Gas Insulated Switchgear	<p><i>Reference (Section III: Qualification and Evaluation Criteria, Subcontractors / Manufacturers Item No.1: - Gas Insulated Switchgear)</i></p> <p>In case a Gas Insulated Switchgear (GIS) manufacturer is a 100% subsidiary company of parent GIS manufacturing Organization and subsidiary manufacturer is manufacturing GIS under technology transfer agreement with parent manufacturer.</p>	The Bidders are requested to abide by the requirements stated in the Bidding Document for Procurement of Plant Design, Supply, Delivery, Installation, Testing and Commissioning of Lot 1: 400 kV Ratmate Substation and works at Lapsipedi and New Hetauda Substations, Lot 2: 400 kV New Butwal Substation, Lot 3: 400 kV New Damauli Substation (MCA-N/ETP/CB/004).

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		Kindly allow to subsidiary manufacturer to use it's parent manufacturer credentials to comply with Qualification Criteria for Gas Insulated Switchgear and to offer GIS Switchgear from Subsidiary manufacturer's manufacturing works.	
7.		<p><i>Reference (Section III: Qualification and Evaluation Criteria, Subcontractors / Manufacturers Item No.1: - Gas Insulated Switchgear)</i></p> <p>I. We understand from the past tender "Procurement of Plant Design, Supply, Installation, Testing and Commissioning of Tumlingtar-Sitalpati 220kV Transmission Line and 220kV (GIS)/132/33/11kV AIS Substation at Sitalpati, Sankhuwasabha" invited by NEA (Funded by GoN), Gas insulated switchgear (GIS) manufacturer having manufacturing experience of at least 5 Years is acceptable. We request to you kindly amend the mentioned GIS Qualification Criteria with the following:  <b>- Must have manufacturing experience of at least 5 (Five) years.</b></p> <p>III. As per GIS Qualification Criteria of NEA, outside manufacturer's home country experience and performance requirement is exempted.  <b>Kindly allow the exemption to GIS manufacturer for supply experience and</b></p>	The Bidders are requested to abide by the requirements stated in the Bidding Document for Procurement of Plant Design, Supply, Delivery, Installation, Testing and Commissioning of Lot 1: 400 kV Ratmate Substation and works at Lapsipedi and New Hetauda Substations, Lot 2: 400 kV New Butwal Substation, Lot 3: 400 kV New Damauli Substation (MCA-N/ETP/CB/004).

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		operational performance on outside manufacturer's home country.	
8.		<p>I like to know that do the Chinese companies from the various sector can participate in this tender, sectors are as follows,</p> <ol style="list-style-type: none"> <li>1. Private Companies.</li> <li>2. State Government Companies.</li> <li>3. Central Government Companies.</li> </ol> <p>Please inform us of the above so that we could talk with the concerned companies for the same.</p>	<p>MCC Program Procurement Guidelines include requirements for eligibility, including:</p> <ol style="list-style-type: none"> <li>a) Section III of the Invitations for Bid (IFB) Document, especially the Table “Eligibility” in pages 67 to 69.</li> <li>b) This table makes reference to Clause 5 of Instructions to Bidders; thus, a thorough review of this provision is recommended.</li> <li>c) You are requested to go through the provision of Part 13. Government-Owned Enterprises under MCC Program Procurement Guidelines at <a href="https://assets.mcc.gov/content/uploads/guidance-2020001236804-procurement-program.pdf">https://assets.mcc.gov/content/uploads/guidance-2020001236804-procurement-program.pdf</a> to check your eligibility. MCC will verify the submitted Government-Owned Enterprises (GOE) certification form and will make a decision based on (i) the submitted documentation and (ii) further research regarding the GoE status of all firms that submit proposals.</li> </ol>

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			<p>A Government-Owned Entity is not eligible to compete for MCC funded projects, for goods and works.</p> <p>d) A “GOE,” or government-owned enterprise, is any enterprise established for a commercial or business purpose that is owned and/or controlled by a government, whether directly or indirectly.</p> <p>e) The PPG state under P13.2 that “GOEs are not eligible to compete for MCC-funded contracts for goods or works.”</p> <p>f) “Owned” means a majority or controlling interest (whether by value or voting interest) of the shares or other ownership interest of the entity (whether directly or indirectly and whether through fiduciaries, agents, or other means). “Controlled by” is necessarily determined on a case-by-case basis, but means material support for, or the power by any means to control, an enterprise regardless of (i) the level of ownership, or (ii) whether the power is exercised. Detailed information is provided in part 13 of the PPG.</p>

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			<p>g) P13.1.5 states “Additional evidence of control may be found in the organizational history of the enterprise regardless of its current status. In some cases, a GOE may be privatized or otherwise reorganized in such a manner that it loses its status as a GOE. In other cases, a GOE may purportedly have been privatized, but continue to receive subsidies or other forms of support from a government to such a degree that it can effectively be considered to be controlled by the government”.</p> <p>h) Furthermore, “Evidence of control may also be assumed by MCC for enterprises from countries that have been <b><u>deemed non-market economies</u></b><sup>1</sup> by either the US Department of Commerce or the World Trade Organization.”</p> <p>i) Regarding eligibility please also check the links on page 113 of the bidding document:</p> <p>j) System for Award Management (SAM) Excluded Parties List -</p>

<sup>1</sup> <https://www.trade.gov/nme-countries-list>



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			<p><a href="https://www.sam.gov/SAM/pages/public/searchRecords/search.jsf">https://www.sam.gov/SAM/pages/public/searchRecords/search.jsf</a></p> <p>k) World Bank Debarred List - <a href="https://www.worldbank.org/debarr">https://www.worldbank.org/debarr</a></p> <p>l) US Treasury, Office of Foreign Assets Control, Specially Designated Nationals (SDN) List - <a href="https://sanctionssearch.ofac.treas.gov/">https://sanctionssearch.ofac.treas.gov/</a></p> <p>m) US Department of Commerce, Bureau of Industry and Security, Denied Persons List - <a href="https://www.bis.doc.gov/index.php/the-denied-persons-list">https://www.bis.doc.gov/index.php/the-denied-persons-list</a></p> <p>n) US State Department, Directorate of Defense Trade Controls, AECA Debarred List - <a href="https://www.pmdtdc.state.gov/ddtc_public?id=ddtc_kb_article_page&amp;sys_id=c22d1833dbb8d300d0a370131f9619f0">https://www.pmdtdc.state.gov/ddtc_public?id=ddtc_kb_article_page&amp;sys_id=c22d1833dbb8d300d0a370131f9619f0</a></p> <p>o) US State Department, Foreign Terrorist Organizations (FTO) List - <a href="https://www.state.gov/foreign-terrorist-organizations/">https://www.state.gov/foreign-terrorist-organizations/</a></p> <p>p) US State Department, Executive Order 13224 - <a href="https://www.state.gov/executive-order-13224/">https://www.state.gov/executive-order-13224/</a></p> <p>q) US State Sponsors of Terrorism List - <a href="https://www.state.gov/state-sponsors-of-terrorism/">https://www.state.gov/state-sponsors-of-terrorism/</a></p>

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9.	<b>Common for all three Lots-</b> Section III, Sub-Factor 15 "Similar Design Experience"	This being design and build contract, we understand the bidder with design experience in design build and Turnkey contracts are acceptable for referred requirement. Please confirm.	Design & Build and Turnkey Projects will be considered as similar projects.
10.	<b>Common for all three Lots-</b> Section III, Sub-Factor 16 "Similar Construction Experience"	We understand that the all requirements indicated in clause (a), (b), (c), & (d) can be met with same or different projects. Please confirm.	<p>Same or different experience can satisfy the requirements of (a), (b), (c) and (d).</p> <p>However, the Requirement stated under (a) is for one lot and for three lots, the requirement can be satisfied by 9 Contracts of the required amount.</p> <p>The Requirement of (b) for three lots can be satisfied by nine (9) turnkey contract/design and build constructing GIS substations of voltages 380kV or above and 50 kA short circuit level or higher and the same should be in successful operation. The Requirement of (c) for three lots can be satisfied by nine (9) turnkey contracts, at least three being in a South Asian country.</p> <p>The Requirement of (d) for three lots can be satisfied by three project experience of Supply, delivery, installation, testing and commissioning of at least cumulative 1000MVA three phase (or equivalent capacity in bank of three single phase units) auto/power transformer of 380 kV or</p>

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			higher EHV side and the same should be in successful operation.
11.	<b>Common for all three Lots-</b> Section III Key Personal	We understand that the required key personal requirements can be met by the qualified candidates (as per the requirement) outside the organisation who are willing to provide their services on project specific agreements.	Yes, and the Key Personnel CV should be signed by the proposed personnel.
12.	<b>Common for all three Lots-</b> Section IV, Schedule of Payments, Design Services	We request to modify the clause as, "40% of the Design Service Cost shall be paid on submission of Design Report of respective items as per Schedule 1 of the Price Schedule."	The requirement will not be amended.
13.	<b>Common for all three Lots-</b> Section IV, Schedule of Payments, Design Services	We request to modify the clause as, "50% of the Design Service Cost shall be paid after approval/acceptance of the same by the Engineer of respective items as per Schedule 1 of the Price Schedule."	The requirement will not be amended.
14.	<b>Common for all three Lots-</b> Section V, B1.2, CHAPTER 3: AUTO- TRANSFORMER SPECIFICATION, 2.3.2 GUARANTEED VALUE NOT REACHED, Limitation of Liability	We request to modify the clause as, "Subject to this sub clause 2.3.2, the Contractor's aggregate liability to pay liquidated damages for failure to attain the functional guarantees shall not exceed ten percent (10 %) of the DAP price of the transformer."	The requirement will not be amended.
15.	Section V, B1.2, <b>Common for all three Lots-</b> CHAPTER 1: GIS TECHNICAL SPECIFICATION &	We understand that the <b>220kV</b> requirement is, Rated Continuous Current - 4000A Rated Short Circuit Breaking Current (for 1s) - 50kA Rated Symmetrical and peak withstand currents - 50kA, 125kA	Confirmed.

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	SECTION-2: 220kV GIS TECHNICAL SPECIFICATION , Clause 11.1 & 11.3	Please confirm	
16.	<b>Common for all three Lots-</b> Section V, B1.2, CHAPTER 1: GIS TECHNICAL SPECIFICATION & SECTION-2: 220kV GIS TECHNICAL SPECIFICATION , Clause 11.1 & 11.3	We understand that the <b>400kV</b> requirement is, Rated Continuous Current - 4000A Rated Short Circuit Breaking Current (for 1s) - 50kA Rated Symmetrical and peak withstand currents - 50kA, 125kA  Please confirm"	Confirmed.
17.	<b>Common for all three Lots-</b> Section V, B1.2, CHAPTER 1: GIS TECHNICAL SPECIFICATION, Clause 12.9.7 and Clause 2. HIGH VOLTAGE DESIGN PARAMETERS, "j. Gas Insulated Switchgear Gas-to-Air Bushing Terminals"	Please clarify the requirement.	MCA-Nepal will issue an addendum to further clarify the requirement, subject to the approval of authority.
18.	<b>LOT 1-</b> Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 1.1 c), 1.1 d) & 1.1 f)	We understand scope of work involves supply of new SDH and Multiplexer equipment at Ratmate GIS S/S and augmentation of existing SDH equipment at Lapsipedi & New Hetauda. In view of the same, please provide following: a) Make & Model of existing SDH cum Multiplexer equipment at Lapsipedi & New hetauda b) STM level (STM-1/4/16) c) Please confirm that Slot/optical & Electrical interface cards/ports availability for proposed	a) The contractor shall make sufficient provision to interface the existing SDH equipment. After award, MCA-Nepal will do the necessary coordination with the successful contractor to retrieve the details. b) STM 16 upgradable to 64 as per the requirements c) It is the responsibility of the contractor.

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		<p>integration with new SDH at Ratmate GIS S/S is in employer scope.</p> <p>d) Please confirm modification of configuration in existing SDH Equipments at New Hetauda &amp; Lapsiphedi will be done by employer.</p> <p>e) Please confirm new SDH Equipments can be proposed at New Hetauda &amp; Lapsiphedi in-lieu of integration/interfacing requirement of new proposed SDH equipment at Ratamate S/S with existing SDH equipments at New hetauda &amp; Lapsiphedi S/s.</p>	<p>d) It is the responsibility of the contractor.</p> <p>e) Refer to the requirements with interfacing at existing New Hetauda &amp; Lapsiphedi SDH equipment and new SDH equipment at Ratmate.</p>
19.	<p><b>LOT 1</b> Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 1.1 e)</p>	<p>1. Please confirm requirement under this project is Digital Protection Coupler is for Distance Protection only &amp; differential Protection is not required.</p> <p>2. Please confirm DPC qty &amp; same is to be offered distance protection for following lines:  Ratamate- New Hetauda 400kV D/C - 8 Nos. (4 at each end)  Ratamate- Lapsiphedi 400kV D/C - 8 Nos. (4 at each end).</p> <p>3. Please provide specification of Digital protection coupler. Whether NEA specification of DPC i.e 4 command , E1 , 48 V DC operated , command voltage upto 220VDC to be followed or additional IEC61850 ed.2 goose messaging support to be available in offered Digital Protection coupler equipment. Please confirm.</p>	<p>1. Confirmed.</p> <p>2. Confirmed</p> <p>3. The Contractor is responsible to provide a complete and functional solution consistent with protection schemes and meet NEA requirements for purpose of compatibility</p>

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20.	<b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 1.1 i)</b>	Please confirm whether Digital Type Measuring equipment are to be supplied. If yes, provide detailed specification & quantities of Measuring equipment so that all bidders will be on same platform.	Bidders to propose measuring and testing equipment compliant with the requirements. Refer to the Price Schedule.
21.	<b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 1.2 i)</b>	Please confirm whether Testing Tools for STM-1,4, 16 & 64 are to be supplied. If yes provide detailed specification & quantities of Measuring equipment so that all bidders will be on same platform.	Bidders to propose metering and testing equipment. Refer to the Price Schedule.
22.	<b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 2 c)</b>	Please confirm the requirement of new RFTU for integration to existing NEA EXFO Fiber Remote Fiber Testing System. Whether supply of the same is in scope or not? Please provide detailed specification & quantity for this requirement.	To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment
23.	<b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 2.1 b) to e)</b>	<p>1. Requirement of SDH Equipment not clear, please confirm whether SDH Equipment requirement is for STM-1/4/16</p> <p>2. Upgradability to STM-64 is not understood. 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.</p> <p>3. SDH Technology is getting obsolete &amp; only few selected manufacturers in Power Utility domain manufactures SDH equipments which</p>	<p>1. As per Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, new generation SDH STM -16 (Upgradable to STM-64) needs to be proposed as per the Employer's Requirement.</p> <p>2. To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.</p> <p>3. To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.</p>

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		supports STM-64 upgradability. Most of Utilities including NEA are transitioning for existing SDH installed base to MPLS-TP. Hence we request MCA to either limit the requirement to STM-1/4/16 which is used in NEA network in existing & ongoing requirements or in case much more capacity requirement please consider Hybrid MPLS-TP equipment which supports MPLS-TP/SDH/PDH with 1 G or 10G interfaces additionally it can provide STM-1/4/16 interfaces for interfacing with existing SDH equipment.	
24.	<b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 2.1 j)</b>	Requirement is not clear. Is it requirement of 13 Nos. D&I Mux at Ratmate S/S or same is mentioned by mistake. Please provide detailed requirement for this point or else please delete this clause.	It should be cards with 16 E1 channels as specified in the Technical Data Schedules
25.	<b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 2.1 q)</b>	Please confirm type of optical interfaces proposed under this project for optical links to be proposed under this project i.e STM-4 or STM-16.	Please refer response to clarification for S.N. 24
26.	<b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 2.2 b) &amp; c)</b>	<p>1. We 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</p>	<p>1. Confirmed</p> <p>2. To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.</p> <p>3. To be coordinated by the Engineer at the Contract design stage to ensure</p>

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		<p>change requirement to MPLS-TP Hybrid 1G , 5 Protected directions.</p> <p>3. In case bidder offers equivalent MPLS-TP 1G 5 Protected directions will it be acceptable. Please confirm."</p>	<p>compatibility with NEA network equipment.</p>
27.	<p><b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 2.2 i) &amp; 2.2.1</b></p>	<p>1. Please confirm whether new NMS to be supplied for monitoring of offered NG-SDH Equipment at Ratamate S/S or bidder has to supply only 03 Nos. LCT terminals loaded with craft terminal software for maintenance, configuration &amp; provisioning.</p> <p>2. Please confirm Laptops should be workstation based &amp; no laptop is required for this requirement.</p> <p>3. In case only Craft terminals to be offered then requirement of integration with full NMS server is not understood. If OEM didn't have existing NMS in NEA/MCA network how to integrate craft terminal as existing NMS is proprietary in nature.</p>	<p>1. Supply shall be as specified in 2.2 j and 2.2.1</p> <p>2. Workstation to be laptop based.</p> <p>3. Refer to #1 above</p>
28.	<p><b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 3.4 &amp; 3.5 ii</b></p>	<p>Please confirm whether 24 F or 48F Fiber Rackmounted /Wall Mounted fiber FODP to be proposed at Ratamate GIS S/S.</p> <p>Please confirm whether existing FODP's at Lapsiphedi &amp; New Hetauda (existing FO Approach Cable are already terminated) can be used for new link i.e New Hetauda to Ratamate &amp;</p>	<p>1. 48F FODP</p> <p>2. Contractor to supply new FODP at Lapsiphedi and New Hetauda</p>



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		Ratamate to Lapsiphedi or new FODP's are to be supplied at Ratamate, New hetauda & Lapsiphedi S/S's	
29.	<b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 10 &amp; GT Clause 10.3 &amp; 1.3</b>	Please confirm requirement of Type tests for Telecom is 10 years or 5 Years as both technical specifications, PSR & GTR requirement are conflicting.	5 Years for telecommunication equipment.  MCA-Nepal will issue an addendum to this requirement, subject to the approval of authority.
30.	<b>LOT 1-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 10.8 d)</b>	Please confirm whether Testing Tools are to be supplied. If yes provide detailed specification & quantities of Testing tools so that all bidders will be on same platform.	Bidders to propose metering and testing equipment. Refer to the Price Schedule.
31.	<b>LOT 1-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION , Clause 1</b>	Please provide configuration of offered EPABX system at RATAMATE S/S as details not provided TS/Technical datasheet i.e  1. no. Analog/ Digital Subscribers, 2. no. of IP Susscribers, 3. No. of E1 Interface, 4. No. of E&M Interface 5. CO Lines 6. Power Supply & Control Card Redundancy required or not 7. Operater Console PC Based or Phone based 8. Analog Subscriber qty & specification	1 to 5- Refer to the corresponding technical data schedule. 6- Required 7- Phone based 8 – Analog phone in substation main control room 9 – Digital phone in each room of control building and GIS building 10- Attendant phone in substation main control room 11- Outdoor phone in three strategic locations of the substation 12- Same as #9

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		9. Digital Subscriber phone qty & specification 10. Attendant Phones qty & specification 11. Outdoor Telephone Sets quantity & Specification 12. IP Phone Qty & specification (SIP based or open SIP)	
32.	<b>LOT 1</b> -Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2 e)	We understand EPABX to be supplied wired with required interfaces & it should have 200% spare capacity for future. Please confirm	Confirmed.
33.	<b>LOT 1</b> -Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2 i)	Please provide attendant console requirement & expandability requirement for attendant consoles.	Bidder to propose attendant console to be suitable and meet requirements of clause 2.5.4
34.	<b>LOT 1</b> -Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2 h)	5 Meter 10 PAIR Jelly filled Telephone cable to be supplied with EPABX for Analog Subscriber/Remote Subscribers. Please confirm.	Bidder to propose a fully functional turnkey installation not limited to 5m.
35.	<b>LOT 1</b> -Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2 k)	Please confirm E1/E&M /FXS interfaces for Remote subscriber & existing EPABX integration will be provided by MCA/NEA. Existing EPABX configuration for integration will be in scope of MCA/NEA. Please confirm.	The entire requirement to fulfill the tasks will be in the scope of the contractor.
36.	<b>LOT 1</b> -Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2.6 h	Telephone Cabling in existing S/S's in New Hetauda and New Butwal & at Ratamate office, equipment room , guard room , control buiding,	The entire requirement to fulfill the tasks will be in the scope of the contractor.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		switchyard room will be in scope of MCA/NEA. Please confirm	
37.	<b>LOT 2-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 1.1 b), 1.1 d), 1.1 e) &amp; 1.1 f)</b>	<p>We understand scope of work involves supply of new SDH and Multiplexer equipment at New Butawal GIS S/S and augmentation of existing SDH equipment at Indian Border Gorakhpur &amp; New Damauli. In view of the same, please provide following:</p> <p>a) Make &amp; Model of existing SDH cum Multiplexer equipment at Gorakhpur, India &amp; New Damauli</p> <p>b) STM level (STM-1/4/16)</p> <p>c) Slot/optical &amp; Electrical interface cards/ports availability for proposed integration with new SDH at New Butawal GIS S/S in MCA/NEA scope.</p> <p>d) Please confirm modification of configuration in existing SDH Equipments at Gorakhpur &amp; New Damaulii wil be in employer scope.</p> <p>e) Please confirm new SDH Equipments can be proposed at Gorakhpur &amp; New Damauli in-lieu of integration/interfaces requirement of new proposed SDH equipment at New Butwal S/S with existing SDH equipment at Gorakhpur &amp; New Damauli SS . Please confirm</p>	<p>a) &amp; b) To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment</p> <p>c) &amp; d) Interface cards and modifications within Contractor’s scope of works</p> <p>e) To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA and Indian network equipment</p>
38.	<b>LOT 2-Section V, B1.2, CHAPTER 12:</b>	1. Please confirm requirement under this project is Digital Protection Coupler is for Distance	1 and 2. Refer to #20 above.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	TELECOMMUNICATIONS SPECIFICATION, Clause 2.1 c) iv, e) & PSR, Clause 2.1.1 a)	<p>Protection only &amp; no differential Protection interface are required.</p> <p>2. Please confirm DPC qty &amp; same is to be offered distance protection for following lines:</p> <p>New Butawal- New Damauli 400kV D/C - 8 Nos. (4 at each end, 4 Nos. for New Damauli will be considered in LOT-3)</p> <p>New Butawal- Gorakhpur 400kV D/C - 4 Nos. (2 at each end).</p> <p>Analog Protection Coupler through PLCC</p> <p>New Butawal- Gorakhpur 400kV D/C - 4 Nos. (2 at each end)</p> <p>3. Please confirm proposed DPC &amp; existing SDH at Gorakhpur S/S are located in control room &amp; same is not kiosk based &amp; DPC panel situated within distance of 40 meter &amp; there is no requirement of E1-FO COnverter for E1 extension for DPC to SDH interfacing.</p>	3. Contractor is responsible to provide a complete and functional solution consistent with protection schemes and meet NEA and Indian Utility requirements for purpose of compatibility.
39.	<b>LOT 2</b> -Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 1.1 i)	Please confirm whether Digital Type Measuring equipment are to be supplied. If yes provide detailed specification & quantities of Measuring equipment so that all bidders will be on same platform.	Please refer response to clarification for S.N. 21
40.	Section V, B1.2,	Please confirm whether Testing Tools for STM-1,4, 16 & 64 are to be supplied. If yes provide detailed specification & quantities of Measuring	Please refer response to clarification for S.N. 22

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><b>LOT 2-CHAPTER 12:</b> TELECOMMUNICATIONS SPECIFICATION, Clause 1.2 i)</p>	<p>equipment so that all bidders will be on same platform.</p>	
41.	<p><b>LOT 2-Section V, B1.2, CHAPTER 12:</b> TELECOMMUNICATIONS SPECIFICATION, Clause 2 c)</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>Please refer response to clarification for S.N. 23</p>
42.	<p><b>LOT 2-Section V, B1.2, CHAPTER 12:</b> TELECOMMUNICATIONS SPECIFICATION, Clause 2.1 b) to e)</p>	<p>1. Requirement of SDH Equipment not clear , please confirm whether SDH Equipment requirement is for STM-1/4/16</p> <p>2. Upgradability to STM-64 is not understood nas 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</p> <p>3. SDH Technology is getting obsolete &amp; only few selected manufacturers in Power Utility domain manufactures SDH equipments which supports STM-64 upgradability. Most of Utilities including NEA are transitioning for existing SDH installed base to MPLS-TP. Hence we request MCA to either limit the requirement to STM-1/4/16 which is used in NEA network in existing &amp; ongoing requirements or in case much more</p>	<p>Please refer response to clarification for S.N. 24</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		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.	
43.	<b>LOT 2-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 2.1 j)</b>	Requirement is not clear. Is it requirement of 13 Nos. D&I Mux at Ratamate S/S or same is mentioned by mistake. Please provide detailed requirement for this point or else delete this clause.	Please refer response to clarification for S.N. 25
44.	<b>LOT 2-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 2.1 q)</b>	Please confirm type of optical interfaces proposed under this project for optical links to be proposed under this project i.e STM-4 or STM-16.	Please refer response to clarification for S.N. 24
45.	<b>LOT 2-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 2.2 b) &amp; c)</b>	<p>1. We 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> <p>3. In case bidder offers equivalent MPLS-TP 1G 5 Protected directions will it be acceptable. Please confirm.</p>	Please refer response to clarification for S.N. 27

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
46.	<b>LOT 2-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 2.2 j) &amp; 2.2.1</b>	<p>"1. Please confirm whether new NMS to be supplied for monitoring of offered NG-SDH Equipment at Ratamate S/S or bidder has to supply only 03 Nos. LCT terminals loaded with craft terminal software for maintenance, configuration &amp; provisioning.</p> <p>2. Please confirm Laptops should be workstation based &amp; no laptop is required.</p> <p>3. In case only Craft terminals to be offered then requirement of integration with full NMS server is not understood. If OEM didn't have existing NMS in NEA/MCA network how to integrate craft terminal as existing NMS is proprietary in nature.</p>	Please refer response to clarification for S.N. 28
47.	<b>LOT 2-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 3.4</b>	Please confirm whether 24F or 48F Fiber Rackmounted /Wall Mounted fiber FODP to be proposed at New Butawal GIS S/S.	48F FODP
48.	<b>LOT 2-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 11 &amp; GTR Clause 10.3 &amp; 1.3</b>	Please confirm requirement of Type tests for Telecom is 10 years of 5 Years as both Technical specifications, PSR & GTR requirement are conflicting.	Please refer response to clarification for S.N. 30
49.	<b>LOT 2-Section V, B1.2, CHAPTER 12: TELECOMMUNICATIONS SPECIFICATION, Clause 11.8 d)</b>	Please confirm whether Testing Tools are to be supplied. If yes provide detailed specification & quantities of Testing tools so that all bidders will be on same platform.	Please refer response to clarification for S.N. 31

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
50.	<b>LOT 2-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 1</b>	Please provide configuration of offered EPABX system as details not provided TS/Technical datasheet i.e 1. no. Analog/ Digital Subscribers, 2. no. of IP Subscribers, 3. No. of E1 Interface, 4. No. of E&M Interface 5. CO Lines 6. Power Supply & Control Card Redundancy required or not 7. Operater Console PC Based or Phone based 8. Analog Subscriber qty & specification 9. Digital Subscriber phone qty & specification 10. Attendant Phones qty & specification 11. Outdoor Telephone Sets quantity & Specification 12. IP Phone Qty & specification (SIP based or open SIP)	Please refer response to clarification for S.N. 32
51.	<b>LOT 2-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2</b>	We understand RATAMATE S/S is mentioned by mistake & same should be read as New Butawal & there is integration requirement with RATAMATE S/S. Please confirm	Bidders may please review Figure-1 under CHAPTER-13 for better understanding. New Butwal phone remote extension from Ratmate PABX.
52.	<b>LOT 2-Section V, B1.2, CHAPTER 13: TELEPHONE</b>	Telephone Cabling in existing S/S's in New Damauli 1 & at New Butawal office, equipment	All telephone cabling is included in the Contractor's scope of works



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	SYSTEM SPECIFICATION, Clause 2.2 h)	room, guard room , control buiding, switchyard room will be in scope of MCA/NEA. Please confirm	
53.	<b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 1.1 b), d) &amp; e)</b>	We 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 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.
54.	<b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 1.1 c) iv &amp; b)</b>	<p>1. Please confirm requirement under this project is Digital Protection Coupler is for Distance Protection only &amp; no differential Protection interface is required.</p> <p>2. Please confirm DPC qty &amp; same is to be offered distance protection for following lines:</p> <p>Ratamate- New Damauli 400kV D/C - 8 Nos. (4 at each end)</p> <p>New Butawal- New Damauli 400kV D/C - 8 Nos. (4 at each end, 4 Nos. of New Butawal considered in LOT-2).</p> <p>3. Please provide specifiation of Digital protection coupler. Whether NEA specification of DPC i.e 4 commmand , E1 , 48 V DC operated , COMamdn voltage upto 220VDC to be followed or additional IEC61850 ed.2 goose messaging support to be available in offered DIgital Protection coupler equipment. Please confirm.</p>	Please refer response to clarification for S.N. 20

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
55.	<b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 1.1 h)</b>	Please confirm whether Digital Type Measuring equipment is to be supplied. If yes, provide detailed specification & quantities of Measuring equipment so that all bidders will be on same platform.	Please refer response to clarification for S.N. 21
56.	<b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 1.2 i)</b>	Please confirm whether Testing Tools for STM-1,4, 16 & 64 are to be supplied. If yes, provide detailed specification & quantities of Measuring equipment so that all bidders will be on same platform.	Please refer response to clarification for S.N. 22
57.	<b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2 c)</b>	Please confirm requirement of new RFTU for integration to existing NEA EXFO Fiber Remote Fiber Testing System. Whether supply of the same in scope or not? Please provide detailed specification & quantity for this requirement.	Please refer response to clarification for S.N. 23
58.	<b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2.1 b) to e)</b>	<p>1. Requirement of SDH Equipment not clear , please confirm whetehr SDH Equipment requirement is for STM-1/4/16</p> <p>2. Upgradability to STM-64 is not understood nas 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 upfgraded in fiuture with MPLS-TP interface cards, will it be acceptable to MCA. Please confirm</p> <p>3. SDH Technology is getting obsolete &amp; only few selected manufacturers in Power Utility</p>	Please refer response to clarification for S.N. 24

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>domain manufactures SDH equipments which supports STM-64 upgradability. Most of Utilities including NEA are transitioning for existing SDH installed base to MPLS-TP. Hence we request MCA to either limit the requirement to STM-1/4/16 which is used in NEA network in existing &amp; ongoing requirements or in case much more capacity requirement please consider Hybrid MPLS-TP equipment which supports MPLS-TP/SDH/PDH with 1 G or 10G interfaces additionally it can provide STM-1/4/16 interfaces for interfacing with existing SDH equipment.</p>	
59.	<p><b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2.1 j)</b></p>	<p>Requirement is not clear. Is it requirement of 13 Nos. D&amp;I Mux at Ratamate S/S or same is mentioned by mistake. Please provide detailed requirement for this point or else delete this clause.</p>	<p>Please refer response to clarification for S.N. 25</p>
60.	<p><b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2.1 q)</b></p>	<p>Please confirm type of optical interfaces proposed under this project for optical links to be proposed under this project i.e STM-4 or STM-16.</p>	<p>Please refer response to clarification for S.N. 24</p>
61.	<p><b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2.2 b) &amp; c)</b></p>	<p>1. We 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</p>	<p>Please refer response to clarification for S.N. 27</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>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> <p>3. In case bidder offers equivalent MPLS-TP 1G 5 Protected directions will it be acceptable. Please confirm.</p>	
62.	<p><b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2.2 i) &amp; 2.2.1</b></p>	<p>1. Please confirm whether new NMS to be supplied for monitoring of offered NG-SDH Equipment or bidder has to supply only 03 Nos. LCT terminals loaded with craft terminal software for miantenance, configuration &amp; provisioning.</p> <p>2. Please confirm Laptops should be workstation based &amp; no laptop to be provided for this requirement.</p> <p>3. In case only Craft terminals to be offered then requirement of integration with full NMS server is not understood. If OEM didn't have existing NMS in NEA/MCA network how to integrate craft terminal as existing NMS is proprietary in nature.</p>	Please refer response to clarification for S.N. 28
63.	<p><b>LOT 3-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 3.4</b></p>	Please confirm whether 24 F or 48F Fiber Rackmounted /Wall Mounted fiber FODP to be proposed at New Damauli GIS S/S.	Please refer response to clarification for S.N. 29
64.	<p><b>LOT 3-Section V, B1.2, CHAPTER 13:</b></p>	Please confirm requirement of Type tests for Telecom is 10 years of 5 Years as both Technical	Please refer response to clarification for S.N. 30

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	TELECOMMUNICATIONS SPECIFICATION, Clause 11 & GTR Clause 10.3 & 1.3	specifications, PSR & GTR requirement are conflicting.	
65.	<b>LOT 3</b> -Section V, B1.2, CHAPTER13: TELECOMMUNICATIONS SPECIFICATION, Clause 11 & GTR Clause 10.8	Please confirm whether Testing Tools are to be supplied. If yes provide detailed specification & quantities of Testing tools so that all bidders will be on same platform.	Please refer response to clarification for S.N. 31
66.	<b>LOT 3</b> -Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 1	Please provide configuration of offered EPABX system at RATAMATE S/S as details not provided TS/Technical datasheet i.e 1. no. Analog/ Digital Subscribers, 2. no. of IP Subscribers, 3. No. of E1 Interface, 4. No. of E&M Interface 5. CO Lines 6. Power Supply & Control Card Redundancy required or not 7. Operater Console PC Based or Phone based 8. Analog Subscriber qty & specification 9. Digital Subscriber phone qty & specification 10. Attendant Phones qty & specification	Please refer response to clarification for S.N. 32

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>11. Outdoor Telephone Sets quantity &amp; Specification</p> <p>12. IP Phone Qty &amp; specification (SIP based or open SIP)</p>	
67.	<p><b>LOT 3</b>-Section V, B1.2, CHAPTER 13: TELEPHONE SYSTEM SPECIFICATION, Clause 2.2 h)</p>	<p>Telephone Cabling in existing S/S's in New Butwal &amp; at New Damauli office, equipment room , guard room , control buiding, switchyard room will be in scope of MCA/NEA. Please confirm</p>	<p>Please refer response to clarification for S.N. 37</p>
68.	<p>Section III: Qualification and Evaluation Criteria, Sub-factor-16, Similar Construction Experience</p>	<p><b>Deletion of</b> <u>“To be eligible for award of more than one lot, the bidder needs to satisfy the total requirements for the lots in consideration.”</u></p> <p><b>Deletion of</b> <u>“at least one (1) of them being outside the contractor’s home country of any value and voltage level”.</u></p>	<p>The request will be reviewed by MCA-Nepal and if acceptable, may issue an addendum to the bidding document after receiving approval from authorities.</p>
69.	<p>Section III: Qualification and Evaluation Criteria, Sub-factor-11, Annual Average Turnover (11.1 and 11.2)</p>	<p><b>Deletion of</b> <u>“To be eligible for award of more than one lot, the bidder needs to satisfy the total requirements for the lots in consideration.”</u></p> <p>Instead, would suggest incorporate average of best 3 years Turnover within the limit of USDM 160.0.</p>	<p>The request will be reviewed by MCA-Nepal and if acceptable, may issue an addendum to the bidding document after receiving approval from authorities.</p>
70.	<p>Section III: Qualification and Evaluation Criteria, Sub-factor-11, Annual Average Turnover (11.2)</p>	<p>A certificate from Chartered Accountant may please be accepted for design turnover.</p>	<p>After receiving approval from authority, MCA-Nepal is expecting to issue an addendum to the Bidding Document</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
			requirement. However, until there is no addendum to the Bidding Document, the requirement in the issued Bidding Document shall prevail.
71.	<p><b>Common for all Lots-</b> Part 2: Employer's Requirement Section V – B1 (Project Specific Requirements)</p> <p><b>3.17 CIVIL &amp; STRUCTURAL WORKS</b></p>	<p>Please provide the following details for the proposed Ratmate, Butwall, &amp; Damuali SS,</p> <ol style="list-style-type: none"> <li>1. High Flood Level</li> <li>2. Finished Ground level</li> <li>3. All corners Global co-ordinates"</li> </ol>	<p>Only Boundary Coordinates are available, which will be shared separately. Nevertheless, Bidders are encouraged to visit the sites to carry out the necessary analysis as per the requirements.</p>
72.	<p><b>Common for all Lots-</b> Part 2 - Employer's Requirement-20230327T130257Z-001\Part 2 - Employer_s Requirement\B01_GPD\Annex_B01\Annex_B01_10_Geotech_report</p> <p><b>Geohazard</b></p>	<p>Based on referred report, we understand that the Geohazard report is attached for TL portion.</p> <p>Kindly provide the following details for the proposed Ratmate, Butwall &amp; Damuali SS area.</p> <ol style="list-style-type: none"> <li>1. Bore Hole log details</li> <li>2. SBC calculations</li> <li>3. Foundation recommendation"</li> </ol>	<p>Reports to be provided based on the availability of the same. The provided reports will be for reference purpose only and therefore, Bidders are advised to carry out the necessary analysis as per the requirements, which will be subject to the revision during detailed engineering with no additional financial, technical or resource implications upon MCA-Nepal.</p>
73.	<p><b>Common for all Lots-</b> Dwg no: RTE-400-1 (Rev-2) Dwg no: NDM-400-1 (Rev-2)</p> <p><b>Contour levels</b></p>	<p>We wish to inform that, in referred layout contour lines are indicated. However the levels of contour is not provided.</p> <p>kindly provide the contour levels for the indicating with spot levels for the proposed Ratmate &amp; Damuali SS.</p> <p>For site development work.</p>	<p>Reports to be provided based on the availability of the same. The provided reports will be for reference purpose only and therefore, Bidders are advised to carry out the necessary analysis as per requirements subject to the revision during detailed engineering with no financial, technical or resource implications upon MCA-Nepal.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
74.	<p><b>Common for all Lots-</b>  Dwg no: RTE-400-1 (Rev-2)  Dwg no: NDM-400-1 (Rev-2)  Dwg no: NBW-400-1 (Rev-1)</p>	<p>Contour map with existing spot levels provided for Ratmate , Butwall &amp; Damuali Substations in PDF format. Please furnish the same in Autocad format, In order to workout the site grading works/layout arrangements</p>	<p>Reports to be provided based on the availability of the same. The provided reports will be for reference purpose only and therefore, Bidders are advised to carry out the necessary analysis as per the requirements, which will be subject to the revision during detailed engineering with no additional financial, technical or resource implications upon MCA-Nepal.</p>
75.	<p><b>Common for all Lots-</b>  Part 2: Employer’s Requirement  Section V – B1 (Project Specific Requirements)  SECTION 1: GENERAL CIVIL WORKS SPECIFICATION</p> <p>Dwg no: RTE-400-1 (Rev-2)  Dwg no: NDM-400-1 (Rev-2)  Dwg no: NBW-400-1 (Rev-1)</p> <p><b>Cl.no: 3.1. CONTOUR SURVEY &amp; SITE LEVELLING:</b></p>	<p>As per refered clause, it is mentioned that, The contractor will level the area required for construction of substation work either at single level, multi-level or gradual slope with the finished ground level as approved by the Engineer during detailed engineering based on the highest flood level.</p> <p>Based on plan &amp; elevation enclosed with tender document, we understand that the proposed SS shall be developed with Sloped terrace.</p> <p>In referred drawing of grading plan, the quantity of cutting and filling for the proposed SS is indicated as below</p> <p>1. Ratmate S/S - Cutting - 101506.18 cu.m, filling - 110265.82 cu.m</p>	<p>The provided reports are for reference purpose only and therefore, Bidders are advised to carry out the necessary analysis as per the requirements, subject to the revision during detailed engineering with no financial, technical or resource implications upon MCA-Nepal.</p> <p>Levelling shall be done for the full scope area as shown in RTE-210-1.</p>



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>2. Butwall S/S - Cutting - 19189.31 cu.m , Filling - 13658 cu.m</p> <p>3. Damuali S/S - Cutting - 31450 cu.m , filling - 29981.61 cu.m</p> <p>We trust that, the above mentioned quantity is to be quoted for the substation site grading activity. Based on actual site condition, If any additional quantity is required during detailed engineering stage, the same shall be paid as an additional item with mutually agreed rate.</p> <p><b>please confirm.</b></p> <p>Also, kindly clarify whether the site levelling work shall be done only present scope of work area or future area. "</p>	
76.	<p><b>Common for all Lots- Price schedule :</b> 221031_Lot3_NDM_PS_Base Schedule No. 4.3 : Breakdown of Civil Works <b>Cl.no: 4.3.2.1</b></p>	<p>As per referred clause, it is mentioned that Improvement of Access Road as required to Substation is in bidders scope.</p> <p>Kindly provide the following details for the access road.</p> <ol style="list-style-type: none"> <li>1. Access road width</li> <li>2. Access road type (bitumen/WBM or Concrete)</li> <li>3. Existing condition of access road.</li> <li>4. Required length of access road (from main road to SS entry).</li> </ol>	<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>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		5. Drawing of Access road	
77.	<p><b>Common for all Lots- Price schedule :</b> 221031_Lot1_Rat_PS_Base Schedule No. 4.3: Breakdown of Civil Works <b>Cl.no: 4.3.2.1</b></p>	<p>As per referred clause, it is mentioned that Improvements of existing earthen access road to asphalted road up to substation is in bidders scope.</p> <p>Kindly provide the following details for the access road.</p> <ol style="list-style-type: none"> <li>1. Access road width</li> <li>2. Existing condition of access road.</li> <li>3. Required length of access road (from main road to SS entry).</li> <li>4. Drawing of Access road</li> </ol>	<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>
78.	<p><b>Common for all Lots- Part 2: Employer’s Requirement Section V – B1 (Project Specific Requirements)</b> Cl. No: 3.20 LIMIT SCOPE OF SUPPLY AND INTERFACES</p>	<p>Based on referred clause, We trust that the following works are not in bidder scope. (for all Substations)</p> <ol style="list-style-type: none"> <li>1. Boundary wall along with main gate.</li> <li>2. River protection work</li> <li>3. Security cabin</li> <li>4. Quarters building/ transit house</li> <li>5. Transmission line</li> </ol> <p>Kindly confirm.</p>	<ol style="list-style-type: none"> <li>1. Boundary Wall for the entire property are not part of the Lot Substations, however, the fence for the station (<i>Footprint under the substation</i>) is in the scope of the Contract.</li> <li>2. Included in bidder scope, as applicable (refer details for different lots)</li> <li>3. As mentioned in the bid.</li> <li>4. As mentioned in the bid</li> <li>5. Not included in bidder scope</li> </ol>
79.	<p><b>Common for all Lots- Price schedule :</b> 221031_Lot3_NDM_PS_Base</p>	<p>We wish to inform that, the construction of retaining wall is not mentioned in scope of work &amp; price schedule.</p>	<p>As it is a Design &amp; Build Contract, the exact assessment of required civils works is in the present scope of Bid. It is the</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p>Schedule No. 4.3 : Breakdown of Civil Works</p> <p>Price schedule : 221031_Lot1_Rat_PS_Base</p> <p>Schedule No. 4.3 : Breakdown of Civil Works</p> <p>Price schedule : 221031_Lot2_NBW_PS_Base</p> <p>Schedule No. 4.3 : Breakdown of Civil Works</p> <p><b>Cl.no: 4.2 Breakdown of Earthworks</b></p>	<p>We trust that, the retaining wall if required during detailed engineering stage the same shall be paid as an additional item with mutually agreed rate.</p> <p>Kindly confirm.</p>	<p>bidder's responsibility to quote sufficiently to address the requirement. However, MCA-Nepal will review the proposal and may issue an addendum, if required.</p>
80.	<p><b>Common for all Lots-</b> Part 2: Employer's Requirement Section V – B1 (Project Specific Requirements)</p> <p>221123_Lot1_RAT_PSR</p> <p>221123_Lot2_NBW_PSR</p> <p>221123_Lot3_NDM_PSR</p> <p><b>Cl.no: 3.21 LIMIT SCOPE OF SUPPLY AND INTERFACES</b></p> <p><b>3.20 LIMIT SCOPE OF SUPPLY AND INTERFACES</b></p>	<p>As per referred clause, the boundary wall is not in bidders scope for the proposed package.</p> <p>The river protection work/ flood protection work is to be constructed outside the boundary wall. Since the boundary wall is excluded from the scope of bidder, we trust that the river protection work/ flood protection work is also excluded from the scope of this bid.</p> <p><b>please confirm.</b></p>	<p>Boundary Wall for the entire property are not part of the Lot Substations, however, the fence for the station (Footprint under the substation) is in the scope of the Contract. River protection/Flood protection works are included in bidders scope, as applicable. Bidders are suggested to refer to the detailed scope of works of different lots for better clarifications.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<b>3.20 LIMIT SCOPE OF SUPPLY AND INTERFACES</b>		
81.	<p><b>Common for all Lots-</b> Part 2: Employer’s Requirement Section V – B1 (Project Specific Requirements)</p> <p>221123_Lot1_RAT_PSR</p> <p>221123_Lot2_NBW_PSR</p> <p>221123_Lot3_NDM_PSR</p> <p><b>"Cl.no: 3.21 LIMIT SCOPE OF SUPPLY AND INTERFACES</b></p> <p><b>3.20 LIMIT SCOPE OF SUPPLY AND INTERFACES</b></p> <p><b>3.20 LIMIT SCOPE OF SUPPLY AND INTERFACES"</b></p>	<p>As per referred clause, the boundary wall is not in bidders scope for the proposed package.</p> <p>The external drainage work is to be constructed outside the boundary wall. Since the boundary wall is excluded from the scope of the bidder, we trust that the external drainage work is also excluded from the scope of this bid.</p> <p><b>please confirm.</b></p>	Please refer response to clarification for S.N. 81
82.	<p><b>Common for all Lots-</b> Price schedule : 221031_Lot3_NDM_PS_Base Schedule No. 4.3 : Breakdown of Civil Works</p> <p>Price schedule : 221031_Lot1_Rat_PS_Base Schedule No. 4.3 : Breakdown of Civil Works</p>	<p>As per scope of work, the Lighting Mast structure is in bidders scope.</p> <p>However in civil erection schedule, the LM structure foundation item is not included.</p> <p>Kindly include the same in civil schedule.</p>	LM structure foundations will be added in lot as an addendum subjected to approval by the authority.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	Price schedule : 221031_Lot2_NBW_PS_Base Schedule No. 4.3 : Breakdown of Civil Works <b>Cl.no: 4.3.1 Foundations</b>		
83.	<b>Common for all Lots-</b> Part 2: Employer's Requirement Section V – B1 (Project Specific Requirements) <b>Cl.no: 3.17 CIVIL &amp; STRUCTURAL WORKS</b>	If earth fill depths are high, the foundations can be rested on filled up soil after ensuring proper compaction formed by plate load test or the applicable Geo-tech tests.  Kindly confirm.	These details will be a part of the Contractor's detailed design, subject to approval by the Engineer.
84.	<b>Common for all Lots-</b> Part 2: Employer's Requirements Section V – B1 (Technical Specifications) <b>Clause no: 6. SITE DRAINAGE</b>	As per scope of work, the internal drainage is in bidder scope. However in specification the following details are not provided.  kindly specify the following details for switchyard drainage work:  1. Type of drain (Brick masonry or Concrete)  2. whether both sides of road or single side of road to be provided.	Please refer Clause 6 of Chapter 9 of Employer's Requirement. The Contractor will propose the design and implementation of the same will be done subject to the approval of the Engineer.
85.	<b>Common for all Lots-</b> Part 2: Employer's Requirements Section V – B1 (Technical Specifications)  SECTION 1: GENERAL CIVIL WORKS SPECIFICATION	In referred clause it is mentioned that, the levelling area shall be decided by the Engineer during the detailed Engineering stage. Since the site levelling activity is paid in lumpsum basis.  Kindly specify the area to be developed for the proposed scope of this bid for all Substation.	Relevant kmz file will be shared separately with the bidders for necessary estimation.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<b>Clause no: 3. CONTOUR SURVEY, SITE LEVELLING</b>		
86.	<p><b>Common for all Lots-</b> Part 2: Employer's Requirements Section V – B1 (Technical Specifications)</p> <p>B1.1 PROJECT SPECIFIC REQUIREMENT (PSR)</p> <p><b>Clause no: 3.CONTOUR SURVEY, SITE LEVELLING</b></p>	<p>In referred clause it is mentioned that, Irrespective of the Base Scope or Option to be selected by the Employer, the scope of work shall include construction of the GIS buildings, control buildings, station services, and site preparation and grading for the full scope of work, as shown on the single line and layout drawings. Since the site levelling activity is paid in lumpsum basis.</p> <p>Kindly specify the area to be developed for the proposed Base scope and Optional scope of this bid for all Substations.</p>	Please refer response to clarification for S.N. 86
87.	<p><b>Common for all Lots-</b> Part 2: Employer's Requirements Section V – B1 (Technical Specifications)</p> <p>CHAPTER 9: CIVIL WORKS SPECIFICATION SECTION 2: BUILDINGS SPECIFICATION</p> <p><b>Clause no: 1. Scope</b></p>	<p>Based on referred clause, we understand that the all buildings (GIS building, Control room building, FFPH, DG building) shall be RCC framed structure. (for all locations)</p> <p>Please confirm.</p>	Please refer to the provision of the bid.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
88.	<p><b>Common for all Lots-</b> ENVIRONMENTAL IMPACT ASSESSMENT REPORT For ELECTRICITY TRANSMISSION PROJECT (400 kV) NEPAL VOLUME—I Clause no: 2.7.1.2 Substation Construction Activities</p>	<p>In referred clause it is mentioned that, The D&amp;B Contractor may decide to use helicopters to transport some equipment or materials to the three proposed new substation sites, and if so, will have a designated helicopter landing pad.</p> <p>We trust that, the helicopter landing pad is not envisaged for the proposed Substations (all location) please confirm.</p>	<p>The current situation does not envisage the need of Helicopter transportation. However, the bidders are requested to assess the situation independently and propose accordingly based on the requirements.</p>
89.	<p><b>Common for all Lots-</b> B1.1 PROJECT SPECIFIC REQUIREMENT (PSR)  Cl.no: 3.17.2.12 DRAINAGE AND SEWAGE SYSTEM</p>	<p>Referred clause is mentioned as, The storm water drainage system collects only clean storm water which should be discharged into the storm water system of the zone.</p> <p>Kindly provide the discharge point or discharge length from SS main gate to storm water zone.</p>	<p>Since it is a DB Contract, the Bidders are requested to carry out their own analysis and decide also based on other adjacent NEA's projects as applicable.</p>
90.	<p><b>Common for all Lots-</b> B1.1 PROJECT SPECIFIC REQUIREMENT (PSR) Cl.no: 3.17.2.14 SPECIFIC CIVIL WORKS IN THE SUBSTATION</p>	<p>Please provide the hydrological study report for the proposed Ratmate, Butwall substation.</p> <p>In order to estimate the quantum of work.</p>	<p>Hydrological studies for New Butwal and Ratmate are not available with us. Since it is a DB Contract, the Bidders are requested to carry out their own analysis as per the requirements.</p>
91.	<p><b>Common for all Lots-</b> Part 2: Employer's Requirements Section V – B1 (Technical Specifications)</p>	<p>Based on referred clause we understand that, the lean concrete grade shall be 1:4:8, RCC (substructure, super structure &amp; piling) grade shall be M25 and reinforcement grade shall be Fe500.</p>	<p>Confirmed.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	SECTION 3: CONCRETE SPECIFICATION <b>Cl.no: 3.17.2.14 SPECIFIC CIVIL WORKS IN THE SUBSTATION</b>	Please confirm.	
92.	<b>Electrical</b> Ratmate Substation, 221031_Lot1_Rat_PS_Base & 221123_Lot1_Rat_PS_Option & 2.5 AC AND DC STATION SUPPLY	i) Please confirm whether the Breakup given for LT panels in referred item of BPS are actual requirement to be followed or minimum requirement.  ii) There are some discrepancies with feeder quantity & rating of incomer / feeder between input SLDs given for LVAC & DC panels and BPS. Please confirm the actual requirement to be followed.  Please check & confirm the actual requirement.  iii) We understand the feeders in AC Distribution board shall be considered only for the 400kV & 220kV system which is under the scope of this package. Please confirm.	i) This is the minimum requirement and the same shall be revised during detailed engineering. ii) We shall address discrepancies if any through addendum. iii) Yes, you are right.
93.	<b>Electrical</b> New Ratmate Substation, 221123_Lot1_Rat_PS_Option, 2.6 400kV Gas Insulated Switchgear	Please check the following points & revise the BPS to quote accordingly,  i) In clause 2.6.2.4, for 400/220kV transformer bays, quantity of Maintenance earth switch is mentioned as 4 nos, which shall be 8 nos. as per requirement.	i) MCA-Nepal will issue an addendum to correct the number of maintenance earth switches (8 nos./sets) ii) MCA-Nepal will issue an addendum to correct the number of bays (3 bays).



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>ii) In clause 2.6.2.15, for 400/220kV transformer bays, quantity of three single phase Gas insulated bus and required GIS termination bushing... is mentioned as 4 bays which shall be 3 bays as per requirement.</p>	
94.	<p><b>Electrical</b> New Ratmate Substation, 221123_Lot1_Rat_PS_Option, 2.7 220kV Gas Insulated Switchgear</p>	<p>Please check the following points &amp; revise the BPS to quote accordingly,</p> <p>i) In clause 2.7.1.4, for 220kV line bays, quantity of Maintenance earth switch is mentioned as 8 nos which shall be 16 nos. as per requirement.</p> <p>iv) In clause 2.7.1.7, for 220kV line bays, quantity of Line/feeder side disconnect switch is mentioned as 2 nos which shall be 8 nos. as per requirement.</p> <p>ii) In clause 2.7.2.8, for 220kV transformer bays, quantity of Transformer Maintenance earth switch is mentioned as 3 nos, which shall be 8 nos. as per requirement.</p> <p>iii) In clause 2.7.2.15, for 220kV transformer bays, quantity of three single phase Gas insulated bus and required GIS termination bushing... is mentioned as 6 bays which shall be 5 bays as per requirement</p>	<p>i) MCA-Nepal will issue an addendum to correct the number of maintenance earth switch (16 nos. as per the requirements).</p> <p>ii) MCA-Nepal will issue an addendum to correct the number of maintenance earth switch (8 nos. as per the requirements).</p> <p>iii) MCA-Nepal will issue an addendum to correct the number of maintenance earth switch (8 nos. as per the requirements).</p> <p>iv) MCA-Nepal will issue an addendum to correct the number of bays (5 bays as per the requirements).</p>
95.	<p><b>Electrical</b> New Ratmate Substation, 221123_Lot1_Rat_PS_Option,</p>	<p>The quantity of line &amp; transformer protection panels including future bays are mentioned as follows:</p>	<p>Please follow as per the provisions of the bidding document.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p>2.8 Complete with control &amp; protection up to GIB sealing end for all Feeder and Transformer Bays.</p>	<p>i) 2.8.1.2 - 400kV Line protection panel - 10 nos  ii) 2.8.1.3 - 400kV transformer protection panel - 3 nos  iii) 2.8.2.2. - 220kV transformer protection panel - 5 nos</p> <p>However, as per Project specific requirement, clause 2.2.1, it is mentioned that, ""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."" Based on the above point, we understand that Protection panel for the future bays are not required to be included under present scope. Only CB protection of the diameter is required. Please confirm &amp; segregate the line item for present &amp; future bays in the BPS.</p>	
96.	<p><b>Electrical</b>  New Ratmate Substation,  221031_Lot1_Rat_PS_Base &amp;  221123_Lot1_Rat_PS_Option,  2.8.4.10 &amp; 2.8.4.11</p> <p>New Butwal Substation,</p>	<p>As per the referred clause, we presume that 400kV metering is required only for incoming &amp; outgoing line bays. Please confirm.</p> <p>As per the referred line item, Metering for 220kV system is mentioned. Please check &amp; clarify the requirement, as all the 220kV line bays are under future scope &amp; only the respective 220kV GIS modules are under present scope. Please confirm.</p>	<p>Confirmed.</p> <p>New Butwal 220kV line equipment is not included in the scope.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	221031_Lot2_NBW_PS_Base & 221123_Lot2_NBW_PS_Option, 2.7.4.10 & 2.7.4.11		
97.	<p><b>Electrical</b> New Butwal Substation, 221031_Lot2_NBW_PS_Base &amp; 221123_Lot2_NBW_PS_Option</p> <p>2.5 AC AND DC STATION SUPPLY</p>	<p>i) Please confirm whether the Breakup given for LT panels in referred item of BPS are actual requirement to be followed or minimum requirement.</p> <p>ii) There are some discrepancies with feeder quantity &amp; rating of incomer / feeder between input SLDs given for LVAC &amp; DC panels and BPS. Please confirm the actual requirement to be followed.</p> <p>iii) The proposed LT panels shall be for 400kV present &amp; future scope only and 220kV extension shall be supplied from existing LT panels located at 220/132kV Butwal Substation. Please confirm whether the bidder's understanding is correct.</p> <p>iv) And please confirm, whether the spare feeders are available with existing LT panels for 220kV bay extension.</p>	<p>i. This is the minimum requirement and the same shall be revised during detailed engineering. MCA-Nepal will issue the necessary addendums, if needed.</p> <p>ii. We shall address discrepancies if any through addendum.</p> <p>iii. Confirmed.</p> <p>iv. Confirmed.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
98.	<p><b>Electrical</b> New Ratmate Substation, 221031_Lot2_NBW_PS_Base, 2.6 400kV Gas Insulated Switchgear, 2.6.2.7</p>	<p>In referred clause, the quantity of Transformer disconnect switch is mentioned as 4 nos which shall be 2 nos. as per requirement. Please check &amp; revise the BPS to quote accordingly.</p>	<p>MCA-Nepal will issue an addendum for to correct the number of disconnecting switch (2 nos. as per the requirements).</p>
99.	<p><b>Electrical</b> New Ratmate Substation, 221031_Lot1_Rat_PS_Base &amp; 221123_Lot1_Rat_PS_Option, 2.1.1</p> <p>New Butwal Substation, 221031_Lot2_NBW_PS_Base &amp; 221123_Lot2_NBW_PS_Option, 2.1.1</p> <p>New Damauli Substation 221031_Lot3_NDM_PS_Base &amp; 221123_Lot3_NDM_PS_Option,2 .1.1</p>	<p>We presume that price of outdoor AIS Surge arrester for Transformer bays (HV, LV, &amp; IV side) shall be included in the referred line item. Please confirm</p>	<p>Confirmed.</p>
100.	<p><b>Electrical</b> New Butwal Substation 221123_Lot2_NBW_PS_Option, 2.6 400kV Gas Insulated Switchgear</p>	<p>Please check the following points &amp; revise the BPS accordingly:</p> <p>i) In clause 2.6.1.5, quantity of Line/feeder High speed earth switch is mentioned as 20 nos which shall be 10 nos. as per requirement.</p>	<p>i) MCA-Nepal will issue an addendum to the bidding document to correct the number of Line/feeder high-speed earth switch as per the requirements (10 nos.).</p> <p>ii) MCA-Nepal will issue an addendum to the bidding document to correct the</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>ii) In clause 2.6.1.6, quantity of Voltage transformer is mentioned as 20 nos which shall be 10 nos as per requirement.</p> <p>iii) In clause 2.6.2.6, quantity of Voltage transformer is mentioned as 2 nos, which shall be 4 nos. as per requirement.</p>	<p>number of Voltage Transformer as per the requirements (10 nos.)</p> <p>iii) MCA-Nepal will issue an addendum to the bidding document to correct the number of Voltage Transformer as per the requirements (4 nos.).</p>
101.	<p><b>Electrical</b> New Butwal Substation 221123_Lot2_NBW_PS_Option, 2.7 Complete with control &amp; protection up to GIB sealing end for all Feeder and Transformer Bays.</p>	<p>The quantity of line &amp; transformer protection panels are mentioned including future bays also as follows,</p> <p>i) 2.7.1.2 - 400kV Line protection panel - 10 nos</p> <p>ii) 2.7.1.3 - 400kV transformer protection panel - 4 nos</p> <p>iii) 2.7.2.2. - 220kV transformer protection panel - 4 nos</p> <p>However as per Project specific requirement, clause 2.2.1, it is mentioned as, ""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."" Based on the above point, we understand that Protection panel for the future bays are not required to be included under present scope. Please confirm &amp; segregate the line item for present &amp; future bays in the BPS.</p>	Please refer response to clarification for S.N. 96.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
102.	<p><b>Electrical</b> New Damauli Substation 221031_Lot3_NDM_PS_Base &amp; 221123_Lot3_NDM_PS_Option 2.5 AC AND DC STATION SUPPLY</p>	<p>i) Please confirm whether the Breakup given for LT panels in referred item of BPS are actual requirement to be followed or minimum requirement.</p> <p>ii) There are some discrepancies with feeder quantity &amp; rating of incomer / feeder between input SLDs given for LTAC &amp; DC panels and BPS. Please confirm the actual requirement to be followed.</p>	Please refer response to clarification for S.N. 98
103.	<p><b>Electrical</b> New Damauli Substation 221031_Lot3_NDM_PS_Base, 2.6 400kV Gas Insulated Switchgear, 2.6.3</p>	In referred clause, the quantity of Breaker, CT, ISO, ES, LCC & PD monitoring are mentioned only for 2 tie bays. However, as per SLD(NBW-100-1 & NBW-100-2), and PSR clause 2.1.1, three (3) tie bays are under present scope. Please check & revise the BPS to quote accordingly.	As per SLD, three tie bays are to be provided for the base scope. MCA-Nepal will issue an addendum to the bidding document in this regard.
104.	<p><b>Electrical</b> New Damauli Substation 221123_Lot3_NDM_PS_Option, 2.7 Complete with control &amp; protection up to GIB sealing end for all Feeder and Transformer Bays.</p>	<p>The quantity of line &amp; transformer protection panels are mentioned including future bays also as follows,</p> <p>i) 2.7.1.2 - 400kV Line protection panel - 8 nos</p> <p>ii) 2.7.1.3 - 400kV transformer protection panel - 3 nos</p> <p>However as per Project specific requirement, clause 2.2.1, it is mentioned as, ""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,</p>	Please refer response to clarification for S.N. 96.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		Substation Automation System. The protection of the associated stubs and of the tie breaker shall also be included." Based on the above point, we understand that Protection panel for the future bays are not required to be included under present scope. Please confirm & segregate the line item for present & future bays in the BPS.	
105.	<p><b>Electrical</b> Ratmate 400/22/132/33kV Substation</p> <p>Drawing no. RTE-120-1 - 400/220kV Control house drawing Drawing no. RTE-300-1 - 400 &amp; 220kV GIS building General arrangement</p>	<p>For Ratmate Substation, the 400kV &amp; 220kV control &amp; relay panels shall be placed in control &amp; relay panel room located adjacent to the GIS building as per GIS general arrangement drawing. However there is separate room shown for 400kV &amp; 220kV line protection panels in control building. Kindly check &amp; clarify whether bidder can place all the control &amp; relay panels in the control &amp; relay panel room adjacent to the respective GIS building?</p>	<p>As the GIS layout shows, the GIS local control panels (LCC) and protection panels are located in the room adjacent to the GIS room. This arrangement optimizes the CT, PT and control cables. The mimic bus, SAS, metering and telecommunication panels should be located in the control building. The Contractor's design should optimize the location of the control and relay panels.</p>
106.	<p><b>Electrical</b> Ratmate 400/22/132/33kV Substation</p> <p>Drawing no. RTE-200-1 General arrangement</p>	<p>As per the referred General Arrangement drawing of Ratmate substation, the future scope of 132kV &amp; 33kV line bays are shown as follows,</p> <ul style="list-style-type: none"> <li>i) 132kV line bays - 7 nos</li> <li>ii) 33kV line bays - 5 nos</li> </ul> <p>However as per project description volume-I (20200320_EIA_Chapter_1_13), table 2.6.9, the same is mentioned as,</p> <ul style="list-style-type: none"> <li>i) 132kV line bays - 4 nos</li> </ul>	<p>As per the drawing RTE-200-1, the scope of 132kV and 33kV is for future scope of work and not included in the current scope. However, Contractors need to conduct site development/ levelling works to accommodate the future scope with 6 numbers of 132kV line bays and five numbers of 33kV line bays.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		<p>ii) 33kV line bays - 4 nos</p> <p>Please check &amp; confirm the actual number of future 132kV &amp; 33kV future bays.</p>	
107.	<p><b>Electrical</b> Ratmate 400/22/132/33kV Substation, Drawing no. RTE-110-3 &amp; RTE-110-4, 220V DC Distribution board</p>	<p>As per the referred drawing, 220V DCDB-5 &amp; 6 shall be also looped from 220V DCDB 3 &amp; 4. We understand from the distribution philosophy that each Battery shall be capable to supply the Complete Substation DC &amp; Emergency load i.e. including future 132kV &amp; 33kV system.</p> <p>Please confirm whether bidder understanding is correct.</p>	<p>DCDB 5 and 6 will be required in the future for the 132 kV and 33 kV systems. However, there should be space provided for them.</p>
108.	<p><b>Electrical</b> Ratmate 400/22/132/33kV Substation, Drawing no. RTE-110-3 &amp; RTE-110-4, 220V DC Distribution board</p>	<p>In the referred drawing, 2sets of battery &amp; chargers are provided for 400kV &amp; 220kV system. Similarly additional 2sets of batteries &amp; chargers are provided for 132kV &amp; 33kV system.</p> <p>However, as per the technical specification, Chapter-7, clause-1.1, the battery &amp; charger system shall be different for 400kV &amp; 220kV switchgears.</p> <p>As the above requirements are contradicting, we request MCA to confirm the actual requirement.</p>	<p>Two sets of batteries and three chargers for the 400 kV and 220 kV systems, as shown on the drawing RTE -110 -3 will be in the present scope of works. Batteries and chargers for 132 kV and 33 kV systems will be in the future scope of works. However, space must be allowed for the future batteries and chargers. MCA-Nepal will review the concern of the Bidder and if required, may issue an addendum to the Bidding Document after receiving approval from the authority.</p>
109.	<p><b>Electrical</b> Ratmate 400/22/132/33kV Substation,</p>	<p>i) In the referred drawing, 8 nos of 220V DCDBs are shown. We presume that each voltage system will feed with 2 set of DCDBs. Please confirm.</p>	<p>i) Confirmed ii) Confirmed</p>



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	Drawing no. RTE-110-3 & RTE-110-4, 220V DC Distribution board	ii) Please confirm whether bidder can place the DCDBs conveniently.	
110.	<b>Electrical</b> Ratmate 400/22/132/33kV Substation, Drawing no. RTE-110-5, 48V DC Distribution board	i) In the referred drawing, 4 nos of 48V DCDBs (1,2,3 & 4) are shown with same requirements of 400kV & 220kV systems and 4 nos of 48V DCDBs (5,6,7 & 8) are shown with same requirements of 132kV & 33kV systems. Kindly confirm the actual requirement of 48V DCDB quantity.  ii) Kindly clarify the requirement of 48V DCDB for 33kV bays.  iii) Kindly clarify the requirement of 48V supply for server room panels.	Two distribution boards for 400 kV and 220 kV systems and two distribution boards for 132kV and 33 kV systems are shown (1,2,3,4). The DCDB 5,6,7 and 8 are shown as future and should not be in the scope of this contract. MCA-Nepal will review the concern of the Bidder and if required, may issue addendum to the Bidding Document after receiving approval from the authority.
111.	<b>Electrical</b> Ratmate 400/22/132/33kV Substation, Drawing no. RTE-110-5, 48V DC Distribution board	As per the referred drawing, 6 nos of 48V Battery chargers shall feed the 48V DCDBs 1&2 and 3&4 under present scope. However the Battery charger quantity is mentioned as 3 nos as per BPS line item 2.5.6.2 of Ratmate substation. Please check & confirm.	MCA-Nepal will review the documents and will issue an addendum to the bidding document, if required.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
112.	<p><b>Electrical</b> Ratmate 400/22/132/33kV Substation</p> <p>Drawing no. RTE-200-1 General arrangement &amp; New Damauli 400/22/132/33/11kV Substation, Drawing no. NDM-300-1, 400kV GIS building General arrangement</p>	<p>i) Kindly confirm the requirement/Purpose of bus formed with two phase for Station transformers in referred drawing.</p> <p>ii) Please provide technical Specification for 630kVA, 33/0.4kV Station Transformer.</p>	<p>i) There is no bus formed with two phases – it only shows supply to the two station service transformers (S1 and S2).</p> <p>ii) Please refer Clause 2 LT Transformer, under Chapter-4 LV Switchgear Specification of Part 2: Employer’s Requirements Section V – B1 (Technical Specifications) for more clarification.</p>
113.	<p><b>Electrical</b> Ratmate 400/22/132/33kV Substation, Drawing no. RTE-300-1, 400 &amp; 220kV GIS building General arrangement &amp; New Butwal 400/22/132/33/11kV Substation, Drawing no. NBW-300-1, 400kV GIS building General arrangement &amp; New Damauli 400/22/132/33/11kV Substation, Drawing no. NDM-300-1, 400kV GIS building General arrangement</p>	<p>Kindly clarify the requirement of room (15m x 14 m) shown along with 400kV GIS building for all 3 substations.</p>	<p>As the GIS layout shows, the GIS local control panels (LCC) and protection panels are located in the room adjacent to the GIS room. This arrangement optimizes the CT, PT and control cables. The mimic bus, SAS, metering and telecommunication panels should be located in the control building. The Contractor’s design should optimize the location of the control and relay panels.</p>
114.	<p><b>Electrical</b> Ratmate 400/22/132/33kV Substation, Drawing no. RTE-300-</p>	<p>i) In referred drawings of Ratmate &amp; Butwal Substation it is mentioned that ""This drawing represent full scope of works which may be changed in case of exercise of base scope of</p>	<p>Size of GIS Buildings corresponds to full scope of works i.e “Option” scope of works. Even if only base option of scope is</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p>1, 400 &amp; 220kV GIS building General arrangement &amp; New Butwal 400/22/132/33/11kV Substation, Drawing no. NBW-300-1, 400kV GIS building General arrangement &amp; New Damauli 400/22/132/33/11kV Substation, Drawing no. NDM-300-1, 400kV GIS building General arrangement</p>	<p>works or reduced scope of works by the employer"". We understand that the Bidder can reduce building size accordingly, if reduced scope of works is to be executed. Please confirm whether bidder understanding is correct.</p> <p>ii) The statement mentioned within quotes in above point is not mentioned in GIS Arrangement of Damauli substation. Nevertheless, we understand that the Bidder can reduce building size accordingly, if reduced scope of works is to be executed. Please confirm whether bidder understanding is correct.</p>	<p>exercised, for plant and equipment, the building size will remain the same.</p>
115.	<p><b>Electrical</b> New Butwal 400/22/132/33/11kV Substation</p> <p>Drawing no. NBW-120-1 - 400/220kV Control house drawing Drawing no. NBW-300-1 - 400kV GIS building General arrangement</p>	<p>For Butwal Substation, the 400kV control &amp; relay panels shall be placed in control &amp; relay panel room located adjacent to the GIS building as per GIS general arrangement drawing. However there is separate room shown for protection panels in control building. Kindly check &amp; clarify whether bidder can place all the control &amp; relay panels in the control &amp; relay panel room adjacent to the respective GIS building?</p>	<p>Please refer response to clarification for S.N. 106.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
116.	<p><b>Electrical</b> New Damauli 400/22/132/33/11kV Substation</p> <p>Drawing no. NDM-120-1 - 400/220kV Control house drawing Drawing no. NDM-300-1 - 400kV GIS building General arrangement</p>	<p>For Damauli Substation, the 400kV control &amp; relay panels shall be placed in control &amp; relay panel room located adjacent to the GIS building as per GIS general arrangement drawing. However there is separate room shown for protection panels in control building. Kindly check &amp; clarify whether bidder can place all the control &amp; relay panels in the control &amp; relay panel room adjacent to the respective GIS building?</p>	<p>Please refer response to clarification for S.N. 106.</p>
117.	<p><b>Electrical</b> New Damauli 400/22/132/33/11kV Substation</p> <p>Drawing no. NDM-200-1 - General arrangement</p>	<p>The following works of 220/132kV area are shown in referred Damauli General Arrangement drawing are already covered in another tender "Lekhnath Damauli 220 kV Transmission Line Project Package B: Substations". Please check &amp; clarify.</p> <p>i) Access road from permanent bridge to 220/132kV substation area ii) Road inside 220/132kV substation iii) Fence for 220/132kV substation area iv) Water treatment plant with water storage tank. In case of separate water treatment plant required for 400kV substation, the same have to be proposed inside 400kV substation</p> <p>In addition to the above point, please check &amp; confirm the location of 220kV GIS building shown in referred layout which is not matching with the NEA tender "Lekhnath Damauli 220 kV</p>	<p>i) Access road from permanent bridge to 220/132kV substation area is in the scope of Lekhnath Damauli 220 kV Transmission Line Project ii) Same as above. iii) Same as above. iv) Confirmed. Requirement of the same will be determined by the Engineer during the execution of the contract.</p> <p>MCA-Nepal will issue drawing with an addendum to the bidding document. Moreover, the provided documents are for reference purposes only. The location of the building for the SS cases may change during detailed engineering. Bidders are requested to carry out their own assessment.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		Transmission Line Project Package B: Substations. Please check & confirm, as the 220kV cable length may vary based on the 220kV GIS building location6.	
118.	<p><b>Electrical</b> New Damauli 400/22/132/33/11kV Substation</p> <p>Drawing no. NDM-200-1 - General arrangement</p>	<p>As per the referred General Arrangement drawing of Damauli substation, the future scope of 400kV ICT bays are shown with 3 phase transformers. However the same shall be with single phase transformers as per tender SLD (NDM-100-1 &amp; NDM-100-2) and project description volume-I (20200320_EIA_Chapter_1_13), table 2.6.9</p> <p>Please check &amp; confirm the actual requirement of GIS bays to be considered.</p> <p>Also please confirm whether additional space will be provided if single phase transformers need to be considered?</p>	<p>MCA-Nepal will issue an addendum of Drawing number NDM_200_1 showing correct requirement of future transformers i.e. instead of two bank of three phase future transformers, one bank of single phase future transformer is envisaged.</p> <p>In case of any discrepancies in technical requirements/ scope of works between PSR (Drawings) and EIA Document, Bidders are requested to follow the PSR.</p>
119.	<p><b>Electrical</b> New Ratmate Substation 221123_Lot1_RAT_PSR, clause 2.1.2, NEW HETAUDA SUBSTATION</p>	<p>We request client to limit the bidder scope with necessary approach cable and hardware for termination of OPGW of Ratmate – Hetauda D/C Lines at New Hetauda Substation and exclude the following works from bidder scope</p> <p>i) Telecommunication works which includes connection, extension and configuration of the local and network remote fiber optic equipment and all works required for the connection, extension and configuration of the phone system as well as for tele protection.</p>	<p>Kindly adhere to the requirement of the scope of works.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		ii) Interfacing DPC with SDH, MUX/DMUX telecommunication terminal equipment required for the communication of the said 400 kV Lines and its integration with SAS and SCADA system of the LDC.	
120.	<p><b>Electrical</b>  New Ratmate Substation  221123_Lot1_RAT_PSR,  clause 2.1.3, LAPSIPHEDI  SUBSTATION</p>	<p>We request client to limit the bidder scope with necessary approach cable and hardware for termination of OPGW Ratmate – Lapsiphedi D/C Lines at Lapsiphedi Substation and exclude the following works from bidder scope</p> <p>i) Telecommunication works which includes connection, extension and configuration of the local and network remote fiber optic equipment and all works required for the connection, extension and configuration of the phone system as well as for tele protection.</p> <p>ii) Interfacing DPC for tele protection application and supply, delivery, installation, testing and commissioning of necessary SDH, MUX/DMUX telecommunication terminal equipment required for the communication of the said 400 kV Lines and its integration with SAS at both end substations and SCADA system of the LDC.</p>	Kindly adhere to the requirement of the scope of works.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
121.	<p><b>Electrical</b> New Ratmate Substation 221123_Lot1_RAT_PSR, 2.2 OPTION SCOPE OF WORK</p>	<p>In the referred clause, optional scope for 400kV &amp; 220kV is defined as follows:</p> <ul style="list-style-type: none"> <li>i) 400kV line bays from Lapsiphedi - 2 nos</li> <li>ii) 400kV line bays from Hetaude - 2 nos</li> <li>iii) 400kV line bays from Damauli - 2 nos</li> <li>iv) 400kV future line bays - 4 nos</li> <li>v) 400kV ICT bays - 2 nos</li> <li>vi) 400kV future ICT bays - 1 nos, vii) 220kV ICT bays (400/220kV) - 2 nos</li> <li>viii) 220kV future ICT bays (400/220kV) - 1 nos</li> <li>ix) 220kV Future Line bays - 8 nos</li> <li>x) 220kV future ICT bays (220/132kV) - 2 nos,</li> <li>xi) 220kV Future Line bays - 2 nos</li> </ul> <p>However as per project description volume-I (20200320_EIA_Chapter_1_13), table 2.6.9, optional scope is defined as follows:</p> <ul style="list-style-type: none"> <li>i) 400kV line bays from Lapsiphedi - 2 nos</li> <li>ii) 400kV line bays from Hetaude - 2 nos</li> <li>iii) 400kV line bays from Damauli - 2 nos</li> <li>iv) 400kV line bays from China - 2 nos</li> <li>v) 400kV future line bays from Budhi Gandaki Hydro - 2 nos</li> </ul>	<p>In case of any discrepancies in technical requirements/ scope of works between PSR and EIA Document, Bidders are requested to follow the PSR.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		vi) 400kV ICT bays - 2 nos, vii) 400kV future ICT bays - 2 nos viii) 220kV ICT bays (400/220kV ) - 2 nos ix) 220kV future ICT bays (400/220kV ) - 2 nos x) 220kV Line bays - 8 nos, xi) 220kV ICT bays (220/132kV ) - 1 nos xii) 220kV future ICT bays (220/132kV ) - 1 nos As there are discrepancies (highlighted above in 'red'), please check & clarify the actual requirement. Also, please revise the BPS if required.	
122.	<b>Electrical</b> New Ratmate Substation, 221123_Lot1_RAT_PSR, 3.2 400KV RATMATE GIS SUBSTATION, e & g	In the referred clause for Ratmate substation, for future Line & Transformer bays it is mentioned that "(3) three sets of 4000A gas-insulated bus extensions with end bushings. We presume that the busbars shall be provided with end cap modules for future bay extensions. Please confirm	Confirmed.



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
123.	<p><b>Electrical</b> New Ratmate Substation 221123_Lot1_RAT_PSR, 3.8 AUTOMATION AND TELECOMMUNICATION SYSTEM, a. SAS General Information</p>	<p>We presume that Substation Automation system shall be designed only for present &amp; Future scope of 400/220kV substation including 33kV station transformer bays as mentioned in referred clause. And we presume that separate Substation Automation system will be provided in future for 132 &amp; 33kV Future extension.</p> <p>Please confirm whether bidder's understanding is correct.</p>	<p>The SAS shall be designed only for the present &amp; future scope of 400/220kV substation including 33kV station transformer.</p>
124.	<p><b>Electrical</b> New Ratmate Substation, 221123_Lot1_RAT_PSR, 3.1 400KV RATMATE GIS SUBSTATION, e &amp; g</p> <p>New Butwal Substation, 221123_Lot2_NBW_PSR, 3.1 400KV NEW BUTWAL GIS SUBSTATION, f &amp; h</p> <p>New Damauli Substation, 221123_Lot3_NDM_PSR, 3.1.1 400KV NEW DAMAULI GIS SUBSTATION, e &amp; g</p>	<p>In the referred clause, it is mentioned that ""one three-phase set of gas-to-air bushings.""</p> <p>As the 400kV GIS shall be of single-phase encapsulated design as per specification, three single-phase SF6-air bushings are required per bay. Please check &amp; confirm.</p>	<p>You are right. We shall incorporate this through an addendum to the bidding document.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
125.	<p><b>Electrical</b> New Ratmate Substation, 221123_Lot1_RAT_PSR, 3.1 400KV RATMATE GIS SUBSTATION, f &amp; h</p> <p>New Butwal Substation, 221123_Lot2_NBW_PSR, 3.1 400KV NEW BUTWAL GIS SUBSTATION, g &amp; i</p> <p>New Damauli Substation, 221123_Lot3_NDM_PSR, 3.1.1 400KV NEW DAMAULI GIS SUBSTATION, f &amp; h</p>	<p>In the referred clause for Ratmate substation, for future Line &amp; Transformer bays it is mentioned that ""(3) three sets of 4000A gas-insulated bus extensions with end bushings.</p> <p>However in the referred clause for Butwal &amp; Damauli substation, for future Line &amp; Transformer bays it is mentioned that ""(3) three sets of 4000A gas-insulated bus extensions with end cap modules</p> <p>We presume that at Ratmate SS also the busbars shall be provided with end cap modules for future bay extensions. Please confirm"</p>	Confirmed.
126.	<p><b>Electrical</b> New Ratmate Substation, 221123_Lot1_RAT_PSR, 3.1 400KV RATMATE GIS SUBSTATION, k</p> <p>New Butwal Substation, 221123_Lot2_NBW_PSR, 3.1 400KV NEW BUTWAL GIS SUBSTATION, k</p> <p>New Damauli Substation, 221123_Lot3_NDM_PSR,</p>	<p>In referred clause, it is mentioned as ""The gas-insulated circuit breakers shall be equipped with a Controlled Point-on-Wave Switching Device (CPWSD) for auto transformer circuit breakers and middle breaker of each diameter which involves an auto transformer. The price for the same is deemed included in the cost for the gas-insulated circuit breaker. 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</p>	The price of CPWSD and/or PIR is included in the price of the circuit breakers associated with the autotransformers. In case the transient switching study indicates the need for these devices also for the line breakers, the separate unit prices in the schedule 4.4 will be used for the additional work.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	3.1.1 400KV NEW DAMAULI GIS SUBSTATION, k	<p>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.""</p> <p>As the price of CPWSD &amp; PIR are already included in the price of GIS Circuit breaker modules, please clarify why separate price need to be quoted in schedule 4.4.2?</p>	
127.	<p><b>Electrical</b> New Ratmate Substation, 221123_Lot1_RAT_PSR, 3.16 VISUAL MONITORING SYSTEM</p> <p>New Butwal Substation, 221123_Lot2_NBW_PSR, 3.16 VISUAL MONITORING SYSTEM</p> <p>New Damauli Substation, 221123_Lot3_NDM_PSR, 3.15 VISUAL MONITORING SYSTEM</p>	The requirement of Visual monitoring system is defined in the referred clauses. However, the line item for the same is not included in respective BPS. Please confirm the requirement of VMS and revise the BPS to quote accordingly.	MCA-Nepal will review the proposal and will issue an addendum to the bidding document, if required.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
128.	<p><b>Electrical</b> New Ratmate Substation, 221123_Lot1_RAT_PSR, 3.21 LIMIT SCOPE OF SUPPLY AND INTERFACE</p> <p>New Butwal Substation, 221123_Lot2_NBW_PSR, 3.20 LIMIT SCOPE OF SUPPLY AND INTERFACES</p> <p>New Damauli Substation, 221123_Lot3_NDM_PSR, 3.20 LIMIT SCOPE OF SUPPLY AND INTERFACES</p>	<p>As per referred clause, it is mentioned as "" Permanent Residential Quarters for Owner's (NEA's)' personnel is not part of the Substation Contractor "". However as per project description volume-I (20200320_EIA_Chapter_1_13), table 2.6.10, Staff living Quarters for Ratmate &amp; Damauli Substations are included in scope.</p> <p>Please check &amp; clarify and revise the BPS if required.</p>	<p>Staff living /Permanent Residential Quarters for Ratmate &amp; New Damauli Substations are not in the current scope of the work.</p>
129.	<p><b>Electrical</b> New Butwal Substation, 221123_Lot2_NBW_PSR, 3.8 AUTOMATION AND TELECOMMUNICATION SYSTEM</p>	<p>In referred clause, nowhere it is mentioned for the requirement of integration between proposed 400kV SAS system &amp; Existing 220kV SAS system. Please confirm &amp; include separate line item in BPS for integration of Existing 220kV SAS systems with proposed 400kV new SAS.</p>	<p>MCA-Nepal shall issue an addendum to the bidding document to integrate the existing 220kV SAS system at the New Butwal Substation, if required.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
130.	<p><b>Electrical</b> New Butwal Substation, 221123_Lot2_NBW_PSR, 3.20 LIMIT SCOPE OF SUPPLY AND INTERFACES, SI.No.2</p>	<p>As per referred clause, it is mentioned, ""Any automation or auxiliary component required to connect the two Auto bays with the existing system shall be included in the scope.""</p> <p>Based on above point, we understand that, proposed 2nos of 220kV ICT bays shall be connected with the existing 220kV SAS system. Please confirm.</p> <p>And include separate line item in BPS for integration/connection of proposed 2nos of 220kV ICT bays with existing 220kV SAS system.</p>	<p>MCA-Nepal will issue an addendum to the bidding document.</p>
131.	<p><b>Electrical</b> New Damauli Substation, 221123_Lot3_NDM_PSR, 2.2 OPTION SCOPE OF WORK</p>	<p>As per referred clause, quantity of 400kV future ICT bays shall be 1 nos. However as per project description volume-I (20200320_EIA_Chapter_1_13), table 2.6.9, Space for 2 nos of Future ICT bay shall be considered in scope.</p> <p>Please check &amp; clarify the number of future ICT bays to be considered.</p>	<p>As per PSR, number of future ICT Bay is one.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
132.	<p><b>Electrical</b> New Damauli Substation, 221123_Lot3_NDM_PSR, 3.1.2 220 KV NEW DAMAULI SUBSTATION</p>	<p>As per the referred clause, it is mentioned as ""However, overall Earthing and Land Development work for the entire substation area covering 400 kV and 220 kV side shall be included in the present scope of work"</p> <p>However, Land development &amp; earthing for 220/132kV Damauli substation is already covered under another tender ""Lekhnath Damauli 220 kV Transmission Line Project Package B: Substations"</p> <p>As the 220KV Substation development shall be in other's scope, please include the earthing &amp; land development for 220kV side in respective contractor scope and limit the present scope upto 400kV side."</p>	<p>Earthing and land development for the 400kV switchyard should be included in the scope of this contract. Any additional cost required for the integration of the earth mat with the existing grid is deemed included in the scope of the work of the contractor.</p>
133.	<p><b>Electrical</b> New Damauli Substation, 221123_Lot3_NDM_PSR, 3.7 AUTOMATION AND TELECOMMUNICATION SYSTEM</p>	<p>As per referred clause, We presume that Substation Automation system shall be designed only for present &amp; Future scope of 400kV substation including 33kV station transformer bays. And we presume that, proposed 2nos of 220kV ICT bays shall be connected with the existing 220kV SAS system by other contractors and no integration is required between proposed 400kV &amp; Existing 220kV SAS system.</p> <p>Please confirm whether bidder understanding is correct.</p>	<p>The bidder's understanding is correct. Coordination with the 220 kV substation contractor is required for both design and implementation.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
134.	<p><b>Electrical</b> New Ratmate Substation, 220913_Lot1_RAT_TS, Chapter-1, Section 1, clause 11.1 &amp; Section 2, clause 11.1</p>	<p>The Continuous current rating &amp; short circuit current rating of 400kV and 220kV GIS shall be 4000A &amp; 50kA and 3000A or 4000A &amp; 50kA or 63kA as per technical specification, Chapter-1, Section 1(400kV GIS), clause 11.1.</p> <p>However the same has been indicated as 3000A or 4000A &amp; 50kA or 63kA for 400kV GIS and 4000A &amp; 50kA for 220kV GIS as per technical specification, Chapter-1, Section 2(220kV GIS), clause 11.1.</p> <p>As the above clauses are contradicting, please confirm the continuous current rating &amp; short time current rating for both 400kV GIS &amp; 220kV GIS.</p>	<p>MCA-Nepal confirms adaptation of 4000 A continuous current rating &amp; 50 kA for short circuit rating (1s) for both 400 kV and 220 kV systems. MCA-Nepal will issue the pertaining addendum to the Bidding Document.</p>
135.	<p><b>Electrical</b> New Ratmate Substation, 220913_Lot1_RAT_TS, Chapter-12, clause 1.1,d</p>	<p>In referred clause, it is mentioned as, ""The Contractor will be responsible to supply and install interface cards of SDH multiplexer plus phone sets in Lapsiphedi and New Hetauda for remote extensions, interface cards of SDH multiplexer and EPABX at LDC, ECC, New Dhalkebar and New Hetauda.""</p> <p>We understand that only SDH interface cards &amp; EPABX are required at LDC, ECC, New Dhalkebar. Please confirm..</p>	<p>Kindly adhere to the requirements in the Bidding Document.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
		Kindly include separate line item in BPS for interface works for LDC, ECC & New Dhalkebar mentioned in above point (within quotes).	
136.	<p><b>Electrical</b> New Ratmate Substation, 220913_Lot1_RAT_TS, Chapter-2, Section 4, clause 2.1, d</p> <p>New Butwal Substation, 220913_Lot2_NBW_TS, Chapter-2, Section 4, clause 2.1, d</p> <p>New Damauli Substation, 220913_Lot3_NDM_TS, Chapter-2, Section 4, clause 2.1, d</p>	Discharge class of 420kV LA is mentioned as class 4 in referred clause. However the same is mentioned as class 3 as per technical data sheet. Please check & confirm the actual requirement.	420 kV surge arresters shall be class 4 discharge class, to correspond to the energy discharge level of 12 kJ/kV. MCA-Nepal will issue the necessary addendum to the Bidding Document.
137.	<p><b>Electrical</b> New Ratmate Substation, 220913_Lot1_RAT_TS, Chapter-4, clause 1.1, c</p> <p>New Butwal Substation, 220913_Lot2_NBW_TS, Chapter-4, clause 1.1, c</p> <p>New Damauli Substation, 220913_Lot3_NDM_TS, Chapter-4, clause 1.1, c</p>	<p>As per referred clause, it is mentioned that "Molded case circuit breakers for three phase feeders shall be 3-pole with neutral link."</p> <p>However as per input SLD for LTAC panels, feeders are shown with four pole MCCB. Please confirm whether bidder can use 3-pole with neutral link for outgoing feeders.</p>	Molded case circuit breakers for three phase feeders shall be 4-pole with neutral link is to be considered. MCA-Nepal will issue the necessary addendum to the Bidding Document.



SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
138.	<p><b>Electrical</b> New Ratmate Substation, 220913_Lot1_RAT_TS, Chapter-18, clause 1.6</p> <p>New Butwal Substation, 220913_Lot2_NBW_TS, Chapter-18, clause 1.6</p> <p>New Damauli Substation, 220913_Lot3_NDM_TS, Chapter-19, clause 1.6</p>	<p>In referred clause, it is mentioned as, "For suspension purpose, single suspension insulator string shall be used for 220 KV &amp; 132 kV systems". Kindly mention the type of suspension required for 400kV system.</p>	<p><i>"single suspension insulator string shall be used for 400 kV, 220 KV &amp; 132 kV systems"</i> MCA-Nepal will issue the necessary addendum to the bidding document, incorporating the same.</p>
139.	<p><b>Electrical</b> New Butwal Substation, 220913_Lot2_NBW_TS, Chapter-12, clause 1.1, f</p>	<p>In referred clause it is mentioned as, ""New SDH FO communication links, with associated terminal equipment, are required at 400 kV substations in New Damauli and New India Border to integrate the existing communication network to the new 400 kV substations.""</p> <p>We understand that new SDH equipment shall be provided at both New Damauli &amp; Gorakhur substation (at India border). Please confirm whether our understanding is correct.</p> <p>Kindly include separate line item for the same in BPS to quote accordingly</p>	<p>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)
140.	<p><b>Electrical</b> New Damauli Substation, 220913_Lot3_NDM_TS, Chapter-7, clause 2.1, vi</p>	<p>In referred clause, it is mentioned as, "The sheath shall have a fault capacity of at least 63 kA amperes for 15 cycles (on a 50 hertz basis) with a starting conductor temperature of 90C and an ending conductor temperature not to exceed 250C ". However, the short circuit capability of shield is 50kA as per technical data sheet- lot 3, sl.no.29, 20. Please check &amp; confirm.</p>	<p>MCA-Nepal shall issue an addendum to the Bidding Document, subject to the approval of the authority.</p>
141.	<p><b>Electrical</b> Section IV Bid submission forms, Form TECH-11: Technical data schedule</p> <p>Lot-1 Technical Data Schedule, Sl.No.16.1, 3.6 &amp; Sl.No.16.2, 3.6 Lot-2 Technical Data Schedule, Sl.No.9, 3.6 Lot-3 Technical Data Schedule, Sl.No.16, 3.6</p>	<p>Number of secondary windings for GIS current transformer is mentioned as 1 no. in the referred class. However as per SLD &amp; BPS, 2 sets of CTs (with 3 core each) are required. Please check &amp; clarify</p>	<p>2 Sets of CTs (with 3 core each) are required. MCA-Nepal will issue an addendum to the Bidding Document in accordance with the changes.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
142.	<b>Electrical</b> Future Bay GIS module	<p>i) The GIS module supplied for future line &amp; transformer bays shall be provided with indoor gas insulated bus duct with end cap modules only. And any SF6-Air bushing and outdoor Gas insulated bus duct &amp; its support structures are not included in scope. Please confirm.</p> <p>ii) We understand that the indoor GIB for future bays shall be brought up to the outer wall edge of the GIS Hall &amp; shall be properly sealed with end cap modules. Please confirm.</p>	<p>i) Confirmed.</p> <p>ii) Confirmed.</p>
143.	<b>Electrical</b>  <b>LCC</b>	We presume both stand alone type & integral type LCCs are acceptable. Please confirm.	The bidders are requested to carry out an independent analysis of the same considering the requirement
144.	<b>Electrical</b> <b>Gorakhpur Substation</b>	<p>Bidder scope is limited with Butwal substation by matching the DPC &amp; line protection (make &amp; model) with Gorakhpur substation for 400kV New Butwal – Gorakhpur transmission line at Butwal substation end. No any other supply/ retrofitting works at Gorakhpur substation are included in bidder scope.</p> <p>Please confirm whether bidder understanding is correct.</p>	Confirmed, the Contractor will however have to do necessary coordination with the other side during the execution of the same.

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
145.	<b>Electrical Details of Remote End Line Differential relay</b>	Please specify the Make & Model number of the remote end Line differential protection relays at the following stations:  a) Gorakhpur b) Lapsiphedi c) Hetauda	a), b) & c) To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.
146.	<b>Electrical Details of Remote End FO Equipment</b>	Please specify the Make & Model number of the remote end Fiber optic terminal equipment at the following stations:  a) Gorakhpur b) Lapsiphedi c) Hetauda  Also please specify the transmission capacity (STM-1/STM-4/STM-16) of the remote end FOTE at each of the above locations.	a), b) & c) To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment.
147.	<b>Electrical PLCC at Gorakhpur</b>	Please furnish the following details w.r.t existing PLCC equipment at Gorakhpur 400kV substation:  a) Make b) Model number c) Number of carrier cabinets required for Speech + Protection & Speech + Data?	To be coordinated by the Engineer at the Contract design stage to ensure compatibility with NEA network equipment

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
148.	<b>Electrical</b> <b>220kV Substation, Butwal</b>	Please provide the following drawings for the existing 220/132kV Butwal substation. i) Earthing layout ii) Cable trench layout iii) Existing control room building layout	MCA-Nepal may approach the concerned PM and request for the same. Once and if available, shall be shared with all the bidders accordingly.
149.	<b>General</b>	There is no separate line item for Indoor lighting in BPS for all three new Substations. Please add a separate line item for Indoor lighting works.	MCA-Nepal will issue the necessary addendum, if required.
150.	<b>General</b>	Please provide SAS Architecture for all the three substations.	The same will be shared separately. However, the architecture is for reference purposes only.
151.	<b>General</b>	We understand that, the bay arrangement as shown in SLD & Layout are tentative and bidder can modify the same. Please confirm.	Confirmed. However, the scope of the works will remain unchanged.
152.	<b>General</b>	i) All three substations are shown with different road width. Kindly mention the minimum road width to be followed. ii) Substation road shown for each layout is tentative and bidder can modify the same. Please confirm.	The provided documents are for reference purposes only. The design shall be finalized only during detailed engineering with due to approval of the Engineer.