



CLARIFICATION#5.2

FOR

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

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

Issued on: 04 August 2023

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
12.	<p>Lot 1: Subcontractors / Manufacturers/ Section III. Qualification and Evaluation Criteria / Page 90 & General Technical Requirement/ Clause number-10/ Section V, Page No- 15</p> <p><i>Must have designed, manufactured, tested and supplied at least 10 (Ten) complete units of Communication Equipment, Protection and Control, SCADA units for major HV transmission substations. All such equipment must be designed, manufactured and tested in accordance with IEEE/IEC recommendations within last ten (10) years prior to the date of bid opening. Manufacturer shall provide evidence that it is ISO 9001 certified</i></p>	<p>We request M/s MCA to clarify meaning of “Complete Units of communication equipment” as mentioned in the referred clause.</p>	<p>Complete units mean comprising of all Communication Equipment, Protection and Control, SCADA System of an EHV transmission substation.</p>

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87	<p>220913_Lot1_NBW_TS, Clause Number 3.15, <i>(Point Number-a) An on-line transformer monitoring system to continuously monitor critical transformer parameters such as oil temperature, winding temperature, and bushing monitors shall be provided for each transformer supplied. (Point Number-c) Equipment shall be capable of sending an SMS alert to at least three users whenever any alarm violates the predefined limit.</i></p>	<p>As specification does not clarify, find below bidder's observation-</p> <p>(a) What is the exact accessory requirement for on-line transformer monitoring system. Please confirm.</p> <p>(b) We request M/s MCA to provide equipment detail shall be capable of sending SMS alert in line with tender requirement.</p>	<p>a) This accessories will be provided by the transformers manufacturer based on their design subject to approval by the Engineer.</p> <p>b) The detail of the equipment for SMS alert system shall be proposed by the Bidder/Manufacturer and will be finalized during the detailed design subject to approval by the Engineer.</p>
95	<p>CHAPTER 1: GIS TECHNICAL SPECIFICATION / Clause no 12.20 / GAS HANDLING EQUIPMENT & Clause No 12.21 / GAS LEAK DETECTOR <i>12.20: GAS HANDLING EQUIPMENT 12.21 / GAS LEAK DETECTOR</i></p>	<p>Bidder wish to inform us that Gas handling equipment & Gas leak detector has specified in both 400KV GIS and 220KV GIS in technical specification. Bidder understand that Bidder to consider 1 Nos of gas Handling equipment and Gas Leak detector common for both 400KV & 220KV GIS. Kindly confirm.</p>	<p>Confirmed.</p>
100	<p>220913_Lot1_RAT_TS / 1. LT TRANSFORMER / Clause 1.7 b & 17.c <i>The manufacturer shall submit type tests & additional test reports as listed above already carried out on transformers of identical design for Engineer/Employer acceptance.</i> <i>i. Same voltage ratio, kVA rating, vector group & impedance</i> <i>In addition to all type and routine tests,</i></p>	<p>As per clause 1.7 b, we understand that bidder need to submit valid type test / short circuit report of similar design of the offered transformer for owner acceptance and there is no need for repetition of short circuit test. Please confirm.</p>	<p>Confirmed.</p>

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	<i>transformers shall also conform to the following additional type tests as per IEC 60076. i. Short circuit test</i>		
155	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.5.a, 300 of 841 (220913_Lot1_RAT_TS) <i>'xiii. Surges with brackets shall be mounted in the tertiary compartment of the transformers and connected to the tertiary bushings.</i>	'Requirement not clear. Kindly elaborate	This provision will be removed through an addendum to the bidding document after approval from the authority.
170	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, 321 of 841 (220913_Lot1_RAT_TS) <i>'Inspection g. Assembled Autotransformer v. Skid test on filled transformer testing movement and rotation by pulling on provided lugs.</i>	'Skid test not called in IEC and will not be conducted on oil filled transformer. Please accept and confirm.	Accepted and confirmed. This provision will be removed through an addendum to the bidding document after approval from the authority.
186	"PROJECT SPECIFIC REQUIREMENT (PSR) 400KV RATMATE Substation, Document No: B1.1, Clause: 2.2 Ratmate Option Scope of Work : Table of Qty, 220KV Trafo Bay - 5 Nos	The bidder Understands for the 5 Nos of 220KV Trafo Requirement - 3 Nos is LV Side of 400/220KV Trafo and 2 Nos is for HV side of 220/132KV Trafo Protection. Kindly confirm.	Confirmed.
207	230324_SS_Bid_Document_for issuance_Final 2.14.3.2	The bidder understand that we need to supply SAS software which shall have the configuration tool along with gateway,	Kindly adhere to the requirements of the bidding document.

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	<i>Test Equipment & tools for SAS SYSTEM for measuring, configuration & diagnostics</i>	client, HMI, server software only. Kindly confirm.	
226	<p>220913_Lot1_RAT_TS CHAPTER 5: FIRE PROTECTION SYSTEM SPECIFICATION</p> <p><i>1.2. SCOPE OF SUPPLY (C) Additional FP System Requirements</i></p> <p><i>a. Water well and supply piping to Fire Water Tank</i></p> <p><i>CI No. 2.4. WATER SUPPLY (f) Bore wells and pumps for water supply are not in the scope of the contractor. Contractor shall provide a source of water supply arrangement to the Fire Water tank from the Employer provided source.</i></p>	There is a discrepancy between the two referred clauses related to scope of water well / bore well along with pumps and inlet piping to the fire water tank. Therefore, we understand that intake water system which includes water well / bore well along with pumps is excluded from bidder's scope of work and only inlet piping from customer provided source of water to Fire water tank is in bidder's scope. Kindly confirm.	MCA-Nepal may issue an addendum to the bidding document-subject to authority's approval- rephrasing the requirement as: "Bore wells and pumps for water supply is in the scope of the contractor. The Contractor shall provide the source of water supply arrangement to the Fire Water tank".
350	<p>220913_Lot2_NBW_TS, Clause Number 3.15, Page 203 of 732</p> <p>(Point Number-a) An on-line transformer monitoring system to continuously monitor critical transformer parameters such as oil temperature, winding temperature, and bushing monitors shall be provided for each transformer supplied.</p> <p>(Point Number-c) Equipment shall be capable of sending an SMS alert to at least three users whenever any alarm violates the predefined limit.</p>	<p>As specification does not clarify, find below bidder's observation-</p> <p>(a) What is the exact accessory requirement for on-line transformer monitoring system. Please confirm.</p> <p>(c) We request M/s MCA to provide equipment detail shall be capable of sending SMS alert inline with tender requirement.</p>	<p>a) This Accessories would be provided by the transformers manufacturer based on their design.</p> <p>b) To be provided by the manufacturer.</p>
373	<p>Section V: Employer's Requirements</p> <p>B1.2 Technical Specifications</p> <p>Chapter 3 Autotransformer Specification</p>	We confirm the following in case of 400 kV and 220 kV winding, however generally in case of low voltage winding (33 kV Tertiary)	It can be revisited at the time of submission of the detailed design and subject to approval of the Engineer.

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	Clause 3.3 (f), Page 182 of 732 (220913_Lot2_NBW_TS)	winding phase to phase variation can approx. 2%. Please accept and confirm.	
379	Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.7 (a), page 188 of 732 (220913_Lot2_NBW_TS)	Requirement is not clear. Kindly specify the exact requirement.	The requirement is clear. The Engineer will define with the Contractor the characteristics of Geomagnetic Induced Current (GIC) protection at the design review stage.
406	Part 2 – Employer's Requirement / 221123_Lot2_NBW_PSR/ Clause Number 3.20 (2)/ 62 of 64	<p>Kindly furnish the make and model of existing 220kV busbar protection at New Butwal Substation. We understand that necessary slots are available for integrating present scope bays.</p> <p>Also we understand that 400/220 KV NEW BUTWAL SUB STATION will be having two separate SAS system (one for new 400 & 33kV bays under present scope & existing SAS system for 220kV bays).</p> <p>Kindly define the control philosophy for 400/220kV ICT bays, as there will be two separate SAS in the New Butwal Substation.</p>	<p>We do not have the details of make and model of existing 220kV busbar protection at New Butwal Substation. Further, please try to verify from your own end about the availability of necessary slots for integrating present scope bays.</p> <p>SAS system for 400kV and 33kV Bays under present scope of works will be different from SAS system for existing 220kV and 33kV Bays.</p> <p>220kV Transformer Bays shall be controlled per existing 220kV SAS and 400kV Transformer Bays shall be controlled as per 400kV SAS under the present scope of works.</p>

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408	<p>Part 2 - Employer's Requirement / 221123_Lot2_NBW_PSR/ Clause Number 3.1 b/17 of 64</p>	<p>As specification do not clarify, request to kindly furnish PLCC & protection coupler make & model of Gorakhpur substation so that bidder can match with existing for proper function. Kindly note PLCC system always works in pair (both end make & model should be same.</p> <p>If remote end details not available, then bidder shall consider the PLCC terminal & protection coupler for both ends of the 400KV to Indian Border LINE 1 (Remote end Gorakhpur Substation). Kindly confirm.</p> <p>Also kindly furnish the line length 400KV TO Indian Border LINE 1 & 2.</p>	<p>We have some information against your query which we are willing to share below.</p> <p>PLCC equipment at Gorakhpur shall be as per the technical specifications which shall be shared through an addendum to the bidding document, subject to the approval of the authority.</p> <p>Regarding the make and model of the PLCC equipment at Gorakhpur end, the material/equipment are in the scope of the Contractor responsible for the Indian portion of the Cross Border Line. The details regarding the same shall be finalized during detailed engineering activities.</p> <p>The tentative list of approved vendors/suppliers may be issued through an addendum to the bidding document subject to the approval of authority.</p>
409	<p>Part 2 - Employer's Requirement / 221123_Lot2_NBW_PSR/ Clause Number 3.8 a/ 23 of 64</p> <p><i>The Gorakhpur Substation to be connected with 400kV New Butwal – Gorakhpur transmission line may adopt Digital Protection Coupler. The Digital Protection Coupler matching with the</i></p>	<p>As specification do not clarify, request to kindly mention the firm requirements at bidding stage for consideration of DPC.</p> <p>If DPC to be considered, request to kindly furnish Digital Protection Coupler make & model of Gorakhpur substation so that bidder can match with existing for proper functioning. Kindly note Digital Protection</p>	<p>We have some information against your query which we are willing to share below.</p> <p>The make and model of the DPC equipment at Gorakhpur end, the material/equipment are in the scope of the Contractor responsible for the Indian portion of the Cross Border Line, the</p>

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	<p><i>Gorakhpur S/S and associated power & control cables, fibre cables and accessories for New Butwal S/S is under the present scope of work and shall be used for tele protection application. Each DPC shall be interfaced with SDH/MUX telecommunication terminal located in the control room required for the communication with present SAS and SCADA system of NEA.</i></p>	<p>Coupler system always works in pair (both end make & model should be same).</p>	<p>Contract for the same has probably been awarded. The details regarding the same shall be finalized during the detailed engineering activities.</p>
<p>411</p>	<p>Part 2 - Employer's Requirement / 221123_Lot2_NBW_PSR/3.8 b/ 25 of 64</p>	<p>As mentioned PLCC equipment are “already finalized/procured/installed carrier equipment at the Gorakhpur substation”, hence request M/s MCA to kindly furnish us the details from remote end substation owner. In addition to that, Indian utilities always procure the PLCC terminal equipment in pair (for both end). Therefore, kindly provide us the clarity of scope in this regard.</p>	<p>We have some information against your query which we are willing to share below.</p> <p>PLCC equipment at Gorakhpur shall be as per the technical specifications which shall be shared through an addendum to the bidding document subject to the approval of authority.</p> <p>Regarding the make and model of the PLCC equipment at Gorakhpur end, the material/equipment are in the scope of the Contractor responsible for the Indian portion of the Cross Border Line.</p> <p>Further, New Butwal PLCC equipment shall remain a part of this scope of work. The details regarding the same shall be finalized during the detailed engineering activities. The tentative list of approved vendors/suppliers may be issued through</p>

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			an addendum to the bidding document subject to the approval of approval.
430	<p>230324_SS_Bid_Document_for_issuance_Final</p> <p>Lot 2 Option</p>	<p>As specification do not clarify, we understand for 220kV Optional scope, busbar protection shall be single (non redundant) low impedance centralized scheme. Kindly confirm.</p>	<p>There are no 220kV Line Bay items in either base or option scope of works. Only 2 nos. of 220kV AIS Transformer Bays are to be provided to interconnect 2 nos of 400/220kV ICTs to 220kV Busbar of NEA. The existing 220kV busbar protection scheme is low impedance differential distributed type.</p>
433	<p>221123_Lot2_NBW_PSR, Clause Number3.8/ Page- 23 of 64 & 25 of 64. AUTOMATION AND TELECOMMUNICATION SYSTEM</p>	<p>1. Please confirm whether DPC will be implemented for 400kV New Butwal – Gorakhpur transmission line. Requirement of DPC should be cleared at bidding stage itself to avoid any cost implications for DPC consideration at later stage.</p> <p>2. As per subject clause there existing DPC at Gorakhpur end & matching DPC at New Butwal should be provided. Hence please provide the below details:</p> <p>a) Make/model of existing DPC at Gorakhpur substation.</p> <p>b) Please note that DPC works in point to point mode & both end DPC make/model should be same to achieve end to end protection transfer.</p> <p>We understand matching DPC at New Butwal end w.r.t existing DPC at Gorakhpur S/S will be provided by MCA. Please confirm.</p> <p>c) In case of matching DPC to be offered, existing DPC ,Bidder need to offer DPC at</p>	<p>Yes, matching DPC is to be provided. The details regarding the same shall be finalized during the detailed engineering activities. The tentative list of approved vendors/suppliers may be issued through an addendum to the bidding document subject to the approval of authority.</p> <p>Actually, there are no existing DPCs & existing SDH at Gorakhpur S/S at this time. Gorakhpur SS Contract is in the process of award at this time and those aspects will be determined during Engineering Design stage.</p>

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		<p>both end i.e same make offered at Gorakhpur & New Butwal. Please confirm.</p> <p>3. Please provide specification of Digital protection coupler.</p> <p>4. Please confirm location of existing DPC & existing SDH at Gorakhpur S/S .e both in control room or SDH in control room & DPC in Kiosk/SPR. The same is required to check requirement of E1-Fo converter for SDH & DPC interfacing.</p>	
435	<p>Specifications) 221123_Lot2_NBW_PSR Page-13 of 64 PLCC system along with necessary coupling equipment, line traps and cables need to be installed in each of 400kV D/C Lines going towards Indo-Nepal border to extend to Gorakhpur Substation in UP of India are also included in the scope The PLCC Equipment and Line traps as specified shall be installed at the New Butwal S/S end of the New Butwal – Indo Nepal Border transmission line. The Contractor shall be responsible for coordinating the exact technical specifications of the equipment to be supplied by him with the specificaitons of already finalized/procured/installed carrier equipment at the Gorakhpur substation. Contractor shall also be responsible for collecting all the necessary information/data from the respective substations/concerned utilities for the installation of the equipment</p>	<p>1. Please note that PLCC works in point to point mode & both end PLCC make/model should be of same make to achieve end to end communication.</p> <p>2. We understand matching PLCC at New Butwal end w.r.t existing PLCC at Gorakhpur under this project will be provided by MCA. Please confirm.</p> <p>3) In case of existing PLCC , please provide make/model of existing PLCC at Gorakhpur end for Gorakhpur-New Butwal D/C line. Bidder need to offer new PLCC at both end i.e same make offered at Gorakhpur &New Butwal. Please confirm.</p> <p>4. Please confirm Analog Protection coupler qty & same is to be offered distance protection for following lines: Analog Protection Coupler through PLCC New Butwal- Gorakhpur 400kV D/C - 4 Nos. (2 at each end)</p>	<p>1. Noted.</p> <p>2. Matching PLCC equipment at new Butwal with respect to PLCC equipment at Gorakhpur Substation shall be supplied by the contractor under this project.</p> <p>3. There is no existing PLCC at Gorakhpur substation at this point in time. PLCC at Gorakhpur substation will be supplied by another contractor.</p> <p>4. Our requirement is Analog Protection Coupler through PLCC at New Butwal end only (2 numbers).</p>

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453	<p>220913_Lot2_NBW_TS CHAPTER 5: FIRE PROTECTION SYSTEM SPECIFICATION 1.2. SCOPE OF SUPPLY (C) Additional FP System Requirements a. Water well and supply piping to Fire Water Tank</p> <p>CI No. 2.4. WATER SUPPLY (f) Bore wells and pumps for water supply are not in the scope of the contractor. Contractor shall provide a source of water supply arrangement to the Fire Water tank from the Employer provided source.</p>	<p>There is a discrepancy between the two referred clauses related to scope of water well / bore well along with pumps and inlet piping to the fire water tank. Therefore, we understand that intake water system which includes water well / bore well along with pumps is excluded from bidder's scope of work and only inlet piping from customer provided source of water to Fire water tank is in bidder's scope. Kindly confirm.</p>	<p>MCA-Nepal may issue an addendum to the bidding document -subject to authority's approval- with rephrasing the requirement as: "Bore wells and pumps for water supply is in the scope of contractor. The Contractor shall provide the source of water supply arrangement to the Fire Water tank".</p>
468	<p>221123_Lot2_NBW_PSR/ Clause No 3.17.2.14, SPECIFIC CIVIL WORKS IN THE SUBSTATION 41/64.</p>	<p>1. Since, no outfall point is mentioned in Tender document, we understand that, suitable outfall point shall be made available by MCA to successful bidder within 20 meter beyond the proposed substation boundary. Please confirm.</p> <p>2. As per Contour drawing provided, we understand that, River protection work is not applicable at Butwal SS. Please confirm.</p>	<p>1. It is the responsibility of the contractor to design the suitable outfall point and its location subject to approval by the Engineer.</p> <p>2. MCA-Nepal intends to conduct Hydrological study and subsequent river protection works at New Butwal SS subject to approval of the authority.</p>
614	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 3.7, page 189 of 741 (220913_Lot3_NDM_TS) a. <i>The neutral terminal of autotransformers shall be brought to the ground level by a brass/tinned copper ground bar, supported from the tank by</i></p>	<p>'Requirement is not clear. Kindly specify the exact requirement.</p>	<p>Requirement is clear. The Engineer will define with the Contractor the characteristics of GIC protection at the design review stage.</p>

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	<p><i>using porcelain insulators. The end of the brass/tinned copper bar shall be brought to a convenient point, for making bolted connections to two (2) 72x12 mm galvanized steel flat pads connected to the station earthing mat. Provision shall be made for protection against GIC induced currents, such as DC CT on the neutral on other appropriate method.</i></p>		
628	<p>Section V: Employer's Requirements B1.2 Technical Specifications Chapter 3 Autotransformer Specification Clause 5.1, page 210 of 741 (220913_Lot3_NDM_TS) <i>Inspection</i> <i>g. Assembled Autotransformer</i> <i>v. Skid test on filled transformer testing movement and rotation by pulling on provided lugs..</i></p>	<p>Skid test not called in IEC and will not be conducted on oil filled transformer. Please accept and confirm.</p>	<p>Accepted and confirmed. This provision will be removed through an addendum to the bidding document after approval from the authority.</p>
677	<p>220913_Lot3_NDM_TS CHAPTER 5: FIRE PROTECTION SYSTEM SPECIFICATION 1.2. SCOPE OF SUPPLY (C) <i>Additional FP System Requirements</i> <i>a. Water well and supply piping to Fire Water Tank</i> <i>CI No. 2.4. WATER SUPPLY (f)</i> <i>Bore wells and pumps for water supply are not in the scope of the contractor. Contractor shall provide a source of water supply arrangement to the Fire Water tank from the Employer provided source.</i></p>	<p>There is a discrepancy between the two referred clauses related to scope of water well / bore well along with pumps and inlet piping to the fire water tank. Therefore, the bidder understand that intake water system which includes water well / bore well along with pumps is excluded from bidder's scope of work and only inlet piping from customer provided source of water to Fire water tank is in bidder's scope. Kindly confirm.</p>	<p>MCA-Nepal may issue an addendum to the bidding document -subject to the authority's approval- rephrasing the requirement as: “Bore wells and pumps for water supply are in the scope of the contractor. The Contractor shall provide the source of water supply arrangement to the Fire Water tank”.</p>

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694	<p>230324_SS_Bid_Document_for issuance_Final 221123_Lot3_NDM_PSR 221101_B01_GPD <i>Schedule No. 4.3; Clause no: 4.3.2.1: Improvement of Access Road as required to Substation</i> <i>Clause no: 3.16.2.10 - The proposed roads and paving are indicated in the layout plan.</i> <i>Clause No 5: Site Accessibility, Page (19 of 106); Follow Prithvi Highway, then Mugling Pokhara Road then 3.39 km east from Galfu Besi Bus Stop (Near Damauli).</i></p>	<p>From the BPS line item no 4.3.2.1 and Clause no 5 of '221101_B01_GPD', the bidder understands that bidder's scope of improvement of access road is limited to 3.39km. Please confirm.</p>	<p>In reference to the road connecting from the Highway to our construction site, the mentioned area falls within the jurisdiction of the 220/132kV Substation contractor of NEA.</p> <p>Please note that the dimension/weight of the heaviest piece of equipment under NEA project and MCA-Nepal project may differ especially in case of auto transformer.</p> <p>Hence, the bidder needs to take care of the same and make provisions for any increased in dimension/ weight of the autotransformers to be supplied under MCA-Nepal project.</p>
733	<p>220913_Lot1_RAT_TS, 220913_Lot2_NBW_TS, 220913_Lot3_NDM_TS CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION Cl. 3.7 Neutral Earthing Arrangement, a</p>	<p>Kindly provide GIC current magnitude to confirm. Also note that, DC CT parameter required for getting quotation.</p>	<p>The Engineer will define with the Contractor the characteristics of the GIC protection at the design review stage.</p>

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735	<p>220913_Lot1_RAT_TS, 220913_Lot2_NBW_TS, 220913_Lot3_NDM_TS CHAPTER 3: AUTO-TRANSFORMER SPECIFICATION Cl. 5.1 b viii</p>	<p>Our manufacturing plant in India was set up similar to the latest manufacturing facilities and plants in Europe and hence our core stacking table and hydraulic lifting jigs were designed similar to the ones available in Europe. We build the core as per global practice and standards and our principals do not recommend to build the core with top yoke lamination as double handling of top yoke lamination may introduce stress in laminations, negatively affecting the magnetic properties of core. Similarly the accuracy of measurements will not be good as the dummy coils will not simulate actual conditions of windings. We once again confirm that actual no load losses will be as per guaranteed value which may be checked during final testing. Hence we request you to delete this requirement during inspection.</p>	<p>The requirement is to “Check on completed core for measurement of iron loss and check for any hot spot by exciting the core so as to induce the designed value of flux density in the core” during inspection. Please note that testing using dummy coils is not required.</p>
925	<p>Ratmate Existing Drawings Hetauda & Lapsephedi work</p>	<p>Kindly provide Existing Hetauda & Lapsephedi Overall layout & Cable trench layout for estimation of FO/Approach cable of propose new upcoming bays.</p>	<p>The Contractor has to supply a fully functional turnkey installation and shall estimate the quantities required.</p> <p>The documents as available will be provided thorough addendum after approval from the authority.</p>
926	<p>Ratmate Existing Drawings Hetauda & Lapsephedi work</p>	<p>Kindly provide existing control room building for Hetauda & Lapsephedi Substation with showing communication</p>	<p>The contractor has to supply a fully functional turnkey installation and shall estimate the quantities required.</p>

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		panel placement/Scada. Also provide AC,DC and Interfacing cable route and feeders details.	The documents as available will be provided through an addendum to the bidding document after approval from the authority.
981	<p>Lot 2 PLCC Please provide make & model details of existing PLCC at Gorakhpur - India end</p>	<p>1) In order to match the Communication Philosophy existing make of PLCC and Associated items is required. Please provide the make & model details of existing PLCC at Gorakhpur - India & Ratings of Line Trap.</p> <p>2) Bidders understand that while Testing and commissioning of PLCC MCA will provide necessary support from PGCIL- India end to commission the Butwal PLCC System. The bidder is not responsible to work at PGCIL - Gorakhpur Substation. Please confirm.</p>	<p>We have some information against your query which we are willing to share below.</p> <ol style="list-style-type: none"> 1. PLCC equipment at Gorakhpur shall be as per the technical specifications which shall be shared through an addendum to the bidding document subject to the approval of authority. Regarding the make and model of the PLCC equipment at Gorakhpur end, the material/equipment are in the scope of the Contractor responsible for the Indian portion of the Cross Border Line. The details regarding the same shall be finalized during the detailed engineering activities. The tentative list of approved vendors/suppliers may be issued through an addendum to the bidding document subject to the approval of the authority. 2. MCA-Nepal will assist the contractor to obtain the necessary support from the relevant authority in this regard.

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888	<p>a.SECTION 2: 220kV GIS TECHNICAL SPECIFICATION</p> <p>Ch 1_S2_TS_220kV GIS_RAT 12.16 SEISMIC DESIGN CRITERIA AND SUPPORT STRUCTURES</p>	<p>- Structure material will be as per Indian Standard only; however the Tensile Strength will be as per American Standard.</p> <p>- The offered GIS structure shall be in line with IEC/ IS standard. Request a concurrence on the same.</p>	<p>Kindly adhere to the requirements of the bidding document.</p>
874	<p>a.SECTION 2: 220kV GIS TECHNICAL SPECIFICATION</p> <p>Ch 1_S2_TS_220kV GIS_RAT 12.2.4 For the purpose of gas monitoring and maintenance, each circuit breaker bay shall have separate independent gas compartments for the circuit breaker, CTs, disconnect switches, maintenance earthing switches, high speed ground switches, voltage transformers, metal-enclosed surge s, cable sealing end enclosures, bus sections, gas-to-air-bushing modules and interface connections for future expansion of the GIS. Each switching device and earthing device shall have its own individual gas zone.</p>	<p>For offered 400/220KV GIS- maintenance earthing switches, high speed ground switches shall be provided with disconnect compartment or any other adjacent gas compartment. Request kind acceptance on same.</p>	<p>Kindly adhere to the requirements of the bidding documents.</p>
196	<p>Section III: Qualification and Evaluation Criteria</p> <p>Sub-Factor 16: Similar Construction Qualification</p> <p><i>Successfully completed at least three (3) turnkey or design-build substation projects within the last ten 10 years for each lot,</i></p>	<p>The Bidder is requesting change as:</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: for Lot 1: US\$34 Million (3 Contracts each of US\$ 34</p>	<p>Please refer to Addendum 2, through which this requirement is amended. Further amendment is not expected.</p>

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
	<p><i>(a) of below mentioned value: for Lot 1: US\$34 Million (3 Contracts each of US\$ 34 Million or above) for Lot 2: US\$ 20 Million (3 Contracts each of US\$ 20 Million or above) for Lot 3: US\$ 21 Million (3 Contracts each of US\$ 21 Million or above)</i></p> <p><i>(b) Participation as single entity or as joint venture partner in at least three (3) 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 for each lot. To be eligible for award of more than one lot, the bidder needs to satisfy the total requirements for the lots in consideration.</i></p> <p><i>(c) Participation as single entity or as joint venture partner in at least three (3) turnkey contracts, at least one being in a South Asian country for each lot.</i></p> <p><i>(d) Supply, delivery, installation, testing and commissioning of at least cumulative 1000MVA three phase (or equivalent capacity in bank of three single phase units) auto/power transformer of 380 kV or higher EHV side and the same should be in successful operation for each lot.</i></p> <p><i>Evidence shall be given by end users or taking over certificates. All contracts must have been successfully and substantially completed with at least one (1) of them being outside the contractor's home country. All contracts should have features similar to the proposed plant and services.</i></p>	<p>Million or above) for Lot 2: US\$ 20 Million (3 Contracts each of US\$ 20 Million or above) for Lot 3: US\$ 21 Million (3 Contracts each of US\$ 21 Million or above)</p> <p>(b) Participation as single entity or as joint venture partner in at least three (3) 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 for each lot. To be eligible for award of more than one lot, the bidder needs to satisfy the total requirements for the lots in consideration.</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 South Asian country for each lot.</p> <p>(d) Supply, delivery, installation, testing and commissioning of at least cumulative 1000MVA three phase (or equivalent capacity in bank of three single phase units) auto/power transformer of 380 kV or higher EHV side and the same should be in successful operation for each lot.</p> <p>Evidence shall be given by end users or taking over certificates. All contracts must have been successfully and substantially</p>	

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	<i>The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section V, Employer's Requirements.</i>	completed with at least two (2) turnkey contract/design and build constructing GIS substations of voltages 380kV or above in Bidder own country and one (1) turnkey contract/design and build constructing GIS substations of voltages 220kV or above being outside the contractor's home country of them being outside the contractor's home country. All contracts should have features similar to the proposed plant and services. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section V, Employer's Requirements.	
412	Chapter 10, Section 2 TS CRP Prot RATMATE Substation. 2.5 Bus Protection	<p>For Busbar Protection scheme for 220 kV & 400 kV Voltage level shall be redundant i.e. whether we have to provide Bus differential relay main 1 and main 2 relays of different manufacturer.</p> <p>Busbar Protection scheme for Substation is considered as Centralized Busbar Protection scheme.</p> <p>Please confirm</p>	<p>The requirement of manufacturer will be determined during the detailed engineering subject to the approval of the Engineer.</p> <p>Busbar Protection scheme will be centralized such that it is ensured that tripping can happen on the faulted bus even if one of the systems is out of service.</p>
415	Chapter 10 S1-Section2 TS CRP NBW 2.5 Bus Protection	For Busbar Protection scheme for 220 kV & 400 kV Voltage level shall be redundant i.e. whether we have to provide Bus differential relay main 1 and main 2 relays of different manufacturer.	<p>The requirement of manufacturer will be determined during the detailed engineering subject to the approval of Engineer.</p> <p>Busbar Protection scheme will be centralized such that it is ensured that</p>

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		<p>Busbar Protection scheme for Substation is considered as Centralized Busbar Protection scheme.</p> <p>Please clarify the scope</p>	<p>tripping can happen on the faulted bus even if one of the systems is out of service.</p>
418	<p>Chapter 11 S1-Section 2 TS CRP 2.5 Bus Protection</p>	<p>For Busbar Protection scheme for 220 kV & 400 kV Voltage level shall be redundant i.e. whether we have to provide Bus differential relay main 1 and main 2 relays of different manufacturer.</p> <p>Busbar Protection scheme for Substation is considered as Centralized Busbar Protection scheme.</p> <p>Please confirm.</p>	<p>The requirement of manufacturer will be determined during the detailed engineering subject to the approval of Engineer.</p> <p>Busbar Protection scheme will be centralized such that it is ensured that tripping can happen on the faulted bus even if one of the systems is out of service.</p>
9	<p>Section I. ITB - 15. Bid Prices and Discounts 15.11 Bidders wishing to offer any price reduction for the award of more than one lot shall specify in their Bid the price reductions applicable to each package, or, alternatively, to individual lots within the package</p>	<p>If the bidder is participating in Lot-1 as a member of JV and in other two lots as sole bidder, can the bidder can offer discount in all 3 lots together.</p>	<p>No. The reason is because a JV is a different bidder than the sole bidder.</p>
29	<p>CHAPTER 9 : CIVIL WORKS SPECIFICATION SECTION 1: GENERAL CIVIL WORKS SPECIFICATION , Cl 16.m for Lot 2 and Lot 3 and Cl 15.m for Lot 1</p>	<p>Bidder understands that the reinforcement steel shall not be corrosion resistant type. Kindly confirm.</p>	<p>The contractor should ensure that the reinforcement steel as specified in the technical specifications should be corrosive free during the construction and meet the strength and properties as specified in the technical specifications and relevant codes. The reinforcement steel</p>

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			and other construction materials will be subjected to frequency test during the construction period to ensure adherence to the technical specifications and pertaining codes.
81	<p>Price Schedule-Ratmate Base: 2.7.2.15 Three Single Phase Gas Insulated Bus (GIB) and required GIS Termination along with supports for GIB run for the whole Transformer Bay - 2 Nos. Option: 2.7.2.15 Three Single Phase Gas Insulated Bus (GIB) and required GIS Termination along with supports for GIB run for the whole Transformer Bay - 6 Bays</p>	<p>In Lot 1 - Ratmate there is mismatch in Qty. of Price Line item No. 2.7.2.15 in Base and Option Bidder request to Amend the Price Schedule</p>	<p>The Qty. of price line item no. 2.7.2.15 in Base and Option scope are correct. Bidders are requested to refer to Clause 2, Part 2: Employer's Requirements Section V – B1 (Project Specific Requirements) and SLD RTE-100-3 & RTE-100-4 for better clarifications.</p>
48	<p>Lot 1: Section IV. Bid Submission Forms/ During Payments as Demanded By LC: Insurance Policy or Certificate: insurance certificate (insurance 110% of the value of the goods), showing the Employer as the beneficiary.</p>	<p>The Bidder would like to inform us that, they cannot add Employer as beneficiary, unless bidder is not retaining risk of loss for the transportation activity. Employer shall be named as additional insured. Request us to kindly accept the same.</p>	<p>There should be a Joint Insurance Policy where MCA-Nepal will be among the beneficiaries of its own insurable interest on the insurance proceeds in case of claim. The payment of premium should be the sole responsibility of the bidder.</p>
533	<p>Lot 3: Section IV. Bid Submission Forms/ During Payments as Demanded By LC: Insurance Policy or Certificate: insurance certificate (insurance 110% of the value of the goods), showing the Employer as the beneficiary.</p>	<p>The Bidder would like to inform us that, they cannot add Employer as beneficiary, unless bidder is not retaining risk of loss for the transportation activity. Employer shall be named as additional insured. Request us to kindly accept the same.</p>	<p>There should be a Joint Insurance Policy where MCA-Nepal will be among the beneficiaries of its own insurable interest on the insurance proceeds in case of claim. The payment of premium should be the sole responsibility of the bidder.</p>