



## CLARIFICATION #6

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**

**Date of Issue: 21 August 2023**

SN	Reference to the Bidding Document	Questions from Bidders	Response of Millennium Challenge Account Nepal (MCA-Nepal)
1.	<p><b>CLARIFICATION #III -</b> <b>'Sl.no: 15</b> <i>Query : The Bidder seeks confirmation on the number of parking areas as there is conflict in the site plan (2 Nos.) and price schedule (1 Nos). Kindly confirm the number of parking areas required.</i></p> <p><i>MCA reply : 2 nos. of parking areas are envisaged.</i></p>	<p>Based on referred clarification, we understand that the requirement of Parking area for Ratmate (2 nos), for Butwall (1 nos) &amp; for Damuali (1nos).</p> <p>Please confirm.</p> <p>Since the bid is design build contract, kindly provide the following details to estimate the quantum of works. as the details are not provided in tender document.</p> <ol style="list-style-type: none"><li>1. Parking area (whether open space only to be provided or shed with covered roof)</li><li>2. Dimension of parking area</li><li>3. No's of car &amp; bike</li></ol>	<p>Confirmed.</p> <ol style="list-style-type: none"><li>1. Shed with covered roof.</li><li>2. To be proposed by the contractor during detailed engineering and will be subject to approval by the Engineer.</li><li>3. For the bidding purpose, the Bidders are advised to plan the parking space for ten number of cars &amp; additional space for Motorcycles (Filter M/C Parking) as shown in the GA drawings of Ratmate, Damauli &amp; New Butwal.</li><li>4. Covered with Sheet.</li><li>5. To be proposed by the contractor during detailed engineering and will be subject to approval by the Engineer.</li></ol>

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		<p>4. If covered type (RCC type or covered with sheet)</p> <p>5. Standard drawing (if available)</p>	
2.	<p><b>CLARIFICATION #III - 'Sl.no: 235'</b>  <i>'Query : As per price schedule, the Portable Water System (Including Water Treatment Plant, Pumping Facilities, Storage Tank and all Required Facilities) is in bidders scope. However, the detailed specification and requirements for portable water system is not provided.</i></p> <p><i>MCA reply : Design and Construction of the Water Treatment Plant, Pumping Facilities, Storage Tank and all Required Facilities including the volume of water to be considered for storage tank is in the present scope of works. The same shall be finalized during the detailed engineering subject to approval of the Engineer. MCA-Nepal may issue an addendum, if required after approval from the authority.</i></p>	<p>Since the bid is design build contract, in order to estimate the exact quantum works for tender stage for the proposed package. The following details are required for Portable water system item.</p> <ol style="list-style-type: none"> <li>1. Water treatment plant capacity</li> <li>2. Requirement of building for water treatment plant</li> <li>3. if building is envisaged, type of building &amp; dimension</li> <li>4. Pumping facilities details</li> <li>5. capacity of storage tank &amp; type of tank</li> <li>6. Pumping capacity.</li> </ol>	<p>MCA-Nepal intends to issue an addendum to the bidding document subject to the approval of authority, providing required detail.</p>
3.	<p><b>CLARIFICATION #III - 'Sl.no: 39'</b>  <i>Query : New Butwal Substation Site: Bidder is responsible for Approach Road within NEA premises. Bidder will dismantle the existing Boundary wall for Approach Road and after completion of</i></p>	<p>Based on referred query, we understand that the approach road &amp; dismantling of the existing boundary wall for butwall substation is in bidders scope. However in price schedule there is no separate item for Approach road. Kindly include the same.</p>	<p>For 1 &amp; 2 Please refer to drawing number NBW-200-1 under Employer's requirement (B11_PSR, Lot 2_NBW_DWG) for your clarifications. However, the details may change during detailed engineering subject to the approval of Engineer.</p>

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	<p><i>project the same dismantle Boundary wall shall be restored. Please confirm.</i></p> <p><i>MCA reply : Bidder is responsible to construct the approach road, dismantling of the boundary and maintenance/restoration required is also in the scope of the contract.</i></p>	<p>Also kindly provide the following details in order to ascertain the quantum of work.</p> <ol style="list-style-type: none"> <li>1. Length &amp; width of approach road</li> <li>2. Type of approach road</li> <li>3. Existing boundary wall type &amp; drawing (if available)</li> <li>4. Length of boundary wall to be dismantled.</li> </ol>	
4.	<p><b>CLARIFICATION #III -</b> <b>'Sl.no: 69</b> <i>'Query : New Damauli Substation Site: As per site visit Bidder understands that the Approach road is under construction at present. Please confirm the approach road shall be available before commencement of work.</i></p> <p><i>MCA reply : NEA has already started the construction of the approach road and is likely to be constructed before the commencement of the present Contract. Furthermore, Bidders are advised to visit to the site and acquaint themselves with the information/ requirement to assure the fulfillment and successful implementation of the scope of works of the Contract.</i></p>	<p>Based on referred query, we understand that the approach road for Damauli SS, NEA has already started the construction of the approach road and is likely to be constructed before the commencement of the present Contract.</p> <p>Hence, we trust that the construction of approach road is not required for the proposed Damauli SS.</p> <p>Kindly confirm.</p>	Confirmed.
5.	<p><b>Common for all Lots- Part 2: Part 2: Employer's Requirements Section V – B1 (Technical Specifications)</b> <b>'3.1. CONTOUR SURVEY &amp; SITE LEVELLING:</b></p>	<p>We wish to inform that, the finished ground level of the proposed substation shall be 300mm High from the High flood level.</p> <p>Please confirm.</p>	The finished ground level will be finalized during detailed engineering subject to the approval of the engineer.

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6.	<p><b>Common for all Lots- Part 2: Part 2: Employer's Requirements Section V – B1 (Project Specific Requirements) '3.17.2.13 LANDSCAPING</b></p>	<p>We wish to inform that, the detailed specification for landscaping activity for the proposed package (area, type of trees, requirement of fountains, gardening, etc.,) work for the proposed package is not attached with tender document. Since the bid is design build contract, in order to estimate the exact quantum works, Kindly provide the detailed specification for landscaping work (area, type of trees, requirement of fountains, gardening, etc.).</p>	<p>To be provided by the Contractor during detailed engineering.</p>
7.	<p><b>CLARIFICATION #II - 'Sl.no: 318</b>  <i>'Query : As per tender documents, we are considering 6 m wide and 700 m long for strengthening of access road in Ratmate. Kindly confirm.</i></p> <p><i>Response : Bidders are advised to refer to Clause 5 Site Accessibility under Section V-B0 (Project General Description). Additionally, the Bidders are advised to do their own analysis to find the details and conditions of the access road to prepare a suitable proposal.</i></p>	<p>Based on referred query reply, in Clause 5 Site Accessibility under Section V-B0 (Project General Description), it is mentioned that Upgrade about 0.7 km of the existing gravel road to asphalted road. However the width of upgrade of existing road is not specified for Ratmate Substation. Based on site visit, the width of existing gravel road width is 4m to 4.5m (approx.) for Ratmate. We trust that, the upgrade of existing road width will be of 4.5m only. Please confirm or kindly specify the width of upgrade of existing road.</p>	<p>Please consider 6 m width and 0.7km length for the bidding purpose.</p>
8.	<p><b>Clarification-3, Sl. No. 42 &amp; 43</b>  <i>Query no. 42: New Butwal Substation Site: Existing Battery and Charger (NEA) is sufficient and Spare feeders are available in existing DCDB for new 2 nos. 220kV AIS bays to be constructed within existing 220kV AIS Substation of NEA. Please confirm.</i></p>	<p>In clarification-3 Sl.No.42 &amp; 43, Employer replied as "The requirement of the DCDB battery and charger and ACDB for 220kV AIS bays is also in the current scope of works."   However as per clarification-1, Sl.No.97, Employer confirmed for the query related to</p>	<p>220kV extension shall be supplied from existing LT panels located at 220/132kV Butwal Substation.</p>

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	<p><i>Query No: 43 New Butwal Substation Site: Existing AC Power (NEA) is sufficient and Spare feeders are available in existing ACDB for new 2 nos. 220kV AIS bays to be constructed within existing 220kV AIS Substation of NEA. Please confirm.</i></p>	<p>new LT panels requirement for proposed 220kV bays &amp; spare feeder availability in existing LT panels "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>As both the replies from Employer are contradicting, please clarify the actual requirement for Auxiliary power supply for proposed 220kV bays at Butwal Substation.</p>	
9.	<p><b>Clarification-3, SI. No. 54</b>  <i>Query 54: New Butwal Substation Site: During Site visit bidder observed that there is no Control Panel exist for existing NEA 220kV AIS Substation. In SPR rooms only Relay Protection Panels (front openable) are installed and Operated by SCADA System installed in NEA - Control Room. Please confirm in similar method only relay panel has to provide for new 2 x 220kV AIS bays. There is no Control Panel is required. Please clarify.</i></p>	<p>In clarification-3 SI.No.54, Employer replied as "Autotransformer protection panels should be in the 400kV. The contractor will have to integrate the two 220kV AIS bays in the 220kV busbar protection." for the query related to location of control &amp; relay panel of proposed 220kV bays at Butwal.</p> <p>Kindly confirm, whether 220kV CB relay panel for the transformer bay shall be located in new control building or Existing 220kV SPR room.</p>	220kV CB relay panel for the transformer bay shall be located in a separate Switchyard Panel Room.
10.	<p><b>Clarification-3, SI. No. 100 &amp; New Ratmate Substation, 220913_Lot1_RAT_TS, Chapter-13, clause 8 New Butwal Substation,</b></p>	<p>In clarification-3 SI.No.100, Employer replied as "PABX will be located in Ratmate. Contractor will provide all material and services for interfacing with the existing network." for the query "There is no Phone/EPBAX System is required at Hetauda</p>	From fig 1 of clause 8, the supply of an exchange PABX is required at Ratmate while remote phone extensions are required at the other substations end of New Butwal, New Damauli, Lapsipedi, and New Hetauda- Remote phone

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	<p><b>220913_Lot2_NBW_TS, Chapter-13, clause 8</b>  <b>New Damauli Substation,</b>  <b>220913_Lot3_NDM_TS, Chapter-14, clause 8</b></p>	<p>Substation, as it is already available with NEA."</p> <p>We understands from above Employer's reply and referred clause of Technical specification with figure for Proposed Telephone System for MCA-Nepal Substations, that PBX to be provided only at Ratmate and Butwal &amp; damauli substations shall be provided with interfacing accessories only. Please confirm.</p>	<p>extensions will be connected by using telecommunication links of the SDH system between Ratmate and the corresponding substations to connect the remote phones. Proper interfaces shall be supplied at Ratmate and at the remote substations such that the SDH links are transparent to the phone subscribers.</p> <p>In addition to the above, the new Ratmate PABX will be connected to the other PBX of the network with proper interfaces and locally to the public network PSTN.</p>
11.	<p><b>Clarification-3, Sl. No. 236</b>  <i>Query 236: In referred line item, GIB &amp; SF6-Air bushing for 220kV line bays are mentioned. Please check &amp; clarify the requirement, as all the 220kV line bays are under future scope &amp; only the respective 220kV GIS modules with indoor GIB are under present scope. Please confirm.</i></p>	<p>In clarification-3 Sl.No.236, Employer replied as "Kindly adhere to the requirements of the Bidding document." for the query "In referred line item, GIB &amp; SF6-Air bushing for 220kV line bays are mentioned. Please check &amp; clarify the requirement, as all the 220kV line bays are under future scope &amp; only the respective 220kV GIS modules with indoor GIB are under present scope. Please confirm."</p> <p>Without knowing the line orientation / Remote end location and by assuming the location of outdoor equipment /tower, providing Outdoor GIB &amp; SF6 Air bushing for Future bays shall have implications during execution of the respective line bays. We propose to consider 220kV GIS modules with indoor GIB (brought just outside the GIS Hall with provision for future extension)</p>	<p>Bidders are advised to refer to PSR 2.2.1 Ratmate Substation, under 2.2 option Scope of work for your clarification.</p> <p>The 220kV Outdoor GIB &amp; SF6 Air Bushings and other equipment shall be included in the SoW such that it is ready for the future extension without the need for additional GIS or GIB components. The orientation and location will be defined at the time of detailed design with the Engineer.</p>

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		& suitably sealed with end caps. Please consider & confirm.	
12.	<p><b>Clarification-3, SI. No. 243</b>  <i>Query 243: In referred clause, it is mentioned as "PROTECTION MODIFICATION AT THE REMOTE ENDS: Any modification needed for the CT's or devices shall be part of this contract. For remote end modifications, any modification needed in the protection panels, control panels/Station HMI shall be fully covered under the bidder's scope of work." Please clarify whether the modification of Protection &amp; Control panels at remote end (Hetauda &amp; Lapsipedi) are in bidder scope. If the same to be included in present scope please include separate line item in respective BPS</i></p>	<p>In clarification-3 SI.No.243, Employer replied as "Confirmed. The requirement is deemed included in the price bid. Furthermore, please note that the purpose of price schedules is to identify the Bid Price which will be used to determine progress payment. The Bidder shall quote the price under the Price Schedule required to carry out Work stated under Employer's Requirements (including technical specifications) based on the Conditions of Contract." for the query related to modification of control &amp; relay panel works at Lapshipedi &amp; Hetauda Substations.</p> <p>As the control and protection relay panels, substation automation systems etc. are being supplied, delivered, installed, tested and commissioned by Other Contractor of NEA at Hetauda &amp; Lapshipedi Substation as per project specific requirement (221123_Lot1_RAT_PSR), clause 2.1.2 &amp; 2.1.3, Hence, Please clarify the scope of remote end Line differential Protection relays at Laphsipedi &amp; Hetauda End based on above reply.</p>	For remote end modifications, any modification needed in the protection panels, control panels/Station HMI shall be fully covered under the bidder's scope of work.
13.	<p><b>Clarification-1, SI. No. 144</b></p>	<p>In clarification-1 SI.No.144, Employer Confirmed for the query "Bidder scope is limited with Butwal substation by matching the DPC &amp; line protection (make &amp; model)</p>	Confirmed.

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		<p>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. Please confirm whether bidder understanding is correct."</p> <p>Based on Employer confirmation for the above query, we presume that Remote end line differential protection at Gorakhpur shall be already available, and bidder has to match with remote end. Please confirm.</p>	
14.	<p><b>Clarification 3 Sl. No. 35</b>  <i>Query</i>  <i>Ratmate Substation Site:</i>  <i>During Site visit. MCA - Nepal it is observed that 11kV Overhead line is passing through the Land as shown for the Substation Construction works. MCA Nepal will be shifting the 11kV Overhead line from the Site. Please confirm</i>  <i>Response:</i>  <i>Site clearance and development including shifting of the 11kV overhead line, if required, is in the scope of the contractor.</i></p>	<p>Please confirm all the necessary approvals &amp; ROW resolutions for shifting of 11kV line will in Employer's scope</p>	<p>MCA-Nepal may facilitate in obtaining approvals and RoW resolutions during shifting of 11kV line. The entire activities of shifting of the 11kV line will be in the scope of Contractor. .</p>
15.	<p><b>Clarification 3 Sl. No. 37</b>  <i>Query</i>  <i>Ratmate Substation Site:</i>  <i>During Ratmate Site visit it is observed that there is possibility of Local habitat</i></p>	<p>Such situation of hindrance / haltage of works due to local habitat intervention / objection / local unrest / community gathering, will fall under Force Majeure 19.1 (iii) and will be dealt with Force Majeure clause 19.4.</p>	<p>Not Confirmed.  The individual site situation will be analyzed during the Contract execution as per the provisions of the Contract to decide whether the conditions meet the</p>



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	<p><i>intervention/ objections, Local unrest/ Community gathering etc.</i>  MCA Nepal will provide necessary control &amp; mitigation for smooth execution of project. Please confirm  Response:  Contractor will be primarily responsible to resolve issues to ensure smooth execution of works at the site. MCA-Nepal will facilitate, if required.</p>	<p>Please confirm.</p>	<p>requirements for declaring Force Majeure or not.</p>
16.	<p><b>Technical Evaluation Criteria for each Lot: - ITB 29.1</b>  i) <i>Health and Safety Manager: Minimum 5 years of working experience in Health and Safety with at least Bachelor’s degree in engineering/environmental science (or equivalent) and Certificate / training in health and safety, Working knowledge in Nepali, Hindi and English.</i>  ii) <i>Social Safeguards Manager: Minimum 5 years of working experience in Social Safeguards with at least Bachelor Degree in social science / human geography (or equivalent) and Working knowledge in Nepali, Hindi and English.</i>  iii) <i>Gender and Social Inclusion Manager: Minimum 5 years of working experience in Gender and Social Inclusion with at least Bachelor Degree in social science / human geography (or equivalent) and Working knowledge in Nepali, Hindi and English.</i></p>	<p>1. Please confirm whether Nepalese speaking personnel for the below mentioned “Key professional personnel qualification” is mandatory - Health and Safety Manager, Social Safeguards Manager, Gender and Social Inclusion Manager and Environmental Manager -in spite of having adequate experience and Working knowledge as per the tender qualification requirement and having proficiency in Hindi and English language.</p> <p>2. In case Nepalese speaking is not mandatory requirement and the proposed personnel are English / Hindi speaking in that case whether there will be any difference in marking.</p>	<p>1. This is not a mandatory criterion, These experts are required to know Nepali language. If the proposed person does not know Nepali language, he/she will not meet the requirement and will be given less score as per A6. Technical Evaluation Framework.</p> <p>2. This is not a mandatory criterion, However, please note that in the Qualification and Evaluation Criteria, the knowledge of English and local language will be scored. and if the proposed person only knows Hindi and English, he/she will get less score as per A6. Technical Evaluation Framework.</p>

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	<p><i>iv) Environmental Manager: Minimum 5 years of working experience in Environmental Management with at least Bachelor Degree in physical geography / natural science/ environmental Science and Working knowledge in Nepali, Hindi and English.</i></p>		
17.	<p>We refer to subject cited tender and wish to bring to your attention towards points concerning Type Test requirement for GIS, which has huge impact on costing / delivery of project.</p> <ol style="list-style-type: none"> <li>1. Request letter enclosed in this regard.</li> <li>2. CEA, India Guideline 2022 on Type test, it states that in case of GIS type test reports of parent company/ collaborator may be accepted provided same design and process by which parent company/ collaborator has manufactured the equipment, has been followed by the Indian manufacturer. (Refer page 5, highlighted in yellow)</li> <li>3. PGCIL tender specifications, GIS type test reports of parent company/ collaborator is acceptable provided same design is followed by the Indian manufacturer (Highlighted in yellow)</li> </ol> <p><i>Request Letter:</i></p> <p><i>1. As per Established Industry Practice, GIS equipment being supplied should be type tested as per the latest IEC standards. Further, type tests are</i></p>	<p>In view of above, we request you to kindly accept GIS type test reports of parent company/ collaborator provided same design and process by which parent company/ collaborator has manufactured the equipment.</p> <p>We also request you to kindly amend the validity period of type test requirement for Instrument Transformers i.e., until 10 years as per above CEA guidelines (Refer Page 9)</p>	<p>MCA-Nepal/Employer will not amend the Bidding Document on this aspect.</p>

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	<p><i>performed by manufacturers to validate the product design and are not envisaged for repetition unless there is a major change in design or in IEC standard. In our case the GIS equipment being offered has not undergone any change in design from the time it was type tested nor there has been any change in the applicable IEC standards since then.</i></p> <p><i>2. Also, Type tests are Performed only in International Accredited Labs outside India as there are no test facilities in India for performing GIS type tests. As a result, the lead time &amp; duration for conducting full set of type tests on any rating of GIS is at least 18-20 months with high capital expenditure.</i></p> <p><i>3. Also as per the relevant Extracts of IEC 62271 (International Standard for GIS above 52 KV) detailed below, it clearly specifies that unless there is any design and construction related change, Manufacturer is not required to repeat/conduct fresh Type Test.</i></p> <p><i>(6.1.2 Information for identification of Specimens – the manufacturer shall submit to the testing laboratory, drawings and other data containing sufficient information to unambiguously identify by type the essential details and parts of the switchgear and control gear presented for test. A summary list of the drawings and data schedules shall be supplied by the manufacturer and shall be uniquely referenced and shall contain a statement to the effect that the manufacturer guarantees that the drawings or data schedules listed are the</i></p>		

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	<p><i>correct version and truly represent the switchgear and control gear to be tested. After completion of verification, the summary list shall be retained by the test laboratory. The detail drawings and other data should be returned to the manufacturer. The manufacturer shall maintain detailed design records of all component parts of the switchgear and control gear tested and shall ensure that these may be identified from information included in the drawings and data schedules. The testing laboratory shall check that drawings and data schedules adequately represent the essential details and parts of the switchgear and control gear to be tested but shall not be responsible for the accuracy of the detailed information. Particular drawings or data required to be submitted by the manufacturer to the test laboratory for identification of essential parts of switchgear and control gear are specified in Annex A.)</i></p> <p><i>4. Also, as per the latest CEA, India Guideline 2022 on Type test (Copy Enclosed) it states that in case of GIS type test reports of parent company/ collaborator may be accepted provided same design and process by which parent company/ collaborator has manufactured the equipment, has been followed by the Indian manufacturer.</i></p> <p><i>5. Further as per PGCIL tender specifications, GIS type test reports of parent company/ collaborator is acceptable provided same design is followed by the Indian manufacturer.</i></p>		