

Nepal Electricity Authority
Project Management Directorate
Khimti-Barhabise-Lapsipedi 400 kV Substation Project

OCB No.: PMD/PTDSSP/KBL-75/76-01" Design, Supply, Installation and Commissioning of 400 kV Gas Insulated Substations (GIS) at New Khimti, Barhabise and Lapsipedi"

Clarification No.4				
S.N.	Tender Specification	Clause No.	Queries by Bidder	NEA Response
1	Amendment No 3	Extension of Existing 220kV GIS	<p>NEA has issued amendment 3 to include Extension scope of existing 220kV GIS bays for all 3 sites (New Khimti, Barhabise and Lapsephedi) in 400kV GIS substation tender.</p> <p>Bidder is requesting NEA to furnish following information:</p> <ol style="list-style-type: none"> 1) Makes and Model Number of Existing 220kV GIS. 2) NEA proposal layout showing the location and arrangement of 2 additional bays in existing 220kV GIS substation. 3) Gas SLD, GIS arrangement Layout (Incl Building details), Protection scheme SLD, existing GIS earthing layout arrangement 4) Other specific details for Bus bar arrangement <ol style="list-style-type: none"> (a) Busbar type (Active /passive) (b) Busbar arrangement (Segregated / Non Segregated) (c) Phase Sequence arrangement. 5) Layout & SLD for Control Room Building / Availability of sufficient space for extension. 6) Existing substation Substation Automation System Make and Architecture <p>Bidder as an experienced OEM underlines that the above informations are essential and crtical to evaluate and estimate the scope of works & costs of the amended works.</p>	<ol style="list-style-type: none"> 1) Regarding make of existing GIS please refer Clarification no.3, S.N. 16 2) GIS extension for 2 additional 220kV bays shall be inside the existing 220kV GIS Building.Arrangement of bays shall be finalized during detail engineering 3) Existing 220kV GIS SLD,Layout,Protection,Earthing layout shall be provided during detail engineering. 4) Existing 220 kV GIS Busbar details Shall be provided during detailed enginnering. 5) Layout of Control building shall be provided during detailed engineering 6) Existing substation system details shall be provided during detailed engineering.
2	Amendment No 3	Extension of Existing 220kV GIS	<p>Bidder understands that the existing 220kV GIS & Control room is having adequate space for 220kV Bay extension and CRP panels installation in existing buidlings. Therefore no civil works related to bay extension are part of the scope of work as per Amendment 3. Please confirm our understanding is correct.</p> <p>If bidders understanding is not correct then Bidder requests to furnish following details:</p> <ol style="list-style-type: none"> 1) existing 220kV substation site soil inetigation details, 2) existing buidling civil layout and design details 3) NEA proposal layout showing the location and arrangement of 2 additional bays in existing 220kV GIS substation. 	<p>Existing 220kV GIS building & control room have enough space for new 220kV Transformer bays and Control & Relay Panels.</p>



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3	Amendment No 3	Extension of Existing 220kV GIS	<p>NEA has issued an amendment (no. 3) in present package for extend of the existing 220kV GIS bays with 1-2 nos. new additional bays at each site.</p> <p>Bidder as an experienced OEM urges NEA to provide "Adaptor Module" at the end of the 220kV GIS bus which is presently under execution in other package. It will enable NEA to extend the bays very easily without major shutdown/ interface hassles in future. NEA can provide the "Adaptor Module" details to bidders also for making coupling module. This will provide equal and fair opportunity to all bidders and will significantly benefit NEA in improving their project cost position, execution reliability and warranty issues for extensions.</p> <p>Bidders solicit NEA views and request NEA to confirm that "Adaptor Modules" for bay extension will be considered in scope of NEA and excluded from Bidders Scope of this Tender.</p> <p>If NEA can not exclude it from the Bidders scope, Bidder urges NEA to provide the details of "Adaptor Module" from existing GIS manufacturer to ensure equal and fair opportunity for all bidders to evaluate and estimate the realistic scope and costs of the works for this amended scope of work.</p>	Bidder is to quote as per provision of bid document.
4	Amendment No 3 : PSR	<p>Interface module with the test link for Future extension of Bus bar module.</p> <p>Bidder shall design the interface arrangement to suit existing bus bars enclosures running across the length of the switch gear to inter connect each of the circuit breaker bay modules in double main bus system. The interconnection space between upcoming GIS and existing GIS shall be as minimum, approximately one meter or less.</p>	<p>Bidder as an experienced OEM underlines that this requirement is only possible to fulfill if existing make of GIS is proposed for extension. Bidder also understand that the existing GIS is not either not yet supplied and or installed and or commissioned in the existing contracts under execution with NEA. In absence of supply of GIS this scope of works can be evaluated and estimated by bidders in this tender.</p> <p>Therefore Bidder suggests to NEA to exclude this scope of work from the 400kV GIS tender scope. NEA can execute it under their existing 220kV GIS contract scope. Bidder advocate the importance of this to avoid undue monopolistic scenario which will increase the cost of the overall project to NEA and more burden on exchequer funding for the project due to unequitable current status of existing 220kV GIS substation contracts.</p> <p>Bidder request NEA to confirm the exclusion of this scope from the amendment 3 of this tender.</p>	Bidder is to quote as per provision of bid document.
5	Amendment No 3		<p>During Site visit (New Khimti / Barhabise / Lapshipedi) bidder understand that 220kV GIS and Control Relay Panels & Substation Automation system are not yet finalized or supplied by the contractor for any of the sites. And civil works are also started few weeks back.</p> <p>In this circumstances, It is almost impossible for the bidder to collect competitive offer from the manufacturer. Existing GIS and CRP -SAS manufacturer will always take advantage of the situation in this monopolistic scenario which will definitely compel NEA to spend more public money in the project.</p> <p>Considering the above condition bidder is requesting to NEA to accept either of the proposals:</p> <ol style="list-style-type: none"> 1) This extension of 220kV GIS & CRP can be taken by NEA in the respective 220kV contacts by amending the quantity only. 2) In case the above change is unavoidable, then the Bidder is requesting NEA to keep this Amendment 3 outside of Evaluation Criteria. 	Bidder is to quote as per provision of bid document.



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6	Amendment No 3	Qualification of 220kV GIS and Control Relay Panel & Substation Automation system.	Refer to Amendment no. 3, no qualification for the manufacturer of 220kV GIS and Control Relay panel extension are mentioned in the amendment. Hence bidder understand that either existing make of GIS and Automation will be qualified or makes which will qualify as per present qualification criteria (Section 2.5 of ECQ III). Please confirm.	shall be as per the Provision of Bid documents
7	Amendment No 3	Type test for extension of 220kV GIS Modules/ couplers	Bidder understand that there is no requirement of producing/ performing Type test for extension of 220kV GIS Modules/ couplers. Because extension Module will be designed specifically for this scope. Please confirm.	shall be as per the Provision of Bid documents
8	Amendment No 3	Details for existing 220kV CRP & SAS	Bidder request to provide following existing details of 220kV CRP and SAS system for extension of the same; <ul style="list-style-type: none"> - Makes and Model for existing Substation Automation System - Make and Model for existing Busbar system - Protection Metering SLD and Busbar type and Model (Centralized / Decentralized). - Communication protocol and Relay catalogue. - General Arrangement of CRP panels (Simplex / Duplex) - Confirmation of adequate space availability in control room for New CRP Panels. - Control Room Building Layout 	Shall be provided during detail engineering.
9	Amendment No 3	Other Arrangement	Bidder understand that except 220kV GIS and CRP - SAS extension all other systems like AC - DC system, Cable trench, Illumination, AC Ventilation etc. will be capable enough handle these additional bays. Please confirm.	Bidders understanding is generally in order.
10	Amendment No 3	Earthing works	Bidder understand that there is no Earth work is required in the Main Earthing Grid for the extension. Only additional GIS bays will be connected with Earthing Riser. Please confirm	Earthing system for new 220 kV bays shall be under present scope of tender.
11	Amendment No 3 : PSR	d) Gas monitoring devices, barriers, pressure switches, UHF based Partial Discharge measurement Sensors etc. as required	Bidder understand that existing 220kV GIS is definitely having Partial discharge monitoring system which to be extended by additional bays. Bidder request NEA to provide following information except which this scope cannot be address by any bidders; <ol style="list-style-type: none"> 1) Make / Model number of PD monitoring system 2) Type of PD monitoring system (Online/ Offline) 3) No. of UHF Sensors per bay. 	Shall be provided during detail engineering.



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12		Bidder's Eligibility	<p>As per the tender clause no: ITB-4 (eligible bidders) bidder understand that a single qualified party can bid for the project on sole basis or multiple parties can form a Joint venture company and bid for the project.</p> <p>Bidder understand that in case such JV company is successful in securing the contract then JV is incorporated and business registration (as per ITB.11.2) of new Joint Venture company in NEPAL is to be done prior to the contract signing with NEA.</p> <p>Bidder also understand that all the invoicing towards NEA can be raised only by the Joint Venture Company as per Section 9, contract forms – Appendix 1. And that above Joint Venture company should have separate Bank Account to receive the payment.</p> <p>Please confirm that our understanding is correct.</p>	shall be as per the Provision of Bid documents
13		Warranty	<p>NEA has issued an amendment (no. 3) in present package for extend of the existing 220kV GIS bays with 2 nos.new additional bays at New Khimti / Barhabise site and 1 no new additional bay at Lapsephedi site .</p> <p>Bidder understand that for the extension work either bidder can propose same or different GIS and CRP manufacturer.</p> <p>Bidder also understand that NEA will provide all necessary permission and arrangement to integrate with existing GIS and CRP system and ensure that present manufacturer will keep the warranty provisions as per the contractual conditions.</p> <p>Please confirm.</p>	Bidders understanding is generally in order.
14		Clarification No.3, Query no.25,Page no. 5 of 6	<p>As per referred clause, it is mentioned that " Must have successfully carried out the complete type test as per IEC over last 10 years period as on the originally scheduled date of bid opening in Short-Circuit Testing Liaison (STL) – Accredited Laboratory on 400 kV voltage class GIS Switchgears (Circuit Breaker, Disconnecter, Grounding Switches, Instrument Transformers, SF6/Air & Oil Bushing etc.);.</p> <p>However if the manufacturer has not conducted complete type tests in Short-Circuit Testing Liaison (STL)–Accredited Laboratory over last Ten (10) years as on the originally scheduled date of bid opening, bidder has to submit undertaking letter along with bid to carry out the complete type test in Short-Circuit Testing Liaison (STL) – Accredited Laboratory from offered Manufacturer without any extra cost "</p> <p>However, we request you to accept the type test reports witnessed by Short-Circuit Testing Liaison (STL) – Accredited Laboratory instead of conducted in Short-Circuit Testing Liaison (STL) – Accredited Laboratory.</p> <p>No suppliers are having type test report from STL Labs and suppliers confirmed that the STL Labs are not having facility to conduct all the type test report as per the IEC clause. STL Labs are having facility to conduct only Dynamic Short circuit test. Kindly review from your end and confirm the acceptance, the type test reports witnessed by Short-Circuit Testing Liaison (STL) or by NEA during execution of contract at NABL Accredited Laboratory.</p>	Provision of Bidding Documents remains unchanged



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15		Clarification no. 1, Set 4 Query no.: 37, page 7 of 8	<p>• We are going to bid as a Joint Venture/Consortium as per the agreement, we are the lead partner. We would request you to allow the lead partner to bill and collect the money and as per the agreement the partners are jointly and severally responsible for the project. Being lead partner and got registered with IRD, please clarify the Concessional customs duty benefit and VAT also available for Lead partner.</p> <p>Alternatively:</p> <p>• In case of award of tender to a joint venture or consortium- We request you to kindly confirm whether each consortium partner can raise invoices for their respective scope(i.e. from Nepal and Outside Nepal, as the case may be) and collect the payments in their respective accounts and joint Venture is not required to be registered in Nepal/Outside Nepal. We request you to confirm whether WHT Certificate shall be issued to each partner separately for their respective scope to avail benefit under DTAA of bidder country and Nepal.</p>	shall be as per the Provision of Bid Documents
16		400kV New Khimti GIS Substation 400kV Barhabise GIS Substation 400kV Lapsipedi GIS Substation Amendment, Chapter-1 - PSR, cl.no.1.4 & Revised BPS sl.no.B	we request M/s NEA to confirm, whether Bidders are free to choose 220kV GIS of any make/model for present scope of work and it is not mandatory to go with the existing make of GIS.	Bidders understanding is generally in order.
17		Chapter-1 - PSR(revised with amendment no. 3), 1.5.2. 400kV Barhabise GIS Substation Cl. No A1.7, Sr. No- 5 page 18	<p>As per referred clause, It is mentioned as "220 kV XLPE Cables along with accessories and Cable sealing shall also be used for temporary bypassing of existing 220 kV Incoming/outgoing lines from 220 kV DDE tower/takeoff gantry to 220 kV GIS duct outside 220kV GIS hall".</p> <p>Kindly clarify the no of incoming/outgoing lines to be bypassed in the proposed station.</p>	Two nos. of incoming/outgoing lines are to be bypassed in the proposed station.
18		400kV New Khimti GIS Substation 400kV Barhabise GIS Substation 400kV Lapsipedi GIS Substation General	<p>Bidder Query:We presume that sufficient no of AC /DC feeders for 2 Nos of 220kV ICT bays are already available in the existing LT switchgear. Our scope of work is limited to supply of LT power & control cable from existing AC/ DC board to proposed bays. we are not envisaging any augmentation of existing AC/DC panel, Battery & Battery Charger in our scope.Please confirm.</p> <p>NEA Response in clarification on 01 Aug 2019: Bidder is to quote as per the provision of bid document.</p> <p>Bedder query on response: information/Provisions not available in Bid document/BPS for the same. Kindly clarify whether existing AC/DC boards, Battery & Chargers are available for present scope of 220kV bays or not.</p>	Bidders understanding is generally in order.

