

# NEPAL ELECTRICITY AUTHORITY

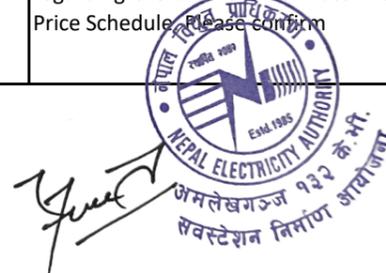
## AMLEKHGUNJ 132 KV SUSTATION CONSTRUCTION PROJECT

### Clarification - II

#### Design, Supply, Installation, Testing and Commissioning of Amlekhgunj, 132/66/11kV GIS Substation

Invitation for Bids No.:PMD/PTDEEP/ASCP/2079/80-01

Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply
1	Item No 1 iv) / Clause no 2.5 / Section 3 - Evaluation and Qualification Criteria / Volume 1	"Must submit the type test report carried out by reputed independent testing laboratory for the identical item in the same rating and construction."	Complete type tests are not possible to conduct at Third Party/ Independent laboratory because of their limitation on test facility. Hence, we propose to conduct complete type tests except Dynamic Short Circuit test at manufacturer's own test laboratory (NABL Accredited) in presence of independent laboratory representative. Pleaes accept the same.	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
2	Clause no 2.5 / Section 3 - Evaluation and Qualification Criteria / Volume 1	If the bidder submits the type test report of higher rated equipment, the bidder must provide the commitment that the type test will be performed for the offered rating without any extra cost to Employer.	Repeation of Type Test during execution on GIS and Transformer, is not economical and feasible  Please confirm	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
3	Clause no 2.5 / Section 3 - Evaluation and Qualification Criteria / Volume 1	If the bidder submits the type test report of higher rated equipment, the bidder must provide the commitment that the type test will be performed for the offered rating without any extra cost to Employer.	We understand the reference clause is not applicable to Dynamic Short Circuit Test of Transformer, as DSC on "132 kV voltage class, three phase 100 MVA transformer or higher voltage level or higher rating transformer" is acceptable.  Please confirm	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
4	Schedule - 3: Design Services	Not Applicable	We request to allow bidder to quote for Design services	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
5	Clause no 2.5 / Section 3 - Evaluation and Qualification Criteria / Volume 1	Must have successfully completed the supply of ..... over last five (5) years period ending on the last date of bid submission. Out of supplied quantity, a minimum of half the bid quantity shall have been in operation satisfactorily to the end users for at least Two (2) Year as on the date of bid opening.	We undersatand that the performance of required years in case of subcontractors does not have to be within last 5 years and can be "out of supplied quantity till date of bid submission".  Please confirm that our understanding is correct.	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
6	Bid Price Schedule No. 1 & 4, Part-1, Clause no.P-2 & 3	Smoke detection system & Fire detection and Alarm System	Please elaborate which items to be quoted under Smoke detection System & Fire Detection & Alarm System. As per our understanding, Smoke Detection System is the part of Fire Detection & Alarm System. So, separate line item in Price Schedule is not required.	Please quote as per BPS and shall be discussed during DDE as the detail design is in the scope of the successful contractor.
7	Bid Price Schedule No. 1 & 4, Part-1, Clause no.P-2 & 3	Smoke detection system & Fire detection and Alarm System	Please clarify the type of Fire Detection & Alarm System (Conventional or Addressable) to be considered. As per Technical Specification of Fire Protection System Clause no. 2.03.00, We understand that Conventional Type Fire Detection & Alarm System to be provided. Please confirm	Shall be as per bid documents and shall be discussed during DDE.
8	Bid Price Schedule No. 1 & 4, Part-1, Clause no.P-1	Fire Protection System (Portable Trolley Wheel mounted extinguishers)	We understand that,quantity of Fire Extinguisher shall be quoted strictly as per Price Schedule. Please confirm.	Please quote as per BPS and shall be discussed during DDE as the detail design is in the scope of the successful contractor.
9	Bid Price Schedule No. 1, Part-1 Clause no.D-2	Hydrant system, complete U/G piping and accessories etc. outside the Pump House.	As per Technical Specification Clause no. 2.01.00, We undertsand that, Hydrant System shall not be provided for outdoor switchyard area. Please confirm	Shall be as per Bid documents.
10	Section 6: Employer's Requirements, Chapter 14:- Civil Works, Clause no. Clause no. 14 & Bid Price Schedule No. 4a, Part-C Clause no.12.1	Dimensions of the Building shall be decided by the bidder depending upon the requirement. The approximate size of building is 12.3m X 7.9mX 4.3 m high. & Firefighting pump house building- 50 Sqmt	There is descricpency in the referred clause of Technical Specification & Price schedule regarding the area of Fire Water Pump House. We understand that we need to follow Price Schedule. Please confirm	Please quote as per BPS and shall be discussed during DDE as the detail design is in the scope of the successful contractor.


  
 नेपाल विद्युत प्राधिकरण  
 NEPAL ELECTRICITY AUTHORITY  
 ESTD. 1995  
 अमलेखगञ्ज १३२ क.भ.स.  
 सबस्टेशन निर्माण कार्यका लागि

# NEPAL ELECTRICITY AUTHORITY

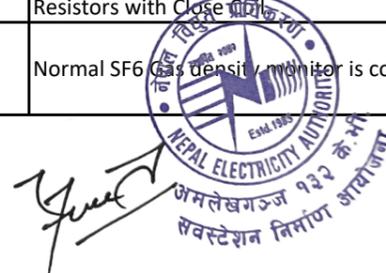
## AMLEKHGUNJ 132 KV SUSTATION CONSTRUCTION PROJECT

### Clarification - II

#### Design, Supply, Installation, Testing and Commissioning of Amlekhgunj, 132/66/11kV GIS Substation

Invitation for Bids No.:PMD/PTDEEP/ASCP/2079/80-01

Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply
11	Section 6: Employer's Requirements, Chapter 8:- Fire Protection & Bid Price Schedule No. 4a, Part-C Clause no.12.2	Water storage tank with two compartments of adequate capacity shall be provided. & Water Tank for Firefighting (100000 litres)	We understand that, Fire Water Tank capacity shall be as provided as Price Schedule. Please confirm	Please quote as per BPS and shall be discussed during DDE as the detail design is in the scope of the successful contractor.
12	Tender Drawing	Staff Quarter	As per Price Schedule, We understand That, there is no scope of Fire Protection System & Air Conditioning & Ventilation System for Staff Quarter. Please Confirm	Please quote as per BPS and shall be discussed during DDE as the detail design is in the scope of the successful contractor.
13	Bid Price Schedule No. 1, Part-1 Clause no.R1	Air conditioning System	We understand that, Air conditioning system shall be quoted strictly as per Price Schedule. Please confirm.	Please quote as per BPS and shall be discussed during DDE as the detail design is in the scope of the successful contractor.
14	Section 6: Employer's Requirements, Chapter 10:- Air Conditioning System, Clause no. 2.2.2	Controllers shall be provided in Control room and Battery room, one controller for each room, to control and monitoring of AC units and shall have the following facilities; - Standby units shall come in to operation automatically when the running main unit fails - Main and standby units shall be changed over periodically which shall be finalised during detailed engineering.	Please clarify that, Microprocessor based Controller shall be provided for Control Room & Battery Room, for Sequential Switching of Main & Stand-By units or only Cordless Remote controller shall be provided with each AC unit.	Shall be as per bid documents and shall be discussed during DDE.
15	General	Air Conditioning System	We understand that, Heating system is not envisaged for this Substation Please confirm.	Shall be as per bid documents and shall be discussed during DDE.
16	APPENDIX 1, Page 81 of 890	Possible modification of existing hospital room to build negative pressure chamber	Please clarify the scope of ventilation System referred in drawing attached as Appendix-1	Shall be discussed during DDE.
17	ITB 19.1 (a)/BDS & Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad	As per BDS, clause no 19.1 (a), "The prices shall be quoted either in the currency of the Bidder's home country, or in any fully convertible currency/(ies)."	As per BDS, The prices shall be quoted either in the currency of the Bidder's home country, or in any fully convertible currency/(ies). However, only USD provision is provided in Schedule 1.  We understand that for Schedule-1, currency of the Bidder's home country, or in any fully convertible currency/(ies) are acceptable.  Please confirm that our understanding is correct.	Please quote as per Bid Price Schedule.
18	ITB 19.1 (c)/BDS & Schedule No. 4: Installation and Other Services	As per BDS, clause no 19.1 (c), "If some of the contract expenditures related to Design, Installation and Other Services are to be incurred in the Employer's country, such expenditures shall be quoted in either foreign and/or local currency, depending upon the currency in which the costs are to be incurred."	As per BDS, Design, Installation & other services may be quoted in either foreign and/or local currency. However there is no provision for foregin currency in Schedule 4.  We understand that for Schedule-4, foreign and/or local currency/(ies) are acceptable.  Please confirm that our understanding is correct.	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
19	SI No 2.2.3/Part-C/Schedule NO 1	Trip coil assembly with resistor as applicable	Trip coil used in our design have their own resistance hence no need to consider extra Resistors with Trip Coil.	shall be decided during DDE.
20	SI No 2.2.4/Part-C/Schedule NO 1	Closing coil assembly with resistor as applicable	Close coil used in our design have their own resistance hence no need to consider extra Resistors with Close Coil.	shall be decided during DDE.
21	SI No 2.2.1/Part-C/Schedule NO 1	SF6 Pressure gauge cum switch OR Density monitors and pressure switch as applicable (1 no. of each type)	Normal SF6 Gas density monitor is considered. Please accept.	Shall be as per bid documents.


  
 जे.पी. शर्मा
   
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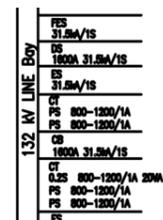
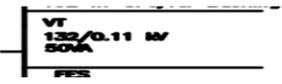
# NEPAL ELECTRICITY AUTHORITY

## AMLEKHGUNJ 132 KV SUSTATION CONSTRUCTION PROJECT

### Clarification - II

#### Design, Supply, Installation, Testing and Commissioning of Amlekhgunj, 132/66/11kV GIS Substation

Invitation for Bids No.:PMD/PTDEEP/ASCP/2079/80-01

Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply																																																						
22	SI No 14/Clause no 19/Section-GAS INSULATED SWITCHGEAR/Volume 2	Reactor current switching test	There is no requirement of any reactor bay in this project hence Reactor current switching test is not applicable or not required.	shall be decided during DDE.																																																						
23	SLD & TABLE-3A/Section-GAS INSULATED SWITCHGEAR/Volume 2	<p>As per Table - 3A</p> <table border="1" style="font-size: 8px; width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No. of cores</th> <th>Core no.</th> <th>Applic- ation</th> <th>Current ratio</th> <th>Output Burden (VA)</th> <th>Accuracy Class as Per IEC: 44-1</th> <th>Min. Knee pt. Voltage Vk</th> <th>Max. CT Sec. Wdg. Resist- ance (ohm)</th> <th>Max. Exci- tation cu- rent at Vk (in mA)</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>1</td> <td>BUS DIFF CHE- CK</td> <td>800- 400/1</td> <td>-</td> <td>-</td> <td>800/400</td> <td>8/ 4</td> <td>25 on 800/1 50 on 400/1</td> </tr> <tr> <td></td> <td>2</td> <td>BUS DIFF MAIN</td> <td>800- 400/1</td> <td>-</td> <td>-</td> <td>800/400</td> <td>8/ 4</td> <td>25 on 800/1 50 on 400/1</td> </tr> <tr> <td></td> <td>3</td> <td>METE RING</td> <td>800- 400/1</td> <td>20</td> <td>0.2S</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>4</td> <td>TRAN BACK UP LINE PRTNL</td> <td>800- 400/1</td> <td>-</td> <td>-</td> <td>800/400</td> <td>8/ 4</td> <td>25 on 800/1 50 on 400/1</td> </tr> <tr> <td></td> <td>5</td> <td>DIFF LINE PRTNL</td> <td>800- 400/1</td> <td>-</td> <td>-</td> <td>800/400</td> <td>8/ 4</td> <td>25 on 800/1 50 on 400/1</td> </tr> </tbody> </table> <p>As per SLD</p> 	No. of cores	Core no.	Applic- ation	Current ratio	Output Burden (VA)	Accuracy Class as Per IEC: 44-1	Min. Knee pt. Voltage Vk	Max. CT Sec. Wdg. Resist- ance (ohm)	Max. Exci- tation cu- rent at Vk (in mA)	5	1	BUS DIFF CHE- CK	800- 400/1	-	-	800/400	8/ 4	25 on 800/1 50 on 400/1		2	BUS DIFF MAIN	800- 400/1	-	-	800/400	8/ 4	25 on 800/1 50 on 400/1		3	METE RING	800- 400/1	20	0.2S	-	-	-		4	TRAN BACK UP LINE PRTNL	800- 400/1	-	-	800/400	8/ 4	25 on 800/1 50 on 400/1		5	DIFF LINE PRTNL	800- 400/1	-	-	800/400	8/ 4	25 on 800/1 50 on 400/1	<p>Specifications of CT given in <b>SLD</b> and <b>Ch 19_GIS</b> documents are different. Request you to check and confirm clear CT specifications to be consider.</p>	<p>Please consider from the chapter as the SLD is for tender purpose only. Further, the detail design is in the scope of successful bidder and shall be decided during DDE.</p>
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9	Output burden (VA) (minimum)	50	50																																																							
25	SI no 28/1g: GENERAL/Technical Datasheet-132kV GIS	Enclosure Protection required is IP55W	Requirement for subject project is for Indoor application. IP 55 is used for outdoor installation requirement. By considering Indoor application we recommend to use IP 43 protection class. Please confirm.	shall be decided during DDE.																																																						



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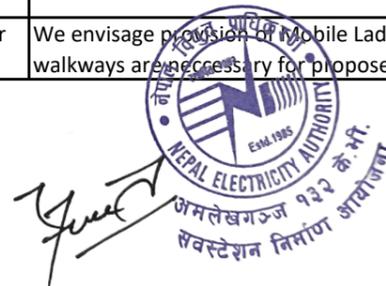
## AMLEKHGUNJ 132 KV SUSTATION CONSTRUCTION PROJECT

### Clarification - II

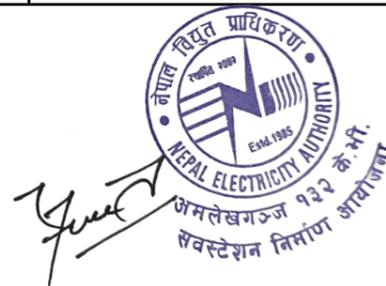
#### Design, Supply, Installation, Testing and Commissioning of Amlekhgunj, 132/66/11kV GIS Substation

Invitation for Bids No.:PMD/PTDEEP/ASCP/2079/80-01

Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply																								
26	ITEM No.1 : 132kV GIS ( 132kV CIRCUIT BREAKER ) - 19 Operating Mechanism & SI No 16/Circuit Breaker Technical Particulars /Section-GAS INSULATED SWITCHGEAR/Volume 2	As per Technical Data Sheet <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">Operating mechanism</th> </tr> <tr> <td style="width: 5%;">19.1</td> <td style="width: 75%;">Type</td> <td style="width: 10%;"></td> <td style="width: 10%;">Spring operated</td> </tr> <tr> <td>19.2</td> <td>Number of mechanism per breaker</td> <td></td> <td>1</td> </tr> <tr> <td>19.3</td> <td>Single/three phase auto-reclosure</td> <td></td> <td>3</td> </tr> </table> As per Technical Particulars <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">15. Rated operating duty cycle</th> </tr> <tr> <td style="width: 5%;">16.</td> <td style="width: 25%;">Reclosing</td> <td style="width: 35%;">Single phase &amp; Three phase auto reclosing.</td> <td style="width: 35%;">Single phase &amp; Three phase auto reclosing.</td> </tr> </table>	Operating mechanism				19.1	Type		Spring operated	19.2	Number of mechanism per breaker		1	19.3	Single/three phase auto-reclosure		3	15. Rated operating duty cycle				16.	Reclosing	Single phase & Three phase auto reclosing.	Single phase & Three phase auto reclosing.	In technical datasheet, three phase autorecloser is given. Whereas in Annexure 1, single & three phase autoreclosing is given. There is no specific clause of this point in PSR which clarify exact requirement. So request to clarify which one should we follow for subject tender.	shall be decided during DDE.
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27	SLD & Layout Plan		From given SLD it seems all terminations are through SF6 to Air Bushing whereas in Layout some terminations are through cable and some terminations are through SF6 to Air Bushings. Request you to confirm bay wise termination details to be consider.	shall be decided during DDE.																								
28	Section-GAS INSULATED SWITCHGEAR/Volume 2	Standard for CT & VT : IEC 60044-1 Current transformers IEC 60044-2 Voltage transformers	Latest reference standard for Instrument Transformers are IEC 61869-2 Current transformers IEC 61869-3 Voltage transformers Please accept.	shall be decided during DDE.																								
29	Clause No 3.9/Section-GAS INSULATED SWITCHGEAR/Volume 2	These compartments shall be such that maintenance on one feeder may be performed without de-energising the adjacent feeders.	By keeping in view the criticality of the substation, For 72.5kV & 145 kV GIS, during busbar disconnecter maintenance, only adjacent two feeders shall be out of service. Request customer to kindly confirm the same.	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.																								
30	Clause No 3.11/Section-GAS INSULATED SWITCHGEAR/Volume 2	Due to safety requirement for working on this pressurized equipment, whenever the pressure of the adjacent gas compartment is reduced during maintenance, this compartment shall be designed so that it shall remain in service to perform its intended duty.	Due to safety requirements,if the gas pressure of a compartment is reduced,the same part can not be kept in service as the gas density in the stated compartment shall not be sufficient to withstand the electrical stress.	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.																								
31	Clause No 3.12/Section-GAS INSULATED SWITCHGEAR/Volume 2	The material and thickness of the enclosures shall be such as to withstand an internal flash over without burn through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF6 breakdown under arcing condition.	The burn through shall be as per IEC 62271-203. Table enclosed for reference <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2" style="width: 30%;">≥40 kA r.m.s.</th> <th style="width: 10%;">1</th> <th style="width: 10%;">0,1 s</th> <th style="width: 50%;">No external effect other than the operation of suitable pressure relief devices</th> </tr> <tr> <td>2</td> <td>≤0,3 s</td> <td>No fragmentation (burn-through is acceptable)</td> </tr> </table>	≥40 kA r.m.s.	1	0,1 s	No external effect other than the operation of suitable pressure relief devices	2	≤0,3 s	No fragmentation (burn-through is acceptable)	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.																	
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32	Clause No 3.20/Section-GAS INSULATED SWITCHGEAR/Volume 2	The switchgear shall be of the free standing, self-supporting with easy accessibility to all the parts during installation & maintenance with all high-voltage equipment installed inside gas-insulated metallic and earthed enclosures, suitably sub-divided into individual arc and gas-proof compartments preferably for:	The compartments of GIS shall be as per manufacturer's design. By following our design, we can still maintain service continuity requirements the specifications ask for. Moreover, this design is accepted and supplied to many utilities worldwide	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.																								
33	Clause No 3.26/Section-GAS INSULATED SWITCHGEAR/Volume 2	Manufacturer shall submit the study report of VFTO generated for GIS installation.	As per IEC 62271-203, VFTO studies are not applicable for 220 kV and 145 kV voltage levels. Therefore this studies are not required. Please confirm.	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.																								
34	Clause No 3.32/Section-GAS INSULATED SWITCHGEAR/Volume 2	The ladders and walkways shall be provided wherever necessary for access to the equipment.	We envisage provision of Mobile Ladders for access to operating mechanisms and no walkways are necessary for proposed Layout. Please accept.	shall be decided during DDE.																								


  
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Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply
35	Clause No 3.37/Section-GAS INSULATED SWITCHGEAR/Volume 2	However, for design purposes, ambient temperature should be considered as 50 degree-C	The design ambient temperature shall be 40 deg C. Temperature rise shall be as per IEC 62271-1	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.
36	Clause No 3.38/Section-GAS INSULATED SWITCHGEAR/Volume 2	Temperature rise of all current carrying parts and enclosures shall be limited to the values stipulated in IEC 62271-1, under rated current and the climatic conditions as specified. The temperature rise for accessible enclosure shall not exceed 20 degree C above the ambient temperature of 50 degree C.	As per IEC -62271-1, The temperature rise for accessible enclosure shall not exceed 20 degree C above the ambient temperature of 50 degree C. In the case of enclosures, which are accessible but need not be touched during normal operation, the temperature rise limit may be permitted up to 30 degree C above the ambient of 50 degree C. The offered GIS is type tested to meet this IEC standard. Please Confirm.	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.
37	Clause No 3.44/Section-GAS INSULATED SWITCHGEAR/Volume 2	Contractor shall provide adequate number of UHF sensors in the offered GIS for detection of Partial discharge (of 5 pC and above) as per IEC 60270 through Partial Discharge (PD) monitoring system and the number and location of these sensors shall be subject to approval of the employer/consultant. Further UHF sensors shall necessarily be provided in close proximity to VT compartments However adequacy of number of sensors and their location shall be verified at site by the contractor as per recommendations of CIGRE task force TF 15/33.03.05 (Task force on Partial discharge detection system for GIS: Sensitivity verification for the UHF method and the acoustic method). In case during site testing additional UHF sensors are required, the same shall also be supplied& installed to complete the technical requirement.	Number of UHF sensors & the location of UHF sensors shall be as per manufactureres' recommendations. Please note that the locations of sensors shall be decided during detailed engineering itself to achieve the desired sensitivety & the same will be reflected on the drawings which will be submitted for approval. No change on the same recommended at site. please accept.	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.
38	Clause No 4.9.2/Section-GAS INSULATED SWITCHGEAR/Volume 2	<b>Routine Tests</b> Functional tests are to be carried out on circuit breaker along with Control Switching device (CSD). DCRM (Dynamic Contact Resistance Measurement) to be carried out for all CBs during routine test.	Applicability of CSD depends on point number 10 of this clarification sheet. Request you to confirm whether CSD is required for subject tender. The DCRM test is not performed on the CB as part of FAT test. However, we shall submit the routine test reports of DCRM test.	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
39	Clause No 5.2.12/Section-GAS INSULATED SWITCHGEAR/Volume 2	The disconnectors and safety grounding switches shall have a mechanical and electrical inter-locks to prevent closing of the grounding switches when isolator switches are in the closed position and to prevent closing of the disconnectors when the grounding switch is in the closed position. Integrally mounted lock when provided shall be equipped with a unique key for such three phase group. Master key is not permitted.	When there is a three position switch (a module having both the switches in it-disconnect switch and earth switch) a mechanical interlock shall be provided,but when the mentioned switches are different modules,practically it can not be made possible to introduce the stated mechanical interlock.The product types that we are considering for the project under discussion have been supplied to and installed at numerous substations in India and abroad.	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.



**NEPAL ELECTRICITY AUTHORITY**

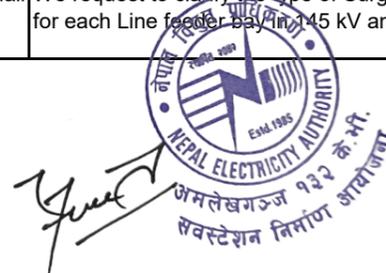
**AMLEKHGUNJ 132 KV SUSTATION CONSTRUCTION PROJECT**

**Clarification - II**

**Design, Supply, Installation, Testing and Commissioning of Amlekhgunj, 132/66/11kV GIS Substation**

Invitation for Bids No.:PMD/PTDEEP/ASCP/2079/80-01

Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply
40	Clause No 6.2/Section-GAS INSULATED SWITCHGEAR/Volume 2	Each safety grounding switch shall be electrically interlocked with its associated disconnectors and circuit breaker such that it can only be closed if both the circuit breaker and disconnectors are in open position. Safety grounding switch shall also be mechanically key interlocked with its associated disconnectors.	In case of 145kV GIS, we have two types of DS module. 1. Two position DS- In this design we can not provide mechanical interlock. So there will be only electrical inter-locks between DS & separate ES. 2. Three position DS (DS+ES)- In this design we can provide mechanical interlock.	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.
41	Clause No 6.13/Section-GAS INSULATED SWITCHGEAR/Volume 2	Continuous current rating of the grounding switches (not less than 100A) shall be specified by the manufacturer, which can be safely injected for Bay/ Bus equipment testing.	The same shall be in line with IEC 62271-102.	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.
42	Clause No 13.2.1/Section-GAS INSULATED SWITCHGEAR/Volume 2	It shall comprise structural frames completely enclosed with specially selected smooth finished, cold rolled sheet steel of thickness not less than 3 mm for weight bearing members of the panels such as base frame, front sheet and door frames, and 2.0mm for sides, door, top and bottom portions.	As per the standard pratice, for the weight bearing members a sheet thickness of 2.5 mm is more than sufficient and as a GIS manufacturer we recommended the same and for non weight bearing members the same is 2 mm thick. We request customer to kindly confirm the same.	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further disussed during DDE.
43	Clause No 21/Section-GAS INSULATED SWITCHGEAR/Volume 2	All transport packages containing critical units viz Circuit breakers and Voltage transformers shall be provided with sufficient number of electronic impact recorders (on returnable basis) during transportation to measure the magnitude and duration of the impact in all three directions. The acceptance criteria and limits of impact in all three directions which can be withstood by the equipment during transportation and handling shall be submitted by the contractor during detailed engineering. The recording shall commence in the factory and must continue till the units reach site. The data of electronic impact recorders shall be downloaded at site and a soft copy of it shall be handed over to Engineer – in –charge. Further, contractor shall communicate the interpretation of the data within three weeks.	Shock indicators shall be provided only for VTs being a sensitive equipments. No electronic imparct recorders are necessary for Circuit Breaker. Please acctpet the same.	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
44	Clause 4.1/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	SF6 to Air Bushing terminations/ Cable Sealing End requirement	In line to the requirement mentioned in Schedule 1 Layout received, we understand the following - in 145 kV - 4 Nos. of GIS Exit Bays are with SF6 to Air Bushing terminations and remaining 2 Nos. of GIS Bays are with SF6 to Cable terminations in 72.5 kV - All 10 Nos. of GIS Exit Bays are with SF6 to Cable termination exits.  Please confirm our understanding	Confirm
45	Clause 4.1H/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	Surge Arrestors and Bus post insulators as required shall be part of the GIS	We request to clarify the type of Surge Arrestor to be considered .i.e. GIS type of AIS type for each Line feeder bay in 145 kV and 72,5 kV system	AIS type


  
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# NEPAL ELECTRICITY AUTHORITY

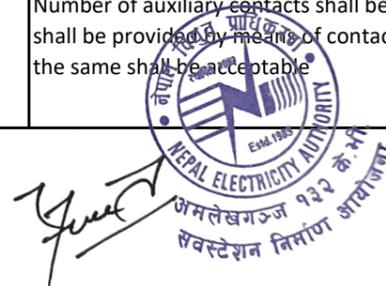
## AMLEKHGUNJ 132 KV SUSTATION CONSTRUCTION PROJECT

### Clarification - II

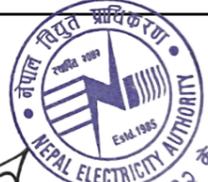
#### Design, Supply, Installation, Testing and Commissioning of Amlekhgunj, 132/66/11kV GIS Substation

Invitation for Bids No.:PMD/PTDEEP/ASCP/2079/80-01

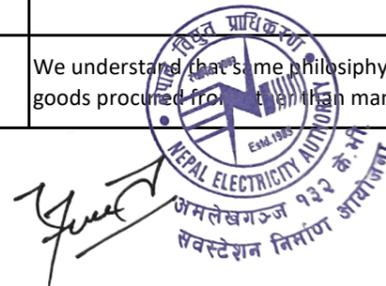
Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply
46	Clause 4.1.B.b/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	Three (3) nos. of 1-phase/one (1) number of 3 phase as applicable, 5-core, multi ratio, current transformers duly distributed on both side of Circuit Breaker.	We understand that all the 5 CT cores on the exit side of GIS Circuit breaker are also acceptable as the is common and widely accepted practice by all the utilities.	Shall be as per bid documents.
47	Clause 4.1.G.a/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	A tentative layout / GA drawing of the switchyard is enclosed with this specification for 132/66/11kV Substation. The GIB duct length shall be optimized further without affecting the switchyard arrangement and bay orientation and also any of the functional requirements specified.	We understand that the Bus duct mentioned in the BOQ is tentative and the bidder can optimize the same. Please re-confirm our understanding.	Confirm
48	Clause 3.9/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	These compartments shall be such that maintenance on one feeder may be performed without de-energising the adjacent feeders	We confirm to meet the service continuity requirement during maintenance. However, in case of replacement/repair which requires removal of bus bar disconnecter earthing switch module, we request for momentary shutdown of the adjacent bays considering the IEC Guidelines and safety requirement. Hope the same is acceptable	Shall be as per bid documents.
49	Clause 3.11/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	Due to safety requirement for working on this pressurized equipment, whenever the pressure of the adjacent gas compartment is reduced during maintenance, this compartment shall be designed so that it shall remain in service to perform its intended duty.	Considering the IEC Guidelines and safety requirement, while working on the GIS equipment, whenever the pressure of a particular gas compartment is reduced during maintenance, the adjacent compartment cannot remain in service. We recommend to amend the subject clause	Shall be as per bid documents.
50	Clause 3.11/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	The bus enclosure should be sectionalized in a manner that maintenance work on any bus disconnecter (when bus and bus disconnecter are enclosed in a single enclosure) can be carried out by isolating and evacuating the small effected section and not the entire bus.. The design of 132/66 kV GIS shall be such that in case a circuit breaker module of a feeder is removed for maintenance, both busbars shall remain in service.  Typical drawings indicating gas tight compartments are enclosed at Annexure-A.	Annexure A is not available in the Tender documents. We request to please issue the same	Annexure A refers to list of drawings which are for tender purpose only.  The detail design is in the scope of successful bidder.
51	Clause 4.1/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	The circuit breakers shall be designed for high speed single and three phase reclosing with an operating sequence and timing as specified.	Offered circuit breaker shall have 3-ph enclosure design with common drive mechanism for all three phases which shall be suitable for high speed three phase reclosing only. Kindly confirm	Shall be discussed during DDE
52	Clause 4.5.4/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	The gap between the open contacts shall be such that it can withstand at least the rated phase to ground voltage for eight hours at zero pressure above atmospheric level of SF6 gas due to its leakage.	We wish to inform that the requirement is not as per IEC. Our offered GIS is fully type tested as per IEC 62271-203 requirement. Further incase of leakage of the SF6 gas, the suitable alarm/or trip shall be initiated by means of density monitor output to protection relays. We hope our understanding is aligned to spec. requirement	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
53	Clause 4.5.7/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	Circuit Breaker shall be supplied with auxiliary switch having additional 8 NO (normally open) and 8 NC (normally closed) contacts for future use over and above those required for switchgear interlocking and other control and protection function	Number of auxiliary contacts shall be as per OEM type tested design. Additional contacts shall be provided by means of contact multiplier relay, if required during execution. Hope the same shall be acceptable	Shall be as per bid documents and if there is amendment, will be informed through NEA website.


  
 जमलेखगुञ्ज १३२ क्व.भी.
   
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NEPAL ELECTRICITY AUTHORITY				
AMLEKHGUNJ 132 KV SUSTATION CONSTRUCTION PROJECT				
Clarification - II				
Design, Supply, Installation, Testing and Commissioning of Amlekhgunj, 132/66/11kV GIS Substation				
Invitation for Bids No.:PMD/PTDEEP/ASCP/2079/80-01				
Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply
54	Clause 4.6 (3)-c/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	After failure of power supply to the motor one close open operation shall be possible with the energy contained in the operating mechanism	We wish to inform that the offered hybrid drive mechanism (wherein energy stored by means of spring and transferred by hydraulic mechanism) shall have sufficient energy to perform one O-C-O operation even after failure of aux supply with spring charge. Hence requirement of manual charging is not applicable.	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
55	Clause 4.6 (3)-d/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	Facility for manual charging of the closing spring shall also be provided		
56	Clause 5.2 (6)/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	The local operation shall be by means of a two-position control switch located in the Local Control Cabinet (LCC).	In line to our standard offering and practice, HV device (CB/DS/ES etc.) local operation shall be done by means of push button type arrangement provided in LCC. We hope the same is acceptable.	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
57	Clause 8.2/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	The earth end of the high voltage winding and the ends of the secondary winding shall be brought out in the terminal box.	In line to our standard offering and practice, Earth end of the high voltage winding of voltage transformer shall be earthed within the enclosure itself as per type tested design. We hope the same is acceptable.	It shall be acceptable if there is no change in performance and shall be discussed during DDE.
58	Clause 8.2.5.d/Section 6, Chapter 1 - Project Specific Requirements (PSR)/Section - Gas Insulated Switchgear	Voltage transformers secondary shall be protected by Miniature Circuit breakers (MCBs) with monitoring contacts for all the windings	In line to our standard offering, MCB for the secondary protection of the VT shall be placed in the LCC. Hope the same is acceptable	Acceptable
59	Section 6: Employer's Requirements/Chapter 19:GasInsulatedSwitchgear	ANNEXURE-3 REQUIREMENTS FOR 132 & 145 kV CURRENT TRANSFORMER TABLE-3A & 3B	Please provide the detailed CT parameters of 66 & 72.5kV like TABLE-3A & 3B	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
60	PSR 4. DETAILEDSCOPE OF WORK145 kV GIS and 72kV GIS System: MainBus bar CVT.	(A) Set of three phase, 2000A, 31.5kAfor 1 Sec, SF6 gas-insulated metal enclosed bus bar module 145kV & 72 kV along withbus PT, each set comprising of the following : b) Three (3) individual 1-phase/one (1) number of 3 phase asapplicable inductive potential transformers, complete with isolator switch suitable for double bus arrangement.	It is required CVT on main bus in Single line diagram and inductive potential transformers in detailed scope work. As GIS supplier, electromagnetic PT used for GIS. Kindly clarify which type PT are required in 132 & 66 Kv level.	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
61	6: Employer's Requirements/Chapter 19:GasInsulatedSwitchgear;ScheduleNo. 1: Plant andEquipment includingMandatory Spares to be supplied fromabroad Section	26. TESTING & MAINTENACE EQUIPMENT 26.2. Gas filling and evacuating plant : 26.3. SF6 gas analyzer:  Part -3: Amlekhgunj GIS Substation extension 1 SF6 Gas processing Unit 3 Dew Point Meter	There has Gas filling and evacuating plant & SF6 gas analyzer specification . However, required SF6 Gas processing Unit & Dew Point Meter in Schedule of rates and prices. Kindly clarify : Gas filling and evacuating plant and SF6 Gas processing Unit are same thing or not. SF6 gas analyzer and DewPoint Meter are same thing or not. If Schedule of rates and prices is correct. Kindly supply SF6 Gas processing Unit & Dew Point Meter specification.	Shall be as per bid documents. Since, the detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
62	9. SURGE ARRESTORS9.2. Insulation co-ordination andselection of surgearrestor:	The contractor shall be fully responsible for complete insulation co-ordination of switchyard including GIS.Contractors shall carry out detailed studies and design calculations to evolve the required parameters locations, energy capability etc. of surge arrestors such that adequate protective margin is available between peak impulse, surge and power frequency discharge voltages and BIL of the protected requirement. The locations of surge arrestors shown in single linediagram is indicative only. If thecontractor feels that at some more locations the surge arrestors are required to be provided the same	As per GIS single line diagram and detailed scope of work, there are no GIS surge arrestors. For our understanding, the item is not applicable for GIS manufacture. Kindly confirmed.	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.

  
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NEPAL ELECTRICITY AUTHORITY				
AMLEKHGUNJ 132 KV SUSTATION CONSTRUCTION PROJECT				
Clarification - II				
Design, Supply, Installation, Testing and Commissioning of Amlekhgunj, 132/66/11kV GIS Substation				
Invitation for Bids No.:PMD/PTDEEP/ASCP/2079/80-01				
Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply
63	Volume 2	TECHNICAL SPECIFICATIONS FOR Fibre Optic Based Communication Equipments Appendix A: Bill of Quantity (BOQ)	The BOQ in this appendix A is different to that in the price schedule of Vol.3, kindly clarify which prevails.	Please quote as per BPS.
64	Volume 2	Chapter 1 PSR, 13.1 Specific requirement i) <b>Training at Manufacturer's works.</b> The Contractor shall include in the training charges payment of per Diem allowance to NEA trainees @ as per NEA Regulations per day per trainee for the duration of training abroad.	Please kindly clarify the standard for such allowance.	It is USD 150 per day.
65	Volume 2	Annexure VI	Please kindly clarify what equipment needs to be inspected and provide the equipment list if possible.	shall be as per bid documents and it shall also be decided during DDE.
66	ANNEXURE-3 Requirements for 132 & 145 kV Current Transformer Table-3A & 3B	Chapter 2-General Technical Requirement & Section 6: Employer's Requirements/ Chapter 19:Gas Insulated Switchgear	Please provide the detailed CT parameters of 66 & 72.5kV like TABLE-3A & 3B	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
67	(A) Set of three phase, 2000A, 31.5kA for 1 Sec, SF6 gas-insulated metal enclosed bus bar module 145kV & 72 kV along with bus PT, each set comprising of the following : b) Three (3) individual 1-phase/one (1) number of 3 phase applicable inductive potential transformers, complete with isolator switch suitable for double bus arrangement.	Single Line Diagram & PSR: PSR 4. Detailed scope of work 145 kV GIS and 72kV GIS System: Main Bus bar CVT.	It is required CVT on main bus in Single line diagram and inductive potential transformers in detailed scope work. As GIS supplier, electromagnetic PT used for GIS. Kindly clarify which type PT are required in 132 & 66 Kv level.	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
68	Present scope	DSLIP	We understand DSLIP, illumination, earthing is required for present scope bays area only.	Shall be decided during DDE.
69	Cable termination	Indoor termination kit GIS side	132kV power cable indoor termination kit GIS side is not given in bid price schedule, kindly include the same.	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
70	Cable run	Cable run	66kV transformer LV side cable seems to be 2 run per phase, kindly confirm the same.	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
71	Cable termination	Cable termination	66kV transformer LV power cable GIS side indoor termination is not mentioned in BPS, kindly include the same.	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
72	Cable termination	Cable termination	Outdoor cable sealing end for 66kV is mentioned 12 numbers whereas considering 2 run cable it should be 24 numbers. And we understand it should be heat shrinkable outdoor termination kit instead of cable sealing end. Kindly confirm the type and quantity.	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
73	11kV Outgoing Feeder	11kV Outgoing Feeder	We understand that 11kV 3Cx400 Sqmm Al cable for 8 nos. outgoing lines shall be laid with cable support pipe & outdoor termination kit. Please confirm. Further, 11kV double pole structure & 11kV outdoor equipments are not in bidder's scope. Please confirm.	Regarding 11kV outgoing feeders, contractor shall breakdown the line bays upto the boundary of substation so that the existing 11 kV bays can be connected.
74	In "Project Specific Requirement" Page 24, SLD, 132kV & 66kV GIS Tr bays & Line bays all need SF6/Air Bushing. But in Page 25 layout, only four are SF6/Air Bushing outgoing bays.	In "Project Specific Requirement" Page 24, SLD	Please confirm which drawing we should follow.	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
75	VAT applicable on plant & equipment supplied directly from manufacturing plant in the Employer's country shall be reimbursed.	Clause no. e), 14. Taxes and Duties	We understand that same philosophy shall be applicable on local service portion for the goods procured from local manufacturer, please confirm.	Shall be according to the rules of Government of Nepal


  
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# NEPAL ELECTRICITY AUTHORITY

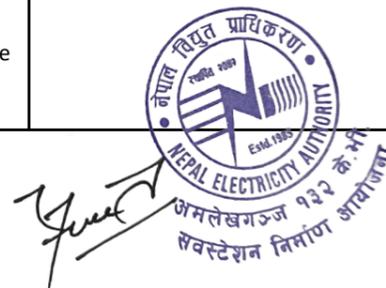
## AMLEKHGUNJ 132 KV SUSTATION CONSTRUCTION PROJECT

### Clarification - II

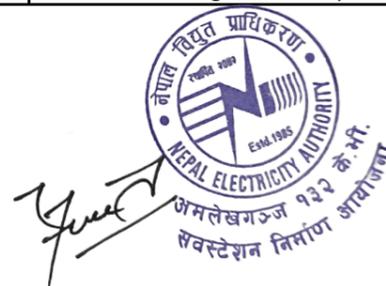
#### Design, Supply, Installation, Testing and Commissioning of Amlekhgunj, 132/66/11kV GIS Substation

Invitation for Bids No.:PMD/PTDEEP/ASCP/2079/80-01

Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply
76	Section 6, Chapter 1 - Project Specific Requirements (PSR) 4.1 7 of 890	SF6 to Air Bushing terminations/ Cable Sealing End requirement	In line to the requirement mentioned in Schedule 1 Layout received, we understand the following - in 145 kV - 4 Nos. of GIS Exit Bays are with SF6 to Air Bushing terminations and remaining 2 Nos. of GIS Bays are with SF6 to Cable terminations in 72.5 kV - All 10 Nos. of GIS Exit Bays are with SF6 to Cable termination exits.  Please confirm our understanding	Confirm
77	Section 6, Chapter 1 - Project Specific Requirements (PSR) 4.1 H 10 of 890	Surge Arrestors and Bus post insulators as required shall be part of the GIS	We request to clarify the type of Surge Arrestor to be considered .i.e. GIS type of AIS type for each Line feeder bay in 145 kV and 72,5 kV system	AIS type
78	Section 6, Chapter 1 - Project Specific Requirements (PSR) 4.1.B.b 8 of 890	Three (3) nos. of 1-phase/one (1) number of 3 phase as applicable, 5-core, multi ratio, current transformers duly distributed on both side of Circuit Breaker.	We understand that all the 5 CT cores on the exit side of GIS Circuit breaker are also acceptable as the is common and widely accepted practice by all the utilities. Kindly confirm	Shall be as per bid documents.
79	Section 6, Chapter 1 - Project Specific Requirements (PSR) 4.1.G.a 9 of 890	A tentative layout / GA drawing of the switchyard is enclosed with this specification for 132/66/11kV Substation. The GIB duct length shall be optimized further without affecting the switchyard arrangement and bay orientation and also any of the functional requirements specified.	We understand that the Bus duct mentioned in the BOQ is tentative and the bidder can optimize the same. Please re-confirm our understanding and arrange to share the Autocad layout to work out on the bus duct routing. Kindly confirm	Confirm
80	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 3.9 708 of 890	These compartments shall be such that maintenance on one feeder may be performed without de-energising the adjacent feeders	We confirm to meet the service continuity requirement during maintenance. However, in case of replacement/repair which requires removal of bus bar disconnecter earthing switch module, we request for momentary shutdown of the adjacent bays considering the IEC Guidelines and safety requirement. Hope the same is acceptable. Kindly confirm	Shall be as per bid documents.
81	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 3.11 708 of 890	Due to safety requirement for working on this pressurized equipment, whenever the pressure of the adjacent gas compartment is reduced during maintenance, this compartment shall be designed so that it shall remain in service to perform its intended duty.	Considering the IEC Guidelines and safety requirement, while working on the GIS equipment, whenever the pressure of a particular gas compartment is reduced during maintenance, the adjacent compartment cannot remain in service. We recommend to amend the subject clause. Kindly confirm	Shall be as per bid documents.
82	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 3.11 708 of 890	The bus enclosure should be sectionalized in a manner that maintenance work on any bus disconnecter (when bus and bus disconnecter are enclosed in a single enclosure) can be carried out by isolating and evacuating the small effected section and not the entire bus.. The design of 132/66 kV GIS shall be such that in case a circuit breaker module of a feeder is removed for maintenance, both busbars shall remain in service.  Typical drawings indicating gas tight compartments are enclosed at Annexure-A.	Annexure A is not available in the Tender documents. We request to please issue the same	Annexure A refers to list of drawings which are for tender purpose only.  The detail design is in the scope of successful bidder.


  
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Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply
83	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 4.1 716 of 890	The circuit breakers shall be designed for high speed single and three phase reclosing with an operating sequence and timing as specified.	Offered circuit breaker shall have 3-ph enclosure design with common drive mechanism for all three phases which shall be suitable for high speed three phase reclosing only. Kindly confirm	Shall be discussed during DDE
84	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 4.5.4 717 of 890	The gap between the open contacts shall be such that it can withstand at least the rated phase to ground voltage for eight hours at zero pressure above atmospheric level of SF6 gas due to its leakage.	We wish to inform that the requirement is not as per IEC. Our offered GIS is fully type tested as per IEC 62271-203 requirement. Further incase of leakage of the SF6 gas, the suitable alarm/or trip shall be initiated by means of density monitor output to protection relays. We hope our understanding is aligned to spec. requirement. Kindly confirm	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
85	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 4.5.7 718 of 890	Circuit Breaker shall be supplied with auxiliary switch having additional 8 NO (normally open) and 8 NC (normally closed) contacts for future use over and above those required for switchgear interlocking and other control and protection function	Number of auxiliary contacts shall be as per OEM type tested design. Additional contacts shall be provided by means of contact multiplier relay, if required during execution. Hope the same shall be acceptable. Kindly confirm	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
86	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 4.6 (3)-c 718 of 890	After failure of power supply to the motor one close open operation shall be possible with the energy contained in the operating mechanism	We wish to inform that the offered hybrid drive mechanism (wherein energy stored by means of spring and transferred by hydraulic mechanism) shall have sufficient energy to perform one O-C-O operation even after failure of aux supply with spring charge. Hence requirement of manual charging is not applicable. Kindly confirm	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
87	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 4.6 (3)-d 718 of 890	Facility for manual charging of the closing spring shall also be provided		
88	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 5.2.(6) 721 of 890	The local operation shall be by means of a two-position control switch located in the Local Control Cabinet (LCC).	In line to our standard offering and practice, HV device (CB/DS/ES etc.) local operation shall be done by means of push button type arrangement provided in LCC. We hope the same is acceptable. Kindly confirm	Shall be as per bid documents and if there is amendment, will be informed through NEA website.
89	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 8.2 725 of 890	The earth end of the high voltage winding and the ends of the secondary winding shall be brought out in the terminal box.	In line to our standard offering and practice, Earth end of the high voltage winding of voltage transformer shall be earthed within the enclosure itself as per type tested design. We hope the same is acceptable. Kindly confirm	It shall be acceptable if there is no change in performance and shall be discussed during DDE.
90	Section 6, Chapter 1 - Project Specific Requirements (PSR); Section - Gas Insulated Switchgear 8.2.5.d 725 of 890	Voltage transformers secondary shall be protected by Miniature Circuit breakers (MCBs) with monitoring contacts for all the windings	In line to our standard offering, MCB for the secondary protection of the VT shall be placed in the LCC. Hope the same is acceptable. Kindly confirm	Acceptable
91	Volume -2 Page No.13 4.3(p)	Drainage work for the Switchyard	1. As per customer's reply drain work is to be quoted in item number 19 of Schedule 4: Part C. This item is entirely different from drainage work. Hence it is again requested to add item of drainage for Switchyard.	Please quote as per BPS as mentioned in Clarification 1



NEPAL ELECTRICITY AUTHORITY				
AMLEKHGUNJ 132 KV SUSTATION CONSTRUCTION PROJECT				
Clarification - II				
Design, Supply, Installation, Testing and Commissioning of Amlekhgunj, 132/66/11kV GIS Substation				
Invitation for Bids No.:PMD/PTDEEP/ASCP/2079/80-01				
Sr. No.	Clause Reference	Client Clause	Bidder's Queries	Client Reply
92	Vol-II/Schedule No. 4: Installation and Other Services Page no. 27 29	Dismantling of existing 132 kV and 66 kV Towers and transportation to NEA store	During prebid Meeting and Site visit it was communicated that Existing Towers to be dismantled as per requirement to make LILO of both 132kV and 66kV Circuits. Foundation of Existing Towers shall be dismantled as only up to natural ground level not below natural ground level. Kindly confirm the same.	Confirm
93	Volume-2 Chapter-1 Page 11 4.2r	12kV HT cable along with jointing Kit and other accessories for connection of LT Transformers and interconnection of LV side of 66/11 kV Transformer to Indoor LT Panel	1. We understand that all 11kV O/G feeders shall be made available on H-pole like structure. 2. Whether Existing 11 kV feeders shifting to be considered in bidders scope. Kindly confirm.	Confirm
94	Volume-2 Chapter-1 Page 18 13.1(k)	One number each Energy meter for the record and revenue purpose is to be provided for each 66/11kV bays (Bus coupler bays to be excluded) at Amlekhgunj SubStation under present scope of contract, meeting the requirement as specified at Annexure – V.	Our Query was whether dedicated metering CT and CVT/PT other than CT & PT used for protection function are required or single CT & PT can be used for metering and protection for a bay. Kindly confirm.	The detail design is in the scope of the successful contractor, it shall be further discussed during DDE.
95	BOQ	Relays	We understand that complete dismantling and transportation of 2 Nos transformers including other associated equipment of Existing switchyard is in scope of bidder. No existing building demolition has been envisaged in scope of bidder. Kindly confirm	Confirm
96		As per Amendment-1, Sl.no.2 for Power Transformer (132kV voltage class): v) Must have successfully carried out the Dynamic Short Circuit (DSC) test as per IEC over last 10 years period as on the originally scheduled date of bid opening in Reputed Independent Testing Laboratory on : - 132 kV voltage class, three phase 100 MVA transformer or higher rating capacity of transformer with same voltage level.	As per corresponding clause, there is no power transformer manufacturer who is having dynamic short circuit test report of 132kV voltage class, 3-Ph, 100MVA or higher rating capacity in India. Please suggest the suitable manufacturer meeting the amended requirement. We also request to retain the original clause as provided in the tender document enabling us to submit better competitive price.	Please submit the undertaking letter to carry out the complete type test along with the DSC in the presence of NEA representative in any reputed, independent, international accredited laboratory without any extra cost to the employer.

  
 नेपाल विद्युत् प्राधिकरण  
 NEPAL ELECTRICITY AUTHORITY  
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