Nepal Electricity Authority

Transmission Directorate

HETAUDA-DHALKEBAR-INARUWA 400KV SUBSTATION EXPANSION PROJECT

Procurement of Plant Design, Supply, and Installation, Testing and Commissioning of 400 kV Hetauda and Inaruwa Substations (ICB No: HDI/ICB/GIS/HTD-INA)

Clarification No.1

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
1	Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement	Cl.no.3.2.1.31.a	PEB GIS Building for 400kV. The size of 400kV GIS Building shall be suitable to accommodate three complete diameter bays in addition to the maintenance bay. The AHU room, relay panel room, battery & battery charger room and store/maintenance room etc. shall be provided for as a part of PEB GIS Building. Necessary provision for future expansion shall be made in GIS Hall.	As per the referred clause, The size of 400kV GIS Building shall be suitable to accommodate three complete diameter bays in addition to the maintenance bay. However, in Inaruwa SLD Drg No.NEA-HDI-I-SLD-01, 5 Dia meters are shown including future bays. As both the clauses are contradicting, kindly confirm the requirement.	The size of the 400 kV GIS hall shall be as per Clause 31, a) , Page 23, of the Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement of Bidding Documents.
2	Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement	Cl.no.3.1.1, 30.a	PEB GIS Building for 400kV: The size of 400kV GIS Building shall be suitable to accommodate 6 complete diameter (4 present plus 2 future as per availability of space) bays in addition to the maintenance bay. The AHU room shall be provided for as a part of GIS Buildings. Necessary provision for future expansion shall be made in GIS Hall.	As per the referred clause, 400kV GIS building shall be suitable to accommodate 6 complete diameters(4 Present plus 2 future) in addition to maintenance bay. However, in Hetauda SLD Drg No.NEA-HDI-H-SLD-01, only 5 Dia meters are shown including future bays. As both the clauses are contradicting, kindly confirm the requirement.	The size of the 400 kV GIS hall shall be as per Clause 30, a) , Page13, of the Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement of Bidding Documents.
3	Chapter-1- Project Specific Requirement	3.1.1 (1.1) (iv) Pg No. 4 3.2.1 (1.1) (iv) Pg No. 14	One Bay Module Control Cabinet/Local Control Cubicle for Busbar system	We are not clear with this requirement. Please clarify	Local Control Cubicle for 400 kV GIS Busbar system for each Bay shall be provided as per clause 14, Chapter 3- GIS Switchgear of Technical Specifications. Control panel with BCU can be combined in the CB relay panels being supplied under present scope.

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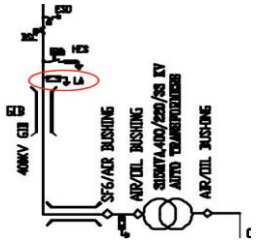
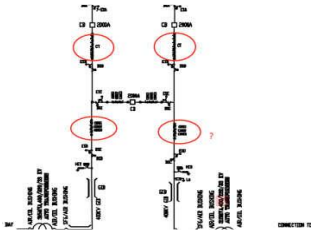
A.	**TECHNICAL**				
4	Chapter-1- Project Specific Requirement	3.1.1 (1.5) (iii) & (iv) Pg No. 5 & 6 3.1.1 (1.6) (iii) & (iv) Pg No. 5 & 6 3.2.1 (1.6) (iii) & (iv) Pg No. 15 & 16 3.1.1 (1.5) (iii) & (iv) Pg No. 15 & 16	iii. Two Nos. 3-phase, 4000A, group operated isolator switches, complete with manual and motor driven operating mechanisms. iv. Two Nos. 3-phase, group operated safety-grounding switches, complete with manual and motor driven operating mechanisms.	It is observed that Isolators along with Earthswitch are not asked for Tie bays similar to Main Bays since Earthswitch description is mentioned separately in Project specific requirements. Please clarify	Isolator along with safety-grounding switches are required in the Tie Bays similar to the Main Bays.
5	Chapter-1- Project Specific Requirement Price Schedule No. 1	3.1.1 27) Pg No. 12 Cl. No. P.1 a)	In addition, 600 AH, 220 V battery and battery charger with its distribution to be installed at Dhalkebar Substation are included in the present scope of contract as indicated in the price schedules.	We understand that bidder has to consider supply of mentioned rating of Battery & Battery charger as per tender documents for Dhalkebar Substation. However integration with existing system shall not be in scope of Bidder. Please confirm.	Supply and installation of 600 AH, 220 V battery and battery charger with its distribution at Dhalkebar substation is in the scope of present works under the contract.
6	Chapter-1- Project Specific Requirement 400kV Single Line Diagram of Hetauda S/s 400kV Single Line Diagram of Inaruwa S/s	3.1 of 400kV Hetauda GIS Substation 3.2 of 400kV Inaruwa GIS Substation Drawing No. - NEA-HDI-H-SLD-01 OF 01 Drawing No. - NEA-HDI-I-SLD-01 OF 01		It is observed that Lightning arrestor is displayed nearby high speed Earthing switch of auto transformer bays & shunt reactor bay in SLD however same is not mentioned in project specific requirements. Please confirm whether Lightning arrestor is to be provided or not.	Requirements of Lightning arrestor shall be as per chapter-1, project specific requirements and schedules of rates and prices.
7	400kV Single Line Diagram of Inaruwa S/s	Drawing No. - NEA-HDI-I-SLD-01 OF 01		There are two sets CT of each auto transformer bay in the Inaruwa SLD. Please confirm whether the drawing is correct	Requirements of CT of each auto transformer bay shall be as per chapter-1, project specific requirements.

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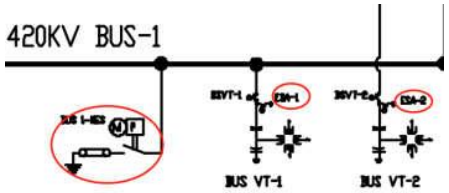
A.	**TECHNICAL**				
8	Chapter-1- Project Specific Requirement 400kV Single Line Diagram of Hetauda S/s 400kV Single Line Diagram of Inaruwa S/s	3.1.1 (1.1) (iii) Pg No. 3 3.2.1 (1.1) (iii) Pg No. 14 Drawing No. - NEA-HDI-H-SLD-01 OF 01 Drawing No. - NEA-HDI-I-SLD-01 OF 01		In the main busbar, a high speed earth switch is displayed in SLD. But its not displayed in the project specific requirement. Please confirm whether high speed Earth switch is required or not.	Requirements of high speed earth switch shall be as per chapter-1, project specific requirements of the technical specifications.
9	Chapter-1- Project Specific Requirement	3.1.1 (1.7) Pg No. 6	420 kV Auxiliary Bus to connect spare unit of Transformer	Please explain the location of Auxiliary bus.	420 kV Auxiliary Bus to connect spare unit of Transformer shall be part of GIS Module and finalized during the detail engineering inline with technical specifications.
10	Chapter-1- Project Specific Requirement	3.1.1 (1.2) viii Pg No. 4	viii. One lot of SF6 gas monitoring system, barriers, p the complete bay module, terminal boxes, grounding, support structures, platform etc. as requ	Please explain "one lot of SF6 gas monitoring system as per attached image.	Online line Monitoring System (including UHF partial discharge online monitoring system and SF6 gas online monitoring system) is required and their price included in the respective GIS Module in line with Module description given at Chapter 1, PSR of the technical specification. Thus, Bidders are requested to quote their prices accordingly.
11	Price Schedule No. 1		In the GIS- BOQ, "g) 1 Phase SF6 Gas Insulated Bus Duct (GIB) for interconnection	It means that SF6 Gas Insulated Bus Duct (GIB) total length is (750+300)×3=3150 m. Please confirm.	SF6 Gas Insulated Bus Duct (GIB) total length is as per schedules of rates and prices.
12	Chapter-1 Project Specification Requirements(PSR)	P18 of 66, 8/9) of 1.6	Mentioned the RIP bushing (for Transformer or Reactor) in PSR	Please confirm that the RIP bushing only applicable for the Transformer and Reactor but not applicable for GIS	SF6 to air Bushing shall be as per Chapter 3- GIS Switchgear

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A.	TECHNICAL				
13	Chapter-1 Project Specification Requirements(PSR)	3.1.1 (14) Pg No. 8	Due to space constraint, tertiary auxiliary bus & delta formation of autotransformer is not possible by overhead Al-tube arrangement, same shall be done by using 52 kV XLPE cable and deem to be included in the present scope of contract.	1) Line item for 52kV XLPE cable is missing in price schedule. 2) Please confirm whether 33kV Neutral bus shall be formed by overhead Al. tube arrangement. 3) Please confirm whether 220kV Auxiliary bus shall be formed by overhead Al. tube arrangement.	The tertiary auxiliary bus & delta formation of autotransformer, 220kV Auxiliary bus and 33kV Neutral bus formation shall be through overhead connection is acceptable. However, if due to space constraint, tertiary auxiliary bus & delta formation of autotransformer by overhead connection is not possible same shall be done by 52 kV XLPE cable and deem to be included in the contract price. Thus Bidders are requested to properly examined the layout space and quote their rates to complete the scope of the works inline with Technical Specifications.
14	1) Electrical Layout plan drawing for Hetauda S/s 2) GIS Layout for Hetauda S/s	Drawing No. - NEA-HDI-SS-E-01(02) Drawing No. - NEA-HDI-E-LY-01 OF 01		It is observed that 220kV bays indicated in Electrical Layout plan & 400kV GIS Layout of Hetauda S/s are not matching. Please clarify which layout is to be referred for Existing 220kV bays.	Under construction, 1 nos. of 220 kV line bay (AIS) (Indicated as Dhalkebar Line 1 in Drawing No. NIETTP/W/ICB/-2/SS) shall be used for 220 kV side ICT bay with necessary augmentation.
15	1) Chapter-1- Project Specific Requirement 2) Electrical Layout plan drawing for Hetauda S/s	Cl. No. 2.1.1.1 v) Drawing No. - NEA-HDI-SS-E-01(02) Drawing No. - NEA-HDI-E-LY-01 OF 01	Under construction, 1 nos. of 220 kV line bay (AIS) shall be used for 220 kV side ICT bay with necessary augmentation.	Please confirm whether Dhalkebar Line 1 mentioned in Electrical layout plan shall be used for 220kV side ICT bay. If yes Bidder shall not be responsible for healthiness of Erected equipments (Isolators, CT, Circuit breaker etc)	Confirmed
16	Chapter-1- Project Specific Requirement	3.1.1 2) Pg No. 7 3.2.1 2) Pg No. 17	Pre-insert resistor (PIR) / CSD is required for all Main & Tie circuit breakers for line bays	Please clarify the requirement of PIR/CSD for Main & Tie Circuit breakers for Lines since line lengths are less than 200kms.	Shall be as per chapter-1- Project Specific Requirement, clause 3.1.1, 2, page 7 & 3.2.1, 2, page 17 of the bidding documents.
17	Chapter-1- Project Specific Requirement	3.1.1 18) Pg No. 11 3.2.1 19) Pg No. 21	400kV Control & Protection	Please confirm our understanding whether New control & protection panels for 400kV GIS shall be placed in new control room adjacent to GIS building. Please confirm.	Confirmed
18	Chapter-1- Project Specific Requirement	3.1.1 18) Pg No. 11 3.2.1 19) Pg No. 21	220kV Control & Protection	Please confirm sufficient space in Existing 220kV Switchyard panel room to accommodate present scope of control & protection panels for ICT bay.	There is a provision of space in Existing 220kV Switchyard panel room to accommodate present scope of control & protection panels for ICT bay. However, if space is not sufficient same shall be kept in the 400 kV Control Relay Panel room.

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A.	**TECHNICAL**				
19	Chapter-1- Project Specific Requirement	2.1.2.1 iv) Pg No. 3	220 kV bays, 3 Nos. for 400/220/33 KV, 315 MVA, 3-Ph Auto transformers	Please confirm whether Main Bus & transfer bus is to be extended for present scope of works at 220kV Inaruwa S/s	Extension of 220 kV Main Bus & transfer bus is under the scope of contract inline with technical specifications.
20	Chapter-1- Project Specific Requirement	3.1.1 15) & 17) Pg No. 9,10&11 3.2.1 16) & 18) Pg No. 19,20&21	Substation Automation system	Please furnish details including Make & drawing of Existing Substation Automation System at Hetauda & Inaruwa S/s.	Shall be provided during detail engineering
21	Price Schedule No. 1	K 1.5) b) Pg No. 20 of 105	CONTROL RELAY & PROTECTION PANELS (WITH AUTOMATION)	Please furnish details including Make & drawing of Existing 220kV Busbar protection System at Hetauda & Inaruwa S/s.	Shall be provided during detail engineering
22	Chapter-1- Project Specific Requirement Hetauda S/s & Inaruwa S/s	3.1.1 19) Pg No. 12 3.1.1 20) Pg No. 21	19) Fire protection system	Request you to furnish details of Existing Fire water system for extension scope of works. Kindly confirm that Existing Fire fighting Annunciation panels shall cater to requirements of present scope of work.	Shall be provided and finalized during detail engineering.
23	Price Schedule No. 1 Inaruwa S/s	J.3 Pg No. 19 of 105	72.5 kV Single Bus Type for LT Transformer termination arrangement	Requirement of 72.5kV single bus type arrangement is not clear. Please elaborate.	LT Transformer shall be connected from tertiary of 315 MVA Transformer via 72.5 kV aluminum tube bus bar or overhead conductor as appropriate at Inaruwa Substation.
24	Chapter-1- Project Specific Requirement Hetauda S/s & Inaruwa S/s	3.1.1 16) Pg No. 9 3.2.1 15) Pg No. 19	The contractor shall also supply necessary BCU for monitoring and control of auxiliary supply including operation of Isolator associated with auxiliary transformer.	Please clarify the requirement of operation of Isolator associated with auxiliary transformer from mentioned BCU.	The contractor shall also supply necessary BCU for monitoring and control of auxiliary supply through LT transformer including operation of CB, Isolator associated with HV side of LT transformer bay.
25	Chapter-1- Project Specific Requirement Hetauda S/s	3.1.1 26) (iv) Pg No. 12	26) LT switchgear (AC/DC Distribution boards).	We presume that new LT boards (MSB, ACDB, DCDB , MLDB & ELDB) are to be supplied for present scope of work as per tender documents. Please confirm.	Confirmed
26	Chapter-1- Project Specific Requirement Inaruwa S/s	3.2.1 27) (iv) Pg No. 22	The necessary extension/augmentations to complete the scope of works for Main Switch Board(MSB), AC Distribution Board (ACDB), Main Lighting Distribution Board (MLDB), Emergency Lighting Distribution Board (ELDB) and Power Kiosk as required is in present scope of work.	Please provide details of Spare feeders in Existing ACDB, MLDB & ELDB Boards along with LT board drawings.	The details SLD of Existing AC system shall be provided during the detail engineering.

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A.	**TECHNICAL**				
27	Chapter-1- Project Specific Requirement Inaruwa S/s	3.2.1 27) (iv) Pg No. 22	As presently there were two incomer from the two 33/0.4 kV, 630 kVA LT Transformer. Under the present scope, the incomer -2 of the Main Switch Board shall be feed from the existing 33/0.4 kV, 630 kVA station transformer connected to the tertiary of Auto Transformer.	Please confirm our understanding on augmentation work with respect to MSB that Incomer-2 shall be from NEW 33/0.4 kV, 630 kVA station transformer connected to tertiary of auto transformer & Incomer-1 shall be Existing from Existing Station transformer.	Confirmed
28	Chapter-1- Project Specific Requirement	19) 12) Pg No. 32	One number each Energy meter for the record and revenue purpose is to be provided for each 400/220 bays under present scope of contract, meeting the requirement as specified at Annexure- III.	Please clarify the requirement of Energy meter since line item is missing in Price Schedule.	Supply and installation of energy meter is included in the scope of contract. Please refer clause 12), page 32, Chapter 1-Project Specific Requirement of Technical Specification. Thus, Bidders are requested to quote their rates and prices under respective C&R Panels under Schedule of Rates and Prices.
29	Chapter-1- Project Specific Requirement	19) 16) Pg No. 32	Dimension and color of C&R panels at all the existing switchyards shall match with existing panels.	Please provide details like Dimension and color of Existing C& R panels	Shall be provided during the detail engineering.
30	400/220kV works at Hetauda S/s 400/220kV works at Inaruwa S/s	220kV Extn works at Hetauda S/s & 220kV Extn works at Inaruwa S/s		Please provide Main & transfer bus rating of Existing 220kV Inaruwa S/s.	220 kV Main & transfer bus rating shall be per attached drawing no. IRW-SS-E-01(01)
31	400/220kV works at Hetauda S/s 400/220kV works at Inaruwa S/s	General		Please specify Creepage distance to be considered for Hetauda & Inaruwa S/s	As per volume II, chapter 2- General Technical Requirement, clause 4.6.1 of Technical Specifications.
32	400/220kV works at Hetauda S/s 400/220kV works at Inaruwa S/s	General		Please specify conductor for Main Bus, Transfer bus, jack bus & equipment interconnection for 400kV & 220kV.	The sample interconnection is shown on the attached drawing no. IRW-SS-E-01(01) and HTD-SS-E-01(01) for only tender purpose. However, Contractor shall developed the same and get approval from the Employer during the detail engineering.

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A.	**TECHNICAL**				
33	400/220kV works at Hetauda S/s 400/220kV works at Inaruwa S/s	General		Request you to furnish Type of Conductor for Outgoing Lines at each voltage level on SLD.	As per volume II, chapter 1- Project Specific Requirement, clause-2.1.1.1, page no.2 and clause-2.1.2.1, page no.3 of Bidding Document.
34	General		Existing 220/132kV Hetauda S/s drawings	We request NEA to provide following Existing drawings of Hetauda S/s 1) Existing Earthmat Layout 2) Existing Cable Trench Layout 3) Existing Lighting Layout 4) Existing Control Room Building Layout 5) Existing 220kV Busbar drawing 6) Existing SAS drawings 7) Existing Fire fighting system drawings including Annunciation panels 8) Existing LT Board drawings (MSB, ACDB, DCDB, MLDB & ELDB)	Shall be provided during the detail engineering.
35	General		Existing 220/132/33kV Inaruwa S/s drawings	We request NEA to provide following Existing drawings of Hetauda S/s 1) Existing Earthmat Layout 2) Existing Cable Trench Layout 3) Existing Lighting Layout 4) Existing Control Room Building Layout 5) Existing 220kV Busbar drawing 6) Existing SAS drawings 7) Existing Fire fighting system drawings including Annunciation panels 8) Existing LT Board drawings (MSB, ACDB, DCDB, MLDB & ELDB)	Shall be provided during the detail engineering.
36	Chapter 17 –Control Relay and Protection Panels	18.10.	-	We understand that Line Differential Protection is not applicable for this project. Please confirm.	Confirmed

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A.	**TECHNICAL**				
37	Chapter 17 –Control Relay and Protection Panels	22	-	We understand that TEE Differential Protection relays are not applicable for this project. Please confirm.	Confirmed
38	Chapter 17 –Control Relay and Protection Panels	30	-	We understand that supply of Distance to Fault locator - Travelling wave type (TWFL) is not in the present scope of works. Please confirm.	Confirmed
39	Chapter 17 –Control Relay and Protection Panels	33	-	We understand that Interface Panels are not required in this project as same is specified in BPS. Please confirm.	Bidders are requested to quote their rates to complete the scope of contract as per the provision of the Bidding Document.
40	Chapter 17 –Control Relay and Protection Panels	36.I).7	Cut out for mounting of Distance to fault Locator (TWFL)	We understand that our scope is only limited to providing Cut out in panel for mounting Distance to fault locator (TWFL). Supply of Distance to fault locator (TWFL) is not part of present scope of works. Please confirm.	Confirmed
41	Chapter 17 –Control Relay and Protection Panels	36.I).11 & 36.II).8	Cut-out and wiring with TTB for energy meter	We understand that our scope is only limited to providing Cut out in panel for mounting Energy meter. Supply of Energy meter is not part of present scope of works. Please confirm.	Supply and installation of energy meter is included in the scope of contract. Please refer clause 12), page 32, Chapter 1-Project Specific Requirement of Technical Specification. Thus, Bidders are requested to quote their rates and prices under respective C&R Panels under Schedule of Rates and Prices.
42	Chapter 17 –Control Relay and Protection Panels	36.VI)	Various types of control panels shall consist of the following:	We understand that local control will be part of Local Control Cubicle (LCC) being supplied for GIS. Request you to clarify on the additional requirement of stand-alone remote control panel mentioned under this clause.	Please refer the Clarification given in SN. 3 above.
43	Chapter 17 –Control Relay and Protection Panels	36.VI)	a. Bay Control Unit (BCU): 1 set for each Circuit Breaker	Please clarify the location Bay Control Unit (BCU). Whether it should be part of CB Relay Panel or Local Control Cubicle (LCC) being supplied for GIS.	Please refer the Clarification given in SN. 3 above.

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A.	**TECHNICAL**				
44	Chapter 17 –Control Relay and Protection Panels	36.VI)	b. Ethernet switch complying IEC61850: 1 no. for each control panel	There is a mismatch in Ethernet switch requirement as compared with clause 4.1.5 of Chapter 18 –Substation Automation System. Request you to clarify, which clause of specification needs to be followed for this project.	The bidder shall provide the redundant switched optical Ethernet communication infrastructure for SAS. One switch shall be provided to connect all IEDs in one diameter of each 400kV yard and for two bays of 220kV yard to communication infrastructure. Each switch shall have at least two spare ports for connecting bay level IEDs and one spare port for connecting station bus.
45	Chapter 17 –Control Relay and Protection Panels	36.VI)	7. The Bay Control unit and the numerical relays supplied under present scope shall be connected to the Ethernet switch. The ethernet switch shall comply with IEC 61850-3 requirements. It shall have sufficient number of ports to accommodate all the IEDs of the new bays and at least 6 spare ports for integrating the numerical Relays/BCUs with NTAMC system i.e. redundant Gateways/RTU and redundant SDC and two spare ports. The IP addressing scheme for the devices shall be provided.	We understand that there is no NTAMC system in Nepal. Request you to clarify on the spare ports requirement in Ethernet switches for interfacing with NTAMC system.	Spare ports shall be required in Ethernet switches as per Specifications.
46	Chapter 18 –Substation Automation System	4.1.5	The bidder shall provide the redundant switched optical Ethernet communication infrastructure for SAS. One switch shall be provided to connect all IEDs for two bays of 400kV yard to communication infrastructure. Each switch shall have at least two spare ports for connecting bay level IEDs and one spare port for connecting station bus.	Bus arrangement of 400kV is One and Half Breaker system. We request you to accept One switch to connect all IEDs of each Diameter for 400kV and One switch to connect all IEDs for two bays of 220kV yard to communication infrastructure.	Confirmed

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A.	**TECHNICAL**				
47	Chapter 1 –Project Specific Requirement	3.1, sub- clause 15, page 9 and 3.2, sub-clause 16, page 19	15) Further, the under construction 220 kV Hetauda & Inaruwa (AIS) substation shall be equipped with substation Automation system (SCADA System) based on IEC 61850. Operator Workstations (HMI) and all necessary accessories and software are included in the present scope of the work, bidder shall also require to supply all necessary hardware and software to integrate SAS with the under construction Substation Automation System including up-dation of system database, displays, and development of additional displays and reports as per requirement.	Since 400kV being highest system voltage, we recommend that SCADA system being offered in the present scope for 400kV should act as master SCADA and 220kV under construction SCADA should report to 400kV SCADA through gateways. With this solution, control and monitoring of complete 400kV as well 220kV bays will be possible from 400kV SCADA OWS being offered under present scope and also consolidated data of 400kV & 220kV bays can be sent to LDC from 400kV gateways being offered in present scope. This solution will be on par for all SCADA OEMs. We request your acceptance for the same.	Shall be finalized during detail engineering.

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A.	**TECHNICAL**				
48	Volume-II-Chapter 16-Civil Work/ Item No.3.1		Site cleaning, Contour Survey and Site leveling	As per specification tree cutting is under scope of bidder either small tree or big tree and as per our understanding any necessary permission (If required) is in scope of NEA,please clarify our understanding is correct or not.	Your understanding is Correct.
49	Volume-III/Schedule of Rates and Prices/Schedule-4/Installation and other services/4-C		Section -B-Contractor assessed quantities-:Structure Steel Quantity in GIS Building, Control Room Building and D G Set.	In Item No.1,2,3 of Section B as per description only Excavation,PCC,RCC and Reinforcement shall be payable as per BPS but as per our understanding and Mode of Measurement in Chapter 16 of Volume-II, Structure steel will also paid separately as per BPS schedule Item. Please clarify our understanding is correct or not.	Supply and Installation of Structure steel and Other Miscellaneous item such as roof panels/wall panels etc. for PEB GIS Steel Building shall be paid as per Schedule 1/2, Schedule 4A and 4B of the Schedule of Rates and Prices of Bidding Documents.
50	Design & Drawing Approvals			We understand that Drawing approval shall be done by NEA & the contractor will not be required to get drawings approved from any consultant. Please confirm.	NEA shall employ consultant for design check and site supervision. Details shall be provided during contract execution stage.
51	Construction License			We understand that NEA shall take all necessary construction licenses of site before the effective date of the contract.	Your understanding is Correct.
52	General			We understand that the land for construction of switchyard is under NEA possession. Please confirm.	Your understanding is Correct.
53	Volume-II-Chapter 16-Civil Work/	Item no. 14, pg 41		Please confirm whether section DG requires enclosure or room?	D.G. Set shall be placed in an Enclosure as per Chapter 20 –Diesel Generator Set of Technical Specifications.
54	Volume-II-Chapter 16-Civil Work/	Item no. 5, pg 38		Pls confirm whether false ceiling is required for ACDB room.	False ceiling is not required for ACDB and RCC Staircase. Non VOC acrylic emulsion paint is not required for Mineral fiber board panel false ceiling required under the scope of contract. Thus, Bidders are requested to understand accordingly and quote their price accordingly.
55	Volume-II-Chapter 16-Civil Work/	Item no. 8, pg 38		We understand that acid alkali resistant paint is not required. Pls confirm.	Acid alkali resistant paint is required in Battery room in line with technical specifications.
56	Price schedule 4C		Mode of measurement of stone column and granular material	Please confirm whether the length of stone column will be measured from NGL or FGL?	The length of stone column will be measured from NGL.

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A.	**TECHNICAL**				
57	Communication spec	2.1.2 Features of Transmission Equipment	-	Kindly confirm whether equipment should be STM-4 or STM-16.Also confirm MSP directions i.e. 3 MSP or 5 MSP.	STM-4 equipment upgradable to STM-16 and 3MSP directions is to be offered under this project inline with Technical Specification of the Bidding Document.
58	Communication spec	2.1.2.1 Network Monitoring (Craft terminal based)	Provision shall be there in the Local Craft Terminal for integration with full fledged NMS server	Kindly confirm if NMS is required or not. If required, confirm for how many nodes?	One NMS shall be required and installed at Hetauda or Kathmandu LDC as per requirement.
59	PLCC-Communication Spec	M)b.PBAX as per TS	IN PSR & Mandatory spares document section B-1.2 pg no. 56	Detail capacity of 4 wire Subscriber card,2 wire E&M card, E1 card is not given in technical specs.	Please refer the technical specification of the PABX system.
60	PLCC-Communication Spec	W-a	Fiber Optics Based Communication Panel, PMU panel equipment including allied equipment such as Transmission Equipment (SDH- STM 4/STM-16), Termination Equipment, Equipment Cabinets, Network Manager System -TMN - Craft Terminal Equipment both hardware/software (for SDH Equipments), Synchronization Equipment, MDF((100 pairs), FODP etc. complete in all respects as per technical specifications complete all respect.	Kindly confirm if SDH with integrated PDH is required or SDH and PDH separately required.	This is in line with technical specification, same shall be finalized during detail engineering.
61	PLCC-Communication Spec	Digital Protection Coupler		Kindly provide distribution of DTPC per SS or per link	Shall be finalized during detail engineering. Bidders are required to quote their prices for DPC as per schedule of rates and prices to complete the scope of the works as per technical specification.
62	General			Please furnish the excel sheets of price schedules, and editable copies of Bid forms.	Soft copy of price schedules and editable copies of bid forms shall be provided to the bidder who purchase the Bidding Document.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
63	SLD-400kV 400/220 kV Hetauda SS		--	In Tender SLD , Two number 400kV Dia consist of one future bay and one present scope bays each (i.e one dia configuration is Future ICT bay- Present Tie Bay-present ICT bay & other Dia configuration is Present Reactor bay- Present Tie Bay-Future ICT bay). From this Dia configuration, We understand that space for Future ICT bays GIS equipment shall be considered in present scope, however GIS equipment for these bays shall be installed in future by removing present GIS duct which shall be connected from present scope Tie bays to Bus bar. We request you to check the constructional feasibility of installation of GIS equipment in future and confirm the Dia configuration.	Bidder shall ensure the constructional feasibility of installation of GIS equipment in future ICT bays without affecting the present configuration and requested to propose accordingly.
64	Volume II, Section -6 Employers requirement, Chapter 1 400/220 kV Hetauda SS	PSR, CL-3.0/3.1/3.1.1/15	Sub-station automation system based on IEC 61850 including hardware and software for remote control station along with associated equipments for following bays (bay as defined in Technical Specification, Chapter - Substation Automation): • 400kV : 4 Line Bays, 1 ICT Bays, 1 Reactor Bays, 4 Tie Bays • 220 kV : 1 Bays (ICT Bays) • 33 kV: 1 Bays (Station Transformers Bays) • Auxiliary System: 1 Set The contractor shall also supply necessary BCU for monitoring and control of auxiliary supply including operation of Isolator associated with auxiliary transformer. The remote operation of the 400/220 kV Dhalkebar & Inaruwa substation is proposed to be done from Hetauda substation and the mode of Communication shall be Optical Fiber link.	1. We understand that optical fiber links between 400/220 kV Dhalkebar & Inaruwa substation to Hetauda substation is not in present scope of work. 2. Kindly provide the Signal details for remote operation of 400/220kV Inaruwa and Dhalkebar ss from Hetauda substation. 3. We understand that SAS(based on IEC 61850) with all necessary hardware and software for under construction 220kV Hetauda substation shall be supplied in separate package. Integration of SAS for 220 kV under construction substation with SAS for 400kV substation is present scope work. All the remote operation shall be done from SAS at 400kV system. Kindly confirm that our understanding is correct.	1. OPGW are to be installed in the Hetauda-Dhalkebar-Inaruwa 400 kV Transmission line under the separate contract. 2. Shall be finalized during detail Engineering in line the provision of technical specifications. 3. Confirmed
65	Volume II, Section -6 Employers requirement, Chapter 1	PSR, CL-3.0/3.1/3.1.1/23 400/220 kV Hetauda SS	Complete lighting and illumination of switchyard under present scope of work.	We understand that Switchyard and street light illumination shall be considered for 400kV substation under present scope of supply. Illumination for under construction 220kV Substation area is not in present scope. kindly confirm.	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
66	Volume II, Section -6 Employers requirement, Chapter 1	PSR, CL-3.0/3.1/3.1.1/23	Visual monitoring system for watch and ward of Substation premises as per Annexure-V.	We understand that VMS scope shall be considered for 400KV Substation area only. VMS for under construction 220kv Substation area is not in present scope.	Confirmed
67	Volume II, Section -6 Employers requirement, Chapter 1	PSR, Annexure-II, 1.2 Integration of SCADA of existing Substation	EXISTING SCADA & ITS DATA ACQUISITION	The 400/220kV bays at Dhalkebar substation shall only integrated into existing SCADA system of Siemens 'SINAUT Spectrum" at LDC Kathmandu or it is required to integrate all 400/220kV bays at Inaruwa and Hetauda substation also. Kindly confirm.	Please refer Addendum No.2 of the Bidding Document.
68	400KV GIS layout of Hetauda Substation	NEA-HDI-H-E-LY-01 OF 01		LT transformer location is mentioned in the drawing is far away from 167 MVA, 400/V3/220/V3/33 kV Single phase Auto Transformer. We understand that the interconnection of tertiary arrangement of Auto Transformer to LT transformer shall be through 52kV HT cable considering the other equipment arrangement shown in the layout drawing. HT cable is not considered in Price schedule. Kindly confirm.	Please refer the clarification given in S.N. 13 above.
69	Volume II, Section -6 Employers requirement, Chapter 1	PSR, CL-3.0/3.1/3.1.1/26 400/220 kV Hetauda SS	LT switchgear (AC/DC Distribution boards).	Number of outgoing feeder for LT Switch gear (MSB, ACDB, DCDB , MLDB and ELDB) shall be considered for complete 400kV Substation including future bays as mention in SLD .	Confirmed
70	Volume II, Section -6 Employers requirement, Chapter 1	PSR, CL-3.0/3.1/3.1.1/27 400/220 kV Hetauda SS	Batteries & Battery Chargers for Dhalkebar substation.	600 AH, 220 V battery and battery charger supply and installation at Dhalkebar Substation is in present scope of work. Civil works and required feeder (Both incoming and outgoing) at LT switch gear (ACDB and DCDB) for interconnection is not in present scope of work. Kindly confirm.	Please refer the clarification given in S.N. 5 above.
71	Volume II, Section -6 Employers requirement, Chapter 1	PSR, CL-19/12 400/220 kV Hetauda SS	One number each Energy meter for the record and revenue purpose is to be provided for each 400/220 bays under present scope of contract, meeting the requirement as specified at Annexure- III.	Energy meter quantity is not mentioned in price schedule. Kindly confirm the consideration of energy meter.	Please refer the clarification given in S.N. 28 & 41 above.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
72	Volume III, Schedules of rates and prices	Part-A – J and Part-A – T 400/220 kV Hetauda SS	Erection Hardware and Earthing resp.	As per Cl. J in Part-A of BPS, earthing quantity including risers has been considered. Also same has been considered in Cl. T in Part-A of BPS. Therefore earthing has been considered twice in two different heads of BPS. Kindly clarify.	Bidders are requested to quote their rates to complete the scope of contract as per the provision of the Bidding Document.
73	Volume III, Schedules of rates and prices	Part-A – T.iii 400/220 kV Hetauda SS	Equipment for lightning protection	We understand that LMs are not to be considered under this clause. Please confirm our understanding and also specify the equipments to be considered in this clause.	Lightning equipment are considered under this items expect structure for LM's.
74	Volume II, Section -6 Employers requirement, Chapter 1	Chapter-1 PSR Cl. 14 400/220 kV Hetauda SS	Tertiary auxiliary bus and delta formation	It is clearly mentioned in the given clause that due to space constraint, tertiary auxiliary bus and delta formation is not possible overhead and therefore 52kV grade cable shall be provided by contractor in present scope of work. Please be informed that 52kV grade cable is not considered in BPS. BPS CL No- J3 in part-A says that tertiary and neutral arrangement shall be done using BPI, AL tube and other accessories. Please clarify what kind of arrangement has to be made with erection and other details.	Please refer the clarification given in S.N. 13 above.
75	Volume II, Section -6 Employers requirement, Chapter 1	Chapter-1 PSR Cl. 11 in 3.0/3.1/3.1.1 400/220 kV Hetauda SS	Outer insulator housing for 400kV CVTs and Surge Arrestors, 220 kV current transformers and surge arresters, 400 kV, 220kV Bus Post Insulators shall be polymer conforming to requirements technical Specifications.	This clause mentions 220kV CT. We understand that, as per BPS and plan layout, there is no 220kV CT envisaged in present scope of work. Kindly confirm.	Confirmed
76	Volume II, Section -6 Employers requirement, Chapter 1	Chapter-1 PSR Cl. 21 in 3.0/3.1/3.1.1 400/220 kV Hetauda SS	Earth mat	We understand that earth mat is already existing in the 220kV switchyard and same has to be connected to the present scope of earth mat. Please confirm whether spacing and conductor dia of present scope earth mat has to be same as that of existing one or have to be designed by bidder. In that case, please provide the existing earth mat details as well.	The design of Earthing in the present scope of works is under the scope of contractor. The details of existing earth mat in 220kV switchyard shall be provided during the detail engineering.
77	Volume II, Section -6 Employers requirement, Chapter 1	Chapter-1 PSR Cl. 22 in 3.0/3.1/3.1.1 400/220 kV Hetauda SS	Lightning Masts	We understand that the lightning protection shall be considered for area of 400kV/220 kV extension substation under present scope bays .	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
78	Volume II, Section -6 Employers requirement, Chapter 1	Chapter-1 PSR Cl. 27 in 3.0/3.1/3.1.1 and BPS Part-A P.2 400/220 kV Hetauda SS	Battery Ratings	As per given clause in PSR, 600Ah of minimum rating has to be considered for present scope of work in Hetauda SS. But same is not mentioned in given clause of BPS. We understand that battery shall be sized by bidder however minimum of 600Ah has to be considered. Kindly confirm.	Confirmed
79	Plan layout	NEA-HDI-H-E-LY-01 400/220 kV Hetauda SS	Location of 400kV control and relay panels at Hetauda SS	Please confirm the location of control and relay panels of 400kV system. Whether they shall be placed in new control room building or a separate new room adjacent to the 400kV GIS hall.	Shall be placed in new control room building under the present scope of the contract.
80	General	400/220 kV Hetauda/ Inaruwa SS		We understand that EOT crane capacity will be decided according to the heaviest equipment of GIS, which is normally 6 Ton as per executed projects. Please confirm.	The crane for 400kV GIS hall shall have capacity of minimum 10T safe working load or as per actual requirement whichever is higher. Please refer clause 16, chapter 3-GIS Switchgear of Technical Specifications.
81	Volume III, Price Schedule 1	I.X 400/220 kV Hetauda/Inaruwa SS	EOT crane	We understand that EOT crane is Single girder instead of Double girder crane. Please confirm.	EOT crane is Single girder type in line with Technical Specification.
82	Drawings	400/220 kV Hetauda SS	GENERAL	We observed Structure drawing of Guard room, Store room, pump house & Water tank missing in bid documents. Please provide.	Guard room, Store room, pump house & Water tank is not in the present scope of contract.
83	Drawings	400/220 kV Hetauda SS	GENERAL	We observed the Contour levels of present scope of work area for both the Substations missing in bid documents. Please provide.	Detail survey is in the present scope of contract.
84	Drawings/ Report	400/220 kV Hetauda SS	Soil Investigation & Earth Resistivity Report	We observed soil investigation & earth resistivity report missing for Hetauda SS in provided tender documents. Please provide.	Soil investigation & earth resistivity is in the present scope of contract.
85	Volume III, Schedules of rates and prices	Part-B – J and Part-B – T 400/220 kV Inaruwa SS	Erection Hardware and Earthing resp.	As per Cl. J in Part-B of BPS, earthing quantity including risers has been considered. Also same has been considered in Cl. T in Part-B of BPS. Therefore earthing has been considered twice in two different heads of BPS. Kindly clarify.	Bidders are requested to quote their rates to complete the scope of contract as per the provision of the Bidding Document.
86	Volume III, Schedules of rates and prices	Part-B – T.iii 400/220 kV Inaruwa SS	Equipment for lightning protection	We understand that LMs are not to be considered under this clause. Please confirm our understanding and also specify the equipments to be considered in this clause.	Lightning Mast (LM) and associated all equipments for lightning protection except structure for the LM is considered in this clause

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
87	Volume II, Section -6 Employers requirement, Chapter 1	Chapter-1 PSR Cl. 22 in 3.0/3.2/3.2.1 400/220 kV Inaruwa SS	Earth mat	We understand that earth mat for 220kV is already existing in the 220kV switchyard and same has to be connected to the present scope of earth mat. Please confirm whether spacing and conductor dia of present scope earth mat has to be same as that of existing one or have to be calculated by bidder. In that case, please provide the existing earth mat details as well.	The design of Earthing in the present scope of works is under the scope of contractor. The details of existing earth mat in 220kV switchyard shall be provided during the detail engineering.
88	Volume II, Section -6 Employers requirement, Chapter 1	Chapter-1 PSR Cl. 23 22 in 3.0/3.2/3.2.1 400/220 kV Inaruwa SS	Lightning Masts	Please specify the area to be covered from lightning protection. Whether present scope area has to be considered only or the complete substation area.	Only present scope of work area.
89	Volume II, Section -6 Employers requirement, Chapter 1 and Volume III, Schedules of rates and prices	Chapter-1 PSR Cl. 28 22 in 3.0/3.2/3.2.1 and BPS Part-B P.1 400/220 kV Inaruwa SS	Battery Ratings	As per given clause in PSR, 600Ah of minimum rating has to be considered for present scope of work in Inaruwa SS. But same is not mentioned in given clause of BPS. We understand that battery shall be sized by bidder however minimum of 600Ah has to be considered. Kindly confirm.	Confirmed
90	Plan layout	NEA-HDI-H-I-LY-01 400/220 kV Inaruwa SS	Location of 400kV control and relay panels at Inaruwa SS	Please confirm the location of control and relay panels of 400kV system. Whether they shall be placed in new control room building or a separate new room adjacent to the 400kV GIS hall.	Separate panel room (Parts of PEB GIS Hall)
91	Plan layout and Volume II, Section -6 Employers requirement, Chapter 1	PSR CL NO- 7 in 3.0/3.2/3.2.1 400/220 kV Inaruwa SS	The under construction 220 kV substation Bus Bar Scheme is Double Main and Transfer Bus. The necessary extension, augmentation, connection and reinforcement of under construction 220 kV substation for making three(3) ICT bays with provision for future bay shall be under the scope of Contractor.	We understand from layout plan and PSR that Bus bar arrangement for 220kv substation shall be extended for 6Bays (3 Nos ICT bays under present scope and Three number future bays) in present scope and equipments to be considered for only 3nos ICT bays . Kindly confirm.	Confirmed
92	Volume II, Section -6 Employers requirement, Chapter 1	PSR, CL-24 in 3.0/3.2/3.2.1 400/220 kV Inaruwa SS	Complete lighting and illumination of switchyard under present scope of work.	We understand that Switchyard and street light illumination shall be considered for 400kV and 220kV switch yard area under present scope bays. Illumination for existing 220kV Substation area is not in present scope . kindly confirm.	Confirmed
93	Volume II, Section -6 Employers requirement, Chapter 1	PSR, CL-25 in 3.0/3.2/3.2.1 400/220 kV Inaruwa SS	Visual monitoring system for watch and ward of Substation premises as per Annexure-V.	We understand that VMS scope shall be considered for 400KV and 220kv switch yard under present scope of bays only. VMS for existing 220kV Substation area is not in present scope.	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
94	Volume II, Section -6 Employers requirement, Chapter 1	PSR, CL-27 in 3.0/3.2/3.2.1 400/220 kV Inaruwa SS	LT switchgear (AC/DC Distribution boards). As presently there were two incomer from the two 33/0.4 kV, 630 kVA LT Transformer. Under the present scope, the incomer - 2 of the Main Switch Board shall be feed from the existing 33/0.4 kV, 630 kVA station transformer connected to the tertiary of Auto Transformer	Kindly provide the existing LT switch gear boards details to check the feasibility of necessary extension / augmentation for considering feeder for present scope bays. If extension is not feasible we have to consider for new board. Kindly confirm the source of incomer for new main switch board.	The details SLD and Panel of Existing AC system shall be provided during the details engineering stage. If extension is not feasible contractor shall have to consider for new board in line with technical specifications. Incomer-2 shall be from NEW 33/0.4 kV, 630 kVA station transformer connected to tertiary of auto transformer & Incomer-1 shall be from Existing Station transformer as per the technical specification.
95	Volume II, Section -6 Employers requirement, Chapter 1	PSR, CL-16 in 3.0/3.2/3.2.1 400/220 kV Inaruwa SS	16) Sub-station automation system based on IEC 61850 including hardware and software for remote control station along with associated equipments for following bays (bay as defined in Technical Specification, Chapter - Substation Automation): • 400kV : 2 Line Bays, 3 ICT Bays, 1 Reactor Bays, 3 Tie Bays • 220 kV : 3 Bays (ICT Bays) • 33 kV : 1 Bays (Station Transformer Bay) • Auxiliary System: 1 Set The contractor shall also supply necessary BCU for monitoring and control of auxiliary supply including operation of Isolator associated with auxiliary transformer. The remote operation of the 400/220 kV Dhalkebar & Inaruwa substation is proposed to be done from Hetauda substation and the mode of communication shall be Optical Fibre link.....	We understand that SAS(based on IEC 61850) with all necessary hardware and software for under construction 220kV Inaruwa substation shall be supplied in separate package. Integration of SAS for 220 kV under construction substation with SAS for with SAS to be supplied under present scope. All the remote operation shall be done from SAS at 400kV system. Kindly confirm that our understanding is correct.	Confirmed
96	Drawings	400/220 kV Inaruwa SS	GENERAL	Kindly provide the Structure drawing of Guard room, Store room, pump house & Water tank	Guard room, Store room, pump house & Water tank is not in the present scope of contract.
97	Drawings	400/220 kV Inaruwa SS	GENERAL	Kindly Provide the Contour levels of present scope of work area for both the Substations	Detail survey is in the present scope of contract.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
98	Drawings	Inaruwa Single Line Diagram, Drg. No. NEA-HDI-I-SLD-01 of 01 & Hetauda Single Line Diagram, Drg. No. NEA-HDI-H-SLD-01 of 01		As per referred SLD, Line, Transformer & Bus reactor bay modules are connected through SF6 to Air bushing. However, there is no separate line item for SF6 to Air bushing in Bid price schedule. Kindly check & revise the schedule.	Included in the price of GIS modules as per chapter-1, PSR of Technical Specifications.
99	Drawings	Inaruwa Single Line Diagram, Drg. No. NEA-HDI-I-SLD-01 of 01		As per the referred SLD, Separate 6 core CT & 3 Core CT are shown in 400kV ICT bay. However, in cl.no. 3.2.1, 1.3, 6 Core CT shall be provided. Kindly confirm the requirement.	Please refer the Chapter 1-PSR regarding the requirement of 400 kV CTs and details of the same are provided in the Chapter 3-GIS Switchgear of the Technical Specifications.
100		Local of CRP/RTCC/PLCC Panels		Kindly clarify whether we can propose to locate of CRP & SAS/PLCC/RTCC panels in the local control room **(LCR)** adjacent to GIS building or we need to keep in the control building.	CRP & SAS/PLCC/RTCC panels shall be placed in the new control room building (to be constructed under the present scope of contract) at Hetauda Substation and CRP & RTCC panels shall be kept in Panel room (part of EB GIS Building) and SAS & Communication Panel in the control room building (to be constructed under the separate contract) at Inaruwa Substation to complete the scope of works.
101	Volume-II,Chapter-17,CRP & SAS specification	cl.no. VI, Page no. 42	VI) **CONTROL PANEL WITH BAY CONTROL UNIT (BCU):** Various types of control panels shall consist of the following: a. Bay Control Unit (BCU) — 1 set — for each Circuit Breaker b. Ethernet switch complying IEC61850 — 1 no. — for each control panel c. Selector switch for Local/Remote bay control — 1 no. — for each Circuit Breaker	As per referred clause, it is mentioned that BCU shall be provided in the Control Panel. However, We shall provide BCU along with the Control Relay Panels (CRP) and not in the control Panel (LCP) which acts as a Marshalling cubicle. Request to kindly accept.	Please refer the Clarification given in the SN. 3 above.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
102	Volume-II,Chapter -9 , Lighting system	cl.no.1.1.9 & cl.no. 1.2.1	The following specific areas are included in the scope of lighting: (i) Switchyard Area. (ii) Switchyard Control Room cum Administrative Office Building (iii) Fire fighting pump house (iv) Street lighting (peripheral) inside switchyard fencing (Street lighting shall be done using street lighting poles) v) DG area lighting vi) LT Transformer area vii) GIS Building and Indoor Switchyard Building viii) Township	As per referred clause it is mentioned that lighting shall be provided for Fire fighting area, Township area,recreation center, transit camp. However, there is no separate line item in BPS. We are not envisaging any lighting system in the above mentioned areas in our scope of work. Please confirm.	Confirmed
103	Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement	cl.no.18	Owner shall make available the auxiliary HT power supply (either 11 kV or 33 kV) from NEA on chargeable basis at a single point in the Sub-station. The prevailing energy rates of the state shall be applicable. Necessary stations transformers, metering equipment along with all further distribution from the same for construction supply shall be made by the contractor.	As per the referred clause, we understand that supply of HT Power cable (11kV or 33kV) is not in our scope of supply. The same shall be made available by NEA. Please confirm. There is no separate line item for the same in BPS.If required, Please include in BPS.	Owner shall make available the auxiliary HT power supply (either 11 kV or 33 kV) from NEA on chargeable basis at a single point in the Sub-station as per the terms and conditions of the bidding documents.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
104	Volume-II,Chapter -17, CRP & SAS specification	cl.no.18.8	The following protections shall be provided for each of the Transmission lines: For 400kV & 220kV Lines Main-I: Distance protection scheme. Main-II: Distance protection scheme Main-I & Main-II relay shall be of different make &model. Same make relay shall be acceptable only if they are of different hardware & manufacturing platform. "If specified in Chapter-PSR, Main-I and / or Main-II relay shall be provided as Line differential protection relay with built in distance function. Further, matching Line differential protection relays for remote ends shall be provided as per Bid Price Schedule (BPS)."	As per referred clause, it is mentioned that supply of Line differential relay for remote end shall be included in our scope of work. In this regard, we presume that only loose supply of Main-1 & Main-2 relays are in our scope of work. We are not envisaging the following in our scope of work: 1. Panel for mounting the relays 2. Busbar integration 3. SAS integration 4. retrofitting works If SAS & Busbar integration is in our scope of work, Kindly provide the existing make & model/Scheme, single or duplicated system of Bus bar & SAS.Please confirm.	Line differential protection relay with built in distance function is not included in the present scope of works in line with Chapter-1 PSR. The Dhalkebar and Naubise end of Line Main-I & Main-II relay will be installed under the separate contract. However, SAS & Busbar integration and retrofitting works (if required) is under the scope of work. The details of the existing system shall be provided during the detail engineering.
105	Drawings	Inaruwa Layout, Drg. No. NEA-HDI-H-E-LY-01 of 01 & Inaruwa Single Line Diagram, Drg. No. NEA-HDI-I-SLD-01 of 01		The bay arrangement in the Layout & SLD are not matching each other. Kindly check & confirm which is to followed.	The bidders have to develop the SLD and Layout in line with technical specification. The given SLD and Layout in the bidding document is only for the tender purpose only.
106	Drawings	Drg. No. HTD-SS-E-01(02) & Drg. No. NEA-HDI-H-E-LY-01		As per Drg No HTD-SS-E-01(02), 7 Nos of Single Phase Auto Trafo & 1 No of Bus Reactor is shown in present scope, however as per Drg. No. NEA-HDI-H-E-LY-01, 4 Nos of Single Phase Auto Trafo & 1 No of Bus Reactor is shown in present scope. As both the drawings are contradicting each other please confirm the actual requirement or which drawing to be consider.	4 Nos of Single Phase Auto Transformers & 1 No of Bus Reactor are under the present scope of works in line with Technical Specifications.
107	Drawings	Drg. No. HTD-SS-E-01(02) & Drg. No. NEA-HDI-H-E-LY-01		As per Drg No HTD-SS-E-01(02), 400kV GIS Building size is mentioned as 30 x 18 Mtrs , however as per Drg. No. NEA-HDI-H-E-LY-01, the same is mentioned as 94.06 x 16 Mtrs. As both the drawings are contradicting each other (width of building is different) please confirm the actual requirement or which drawing to be consider.	Please refer the clarification given in the SN. 2, above.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
108	Drawings	Drg. No. HTD-SS-E-01(02) & Drg. No. NEA-HDI-H-E-LY-01		As per Drg No HTD-SS-E-01(02), DHALKEBAR Line 1 & 2 is connecting to 220kV D/C Tower existing inside SS Boundary. However as per Drg. No. NEA-HDI-H-E-LY-01,DHALKEBAR Line 1 is connecting to proposed Auto Transformer. As the both the drawings are contradicting each other please confirm the actual requirement or which drawing to be consider. Also Please confirm that dismantling of DHALKEBAR Line 1 & 2 and 220kV D/C Tower shall be in our scope?	Under construction, 1 nos. of 220 kV line bay (AIS) (Indicated as Dhalkebar Line 1 in Drawing No. NIETTP/W/ICB/-2/SS) shall be used for 220 kV side ICT bay with necessary augmentation. Dismantling tower is not in the present scope of work.
109	Drawings	Drg. No. IRW-SS-E-01(02) & Drg. No. NEA-HDI-I-E-LY-0		As per Dwg No.s IRW-SS-E-01(02) & NEA-HDI-I-E-LY-01, The quantity of towers and bus extensions are different in each drawings. Please confirm the exact requirement.	Quantity required for the towers, beam and support structures are in MT and is included in the price schedule.
110	Drawings	Drg. No.NEA-HDI-H/I - PEB-01 OF 01 & Drg. No. NEA-HDI-H-E-LY-01 Drg. No. NEA-HDI-I-E-LY-01		As per Drg. No. NEA-HDI-H-E-LY-01, GIS Hall including Control room dimensions are mentioned as 94.060 X 16 Mtrs however as per Dwg No: The GIS Hall length is mentioned as " As per Requirement". and width is mentioned as 14.3 Mtrs. As both are contradicting each other, Kindly confirm that GIS Hall shall be optimized/ designed based on the manufacturer recommendation without any compromisation of statutory recommendations.	Please refer the clarification given in the SN. 1 & 2, above.
111	Drawings	Drg. No.NEA-HDI-H/I - PEB-01 OF 01 & Drg. No. NEA-HDI-H-E-LY-01 Drg. No. NEA-HDI-I-E-LY-01		Since, the building quantity is to be quoted on Lumpsum value, kindly confirm that the building sizes can be optimized based on the manufacturer's design of GIS modules to accommodate the required number of bays as per specification , irrespective of the sizes mentioned in drawings.	PEB GIS building sizes can be optimized based on the manufacturer's design of GIS modules to accommodate the required number of bays (present plus future) and required rooms as per technical specification.
112	Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement	Cl-3.1.1 (7)		As per referred clause it is mentioned that "400kV CVTs and Surge Arrestors (AIS type) and 220kV & 33 kV Surge Arrestors(AIS type)" However as per Drg. No. NEA-HDI-H-E-LY-01 & NEA-HDI-I-E-LY-01, 400kV Surge arresters for ICT Bays are indicated as GIS LA's. Please check and confirm the actual requirement.	Please refer the clarification given in the SN. 6, above.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
113	Volume-II,Chapter -1 , Project specific requirement & Volume III, Schedules of rates and prices	Cl-3.1.1 (15) & BPS.S.No. K.1.5,b		As per referred clause, it is mentioned that Augmentation of 220kV Busbar scheme at Hetauda substation is under present scope. Kindly provide the following details. a) Make and model no. of the existing busbar protection b) Single/Redundant busbar scheme. ii) Please clarify that peripheral units for the 220kV bays under scope of work has been already available in the existing Hetauda substation or to be provided under scope of work.	Shall be provided during detail engineering.
114	Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement	Volume-II Section-6- Employers Requirements Chapter-I,Project specific requirement, Cl-3.1.1 (19)	Fire protection system (HVW spray & hydrant system) for 4 nos. of 400/√3/220/√3/33 KV, 167 MVA, 1-Ph Autotransformers (Total Bank size 500 MVA) and 1nos. 420kV, 50MVAR Reactors including extension of main water header (available at under construction Fire Fighting Pump House).The HVWS system shall be tapped from the Existing fire water system. The tapping point location & Existing firefighting system piping layout shall be provide to the successful bidders during detail engineering. FFPH & water Tank are not envisaged in the present scope of Contract.	As per referred clause it is mentioned that "Fire protection system (HVW spray & hydrant system) for 4 nos. of 400/√3/220/√3/33 KV, 167 MVA, 1-Ph Autotransformers (Total Bank size 500 MVA) and 1nos. 420kV, 50MVAR Reactors including extension of main water header (available at under construction Fire Fighting Pump House).The HVWS system shall be tapped from the Existing fire water system. The tapping point location & Existing firefighting system piping layout shall be provide to the successful bidders during detail engineering. FFPH & water Tank are not envisaged in the present scope of Contract" Hence we are not envisaging NIFPS system for Transformer /reactor and FFPH & water Tank for HVW spray & hydrant system in our scope. Please confirm	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
115	Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement	Volume-II Section-6- Employers Requirements Chapter-I,Project specific requirement, Cl-3.1.1 (21)	The earth mat for GIS earthing and the yard earthing required as per specification is in the bidder scope. The earth mat already exist in the 220 kV switchyard area. All the AIS/GIS equipments, Transformer, Reactors shall be earthed and this earth mat shall be connected to the Existing 220 kV earth mat by the contractor. Any additional earthing materials required shall be in the present scope of work.	As per referred clause it is mentioned that " The earth mat for GIS earthing and the yard earthing required as per specification is in the bidder scope. The earth mat already exist in the 220 kV switchyard area. All the AIS/GIS equipments, Transformer, Reactors shall be earthed and this earth mat shall be connected to the Existing 220 kV earth mat by the contractor" Hence we are not envisaging Earthing calculations in our scope however proposed earthmat shall be laid as existing earthmat available at 220kV Station. Also Please provide the following details: 1) Existing Earthmat conductor size 2) Spacing between earth conductors.	Earthing design, supply, installation under the present scope of works and further connection of this earthmat to the existing earthmat is under the scope of contractor. The details of earthing design of the 220 kV Station shall be provided during the detail engineering.
116	Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement	Volume-II Section-6- Employers Requirements Chapter-I,Project specific requirement, Cl-3.1.1 (15)		As per referred clause, it is mentioned that Augmentation of 220kV Busbar scheme at Inaruwa substation is under present scope. Kindly provide the following details. a) Make and model no. of the existing busbar protection b) Single/Redundant busbar scheme. ii) Please clarify that peripheral units for the 220kV bays under scope of work has been already available in the existing Inaruwa substation or to be provided under scope of work.	Shall be provided during detail engineering.
117	Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement	Volume-II Section-6- Employers Requirements Chapter-II-GTR,Cl-4.6.3(a)		As per referred clause " System Fault level (KA) is mentioned as 63kA for HV Side of Auto Transformer However as per CHAPTER 5: TECHNICAL SPECIFICATION OF TRANSFORMER, Cl-3.6 400kV System Fault level is mentioned as 50kA. Please check and confirm the exact requirement.	400kV System Fault level is 50kA. Please read the referred clause accordingly.
118	Volume III, Schedules of rates and prices	Part C: Civil works Part A: Hetauda Substation Section A: NEA assessed quantities Item no. 17		As per referred item of the BPS, we understand that the dismantling of drain is in bidder's scope. Since drain dismantling is paid in RM, kindly provide the existing drain section in order to estimate quantities.	Please refer Drawing NEA-HDI-H-RCC-DR-01 of 01

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
119		Annex-A: Special condition for Hetauda 400kV Substation Clause no. 1.3		As per referred clause, we understand that construction of new RCC type closed drain & catch pit for entry /exit points, is included in bidder's scope. However, there is no separate item for the same in the BPS. Hence, we trust that all the civil works (excavation, PCC, RCC, Reinforcement etc.) for the RCC type closed drain shall be paid under respective unit rate items of excavation, PCC, RCC, Reinforcement etc. in the BPS. Kindly confirm.	Confirmed
120	Volume III, Schedules of rates and prices	Part C: Civil works Part A & B: NEA assessed quantities Item no. 25		As per referred item of the BPS, we understand that site levelling is in bidder's scope. If the level difference is huge, we wish to propose switchyard in multiple terraces. Kindly confirm.	Switchyard shall be in same level, multiple terraces are not allowed under the present scope of works.
121	Volume III, Schedules of rates and prices	Part C: Civil works Part A: Hetauda Substation Section A: NEA assessed quantities Item no. 25		In line with the previous query, if switchyard is proposed in multiple terraces, then retaining wall maybe required. We wish to propose RCC type retaining wall and all the civil works (excavation, PCC, RCC, Reinforcement etc.) for the RCC type retaining wall shall be paid under respective unit rate items of excavation, PCC, RCC, Reinforcement etc. in the BPS. Kindly confirm.	Switchyard shall be in same level, multiple terraces are not allowed under the present scope of works.
122	Volume III, Schedules of rates and prices	Part C: Civil works Part B: Inaruwa Substation Section A: NEA assessed quantities ; Item no: 25		As per price schedule item, filling with excavated selected earth or borrowed earth is given in Cu.m basis. We request to split the filling with excavated selected earth and filling with borrowed earth separately, as the unit price of the same would be different.	Bidders are requested to envisaged the actual site conditions and quote their rates to complete the scope of contract as per the provision of the Bidding Document.

<table>
<tr><th>S.N.</th><th>Volume / Section</th><th>Clause No.</th><th>Text as per Bid documents</th><th>Bidder's Query</th><th>NEA Clarification</th></tr>
<tr><td>A.</td><td>TECHNICAL</td><td></td><td></td><td></td><td></td></tr>
<tr><td>123</td><td>Volume III, Schedules of rates and prices</td><td>Part C: Civil works
Part A: Hetauda Substation
Section A: NEA assessed quantities, Item no: 1</td><td></td><td>The referred item covers "Excavation in all types of soils including soft/disintegrated rock including, disposal etc. for all leads and lifts".
We request to give breakup of the referred item in price Schedule as below.
Excavation including disposal etc. for all leads and lifts of :
a) Soft Soil.
b) Soft/Disintegrated Rock.
c) Hard Rock by blasting(If any)
Since the actual excavation rates would vary extensively depending on the soil/rock type.</td><td>Bidders are requested to envisaged the actual site conditions and quote their rates to complete the scope of contract as per the provision of the Bidding Document.</td></tr>
<tr><td>124</td><td>General</td><td></td><td></td><td>Please confirm the status of land availability for both substations.</td><td>Land has been already acquired by NEA.</td></tr>
<tr><td>125</td><td>General civil, Hetauda SS</td><td></td><td></td><td>As this is an expansion project, kindly provide us the existing soil report to have an idea of nature of soil in extension area.
Bearing Capacity with Water Correction Factor:
<table><tr><th rowspan="2">Depth (m)</th><th colspan="6">B. C. Values (KN/m^2) for different size of Foundation (m)</th></tr><tr><th>1.5 x 1.5</th><th>2.0 x 2.0</th><th>2.5 x 2.5</th><th>3.0 x 3.0</th><th>6.0 x 6.0</th><th>8.0 x 8.0</th></tr><tr><td>1.5</td><td>379.09</td><td>326.43</td><td>297.45</td><td>279.02</td><td>437.41</td><td>418.76</td></tr><tr><td>2.25</td><td>525.55</td><td>482.66</td><td>447.48</td><td>416.04</td><td>629.50</td><td>597.46</td></tr><tr><td>3.0</td><td>654.87</td><td>601.44</td><td>570.47</td><td>550.28</td><td>813.21</td><td>765.56</td></tr><tr><td>4.5</td><td>656.37</td><td>602.81</td><td>571.77</td><td>551.53</td><td>872.79</td><td>809.56</td></tr></table></td><td>Soil investigation is in the present scope of contract as per volume II, chapter 1, PSR, 3.1.1, 30 (n). The recommend SBC at the adjacent 220 kV Switchyard is given below for reference.</td></tr>
<tr><td>126</td><td>General civil, Hetauda SS</td><td></td><td></td><td>Kindly let us know what bidder shall do for the items which are applicable for the project and not mentioned in the BOQ.</td><td>The items which are applicable for the project and not mentioned in the BOQ are deemed to be included in the scope of contract. Bidders are requested to quote their rates to complete the scope of contract as per the provision of the Bidding Document.</td></tr>
<tr><td>127</td><td>General civil, Hetauda SS</td><td></td><td></td><td>The access road connecting substation to the nearest existing road in not included in the scope of this project, kindly confirm our understanding.</td><td>Your understanding is Correct.</td></tr>
</table>

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
128	Volume III	Price Schedule No 4. Installation. Part - C: Civil Works SECTION: A : NEA ASSESSED QUANTITIES, Hetauda SS		As per referred clause we understand that all the quantities provided by NEA are remeasurable and will be paid as per actual executed quantities.	Your understanding is Correct.
129	Volume III	Price Schedule No 4. Installation. Part - C: Civil Works SECTION:B :CONTRACTOR ASSESSED QUANTITIES, item#1, Hetauda SS & Inaruwa Substation		As per the referred clause kindly elaborate which items of the civil work will be paid separately, also kindly let us know the full form of BPS.	Please refer clause 16.0 MODE OF MEASUREMENT, Chapter 16 –Civil Works of technical Specification. BPS: Bid Price Schedule
130	Volume III	Price Schedule No 4. Installation. Part - C: Civil Works SECTION:B :CONTRACTOR ASSESSED QUANTITIES, item#2, Hetauda SS		The control building, as per the Vol. II, chapter 16 Cl#13.2 is enclosed in Pre- engineered steel structure whereas in "**Price Schedule No 4. Installation. Part - C, Civil Works SECTION:B, CONTRACTOR ASSESSED QUANTITIES, item#2**", it is mentioned that Control room is RCC building, kindly clarify the contradiction.	Please refer Volume II, Chapter-1, PSR, Cl. 3.1.1, 30, Page 13 & Volume III, Part 4C, Civil works, Part A-Hetauda Substation, Section B, Item 2. Two Story RCC control room building is in the scope contract at Hetauda Substation.
131	Volume III	Price Schedule No 4. Installation. Part - C: Civil Works SECTION: A : NEA ASSESSED QUANTITIES, item#13, Hetauda SS		As per the site visit, substation area is secured with existing boundary wall and gate. Kindly let us know where the chain link fence has to be installed.	Chain link fence has to be installed to separate the substation Yard under present scope of works within boundary. The details shall be finalized during detail engineering.
132	Volume III	Price Schedule No 4. Installation. Part - C: Civil Works SECTION: A : NEA ASSESSED QUANTITIES, item#14 Hetauda SS		As per the site visit, substation area is secured with existing boundary wall and gate. Kindly let us know where switchyard gate is located.	Shall be finalized during detail engineering.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
133	Volume III	Price Schedule No 4. Installation. Part - B: Installation SECTION: A : NEA ASSESSED QUANTITIES, item#Y PEB BUILDING, Hetauda SS		We understand that the weight of PEB steel structure is re-measureable item whereas roof and wall sheeting will be LS. Kindly confirm our understanding.	Confirmed
134	General civil, Inaruwa			Kindly let us know what bidder shall do for the items which are applicable for the project and not mentioned in the BOQ.	The items which are applicable for the project and not mentioned in the BOQ are deemed to be included in the scope of contract. Bidders are requested to quote their rates to complete the scope of contract as per the provision of the Bidding Document.
135	General civil, Inaruwa			The access road connecting substation to the nearest existing road in not included in the scope of this project, kindly confirm our understanding.	Your understanding is Correct.
136	Volume III	Price Schedule No 4. Installation. Part - C: Civil Works SECTION: A : NEA ASSESSED QUANTITIES, Inaruwa		As per referred clause we understand that all the quantities provided by NEA are remeasurable and will be paid as per actual executed quantities.	Your understanding is Correct.
137	Volume III	Price Schedule No 4. Installation. Part - C: Civil Works SECTION:B :CONTRACTOR ASSESSED QUANTITIES, item#1, Inaruwa		The control building, as per the Vol. II, chapter 16 Cl#13.2 is enclosed in Pre- engineered steel structure whereas in "**Price Schedule No 4. Installation. Part - C, Civil Works SECTION:B, CONTRACTOR ASSESSED QUANTITIES, item#2**", it is mentioned that Control room is RCC building, kindly clarify the contradiction.	Please refer Volume II, Chapter-1, PSR, Cl. 3.2.1, 31. Page 23. RCC control room building is not in the scope works at Inaruwa Substation.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
138	Volume III	Price Schedule No 4. Installation. Part - C: Civil Works SECTION:B :CONTRACTOR ASSESSED QUANTITIES, item#1, Inaruwa		As per the referred clause the control building item is missing in the price schedule 4C.	Please refer Volume II, Chapter-1, PSR, Cl. 3.2.1, 31. RCC control room building is not in the scope for Inaruwa Substation.
139	Volume III	Price Schedule No 4. Installation. Part - C: Civil Works SECTION: A : NEA ASSESSED QUANTITIES, item#13, Inaruwa		As per the site visit, substation area is secured with existing boundary wall and gate. Kindly let us know where the chain link fence has to be installed.	Chain link fence has to be installed to separate the substation Yard under present scope of works within boundary. The details shall be finalized during detail engineering.
140	Volume III	Price Schedule No 4. Installation. Part - C: Civil Works SECTION: A : NEA ASSESSED QUANTITIES, item#14, Inaruwa		As per the site visit, substation area is secured with existing boundary wall and gate. Kindly let us know where switchyard gate is located.	Shall be finalized during detail engineering.
141	Volume III	Price Schedule No 4. Installation. Part - B: Installation SECTION: A : NEA ASSESSED QUANTITIES, item#Y PEB BUILDING, Inaruwa		We understand that the weight of PEB steel structure is re-measureable item whereas roof and wall sheeting will be LS. Kindly confirm our understanding.	Confirmed
142	Volume II	PSR 2.1.1.1 V and PSR 2.1.2.1 IV		220kV Relay Panel for the LV Side of 400/220/33kV Transformer is not Mentioned in BOQ. Please clarify that need to consider in our offer	All necessary HV (400 kV), MV(220 kV) and LV(if required) Control Relay Panel are included in the present scope of the contract. Please refer Item no. K, 1.3 (Hetauda Substation) and Item no. K, 1.3 (Inaruwa Substation) in Schedule of Rates and Prices.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
143	Volume II	PSR 2.1.1.1 VI		630 KVA, LT Transformer along with 33 kV Bays, 1 Nos. for 33/0.4 KV, 630 KVA, LT Transformer. Relay panel for the same is not mentioned in BOQ, Please clarify that need to be consider in our offer	All necessary control relay panel are included in the present scope of the contract. Please refer Item no. K, 1.6 (Hetauda Substation) and Item no. K, 1.6 (Inaruwa Substation) in Schedule of Rates and Prices.
144	Volume II	PSR 2.1.1.1 & 2.1.2.1		Please provide the details for the 220kV Busbar protection at both the substation	Shall be provided during detail engineering
145	Volume II			Kindly confirm whether BCPU is acceptable for 33kV Bays.	Acceptable meeting the technical requirements of the bidding documents.
146	Volume II	PSR 1.7 (16) & PSR 1.7 (16)		Supply of Digital Protection Coupler (DPCs) & Communication equipments are not in our Scope.	Supply, installation, testing commissioning of Digital Protection Coupler (DPCs) & Communication equipments are in the scope of the works under contract in line with technical specification and Schedule of Rates and Prices.
147	Volume II	Chapter 1-PSR, 3.3.1, 18 & 3.2.1, 18		Augmentation and integration work related to SCADA System: We have not considered Integration with Control Central/Modification in SINAUT SPECTRUM in our offer, New bays/ station can not be integrated due to un-availability of 101 receiver module at control Centre. Also, Replacement of existing system with new system at control center is in process.	Please refer Addendum No.2 of the Bidding Document.
148	Volume II	PSR 7.1 & 7.2		Training: We shall consider the cost of our trainer only. Any cost pertaining to customer viz. Travelling, Boarding, Lodging, Local Conveyance, Daily Allowance etc. will be in scope of customer only.	Provision of the Bidding Documents remains unchanged.
149	Volume II	Substation Automation System		We understand that we need to offer complete SAS for bays under the present scope, which also includes BCU for auxiliary system and gateways for transmitting the data to LDC. So we assume that there shall be a separate link to transmit the data to LDC of the bays under present scope via gateways. Please confirm.	All the data of the three substation (Hetauda, Dhalkebar & Inaruwa) shall be combined at Hetauda substation and transmit to LDC via. separate link or exiting link (by combining the data) to meet the requirements of the project. The details of the same shall be finalized during detail engineering.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
150	Volume II	Substation Automation System		Further the scope includes integration of under construction SAS of 220KV bays with the offered SAS (which includes updating the database, graphic modification etc to include the existing 220KV bays data in the offered SAS. We don't envisage any modification in the existing SAS. Please confirm if our understanding is correct. If it is other way around then please confirm the make and model of the existing vendor.	The details of existing system shall be provided during detail engineering. Further, the scheme of SAS shall be finalized during the detail engineering inline with technical specifications.
151	Volume II	CRP Section 26 Busbar Protection		Kindly confirm whether Low impedance centralized busbar protection is acceptable for the 400kV System	Low impedance centralized busbar protection is acceptable for the 400kV System provided that it has enough spare for the future bays for the augmentation/extension of busbar protection in future.
152	Volume II	CRP Section 26 Busbar Protection		Kindly confirm LBB protection as inbuilt function of low impedance centralized busbar protection is acceptable	Not acceptable. Please refer 19.2, Chapter 17 –Control Relay and Protection Panels of the technical specifications.
153	Volume II	Volume -II Section-6 Clause 3.1 Subclause 1.7 Item 13 (Hetauda and Inaruwa SS)		In the referred clause its mentioned as "One nos. 630 kVA, 33/0.4 kV LT Transformer along with 72.5kV circuit breakers, isolators, earth switches, current transformers, capacitor voltage transformers, PT and surge arresters for tertiary loading as per BPS" However, these are not reflected in Single Line diagram and Layout. Please provide the revised drawings accordingly	Please quote rates as per BPS in line with technical specification, detail design and layout preparation is in the scope of contractor.
154	Volume II	Volume -II Section-6 Clause 3.1 Subclause 1.7 Item 13 (Hetauda and Inaruwa SS)		In the referred clause its mentioned as "One nos. 630 kVA, 33/0.4 kV LT Transformer along with 72.5kV circuit breakers, isolators, earth switches, current transformers, capacitor voltage transformers, PT and surge arresters for tertiary loading as per BPS" Please clarify the source supply for the 33KV since there is not 33kV Bus in the existing Hetauda 220kV SS	Tertiary of Auto Transformer shall be the source of 33/0.4 kV, 630 kVA LT transformer.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
155	Volume II	Volume -II Section-6 Clause 3.1 Subclause 1.7 Item 13 (Hetauda and Inaruwa SS)		In the referred clause its mentioned as "One nos. 630 kVA, 33/0.4 kV LT Transformer along with 72.5kV circuit breakers, isolators, earth switches, current transformers, capacitor voltage transformers, PT and surge arresters for tertiary loading as per BPS" Please clarify the requirement and purpose of 72.5kV equipment for the 33kV Feed for LT transformer	LT Transformer shall be connected from tertiary of 315 MVA/(500 MVA, 3-phase Bank) Transformers and its highest system voltage shall be taken as 52 kV, thus to meet this requirement requirement 72.5kV equipment are used for the 33kV Feed for LT transformer.
156	Volume II	VOLUME II, CHAPTER-1, Clause 2.1.1.1-vi, Hetauda SS and VOLUME II, CHAPTER-1, Clause 2.1.2.1-v, Inaruwa SS		At Hetauda Substation, under the reference clause it is mentioned that: "630 KVA, LT Transformer along with 33 kV Bays, 1 Nos. for 33/0.4 KV, 630 KVA, LT Transformer" It is not clear if this is required scope or existing scope noting that the called LT transformers and 33KV bays are not shown in the SLD and even the quantities are not clear, please give full details about the item components.	LT Transformer shall be connected from tertiary of 315 MVA/(500 MVA, 3-phase Bank) Transformers. Thus, Bidders are requested to quote the rates to complete the scope of works in line with technical specifications.
157	Volume II	VOLUME II, Price Schedule 1, Part A: Hetauda Substation, Item# K.1.5.b page 8 of 105		At Hetauda substation, It is required: "Augmentation of existing 220 kV bus bar protection scheme (For 1 Nos. of ICT bays as specified)" Please provide the existing 220KV bus bar protection make/type.	Shall be provided during detail engineering
158	Volume II	VOLUME II, Price Schedule 1, Part B: Inaruwa Substation, Item# K.1.5.b page 20 of 105		At Inaruwa substation, It is required: "Augmentation of existing 220 kV bus bar protection scheme (For 3 Nos. of ICT bays as specified)" Please provide the existing 220KV bus bar protection make/type.	Shall be provided during detail engineering
159	Volume III	Chapter 1, PSR		The function of CSD and PIR are repeated, CSD is enough, we assume PIR is not necessary, please confirm it.	Shall be as per chapter-1- Project Specific Requirement, clause 3.1.1, 2, page 7 & 3.2.1, 2, page 17 of the bidding documents.
160	Volume III	Chapter-3, GIS-Switchgear		Online Monitoring System: a. UHF partial discharge online monitoring system is mentioned in technical specification, but we can't find it in BOQ, we assume it is necessary, please confirm it. b. SF6 gas online monitoring system is mentioned in technical specification of SCADA, but we can't find it in BOQ, we assume it is necessary, please confirm it.	Online line Monitoring System (including UHF partial discharge online monitoring system and SF6 gas online monitoring system) is required and their price included in the respective GIS Module in line with Module description given at Chapter 1, PSR of the technical specification. Thus, Bidders are requested to quote their prices accordingly.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
161	Drawings			The technical data of CT coil is not mentioned in related drawings, please confirm it.	Please refer volume II, Chapter 3, Annexure-3, Page 55 & 56 and Chapter 1-PSR of the technical specification.
162	Drawings			The length of 400kv GIB is not mentioned in related drawings, please conform it.	SF6 Gas Insulated Bus Duct (GIB) total length is as per schedules of rates and prices.
163	Drawings			The supply scope and component parameters of 220kV extension part are not mentioned in main wiring diagram, please confirm it.	220kV extension and augmentation scope is as per BPS and technical specification. Thus, Bidders are requested to quote their prices accordingly.
164	Drawings			We assume the ICT bay in square frame in main wiring diagram of Hetauda Substation is reserved for future, the supply scope of TIE bay between reactor bay and ICT bay is not clear, please confirm it and the meaning of the square frame.	The supply and installation of TIE bay between reactor bay and ICT bay is in the present scope of contract. Please refer volume II, Chapter 1, PSR, Clause 3.1.1 (1.5 & 1.6), page no. 5 & 6 of technical specification. Further, bidders shall ensure the constructional feasibility of installation of GIS equipment in future ICT bays without affecting the present configuration and requested to propose accordingly.
165	Drawings			The dimension of GIS building is not clear, please confirm it.	Please refer the clarification given in SN. 1 & SN 2 above.
166	Volume 2 of 3, Chapter 5-Auto Transformer	1. General	1.2 "Necessary provision is to be kept in the transformer control scheme for parallel operation with the existing OLTC control scheme having provision of Master/Follower/Independent /off operation etc. "	Bidder understands that parallel operation of transformers is envisaged only for transformers being supplied under this contract and no parallel operation with any other current transformers is required. Please confirm.	Confirmed
167	Volume 2 of 3, Chapter 13- Battery	1.1 GENERAL TECHNICAL REQUIREMENTS	"Breaker closing, Tripping loads (taking simultaneous occurrence as per system)"	The bidder understands that simultaneous occurrence as two number breaker trip operations. Please confirm.	Confirmed
168	Volume 2 of 3, Chapter 13- Battery	1.2 BATTERY	Air-conditioning shall be provided in Battery room the requirement of which has been specified elsewhere in the Technical Specification.	The bidder understands that air conditioning system in battery room is not a normal practice and battery performance can be achieved with forced ventilation system instead. Hence, no air conditioning considered. Please confirm. In case air conditioning system is required, please amend the price schedule with requirement and quantity.	Air-conditioning shall be provided in Battery room. Please refer volume III, Schedule 1, Part A and Part B, R of the Schedule of Rates and Prices.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
169	Volume 2 of 3, Chapter 8- LT Transformer	10.0 TECHNICAL SPECIFICATION	Impedance at 75 Deg C=0.05%	The bidder understands that required impedance is a typographical error. Please correct and provide revised requirement.	Impedance at 75 Deg C=5%. Bidders are requested to correct and understand accordingly.
170	Volume 2 of 3,	35. RELAY Test KIT	35.1. One relay test kit shall comprise of the following equipment as detailed here under 3 sets Relay tools kits 2 nos. Test plugs for each type of TTB 2 nos. Test plugs for using with modular type relays (if applicable)	In absence of any clear specification bidder understand that relay test kit means: 3 Nos Relay tools kits 2 nos. Test plugs for each type of TTB 2 nos. Test plugs for using with modular type relays Please confirm	Confirmed
171	LAYOUT Drawing No NEA-HDI-H-E-LY-01 OF 01 & NEA-HDI-I-E-LY-01 OF 01			With reference to the drawing bidder understands that Future extension of GIS (if any) is not a part of present scope hence no hardware (if any) to be considered for the same. Please confirm	The Isolating link for future extension of Bus bar module (on one side) for the future expansion of GIS shall be considered.
172				Bidder requests substation layout with position of CCTV cameras	Shall be finalized during detail engineering
173	Volume 3 of 3, Price Schedule 1; Price Schedule 2	o) LT Switchgear	a) 400V Main switchboard : 1 Set b) 400V ACDB: 1 Set c) 400V MLDB: 1 Set d) 400V Emergency LDB: 1 Set e) 220V DCDB: 1 Sets f) 48/50V DCDB: 1 Sets	The bidder understands that "set" implies "unit/nos." for the stated line items.	"set" implies "unit/nos." required to complete the mentioned scope of work in TS
174	Volume 3 of 3, Price Schedule 1; Price Schedule 2			As per scope of work, inverter is required for SAS system. However, the requirement is not available in price schedule. Bidder requests NEA to amend the price schedule along with quantity. Also the same will be without any separate battery system. Please confirm	The supply and installation of inverter required for SAS system is deemed to be included in scope of work and Bidders are requested to quote the rate for the same under SAS system to complete the scope of the works.
175	Volume 3 of 3, Price Schedule 1; Price Schedule 2; Volume 2 of 3, Annexure 1	**Part A: Hetauda Substation** **Part B: Inaruwa Substation**	Z) MANDATORY SPARES	The bidder understands that "set" implies "unit/nos." for the stated line items.	"set" implies "unit/nos." required to complete the mentioned scope of work in TS

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
176	Volume 3 of 3 Price Schedule 1; Price Schedule 2; Volume 2 of 3 Annexure 1	**Part A: Hetauda Substation** **Part B: Inaruwa Substation** Z) MANDATORY SPARES	11.0 Fire Fighting System 11.1.5 Electrical Control Panel: Annunciation printed circuits (solid state annunciations) in Control Panel **1 Set** 11.1.6 Strainer **1 Set**	The bidder understands that "set" implies "unit/nos." for the stated line items. Please confirm.	"set" implies "unit/nos." required to complete the mentioned scope of work in TS
177	Volume 3 of 3, Price Schedule 1; Price Schedule 2; Annexure 1	**Part A: Hetauda Substation** **Part B: Inaruwa Substation** Z) MANDATORY SPARES	6.0 420 kV 50MVAR Bus Reactor 6.3 Local and remote WTI complete unit with sensing devices and contacts **1 Set** 6.4 Local and Remote OTI complete unit with contacts and sensing bulbs **1 Set** 6.8 Flexible air cell **1 Sets** 6.9 Neutral Current Transformer **2 Set** 7.0 Breather assembly **2 Set** 7.2 Sets of fuses of each type used **3 Set** 10.13 Oil pumps with motor & starter **1 Set**	The bidder understands that "set" implies "unit/nos." for the stated line items. Please confirm.	"set" implies "unit/nos." required to complete the mentioned scope of work in TS
178	Volume 3 of 3, Price Schedule 1; Price Schedule 2; Annexure 1	**Part A: Hetauda Substation** **Part B: Inaruwa Substation** Z) MANDATORY SPARES	9.0 630 KVA Transformer 9.2 Oil Temperature Indicator with sensing device **1 Set** 9.3 Tap Changer Contacts **1 Set** 9.6 Set of valve (each type) **1 Set**	The bidder understands that "set" implies "unit/nos." for the stated line items. Please confirm.	"set" implies "unit/nos." required to complete the mentioned scope of work in TS
179	Volume 3 of 3 Price Schedule 1; Price Schedule 2; Volume 2 of 3, Annexure 1	**Part A: Hetauda Substation** **Part B: Inaruwa Substation** Z) MANDATORY SPARES	13.0 LT Switch Gear 13.1 Relays Set 1 13.2 CTs and PTs **1 Set** 13.3 Switches/ Push buttons and Meters **1 Set** 13.4.A TPN Switches / MCB **1 Set** 13.4B MCCB of each rating **1 Set** 13.5 LT Breaker Spares : 13.5.2 Aux. Contact sets **2Set** 13.5.4 Arc Chutes **2 Set** 13.5.5 Moving contacts **1 Set** 13.5.6 Arcing contacts (Fixed/Moving) **1 Set** 13.5.10 Aux. finger contact **1 Set** 13.5.11 Limit Switches **1 Set** 13.5.12 Jaw Contacts **1 Set**	The bidder understands that "set" implies "unit/nos." for the stated line items. Please confirm.	"set" implies "unit/nos." required to complete the mentioned scope of work in TS

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
180	Volume 3 of 3, Price Schedule 1; Price Schedule 2; Volume 2 of 3, Annexure 1	**Part A: Hetauda Substation** **Part B: Inaruwa Substation** Z) MANDATORY SPARES	2 TR Split AC Units 1 LS 15.1 High wall type split A/C System 2 **Set**	(i) Bidder understand that Air conditioning system to be provided only in control room. Ventilation of other area such as GIS room/cable seller will be done by exhaust fan only. (ii) The bidder understands that "set" implies "unit/nos." for the stated line items. Please confirm.	(i) Air conditioning system shall be provided for LCC room of GIS Hall, Battery Room, Panel room cum administrative building. Ventilation system for 400 kV GIS Hall Building (ii) "set" implies "unit/nos." required to complete the mentioned scope of work in TS
181	Price Schedule 1; Price Schedule 2			The price schedule does not contain energy/tariff meters. Bidder requests to clarify the scope of work and amend the price schedule with quantity of energy meters required.	Please refer the clarification given in S.N. 28 & 41 above.
182	Volume 2 of 3, CHAPTER – 1	PROJECT SPECIFIC REQUIREMENTS (PSR)		Bidder understands that energy/tariff meters for 400kV and 220kV voltage level can be housed in a single panel. Please confirm.	Shall be discussed during detail engineering
183	General			Bidder requests for detailed technical specifications of CT housed in 315MVA 400/220kV auto transformer bushings.	CT specification as per volume II, Chapter-5, Annexure-G
184	General			Bidder requests for detailed technical specifications of CT housed in shunt reactor bushings.	CT specification as per volume II, Chapter-6, Annexure-G
185	General			Bidder understands that no civil work, i.e. cable trench, transformer foundations, Gas insulated bus duct foundations, tower/equipment foundations etc. for future scope of work is to be executed under the current contract.	Confirmed
186	Volume 3 of 3, Price Schedule 4 (Part C)	Civil Works	**Part A: Hetauda Substation** Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts 12,500 Cu.Mtr. **Part A: Inaruwa Substation** Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts 17,500 Cu.Mtr.	Bidder understands that actual quantity for land development during execution will be paid by the employer. Please confirm.	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
187	Volume 3 of 3, Price Schedule 4 (Part C)	Civil Works	**Part A: Hetauda Substation** Earth work in cutting & Filling and in filling with borrowed earth including site clearing and contour survey work. 3,500 Cu.Mtr **Part A: Inaruwa Substation** Earth work in cutting & Filling and in filling with borrowed earth including site clearing and contour survey work. 50,000 Cu.Mtr	Bidder understands that actual quantity for land development during execution will be paid by the employer. Please confirm.	Confirmed
188	General			Bidder understands that existing pump house including water tank and associated pumps and accessories are completely functional and any work in the existing fire fighting system is not in scope of work. Only extension for the present scope to be considered. Please confirm.	Confirmed
189	General			Bidder requests for detailed drawings for existing fire fighting system indicating the distance of nearest available tapping point.	Shall be provided during detail engineering
190	General			Bidder understand that smoke detection system is required only for control room. Please confirm.	Confirmed
191	General			Bidder requests tender layout for fire detection and alarm system.	Shall be developed by the Contractor during the detail engineering.
192	Volume 2 of 3, NEA-HDI-H-E-LY-01 OF 01 NEA-HDI-I-E-LY-01 OF 01	400kV GIS LAYOUT OF HETAUDA SUBSTATION 400kV GIS LAYOUT OF INARUWA SUBSTATION		Bidder understands that tower and gantry structure for future line bays is not in current scope of work. Kindly confirm.	Confirmed. However, due to space constraint at Hetauda Substation, if required two level gantry structure shall be considered and same deem to be included in the present scope of the contract.
193	NEA-HDI-H/I - CT-01 OF 05 (1 to 5)	Detail for cable trench sections		Scope of work specifies earthing conductor material as copper while the cable trench drawing specifies MS Flat as earthing material. Bidder understand that MS/GI flat/rod to be used for all earthing works. Please confirm.	Earthing conductor material shall be a Copper as per Technical Specification. Bidders are requested to correct the drawings
194	General			Bidder understands that line side hardware and disc insulators including shield wire etc shall be provided by line side contractor/customer. Please confirm.	Please, refer the clause 10, Chapter 1-PSR of the Technical Specification.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
195	General			Bidder understand that integrated panel for Protection & Control can be considered. Please confirm.	Shall be as per volume II, Chapter 17- Control Relay Panel of the Technical Specification.
196	General			Bidder understand that integration with existing SAS will be in present scope. Hence similar/compatible software/hardware to be provided under present scope. Kindly confirm.	Confirmed. The details shall be provided during the details engineering.
197	General			Bidder understands that any work related to remote 400kV end is not in the scope of work. Please confirm.	The scope shall be as per the provision of the Bidding Document.
198	Chapter 1- Project Specific Requirement/Clause 30- Civil Works		Civil works - The scope of work shall include but shall not be limited to the Following– Design, Engineering and civil work (as per Contractor supplied drawings) for:	We understand that Drawings provided by NEA for roads,drain,cable trench,Fire fighting pump house,water tank,Control room etc. shall be followed by bidder.Same need not to be designed again by us.Please confirm.	The drawings provided are for tender purpose only. Contractor need to design again and submit for employer's approval.
199	Chapter 1- Project Specific Requirement/Clause 31-Civil Works-m		As per the Soil Investigation works carried at 400 kV substation site, liquefaction susceptibility is seen up to 7.0m depth. To avoid the same, gravel pile/stone columns at specified spacing shall be provided beneath the foundation of structures up to 7.0 m deep from virgin soil for the stabilization of the structure/building foundation area as per the technical specification is also included in the present scope of works.	We understand that this requirement is specifically mentioned for Inaruwa site. Same is not required for Hetauda site. Normal foundations shall be provided for Hetauda station. Please confirm.	Soil investigation is in the scope of the contractor at Hetauda substation. Accordingly foundation shall be designed by Contractor as per soil investigation report.
200	Chapter 1- Project Specific Requirement/Clause 31-Civil Works-p		Slope protection of the filling area as per technical specification shall be also included in the present scope of works.	We understand that this requirement is specifically mentioned for Inaruwa site. Same is not required for Hetauda site. Please confirm.	Confirmed
201	Chapter 1- Project Specific Requirement/Clause 5- Civil Works		The conditions of roads, capacity of bridges, culverts etc. in the route shall also be assessed by the bidders. The scope of any necessary modification/ extension/ improvement to existing road, bridges, culverts etc. shall be included in the scope of the contractor and deem to be included in the contract price.	a) Approach road till the sub-station boundary has been mentioned in specific exclusions. Please confirm. b) Any type of Permission/liasoning required for approach road works/strengthening etc. shall be taken care by NEA only. Please confirm.	a) Confirmed b) Permission/liasoning required for approach road works/strengthening etc. for transportation shall be taken care by Contractor in line with provision of the bidding documents.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
202	Chapter 16/Civil Works/Annexure - A/Clause No. 1.3		Construction of New RCC Drain	We understand that new drain construction required in this description shall be paid under Item no. 19 of Civil Bill of Quantities. Please confirm.	Please refer the clarification given in the SN. 119 given above.
203	Chapter 16/Civil Works/Annexure - A/Clause No. 1.3		Dismantling of existing RCC drain and removal of hume pipe	a) Request NEA to share the drawing for existing RCC drain section and hume pipe with us. b) Request NEA to provide us the location for disposal of dismantled material.	a) Please refer Drawing NEA-HDI-H-RCC-DR-01 of 01 b) Shall be finalized during detail engineering in line with terms and conditions of the contract.
204	Soil Test report-Inaruwa		Boring or drilling of 700mm dia. bore for stone column as per IS:15284(pt-1):2000 by means of auger or bailer casing method either mechanically or manually, including all labour T&P, bentonite or temporary casing ,all materials etc. complete as per site condition upto a depth of 7.0m from NGL shall be measured in running meter.	Stone Piling has been proposed in the soil report for Inaruwa station till 7m. Bearing capacity improvement/change after providing stone piling has not been provided in report. Request customer to provide us the same to check for foundation type/sizes.	Those soil types in which the designed foundation pressure are not matched with the allowable original B.C. values then adopt either changing the another foundation type or changing the soil to make improvement in B.C. in line with recommendation of the Geotech Consultant. If Bidder proposed those method of soil improvement than associated cost of same including revised soil test after improvement must be included in their Bid Price. Please refer clause 12 (vi) of Conclusion and recommendation of the Soil Test report of the Inaruwa Substation.
205	Soil Test report-Inaruwa		Boring or drilling of 700mm dia. bore for stone column as per IS:15284(pt-1):2000 by means of auger or bailer casing method either mechanically or manually, including all labour T&P, bentonite or temporary casing ,all materials etc. complete as per site condition upto a depth of 7.0m from NGL shall be measured in running meter.	We understand that in case the proposed method of gravel/stone piling is not suitable/sufficient to provide the desired bearing capacity or otherwise,bidder can propose alternative method of foundations/piling. And same shall be paid as extra item if it is not there in present Bill of Quantities. Please confirm.	The ***alternative proof method of gravel/stone piling shall be acceptable*** in line with recommendation given in the soil investigation report and deem to be included in the respective schedule of rates of prices of the Bidding Document.
206	General-Approved Brand list			Request NEA to provide us list of approved brands for cement,reinforcement steel,structural steel,tiles and sanitary items.	No approved brands. Bidders shall propose and get tested in the presence of Employer/Consultant Representative inline with Technical Specifications.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
207	General-Approved List of vendor	Substation Automation system (SAS), Relays, Energy meter (Control and Protection Panel)		Request NEA to provide us the list of recommended Manufacturers for Substation Automation system (SAS), Relays, Energy meter (Control and Protection Panel) that they are already used in their Grid Substation which help bidders as well as NEA for future maintenance, support service as well as operations of the System.	NEA preferred manufacturers for Substation Automation system (SAS), Relays, Energy meter (Control and Protection Panel) are ABB; Siemens; GE; SEL or Bidders shall propose Equivalent other manufacturers meeting the qualification criteria of the Section 3- Evaluation and Qualification Criteriaof the Bidding Documents.
208	General-Site office			We understand that space for site office and stores for both the stations - New and Extension shall be provided to us near the area under present scope of works.Please confirm.	Please refer volume II, Chapter 1, PSR,Clause 8 of Technical Specifications.
209	General-Hindrance Register			Hindrance register shall be maintained by us at site which shall include the delays due to force majures,natural calamities etc. and extension/compensation shall be provided to us for the same.	Provision of the Bidding Documents remains unchanged.
210	General-RMC			We understand that RMC shall be allowed for construction purpose.Plesae clarify.	Shall be as per the provision of the Bidding Documents.
211	Site visit-Boundary/Retaining Wall for Hetauda			Since Land filling is required in Hetauda station,retaining wall or slope protection may also be required to retain the same. Or Boundary wall can retain the same.Please confirm. If yes, then item for same is not there in BOQ.Please incorporate.	Shall be Finalized during the detail engineering.
212	Site visit-Control Room for 400kV station			As per specifications, control room shall be RCC building.Please confirm if we can provide PEB building for control room as well.	RCC control room Building is under the present scope of works at Hetauda Substation.
213	Site visit-Construction Shed at Inaruwa			During site visit,we found construction sheds on site.Please confirm if NEA will allow us to use for construction/storage yard purpose.	Provisions in bidding document remains unchanged
214	Site visit-Land acquisition			Please confirm that land/area under present scope has already been acquired by NEA.	Land has been acquired by NEA
215	Site visit-Rerouting of transmission line			During site visit,we found that transmission line is passing through proposed Inaruwa station site. Please confirm if NEA will reroute the line before handing over the site to bidder.	The present area of construction is far (i.e. in safe distance) from the mentioned transmission line.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
216	Volume iii, General			We understand that at Inaruwa only 1 No. auxiliary trafo of 630KVA is present in the scope,the second incomer will be from the existing aux trafo.kindly confirm.	Confirmed
217	Scope of work, General			We understand the connection including the cables and terminations from the existing aux trafo is in the present scope, kindly confirm.	Confirmed
218	Scope of work, General			We understand that the AC/DC supply for 3 nos of 220kV bays will be provided from the existing ACDB/DCDB.Kindly confirm	From existing ACDB/DCDB or if required, from augmented ACDB/DCDB. Shall be finalized during the detail engineering.
219	Scope of work, General			We understand that no panel rooms are envisaged for the present 220kV bays and the same will be placed in the existing panel rooms, kindly confirm	Confirmed. However, if there is a space constraint at existing panel room, same shall be placed along with 400 kV C&R Panel Rooms.
220	SLD Drawing No NEA-HDI-H-SLD-01 OF 01			We understand that aux bus has to be provided in the GIS portion for ICT switching ,kindly confirm.	Confirmed
221	Scope of work, General			we understand that only the switching circuit at 220kV to connect the spare ICT is in present scope of supply,kindly confirm	As per volume II, Chapter 1- PSR, 3.1.1, 8, Page 8 of the
222	Scope of work, General			We understand that the tertiary bus to connect the station transformer is in present scope of supply,kindly confirm	Confirmed
223	Scope of work, General			We understand the connection including the cables and terminations from the existing aux trafo is in the present scope,kindly confirm.	Confirmed
224	Vol-II	Layout	400kV GIS Layout of Hetauda Substation (Dwg. No. NEA-HDI-H-E-LY-01 OF 01	We understand that the the terminal point of 220kV Auto-transformer bay shall be the anchoring point for the ACSR conductor to the existing Gantry of transfer bus of existing 220kV bay. Please confirm.	Confirmed
225	Vol-II	Layout	400kV GIS Layout of Inaruwa Substation (Dwg. No. NEA-HDI-H-E-LY-01 OF 01 And Chapter-1, Cl. No. 3.2, 400kV Inaruwa GIS Substation, Sl. No. 7) …extension, augmentation, connection, reinforcement of under construction 220kV substation….	According to the Inaruwa existing approved layout (Dwg. No. IRW-SS-E-01(02)),three spare vacant bay have been considered. However, as pre the present layout, the proposed three nos. 220kV bay are located beyond the three vacant bay. Please confirm, whether these vacant bay to be considered or not.	Vacant bay need to be considered as per layout given in the Bidding Documents.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
226	Vol-III	Price Schedule-1	Part A : Hetauda Substation 1 g) 1 Phase SF6 Gas Insulated Bus Duct (GIB) for inter-connection between GIS busbar and outdoor equipment along with support structure 4000A - 750M 2000A - 300M	We understand that the GIB length given in price schedule is the total length including indoor and outdoor GIB. Please confirm.	GIB length given in price schedule is the total length of outdoor GIB
227	Vol-III	Price Schedule-1	Part B : Inaruwa Substation 1 g) 1 Phase SF6 Gas Insulated Bus Duct (GIB) for inter-connection between GIS busbar and outdoor equipment along with support structure 4000A - 750M 2000A - 450M	We understand that the GIB length given in price schedule is the total length including indoor and outdoor GIB. Please confirm.	GIB length given in price schedule is the total length of outdoor GIB
228	Vol-II	Chapter-2, Clause 4.6.1, System Parameter	Minimum Creepage 25mm/kV	We understand that the Creepage distance to consider is 25mm/kV. Please confirm.	25mm/kV is the minimum creepage distance to be consider, however for the specific voltage level please refer Chapter-2, Clause 4.6.1, System Parameter for the creepage distance to be consider.
229	Vol-II	Soil Test Report	Soil Test Report for Inaruwa given	Please also provide the Soil Report of Hetauda Substation.	Soil investigation is in the scope of contract as per volume II, Chapter 1, 3.1.1, 30(n)
230	Vol-II	CVTs / EMVTs	As per Single Line Diagram - CVT is used. However, as per Specification - EMVT are mentioned.	Please confirm your actual requirement, whether, CVT or EMVT to consider.	Please refer clause 4.0 VOLTAGE TRANSFORMERS, Chapter 4 – Outdoor Switchgear for AIS type Voltage Transformer and 9.2. VOLTAGE TRANSFORMERS, chapter 3 – GIS Switchgear for GIS type Voltage Transformer of Technical Specification.
231	Vol-II	Electrical Layout Plan	400kV GIS Layout of Hetauda Substation (Dwg. No. NEA-HDI-H-E-LY-01 OF 01)	We understand that the dimension of GIS hall shall be as per the GIS requirement according to SLD (Drg. No. NEA-HDI-H-SLD-01 OF 01). Please confirm.	The size of the 400 kV GIS hall shall be as per Clause 31, a) , Page 23, of the Volume-II,Section-6-Employers Requirements, Chapter -1 , Project specific requirement of Bidding Documents.
232	Vol-II	Electrical Layout Plan	400kV GIS Layout of Hetauda Substation (Dwg. No. NEA-HDI-H-E-LY-01 OF 01)	As per the layout, the new 220kV Auto-transformer bay will be connected to the existing line side beam of Transfer bus. Please confirm.	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
233	Vol-II	Electrical Layout Plan	Drawing No. HTD-SS-E-01(02), approved Hetauda substation layout.	According to this layout, the new 220kV Auto-transformer bay will be connected to the existing 'Dhalkebar Line I' bay. We understand that the existing line will be dismantled and existing line side equipment will be removed. We also understand that the work of dismantling of line, its hardware and line side equipment is not in bidder's scope. Please confirm.	The necessary augmentation, connection and reinforcement to use the existing 220 kV Lines bays as ICT bays shall be under the scope of Contractor. Please refer the clause 7, page 7, Chapter 1-PSR of the Technical Specifications.
234	Vol-II	Electrical Layout Plan	Drawing No. HTD-SS-E-01(02), approved Hetauda substation layout.	According to the existing layout, provision for 7 nos. ICTs and one no. Bus reactor are mentioned. However, as per present layout (dwg. No. NEA-HDI-H-E-LY-01 OF 01) only provision for 4 nos. ICT and one no. Bus reactor has been provided. We understand as per the present scope document provision of 4 nos. single phase auto transformer to consider along with one no. Bus reactor. Please confirm.	Confirmed
235	Vol-II	Electrical Layout Plan	400kV GIS Layout of Hetauda Substation (Dwg. No. NEA-HDI-H-E-LY-01 OF 01)	We understand that the dead end Gantry for 400kV Dhalkebar line and 400kV Naubise line is under present bidder's scope. Two nos. spare gantry adjacent to the Naubise line shall be not in under present scope of work. Please confirm.	Confirmed
236	Vol-II	Electrical Layout Plan	400kV GIS Layout of Inaruwa Substation (Dwg. No. NEA-HDI-H-E-LY-01 OF 01)	We understand that 400kV Gantry to be considered for three nos. Auto-Transformer bay, one no. Bus Reactor bay and for two nos. 400kV Dhalkebar Line bay. Spare Gantry for Future line bays and spare gantry adjacent to the Bus Reactor bay not to be considered. Please confirm.	Confirmed
237	Vol-III	Price Schedule-1	Sl. No. 1 P.1, Battery & Battery Chargers (To be installed at Dhalkebar Substation).	We understand that 2 Nos. battery and 2 Nos. battery charger as per Price Schedule, shall be installed inside the Hetauda Control Room and not at Dhalkebar Substation. Please confirm.	Battery and Battery charger as mentioned in price schedule shall be supplied and installed at Dhalkebar substation
238	Vol-II	Price Schedule-1	Sl. No. 1 D 1, 630KVA, 33/0.4kV, Hetauda Substation	Please confirm the location of 630KVA transformer and its connectivity arrangement with Auto-transformer.	Shall be discussed during detail engineering

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
239	Vol-II	Chapter 1, Project Specific Requirement	Cl. No. 3.1.1, 14) Due to space constraint, tertiary auxiliary bus & delta formation of auto-transformer is not possible by overhead Al-tube arrangement, same shall be done by using 52kV XLPE cable and deem to be included in the present scope of contract.	As per Price Schedule 1, Part A, Hetauda Substation, J3 - *For spare unit of 400/220/33 kV auto transformer connection through auxiliary buses (tertiary & Neutral auxiliary buses only), Neutral formation and delta formation (for one bank): Required 72.5 kV BPI for tertiary auxiliary bus & delta formation, 36 kV BPI for Neutral formation & Neutral auxiliary bus including Al tube, bus-bar materials, clamps, spacers, connectors, including equipment connectors, support structures.* There is discrepancy regarding the neutral formation and delta formation of Auto-transformer from the Price Schedule and Chapter 1 of Project Specification Requirement. Please confirm your actual requirement. If there is a requirement of 52kV XLPE cable, please include the same in the Price Schedule along with its type and size requirement.	Please refer the Clarification given in the SN. 13, above.
240	Vol-II	Chapter 1, Project Specific Requirement	Cl. No. 3.1.1, 21) Earth mat for GIS earthing….The earthmat already exist in the 220kV Switchyard area….	Please provide the existing earthmat layout of both Hetauda Substation and Inaruwa Substation.	Shall be provided during detail engineering
241	Vol-II	Chapter 1, Project Specific Requirement	Cl. No. 1.2 Associated Transmission system: i. Dhalkebar - Hetauda line ii. Dhalkebar - Inaruwa line iii. Naubise - Hetauda line	We understand that the line work is not under present scope of work.	Your understanding is correct
242	Vol-II	Layout	400kV GIS Layout of Hetauda Substation (Dwg. No. NEA-HDI-H-E-LY-01 OF 01)	We understand that the GIS layout are tentative. Bidder to prepare the layout as per SLD requirement. Please confirm.	Confirmed
243	Vol-II	Layout	400kV GIS Layout of Inaruwa Substation (Dwg. No. NEA-HDI-H-E-LY-01 OF 01)	Please provide the co-ordinate / dimension of the two nos. 400kV Dhalkebar Line I and Line II.	Shall be provided during detail engineering
244	Vol-II	PROJECT SPECIFIC REQUIREMENTS (PSR), 400KV Hetauda Clause 15:	Sub-station automation system = " integrate SAS with the under construction Substation Automation System including up-dation of system database, displays, and development of additional displays and reports as per requirement. For under construction 220 kV low impedance Bus bar protection shall be used"	We understand that busbar protection is to be provided for under construction 220 kV bays in addition to new 400 kV bays. Please confirm.	Busbar protection is to be provided for new 400 kV bays and extension/augmentation works of the busbar protection of under construction 220 kV bays are included in the present scope of the works in line with technical specifications.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
245	Vol-II	PROJECT SPECIFIC REQUIREMENTS (PSR), 400KV Hetauda, Clause 17:	These monitoring equipment are required to be integrated with SAS through managed Ethernet switch conforming to IEC 61850. This Ethernet switch shall be provided in MB by the contractor.	Ethernet Switches shall be mounted in the respective Bay Control and Relay Panels. No separate MB is required. Pl confirm.	Please refer volume II, chapter 17-Control Relay and Protection Panel of the Technical Specification.
246	Vol-II	PROJECT SPECIFIC REQUIREMENTS (PSR), 400KV Hetauda Clause 17:	Augmentation and integration work related to SCADA System: The 400/220kV bays under present scope at Hetauda substation shall be integrated by the contractor into existing SCADA system of Siemens 'SINAUT Spectrum"(version 4.3.2) installed at Master Station i.e. Nepal Electricity Authority Load Dispatch Centre (located in Siuchatar, Kathmandu).	We understand that , there is system upgradation in Siemens Sinaut Spectrum Version 4.3.2 and communication protocol is IEC 104. Please confirm whether IEC 61850 is to be followed or IEC 104. If IEC 61850 is the protocol, please confirm that Siemens software shall be compliant with same.	Please refer the Clarification given in SN. 149 above.
247	Vol-II	PROJECT SPECIFIC REQUIREMENTS (PSR) 3.2 400kV Inaruwa GIS Substation Clause 16:	Sub-station automation system = " integrate SAS with the under construction Substation Automation System including up-dation of system database, displays, and development of additional displays and reports as per requirement. For under construction 220 kV low impedance Bus bar protection shall be used"	We understand that busbar protection is to be provided for under construction 220 kV bays in additional to new 400 kV bays. Please confirm.	Busbar protection is to be provided for new 400 kV bays and extension/augmentation works of the busbar protection of under construction 220 kV bays are included in the present scope of the works in line with technical specifications.
248	Vol-II	PROJECT SPECIFIC REQUIREMENTS (PSR), 400KV Inaruwa, Clause 18:	These monitoring equipment are required to be integrated with SAS through managed Ethernet switch conforming to IEC 61850. This Ethernet switch shall be provided in MB by the contractor.	Ethernet Switches shall be mounted in the respective Bay Control and Relay Panels. No separate MB shall be provided	Please refer volume II, chapter 17-Control Relay and Protection Panel of the Technical Specification.
249	Vol-II	PROJECT SPECIFIC REQUIREMENTS (PSR), 400KV Inaruwa, Clause 18:	Augmentation and integration work related to SCADA System: The 400/220kV bays under present scope at Hetauda substation shall be integrated by the contractor into existing SCADA system of Siemens 'SINAUT Spectrum"(version 4.3.2) installed at Master Station i.e. Nepal Electricity Authority Load Dispatch Centre (located in Siuchatar, Kathmandu).	we understand that , there is system upgradation in Siemens Sinaut Spectrum Version 4.3.2 and communication protocol is IEC 104. Please confirm whether IEC 61850 is tobe followed or IEC 104. If IEC 61850 is the protocol, please confirm that existing Siemens software shall be compliant with same.	Please refer the Clarification given in SN. 147 above.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
250	Vol-II	DISTANCE TO FAULT LOCATOR-Travelling Wave type (TWFL):	i. Dhalkebar – Hetauda 400 kV D/C Lines: 140 km (along with OPGW) ii. Dhalkebar- Inaruwa 400 kV D/C Lines: 155 km (along with OPGW) iii. Naubise-Hetauda 400 kV D/C Lines: 150 km (along with OPGW)	Do we need to consider supply of Remote End TWFL equipments along with accessories like Industrial grade PC, GPS & Panels. Please confirm.	Please refer the Clarification given in SN. 38, above.
251	Vol-II	VI) CONTROL PANEL WITH BAY CONTROL UNIT (BCU): Clause 10:	Bay control unit shall be flush mounted in the panel with their mimic displays accessible from the front of the panel. The Bay control unit mimic shall dynamically represent the current value of the measurements, state of the devices and control of devices. The Bay control unit shall provide telemetry and tele-control for remote operation from control centres (NTAMC).	We have not considered any works related to NTAMC system. We understand that the scope includes integration of offered SAS with Siemens make RLDC system only. please confirm.	Spare ports shall be required in Ethernet switches for the provision of NTAMC, however, scope include only integration of offered SAS with Siemens make LDC System.
252	Vol-II	Ch 3,Clause 13.1.1./ 13.1.2		Clause 13.1.1. and 13.1.2 are contradictory. We understand from clause 13.1.2 that: " the oil to air bushings of the transformers and reactors shall be supplied by the transformers/ reactors manufacturer and the same shall be connected to SF6 ducts through air to SF6 bushing , please confirm our understanding. Also requesting M/s NEA to confirm the requirement of Bushing, whether it is Resin Impregnated paper (RIP) type or Oil Impregnated porcelain (OIP) type.	Transformer and Reactors Bushing for voltage of 52 kV and above shall be Resin Impregnated Paper RIP bushing with composite polymer insulator oil to air and connection to the GIS Bus Duct shall be SF6 to air Bushing as per Chapter 3- GIS Switchgear, clause 11.2. Bushing types and fitting of the Technical Specifications.
253	Vol-II	General	Contour plan	Request to provide the Contour Plan of the Existing Hetauda substation & for the area of proposed scope of work	Contour Plan is in the scope of contract as per volume II, Chapter 1, 3.1.1, 30(n)
254	Vol-II	General	Scope of building- HETAUDA	We understand that GIS building, Control Room building & DG room are only in the scope of the bidder, No other buildings are in the scope of bidder. Please confirm.	Confirmed
255	Vol-II	General	DG Room	Please provide the GA drawings of DG room .	Shall be finalized during detail engineering
256	Vol-II	Drawing no. NEA-HDI-H/I -PEB-01 OF 01 -GIS BUILDING GENERAL LAYOUT	GIS Building dimensions-HETAUDA	Referring tender drawing, we found that Width of GIS building is 14.3m face to face of columns and Height from FFL to Eave is 12.3m . We understand that, these dimensions are minimum, and will remain firm irrespective of the Manufacturers requirement.	The drawing shows a typical layout of 400/220kv GIS substation. The bidder shall submit the layout of GIS building as per technical specification and the same would be finalized after the approval of owner

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
257	Vol-II	General	Canal to be shifted	1. Please provide the routing of the proposed Canal to be shifted in the proposed layout with the dimensions of the canal, 2. Please provide the Civil BOQ items from which the Canal shifting works shall be executed.	1. Please refer drawing NEA-HDI-H-RCC-DR-01, NEA-HDI-H-E-LY-01 and HTD-SS-E-01(02) 2. As per volume II, Chapter 16-civil works, Annex-A, 1.3 and Schedule of Rates and Prices of the Bidding Documents.
258	Vol-II	General	Scope of building- INARUWA	We understand that GIS building, Control Room building & DG room are only in the scope of the bidder, No other building are in the scope of bidder. Please confirm.	As per volume II, Chapter 1-PSR, 3.2.1, 31 of Technical Specifications.
259	Vol-II	Drawing no. NEA-HDI-H/I -PEB-01 OF 01 -GIS BUILDING GENERAL LAYOUT	GIS Building dimensions-INARUWA	Referring tender drawing, we found that Width of GIS building is 14.3m face to face of columns and Height from FFL to Eave is 12.3m . We also understand that, these dimensions are minimum, and will remain firm irrespective of the Manufacturers requirement.	The drawing shows a typical layout of 400/220kv GIS substation. The bidder shall submit the layout of GIS building as per technical specification and the same would be finalized after the approval of owner
260	Vol-II	General	Road works-HETAUDA &INARUWA	AS per the Civil BOQ , dismantling of existing road is not in the bidders scope. Please confirm.	Dismantling of existing road if required is in the bidders scope and this items falls under site clearing.
261	Vol-II	General	Existing Transmission line	All works related to any Existing Transmission line passing through the proposed land is not in the scope of the bidder. Please confirm	Confirmed
262	Vol-II	Volume III Price Schedule-1 S.No.I. W (For Hetauda S/S) & S.No.II.W (for Inaruwa S/S)	Fiber Optics Based Communication Panel, PMU panel equipment including allied equipment such as Transmission Equipment (SDH- STM 4/STM-16), Termination Equipment,Equipment Cabinets, Network Manager System -TMN – Craft Terminal Equipment both hardware/software (for SDH Equipments), Synchronization Equipment, MDF((100 pairs), FODP etc. complete in all respects as per technical specifications complete all respect.	Please provide detailed BOM for FOTE equipments to be considered.	BOM of the FOTE equipments shall be finalized during detail engineering in line with Technical Specification of the Bidding Documents.
263	Vol-II	Volume III Price Schedule-1 S.No.I. W (For Hetauda S/S) & S.No.II.W (for Inaruwa S/S) Chapter-19 Clause 2.1.2	The SDH node shall be used for interconnection of terminal Substation to the fibre optic network and shall be based on the Synchronous Digital Hierarchy (SDH) having bit rate of STM-4/16 as specified in BPS. Aggregate interface shall be STM-4/16, with three (3)/Five (5) MSP protected directions.	Please clarify whether STM-4 equipment upgradeable to STM-16 is required to be offered or STM-16 equipment is to be offered. Further please confirm whether 3MSP or 5 MSP is to be offered. We understand that STM-4 , 3MSP is to be offered under this project. Please confirm.	STM-4 equipment upgradable to STM-16 and 3MSP is to be offered under this project inline with Technical Specification of the Bidding Document.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
264	Vol-II	Volume II of III Clause No. 1.2	The following transmission lines are associated with substation:- i. Dhalkebar – Hetauda 400 kV D/C Lines: 140 km (along with OPGW) ii. Dhalkebar- Inaruwa 400 kV D/C Lines: 155 km (along with OPGW) iii. Naubise-Hetauda 400 kV D/C Lines: 150 km (along with OPGW)	As per Price Schedule-1 FOTE System is required to be offered at Hetauda & Inaruwa Substation. We understand that FOTE Equipment is already existing at Dhalkebar & Naubise S/S. Please confirm. In case of existing FOTE equipment please provide make/model , STM level , Spare optical/electrical ports availability in existing FOTE System.	Shall be Provided during detail engineering.
265	Vol-II	Volume II of III Clause No. 3.1.1.7.16 Price Schedule-1 S.No. I.M.a)	For 400kV Dhalkebar–Hetauda D/C Lines (planned to be charged at 220 kV Voltage level initially). S**iemens Make 2 Nos. of Digital Protection Coupler** is already installed at Dhalkebar End. Digital protection Coupler matching with Dhalkebar end (suitable for interfacing with E1 port of SDH equipment) and associated power & control Cables, Fibre cables and Accessories for Hetauda end of Dhalkebar-Hetauda 400 kV Lines and Hetauda end of Naubise-Hetauda 400 kV Lines are under the present scope of contract and shall be used for Teleprotection application. However, the DPC, for Teleprotection, Voice & data for Naubise end of 400kV Naubise-Hetauda D/C Line is being provided in separate Contract. Price Schedule S.No.I.M.a) Digital protection Coupler- 4 Nos.	Please note that Digital Protection coupler operates in point to point mode. Both end make & model of offered Digital Protection coupler should be same to achieve end to protection transfer. Non Siemens make DTPC equipment cannot work with existing Siemens make DTPC equipment. In view of the above please amend DTPC equipment requirement for both ends i.e at Dhalkebar-Hetauda & Naubise-Hetauda for generalising the equipment requirement.	Provision of the Bidding Documents remains unchanged.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
266	Vol-II	Volume II of III Clause No. 3.2.1.6.17 Price Schedule-1 S.No. II.M.a)	For 400kV Dhalkebar–Hetauda D/C Lines, Siemens Make 2 Nos. of Digital Protection Coupler is already installed at Dhalkebar End. Matching Digital protection Coupler (suitable for interfacing with E1 port of SDH equipment) and associated power & control Cables, Fibre cables and Accessories for Inaruwa end of Dhalkebar lines are under the present scope of contract and shall be used for Tele protection application. Price Schedule S.No.II.M.a) Digital protection Coupler-4 Nos.	Please note that Digital Protection coupler operates in point to point mode. Both end make & model of offered Digital Protection coupler should be same to achieve end to protection transfer. Non Siemens make DTPC equipment cannot work with existing Siemens make DTPC equipment. In view of the above please amend DTPC equipment requirement for both ends i.e at Dhalkebar- Inaruwa.	Provision of the Bidding Documents remains unchanged.
267	Vol-II	Cl. 3.1.1 & 3.2.1 item no. 1.5.(i) & 1.6 (i) of Vol II, Section 6, Chapter-1 Cl. No. 3.1.1 & 3.2.1 item no. 2 of Vol II, Section 6, Chapter-1	400kV GIS Tie bay GIS module description- CB without any requirement of Controlled switching device ……Control switching device (CSD) is required for Main & Tie circuit breakers of Auto transformers, Bus reactor bays as per specification.	As per specification cl. No. 3.1.1 item no. 2, 400kV Reactor bay & ICT bay CB and related tie bay CB shall be provided with controlled switching device (CSD) whereas in GIS module description, Tie bay CB is without CSD. Please confirm the requirement.	Shall be as per chapter-1- Project Specific Requirement, clause 3.1.1, 2, page 7 & 3.2.1, 2, page 17 of the bidding documents.
268	Vol-II	Cl. 3.1.1 item no. 1.5.(i) & 1.6 (i) of Vol II, Section 6, Chapter-1 Cl. No. 3.1.1 item no. 2 of Vol II, Section 6, Chapter-1	220 kV Hetauda (AIS) substation shall be equipped with substation Automation system (SCADA System) based on IEC61850. ... bidder shall also require to supply all necessary hardware and software to integrate SAS with the under construction Substation Automation System including up-dation of system database, displays, and development of additional displays and reports as per requirement.....make of existing SAS shall be provided during detailed engineering.	We understand that supply of SAS for under construction 220kV AIS at Hetauda is not in bidder's scope. However, interface between new and existing SAS is included in present scope. Pl confirm the protocol to be followed i.e IEC 104/IEC 61850. Please confirm.	Confirmed.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
269	Vol-II	Annexure-II, Section6, Chapter 1: Existing SCADA	The 400/220kV bays under present scope at Dhalkebar substation shall be integrated by the contractor into existing SCADA system of Siemens 'SINAUT Spectrum"(version 4.3.2) installed at Master Station i.e. Nepal Electricity Authority Load Dispatch Centre (located in Siuchatar, Kathmandu)....	Since bidder's scope does not involve any bay works at existing Dhalkebar substation, hence integration of any bays of Dhalkebar SS with existing SCADA at Katmandu is excluded from bidder's cope. Please confirm.	Provision of the Bidding Documents remains unchanged.
270	Vol-II	Cl. No. 33, Section6, Chapter 17: Control relay and protection panel	INTERFACE PANEL (If specified in BPS)	We have not envisaged interface panel in present scope of works as the requirement is not mentioned in Vol-III, price schedule (BPS). Please confirm.	Contractor shall complete the scope of the works inline technical specifications.
271	Vol-II	Cl. No. 36, item no. VI, Section6, Chapter 17: Control relay and protection panel	Configuration of BCU based control panel	Since BCU based protection & control system with substation automation system is considered, standalone control panel with mimic, semaphors, annunciator, synchronizing socket etc. is not considered. Please confirm.	Please refer the Chapter 17 –Control Relay and Protection Panels of the Technical Specifications.
272	Vol-II	Cl. No. 36, item no. VI, note no. 7, Section6, Chapter 17: Control relay and protection panel	It shall have sufficient number of ports to accommodate all the IEDs of the new bays and at least 6 spare ports for integrating the numerical Relays/BCUs with **NTAMC system** i.e. redundant Gateways/RTU and redundant SDC and two spare ports. The IP addressing scheme for the devices shall be provided.	We have not considered any works at NTAMC end. We understand that offered SAS shall be integrated with Siemens make LDC system only. please confirm.	Please refer the Clarification given in SN. 251, above.
273	Vol-II & Vol-III	Price schedule Part-A item no. L.2 Cl. 3.1.1 & 3.2.1 item no. 15 of Vol II, Section 6, Chapter-1	Complete Operator Workstations (HMI) and all necessary accessories and software including Augmentations/Integrations of the existing 220 kV substation which shall be equipped with substation Automation system based on IEC 61850 as per TS The make of existing SAS shall be provided during detailed Engineering.	We understand that supply of SAS for under construction 220kV AIS at Hetauda is not in bidder's scope. However, interface between new and existing SAS is included in present scope. We understood that the protocol to be followed i.e IEC 104/IEC 61850. Please confirm.	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
274	Vol-II	Price schedule Part-A item no. W.a	Fiber Optics Based Communication Panel, PMU panel equipment including allied equipment such as Transmission Equipment (SDH- STM 4/STM-16), Termination Equipment, Equipment Cabinets, Network Manager System -TMN – Craft Terminal Equipment both hardware/software (for SDH Equipments), Synchronization Equipment, MDF((100 pairs).....	We have considered FOTE equipment SDH STM-4 upgradable to STM-16 under present scope of works at Hetauda S/S end. Please confirm.	Confirmed
275	Vol-II & Vol-III	Cl. 3.1.1 item no. 15 of Vol II, Section 6, Chapter-1 Price schedule Part-B item no. L.2	Further, the under construction 220 kV Inaruwa (AIS) substation shall be equipped with substation Automation system (SCADA System) based on IEC 61850. Operator Workstations (HMI) and all necessary accessories and software are included in the present scope of the work, bidder shall also require to supply all necessary hardware and software to integrate SAS with the under construction Substation Automation System including up-dation of system database, displays, and development of additional displays and reports as per requirement. For under construction 220 kV low impedance Bus bar protection shall be used. Bidders are requested to visit the substation site and make own acquaint with the scope of works as described herein. The make of existing SAS shall be provided during detailed Engineering.	We understand that supply of SAS for under construction 220kV AIS at Inaruwa is not in bidder's scope. However, interface between new and existing SAS is included in present scope. We understood that the protocol to be followed i.e IEC 104/IEC 61850. Please confirm.	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
276	Vol-II & Vol-III	Price schedule Part-B item no. L.2 Cl. 3.2.1 item no. 16 of Vol II, Section 6, Chapter-1	Augmentations/Integrations of Operator Workstations (HMI) and all necessary accessories and software. The existing 220 kV substation shall be equipped with substation Automation system based on IEC 61850. In the present scope, bidder shall include BCUs required for 400 kV bays including all necessary hardware and software to integrate with the existing Substation Automation System including up-dation of system database, displays, and development of additional displays and reports as per requirement. The make of existing SAS shall be provided during detailed Engineering.	We understand that supply of SAS for under construction 220kV AIS at Hetauda is not in bidder's scope. However, interface between new and existing SAS is included in present scope. Pl confirm the protocol to be followed i.e IEC 104/IEC 61850. Please confirm.	Confirmed
277	Vol-II & Vol-III	Cl. 3.2.1 item no. 17 of Vol II, Section 6, Chapter-1 Price schedule Part-B item no. M.a	For 400kV Dhalkebar–Hetauda D/C Lines, Siemens Make 2 Nos. of Digital Protection Coupler is already installed at Dhalkebar End. Matching Digital protection Coupler (suitable for interfacing with E1 port of SDH equipment) and associated power & control Cables, Fibre cables and Accessories for Inaruwa end of Dhalkebar lines are under the present scope of contract and shall be used for Tele protection application. Digital Protection Coupler as per TS- 4 Nos.	We understand that DPC for Dhalkebar-Inaruwa D/C line at both ends is to be supplied under present scope as per price schedule (i.e. 4 nos.) with 1 no. DPC for each circuit. Please confirm.	DPC quantities shall be as per Schedule of Rates and Prices and layout shall be finalized during the detail engineering.
278	Vol-II	Chapter 17, cl. No. 18.10	Line differential relay	We have not considered line differential protection for 400kV, 220kV and 132kV lines under present scope. All lines are considered with distance protection. Please confirm.	Confirmed.
279	Vol-II	Chapter 17 , Cl. No. 36	Cutout for Energy Meter	We have considered only cutout and wiring with TTB of Customer supplied energy meter in each 400kV line and Transformer feeder as per panel configuration. the meter shall be integrated to offered SAS. Integration of meters to any other data logger or metering system is not envisaged in present scope.	Please refer the clarification given in S.N. 28 & 41 above.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
280	Vol-II	Price schedule Part-A and Part-B item no. W.a	Fiber Optics Based Communication Panel, PMU panel equipment including allied equipment such as Transmission Equipment (SDH- STM 4/STM-16)…..	We have considered FOTE SDH-STM-4 upgradable to STM-16. Hardware required for upgradation to STM-16 (i.e. SFP cards) are excluded from present scope. Please confirm.	Please refer the Clarification given in SN. 57, above.
281	Vol-II	Chapter 1, Project Specific Requirement, Clause no. 1.2	Three Sets of three pole, 2000A group operated disconnector with safety grounding switch complete with manual and motor driven operating mechanism.	Please note that in 400kV GIS design, safety grounding switch is not combined with isolator.	Technical Specification of the Bidding Documents shall governs.
282	Vol-II	Chapter 1, Project Specific Requirement, Clause no.1.2, 1.3, 1.4, 1.5, 1.6	One Bay Module Control Cabinet including Bay Controller.	If bay controller unit is provided in Local Control Cubicle of GIS, Gas SLD including position indications of all primary components of GIS can be viewed in BCU, separate mimic/LED display with control, measuring instruments are not to be considered in LCC. Please confirm	Please refer the Clarification given in the SN.3, above.
283	Vol-II	Chapter 1, Project Specific Requirement, Clause no 1.2, 1.3, 1.4	v. Three single-phase SF6 gas insulated terminal connections for interconnection between GIS Bus and outdoor equipment including SF6 to Air Bushing. vi. Three Nos. 4000A/ 2000A single-phase SF6 ducts inside the GIS hall (up to the outer edge of the wall of GIS Hall).	We presume, this item description indicates SF6 Gas insulated bus duct from GIS module to SF6 to Air bushing and this is same as item no. vi. Please confirm.	Please refer the Clause 4) page 7 and Clause 4), page 17, chapter 1-PSR of the Technical Specification.
284	Vol-II	Chapter 1, Project Specific Requirement, Clause no 2	Pre-insertion resistor (PIR) is required for all Main & Tie circuit breakers for line bays and Control switching device (CSD) is required for Main & Tie circuit breakers of Auto Transformers, Bus reactor bays as per specification. However, pre-insert resistor (PIR) which are required for all Main & Tie circuit breakers for line bays may be replaced with alternate suitable device (like control switching device (CSD), capacitance Current Switching device)	Please clarify the requirement as Price schedule and drawings and even scope described above do not include PIR or CSD for line and its tie bays.	Shall be as per chapter-1- Project Specific Requirement, clause 3.1.1, 2, page 7 & 3.2.1, 2, page 17 of the bidding documents.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
285	Vol-II	Chapter 1, Project Specific Requirement, Clause no 4	SF6 gas ducts (including support structures, gas monitoring devices, gas barrier pressure switch) from outside (i.e. wall surface) of the GIS building to center line of SF6/Air Bushing or SF6/Oil bushings shall be as per bid price schedule. SF6 gas Ducts inside GIS hall are part of GIS Module.	From given customer SLD, we understand, all lines, transformers and BR bays are with bus ducts terminated with SF6 to Air bushing. Please clarify/confirm.	Confirmed
286	Vol-II	Chapter 1, Project Specific Requirement, Annexure-1, List of Mandatory Spares, S. N. 1.9	Pipe length (Copper or Steel as applicable) for SF6 Circuit of each type - 1Set	Our design has no piping arrangement. Hence not applicable. Pl note	Shall be finalized during detail engineering.
287	Vol-II	Chapter 1, Project Specific Requirement, Annexure-1, List of Mandatory Spares, S. N. 1.11.1	For 3 phase enclosure (if applicable)	As offered 400kV GIS is single phase encapsulated, this item is not applicable	confirmed
288	Vol-II	Chapter 1, Project Specific Requirement, Annexure-1, List of Mandatory Spares, S.N. 1.12	Locking device to keep the Disconnectors (isolators) and earthing switches in close or open position in case of removal of the driving mechanism	When the operating mechanism of the disconnector or earthing switch is removed, the contacts cannot be disturbed from outside in our design. Hence locking device is not required	Shall be finalized during detail engineering.
289	Vol-II	Chapter 1, Project Specific Requirement, Annexure-1, List of Mandatory Spares,S.N. 1.14	SF6 to Air bushing (420kV of each type & rating) as applicable for 420kV GIS – 1 Set	As we offer the same type and rating of bushing for both 4000A and 2000A, we propose one no. single phase bushing as spare. Please confirm	Provision of the Bidding Documents remains unchanged.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
290	Vol-II	Chapter 1, Project Specific Requirement, Annexure-1, List of Mandatory Spares, S.N. 2.1	Complete circuit breaker pole of each type & rating complete with interrupter, main circuit enclosure and Marshalling box with operating mechanism – 1 EA	Marshalling Box is not applicable as its functional requirement has been taken care inside operating mechanism box. Please note that for 4000A and 2000A, we offer same type of CB pole. Hence, we propose one no. 4000A single pole CB as spare. Please confirm	Provision of the Bidding Documents remains unchanged.
291	Vol-II	Chapter 1, Project Specific Requirement, Annexure-1, List of Mandatory Spares,S.N. 2.10	Closing assembly / valve, 3 Nos. of each type 1 No. Trip assembly / valve, 3 Nos. of each type 1 No.	Not applicable. Hence not offered. Please note.	Shall be finalized during detail engineering.
292	Vol-II	Chapter 1, Project Specific Requirement, Annexure-1, List of Mandatory Spares, S.N. 3.6	Open / Close contactor assembly, timers, key interlock for one complete (3 phase) dis-connector and (3 phase) earthing switch of each type and rating - 1Set	Proposed interlocks are all electrical with pad locking arrangement. Key interlocking is not applicable. We propose to supply Open/close contactor assembly, timers for one complete disconnector and earthing switch as spare.	Shall be finalized during detail engineering.
293	Vol-II	Chapter 1, Project Specific Requirement, Annexure-1, List of Mandatory Spares, S.N. 4.2	Current Transformer: Secondary bushing of each type	Not applicable to GIS CTs as secondary cores are outside gas chamber. Pl note	Shall be finalized during detail engineering.
294	Vol-II	Chapter 2, General Technical Requirement, Clause No.6.2.1.2	Space heaters: One or more adequately rated thermostatically connected heaters shall be supplied to prevent condensation in any compartment	Space heaters shall be provided in LCC and operating mechanism. Not applicable to GIS compartments. Pl note	Shall be finalized during detail engineering.
295	Vol-II	Chapter 3, Gas Insulated Switchgears, Clause No. 5.6.4	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. The breaker should be able to withstand all dielectric stresses imposed on it in open condition at lockout pressure continuously (i.e. 2 p.u power frequency voltage across the breaker continuously)	As this test is not defined in IEC, technical note for the same shall be submitted. Request to note that as per clause 4.1.1 pg 2, breaker can withstand 2 p.u power frequency voltage across open contacts at lock out pressure for a duration of 15 min	As per Volume II, Chapter 3, Gas Insulated Switchgears, Clause No. 5.6.4

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
296	Vol-II	Chapter 3, Gas Insulated Switchgears, Clause No. 5.8.2	The CSD shall be provided in 400kV Circuit breakers for controlling transformers and reactors (i.e for breakers of switchable line reactor and in Main& Tie circuit breakers of Transformers, Transmission lines with non-switchable line reactors and Bus reactors). The requirement of CSD shall be explicitly specified in price schedule	Requirement of CSD is not indicated in price schedule separately or request to amend price schedule.	Shall be as per chapter-1- Project Specific Requirement, clause 3.1.1, 2, page 7 & 3.2.1, 2, page 17 of the bidding documents.
297	Vol-II	Chapter 3, Gas Insulated Switchgears, Annexure-I, S.N 18	Full wave impulse with stand (1.2/50 micro sec) Between terminals with circuit breaker open (for 400kV) - ±1425 kVp impulse on one terminal & 457kVp of opposite polarity on the other terminal	Full wave impulse with stand (1.2/50 micro sec) Between terminals with circuit breaker open (for 400kV) - ±1425 kVp impulse on one terminal & 240kVp of opposite polarity on the other terminal	As per volume II, Chapter 3, Gas Insulated Switchgears, Annexure-I, S.N 18. Provision of bidding document remains unchanged
298	Vol-II	SLD-Hetauda & SLD-Inaruwa	On outgoing side of Line feeders	On outgoing side of line feeders, Maintenance earthing switch and high-speed earthing switch are shown on same point. Please correct	The SLD is given only for the tender purpose. Contractor shall developed the same in line with technical specification during detail engineering.
299	Vol-II	SLD-General	Bays indicated inside dotted line box are for future scope.	Given pdf SLD do not have any dotted line box. We presume for bays indicated as future, only space to be considered. Quantity of bays shall be as per Price schedule. Please confirm.	Quantity of bays shall be as per volume II, Chapter 1-PSR, 2.1.1.1
300	Vol-II	400kV GIS Layout of Hetauda Substation (Dwg. No. NEA-HDI-H-E-LY-01 OF 01)	Terminal Point of 220kV Jumper Connection	We understand that the terminal point of 220kV Auto-transformer bay shall be the anchoring point for the ACSR conductor to the existing Gantry of transfer bus of existing 220kV bay. Please confirm.	Confirmed
301	Vol-II & Vol-III	Price Schedule-1	Item No. I Part A: Hetauda Substation, G 4 245kV Bus Post Insulator & Item No. II Part B: Inaruwa Substation, G 5.0 245kV Bus Post Insulator	We understand the quantity of BPI for isolator shall be operated by the line item as per Price schedule.	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
302	Vol-II & Vol-III	Price Schedule-1	Item No. I Part A: Hetauda Substation, N Item No. I Part A: Inaruwa Substation, N Chapter - 1 Project Specific Requirement, Visual Monitoring System (Annexure - V)	We understand that the requirement of VMS system of each substation are as follows: 1) At entrance door of GIS Hall for present scope of work 2) At entrance door of Control Room for present scope of work 3) Transformer and Reactor area for present scope of work and 4) At Outdoor Switchyard equipment area for present scope of work only	Shall be discussed during detail engineering
303	Vol-II & Vol-III	Price Schedule-1	Visual Monitoring System (Annexure - V)	We understand that following existing area not to be covered in the Visual Monitoring System: 1) Existing Switchyard area 2) Existing Control Room cum Administration Building area 3) Existing Firefighting Pump House 4) Existing Store 5) Existing Main Gate Please confirm.	Shall be discussed during detail engineering
304	Vol-II	Chapter 9, Lighting System	Chapter 9 Lighting System Cl. No. 1.1 The entire control room building, fire fighting pump house,, Indoor Switchyard Building lighting shall be done by LED… Cl. No. 2.1.2 Lighting Fixtures Refer Annexure 1	There is a discrepancy for selecting of lighting fixtures. Cl. No. 1.1 mentioned LED type fixture. Whereas the Annexure 1 mentioned fluorescent type fixture to be considered. Also outdoor fixtures are HPSV type to be consider. Please confirm your actual requirement.	The lighting fixtures shall be LED type fixture. Please quote the rate accordingly to complete the scope of works accordingly.
305	Vol-II	General		Please provide the Switching scheme for the 33kV tertiary side for selection of spare transformer. We have considered manual jumper connection of spare transformer 33kV selection.	Shall be as per technical specifications.
306	Vol-II	Chapter 14 –Switchyard Erection	Clause 8.0 GROUNDING SYSTEM	In place of copper Flat, conductor cable, we propose 40 mm MS Rod for main ground system and GI Flat for riser. Please confirm	Provisions under bidding document remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
307	Vol-II	Chapter 3 –GIS Switchgear, Clause 26.5	Online Partial Discharge Monitoring System (Shall generally applicable for 400 kV)	Bidder understand that the requirement of online partial discharge monitoring system will be envisaged below: a) All the GIS bays will be fitted with suitable UHF sensors b) Online Partial discharge module will be provided which can be monitor partial discharge without taking shut down of submission or outage of any bay/bay module c) Continuous partial discharge monitoring for all the GIS bays simultaneously is not required. Please confirm.	Provisions under bidding document remains unchanged
308	Vol-II	Chapter 2 – General Technical Requirement	b) The enclosure of bay marshalling kiosk, junction box, terminal box shall conform to IP-55	We understand that the enclosure of bay marshalling kiosk, Junction box, terminal box of IP41 is sufficient for indoor installation. Please confirm.	Provisions under bidding document remains unchanged
309	Vol-II	Chapter 5– Technical Specification of Transformer, Clause No. 1.2	ii) Necessary provision is to be kept in the transformer control scheme for parallel operation with the existing OLTC control scheme having provision of Master/Follower/Independent /off operation etc.	Bidder requests that parallel operation of transformers is envisaged only for Transformers being supplied under this contract and no parallel operation with any other current/future transformers is required. Pease confirm.	Confirmed
310	Vol-II	General		The Bidder understand that Bus 1 & 2 of GIS needs not be extended for the future bays in the current scope. Please confirm.	Confirmed
311	Vol-II	Chapter 1 –Project Specific Requirement, Clause no.12.1 of Meteorological data	Ambient Temperature	In the referred technical particulars/Specification, ambient temperature given as 50 deg C mentioned for Auto Transformer, GIS, Outdoor Switchgears etc.. Kindly confirm the design temperature to be considered	Provisions under bidding document remains unchanged
312	Vol-II	CHAPTER 19: TELECOMMUNICATION EQUIPMENTS	For 400KV Hetauda & Inaruwa The scope of work for supply, installation approach optical fiber (as per requirement from JB to ODF box), necessary interface……	Our understanding is that the scope of supply of approach fiber optic cable from SDH panel upto the splicing box of at the bottom of the gantry towers for the respective lines. Overhead OPGW cable shall be terminated by Transmission line vendor at these splicing boxes. Please confirm	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
313	Vol-II	Chapter 14 –Switchyard Erection, clause 8.3 of GROUNDING CONDUCTOR	Main Ground Grid The main ground grid ,.....stranded copper wire of minimum sizes.....160 sq mm	Please share the soil resistivity of these exiting substations	Shall be discussed during detail engineering
314	Vol-II	Chapter 1 –Project Specific Requirement, clause 19 of SPECIFIC REQUIREMENT, point no. 10	Transmission line side insulator String (Including hardware) i.e. tension insulator on the line side of the take-off gantry for 400kv lines termination is under the present scope of	our understanding is that the tension insulators and tension hardware's on the line side of gantries shall be in the scope of Transmission line contractor/NEA. Please confirm	Confirmed
315	Vol-II	Chapter 1 –Project Specific Requirement, clause 7.1 Training at Manufacturer's works.	Technical Specification	Training at Manufacturer's works. The contractor shall include in the training charges of NEA trainees' lodging, meals, local transportation, training materials, to and fro economy class air ticket from Nepal to place of training and payment of 150USD per Diem allowance per trainee per day for the duration of training. Please confirm the Per Diem Allowance is to be included in the price Schedule No. 4 Part D (I)	Confirmed
316	Vol-II	Chapter 1 –Project Specific Requirement, clause 7.1 Training at Manufacturer's works.	The contractor..... 1. Manufacturer's works as per the following: a. Control and Protection, ... b. GIS Equipment and System ..... C. EHV/AIS substation design: 10 days (3 nos trainees)	Please clarify the training envisaged for the substation design. Our understanding is that the training subject or courses shall be as per the manufacturer's standard method. Please confirm	Shall be discussed during detail engineering
317	Vol-II	General for Hetauda and Inaruwa	Layout drawing	Bidder Understands that the tower and Gantry Structure for the future line bays is not in the current scope of work	Confirmed
318	Vol-II	Chapter 1 –Project Specific Requirement, Point 19 of clause 3.1 400kV Hetauda GIS Substation and Point 20 of clause 3.2 400kV Inaruwa GIS	The HVWS system shall be tapped from the Existing fire water system.	AS per referred clause HVWS needs to be tapped from the Existing fire water system. Kindly provide The tapping point location & Existing firefighting system piping layout for Hetauda and Inaruwa substation. Also We are not considering FFPH and Water tank. Please confirm.	Shall be provided during detail engineering

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
319	Vol-II	Chapter 1 –Project Specific Requirement, Point 19 of clause 3.1 400kV Hetauda GIS Substation and Point 20 of clause 3.2 400kV Inaruwa GIS		We are presuming existing annunciations panels having sufficient spare, hence we are not considering separate annuciationpanel at control room & FFPH. Please confirm.	Shall be finalized during detail engineering. If not sufficient contractor shall take care of the same.
320	Vol-II	Chapter 1 –Project Specific Requirement, Point 30 c of clause 3.1 400kV Hetauda GIS Substation and Point 31 c of clause 3.2 400kV Inaruwa GIS		As per scope of work, foundation for bus duct is in bidder scope. Payment for same is not mentioned clearly in civil works. We trust that, items such as excavation, concrete & reinforcement required for the same is paid under respective item in price schedule. Please confirm.	Confirmed
321	Vol-II	CHAPTER 16: CIVIL WORKS, Clause No. 11.1.6	11.1.6. The design and detailing of foundations shall be done based on the approved soil data and sub-soil conditions as well as for all possible critical loads and the combinations thereof. The Spread footings foundation or pile foundation as may be required based on soil/sub-soil conditions and superimposed loads shall be provided.	We have not considered pile foundation for the proposed substation structures. If the pile is required during actual the same shall be paid as additional item. Please confirm.	Provision of the Bidding Documents remains unchanged.
322	Vol-II	Chapter 1 –Project Specific Requirement, Clause No. 4.3	All equipment shall be able to withstand all external and internal mechanical, thermal and electromechanical forces due to various factors like wind load, temperature variation, ice & snow, (wherever applicable) short circuit etc. for the equipment.	We have not considered snow load in the design of structures inside substations. Please confirm.	Confirmed
323	Vol-II	General		The bus bar of GIS for future extension bays is not under present scope of contract. Please confirm.	The Isolating link for future extension of Bus bar module (on one side) for the future expansion of GIS shall be considered.

<table>
<tr><th>S.N.</th><th>Volume / Section</th><th>Clause No.</th><th>Text as per Bid documents</th><th>Bidder's Query</th><th>NEA Clarification</th></tr>
<tr><td>A.</td><td>TECHNICAL</td><td></td><td></td><td></td><td></td></tr>
<tr><td>324</td><td>Vol-II</td><td>Chapter 22: Technical Data Sheets, S. No =10.0 Power Transformer/Auto Transformer</td><td></td><td>We request NEA to include following parameters in technical data sheet of Transformer:
<table>
<tr><td>S.no</td><td>Description</td><td>Value</td><td>Unit</td></tr>
<tr><td>a</td><td>I2R Loss including winding and Bushings/OLTC Connections at 75 deg.</td><td></td><td></td></tr>
<tr><td>b</td><td>Winding Eddy Loss at 75 deg.</td><td></td><td></td></tr>
<tr><td>c</td><td>Stray losses in tank and other steel structural parts at 75 deg.</td><td></td><td></td></tr>
<tr><td>d</td><td>Weight of windings conductor (Covered)</td><td></td><td></td></tr>
<tr><td>e</td><td>Magnetic core material grade as per BIS in magnetic circuit</td><td></td><td></td></tr>
<tr><td>g</td><td>Designed flux density</td><td></td><td></td></tr>
<tr><td>h.</td><td>Core watt/kg as per supplier's catalogue @ designed flux density</td><td></td><td></td></tr>
<tr><td>i.</td><td>Core building factor</td><td></td><td></td></tr>
<tr><td>j.</td><td>Weight of Magnetic/Non-Magnetic shield (As Applicable)</td><td></td><td></td></tr>
</table></td><td>Provision of the Bidding Documents remains unchanged. Further, Bidders are requested to incorporate the same in their Technical Data Sheet.</td></tr>
<tr><td>325</td><td>Vol-III</td><td>Buildings</td><td></td><td>Kindly confirm bidder has to consider building mentioned in price schedule only.</td><td>Confirmed</td></tr>
<tr><td>326</td><td>Volume II , Section 6-Employer's Requirements</td><td>Chapter 13: Battery & Battery Charge</td><td></td><td>We understand from this chapter that the output of all 220V DC chargers are 80A. Please confirm our understanding is correct.</td><td>The rating of the battery and battery charger shall be decided as per requirement of the specification and shall be worked out
by bidder</td></tr>
<tr><td>327</td><td>Volume II , Section 6-Employer's Requirements</td><td>Chapter 13: Battery & Battery Charge</td><td></td><td>We understand from this chapter that the output of all 220V DC backup batteries are 600AH. Please confirm our understanding is correct.</td><td>Battery shall be sized by bidder however minimum of 600Ah has to be considered</td></tr>
<tr><td>328</td><td>Volume II , Section 6-Employer's Requirements</td><td>Chapter 13: Battery & Battery Charge</td><td></td><td>Please specify the current of 48V DC charger.</td><td>Shall be as per Technical specifications and finalized during the detail engineering.</td></tr>
<tr><td>329</td><td>Volume II , Section 6-Employer's Requirements</td><td>Chapter 13: Battery & Battery Charge</td><td></td><td>Please specify the fusion requirement of 48V DC battery.</td><td>Shall be as per Technical specifications and finalized during the detail engineering.</td></tr>
<tr><td>330</td><td></td><td></td><td></td><td>Please provide the Single Line Diagram of the AC System for reference.</td><td>Shall be provided during detail engineering</td></tr>
</table>

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
331	Volume II , Section 6-Employer's Requirements	Chapter 2-General Technical Requirement, Clause 4.6.1 System Parameter SLD of Hetauda & Inaruwa Substation		66kV voltage class and 72.5kV equipment are listed in the parameter table and BOQ, but SLD indicates . 400kV/220kV/132kV/33/11kV voltage level only. Please confirm whether the substation contains 66kV power system and specify the purpose of 66kV system & 72.5kV equipment.	72.5 kV Equipments shall be used to connect the 33 kV side tertiary of the autotransformer to meet the required BIL level.
332	Volume II , Section 6-Employer's Requirements	Chapter 23, Drawings, Electrical Layout Plan of Hetauda Substation Single Line Diagram of Hetauda Substation		There are two Future Tr. Bays & two future line bays for 400kV GIS in the SLD, but the location of these bays are not shown in the layout plan diagram. Please indicate the locations of the two future Tr. Bays and two future line bays completely so that the GIS layout is reasonable.	Please refer drawing NEA-HDI-H-E-LY-01 for tender purpose only. However, same shall be developed by contractor during the detail engineering.
333	Volume II , Section 6-Employer's Requirements	Chapter 5, 1.0 Technical Particulars / Parameters of Transformers ODFPSZ-167000/400, OSFPSZ-315000/400		As per Item 1.8 in Technical Particulars / Parameters of Transformers (400/220/33kV Auto Transformer), the Principal tap HV-IV shall be 12.5%, the Max. Voltage tap shall be 10.3% and the Min. Voltage tap shall be 15.4%; the Principal tap HV-LV shall be 60.% and the Principal tap IV-LV shall be 45%. However, in Item 1.16, Tap Changer shall be located on the 220kV side. It is calculated based on 220kV regulation that the measured Max. Voltage tap and Min. Voltage tap for HV-IV are inconsistent with those required in the items and the deviations are large. We propose that the Tap Changer shall be located on the 400kV side, which can meet all the rules of impedance. Please clarify it.	Technical Specification of the Bidding Documents shall governs.
334	Volume III	Schedule 4C		We understand that the bidders shall quote as per the quantities mentioned in the schedule 4C for civil work and the during execution these works will be paid as per actual quantity executed	Your understanding is correct
335	Section-6 Employer's requirement	Chapter 4: Surge Arrester Cl. 2.d And ClQ. A7.0 (g)	Duty Requirements And Technical Particulars	There is a mismatch of class of LA mentioned in both clauses for 336kV LA. Kindly confirm the class of 336kV LA to be considered i.e., 3 or 4.	Class of 336 kV LA shall be 4 as per IEC.
336	Section-6 Employer's requirement	Chapter 5: Technical Specification of Transformer Annexure-A 1.16.ii	Location of Tap changer	If we try to make arrangements of OLTC on 220kV side of auto-transformer, it is not possible to attain the impedance requirement as per Cl. No. 1.8 of Annexure-A of Chapter 5. We request you to make changes and propose OLTC on 400kV side of transformer.	Provision of the Bidding Documents remains unchanged.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
337	Plan layout	NEA-HDI-H-E-LY-01	--	There is no mention of present scope area available nor the dimensions in the given layout of Hetauda SS. So, request you to provide the present scope area with dimensions marked on the layout.	The drawings provided are tentative and for tender purpose only. Please refer drawing NEA-HDI-H-E-LY and HTD-SS-E-01(02) for understanding existing and present scope. Bidders are advised for the site visit for better understanding and visualization about the scope of work.
338	Earthing at Hetauda SS & Earthing at Inaruwa SS	--	--	We understand that the earthing on the GIS floor shall be provided on the present scope bays and not on the future bays. Kindly confirm.	Earthing on the GIS floor shall be provided on the present as well as future scope bays.
339	Plan layout	NEA-HDI-H-E-LY-01	--	The existing cable trench route is not shown in the given layouts. Request you to provide detailed drawing for present cable quantity evaluation.	Shall be provided during detail engineering.
340	Section-6 Employer's requirement	Chapter 17: CRP Cl. 36	Cut-out and wiring with TTB for energy meter	We understand that our scope is only limited to providing Cut out in panel for mounting Energy meter. Supply of Energy meter is not part of present scope of works. Please confirm.	Please refer the clarification given in S.N. 28 & 41 above.
341	Plan layout	NEA-HDI-I-E-LY-01	--	There is no mention of present scope area available nor the dimensions in the given layout of Inaruwa SS. So, request you to provide the present scope area with dimensions marked on the layout.	The drawings provided are tentative and for tender purpose only. Please refer drawing NEA-HDI-I-E-LY and IRW-SS-E-01(02) for understanding existing and present scope. Bidders are advised for the site visit for better understanding and visualization about the scope of work.
342	Plan layout	NEA-HDI-I-E-LY-01	--	The existing cable route trench route is not shown in the given layouts. Request you to provide detailed drawing for cable quantity evaluation.	Shall be provided during detail engineering.
343	Section-6 Employer's requirement And BPS	Chapter-1 PSR Cl. 3.1.18 And BPS Part-A Cl. k.1.3 Chapter-1 PSR Cl. 3.2.19 And BPS Part-B Cl. k.1.3	Complete relay and protection system for 400kV bays (Line bays, reactor bays and ICT Bays), 220 kV ICT bays, 33 kV Station Transformer bay And Transformer Protection Panel (For both HV & MV side) for four nos. single phase transformer (1 No. of ICT) as per Specification	For Inaruwa & Hetauda SS, we understand from both clauses that complete relay and protection panel has to be considered for MV i.e. 220kV side of 400/220/33 kV transformer bay. Kindly confirm whether the control and protection has to be provided in one panel or two different panels i.e. one for HV and one for MV. In case panels have to be provided separately, kindly confirm the location of panel for MV side of transformer i.e. either in old control room building or the new one.	Control and protection has to be provided in two different panels i.e. one for HV and one for MV. Please refer the clarification given in SN. 79, 90, 100 above for the location of panel.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
344		Volume-II,page6， clause 2.1.1.1,vi & Volume-III,page 9 clause H		In volume II,for Hetauda substation, it describes that we need to provide one 33kV bays for auxiliary transformer, but in volume III, the PT is 72.5kV, we think it is not correct and the voltage class of PT should be 33kV, kindly confirm that.	Please refer clarification given in S.N. 155.
345		Volume-II ,page7， clause 2.1.2.1,v & Volume-III,page 21 clause H		In volume II,for Inaruwa substation, it describes that we need to provide one 33kV bays for auxiliary transformer, but in volume III, the PT is 72.5kV, we think it is not correct and the voltage class of PT should be 33kV, kindly confirm that.	Please refer clarification given in S.N. 155.
346	For both Hetauda substation and Inaruwa substation			Kindly provide the plot dimension of the extension area.	Please refer clarification given in S.N. 337.
347	For both Hetauda substation and Inaruwa substation			Kindly provide the following drawings of the existing substation: cable trench drawings, earthing drawings(contains the space between the earthing mat), lighting drawings, lightning drawings.	Shall be provided during detail engineering
348	For both Hetauda substation and Inaruwa substation	Volume-II ,page8, clause 1.2,ii & Binder2,page 3		In volume II, it describes that "current transformer should be distributed on both side of circuit breaker as per single line diagram", but in single line diagram, the CT is only at one side of the circuit breaker, we think the single line diagram prevails, kindly confirm that.	Shall be as per volume II, Chapter 1-PSR
349	For both Hetauda substation and Inaruwa substation	Volume-II ,page8, clause 1.3 & Volume-II ,page8, clause 1.6		In volume II, the CT of auto transformer bay and tie bay is 4000A, but the disconnector of the same bay is 2000A, so think it's not correct and the rating of current transformer should be 2000A, kindly confirm that.	Shall be as per volume II, Chapter 1-PSR
350	For both Hetauda substation and Inaruwa substation			We think that only the illumination system of the extension area is under our scope, and the illumination system the existing area shouldn't be considered, kindly confirm that.	Please refer clarification given in S.N. 92.
351	For Inaruwa substation	Volume-II ,page27, clause 31), a		In this clause, it describes that "the size of 400kV GIS building shall be suitable to accommodate complete diameter bays in addition to the maintenance bay", so we understand that we don't need to reserve space for future bays in Inaruwa substation, kindly confirm that.	Please refer clarification given in S.N. 1.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
352	For both Hetauda substation and Inaruwa substation	Binder2,page 2&3		We think the tower of HV side for Autotransformer is not necessary since it has no benefit for connection, so kindly confirm whether we should provide that.	Provision of the Bidding Documents remains unchanged.
353	Chapter 5– Technical Specification of Transformer	Cl. No. 16.3.2, Pg No. 87	For new substation, the contractor shall provide Digital RTCC panel consisting of 2 Nos. Digital RTCC relays which shall be used to control 2 banks of transformers (i.e. 6 Nos. 1-Phase units or 2 Nos. 3-Phase units), unless otherwise specified elsewhere. Further, one spare Digital RTCC relay shall also be provided in the same panel.	Please clarify our understanding as below : 1) For Hetauda S/s we shall supply 1 No. of Digital RTCC Panel consisting of 2 No.s of Digital RTCC relays which will take care of 4 Nos. of 1-Ph transformers as per present scope of work. One spare Digital RTCC relay will be provided in same panel. 2)For Inaruwa S/s, we shall supply 1 No. of Digital RTCC Panel consisting of 3 No.s of Digital RTCC relays which will take care of 3 Nos. of 3-Ph transformers as per present scope of work. One spare Digital RTCC relay will be provided in same panel.	1) Your understanding is correct. 2)First Digital RTCC panel consisting of 2 Nos. Digital RTCC relays and one spare Digital RTCC relay which shall be used to control 2 (two) Nos. of 3-Phase 315 MVA transformer and Second Digital RTCC panel consisting of 1 Nos. Digital RTCC relays and one spare Digital RTCC relay which shall be used to control 1(one) Nos. of 3-Phase 315 MVA transformer
354		Volume-II: Employer's Requirements (ERQ) P681		It is mentioned in P681 that the line differential protection relays for 400kV and 220kV in remote ends should be provided and matched as the BOQ. But for the 132kV line, it is not clear whether the remote ends already have the line differential protection relays, if yes, please provide us the manufacturer, brand and model of relays. Kindly confirm.	132kV line is not in present scope of work
355		Volume-II: Employer's Requirements (ERQ) P756		In the technical requirements, we know that the telecommunication link between substation and remote side/NCC are in our scope. Please provide us the manufacturer, brand and model of telecommunication equipments in remote substation and NCC. Kindly confirm.	Shall be provided during detail engineering
356		Volume-II: Employer's Requirements (ERQ) P791		For the type of charger, it is not clear whether it is silicon rectifier or high-frequency. Kindly confirm.	Please refer Chapter 13 –Battery and Battery Charger of technical specifications.
357		Volume-II: Employer's Requirements (ERQ) P521		Whether the low-voltage power cables and control cables have the termite-proof requirement or not. Kindly confirm.	Low voltage power and control cables shall be termite-proof in line with technical specifications.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	TECHNICAL				
358		Volume-II: Employer's Requirements (ERQ) P756		Please provide us the technical requirements for optical fiber.	Optical fiber shall be as per volume II, Chapter 19-Telecommunication Equipments, Clause 2.2 of Technical Specification.
359		Volume-II: Employer's Requirements (ERQ)		In the technical requirements, we know that the protection class for indoor panel is IP31,and in P343 it is IP55.Kindly confirm that which one is right.	The protection class for indoor panel shall be as per the individual chapter/chapter 2-GTR of technical specification of the Bidding
360		Volume-II: Employer's Requirements (ERQ) P521		In the technical requirements, we know that the material for low-voltage power cable and control cable is copper, and in P101 it is aluminum, Kindly confirm that which one is right.	Please refer the CHAPTER 12: POWER AND CONTROL CABLE of the Technical Specifications.
361		Volume-II: Employer's Requirements (ERQ)		Please make sure that whether the relay protection setting calculation is within our work scope or not.	Relay protection setting calculation is within the scope of work
362	Fire Protection system			According to NFPA Standard, a water fire fighting system must be installed in the fire pump house, and it is a compulsive requirement, while in the pricing schedule, there is no such kind of item. Should we take the water fire fighting system into consideration?	Please refer clarification given in S.N. 114.
363		General		Existing Earth Mat Layout for both Hetauda Substation and Inaruwa Substation are required.	Shall be Provided during detail engineering.
364		Volume II, Section 6, Chapter 5, Clause 12		The Delta shall be formed by approximate size of 3" IPS Al tube, which shall be insulated with heat shrinkage insulating sleeve or cable of suitable voltage Class and adequate thickness and shall be supported by structure mounted bus post insulators at suitable intervals. Please clarify.	Please refer the clarification given in S.N. 13 above.
365		Volume II, Section 6, Chapter 1, Clause 3.1.1, Sub Clause 14		Due to space constraint, tertiary auxiliary bus & delta formation of autotransformer is not possible by overhead Al-tube arrangement; same shall be done by using 52 kV XLPE cable. 52kV XLPE Cable is also not appearing in Price Schedule. Please clarify.	Please refer the clarification given in S.N. 13 above.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
366		General		220kV Existing Inaruwa Substation, It is to be noted that the Dropper coming down from Main Bus 1 is shown as Twin TRAAC, while Dropper coming down from Main Bus II is Single TRAAC. We assume this is a typographical error and the Dropper coming down from Main Bus 1 should be Single TRAAC, since, the Transfer bus is Single TRAAC. In view of above we will consider Single TRAAC conductor for 220kV Bay Extension. Please confirm.	220 kV Switchyard extension works shall be in similar fashion of under construction 220 kV switchyard at Inaruwa Substation inline with technical specification. The details of the same shall be provided during the detail engineering.
367	Project Specific requirement	Cl.3.1 - 30 - Civil works (m)		Please clarify whether we just have to dismantle the existing drain or re-route the drain.	Dismantling the existing drain or re-route the drain is under the present scope of the works. Please refer clause 30) m, page 14, Chapter 1 –Project Specific Requirement of the technical specifications.
368	Project Specific requirement & BOQ	Civil works		BoQ mentions only dismantling of drain, whereas project specific requirement mentions diversion of drain/canal/nala. Please clarify the exact scope.	Please refer, ANNEX –A: SPECIAL CONDITION FOR HETAUDA 400 KV SUBSTATION, Chapter 16 –Civil Works of technical specification and Clarification given in S.N. 367 above.
369	Project Specific requirement	General		We understand that the scope of the contractor is limited to the switchyard boundary only at both sites. Please confirm.	Confirmed, whereas contractor shall complete the scope of the works inline technical specifications.
370	Civil works - 16.3	Earth work		We understand that the earthfilling for both sites is limited to 400 kV switchyard only. Please confirm.	Earthfilling shall be done under the area of present scope of works.
371	Civil works - 16.9	Roads		We understand that the scope of construction of roads envisaged within the switchyard boundary only. Please confirm.	Confirmed
372	Chapter 5– Technical Specification of Transformer	Annexure-A 1.0 (1.8), Pg No. 103	Impedance at 75 Deg C HV - IV Max. Voltage tap % 10.3 Principal tap % 12.5 Min. Voltage tap % 15.4 HV - LV Principal tap (minimum) % 60.0 IV - LV Principal tap (minimum) % 45.0	Please confirm our understanding that Impedance values of HV-LV & and IV-LV at 75 Deg C mentioned are minimum requirements. Higher values meeting minimum requirement are acceptable or not. Please confirm.	Acceptable meeting the technical requirements in line with provision of the bidding documents and relevant IEC Standard.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
373	Chapter 5– Technical Specification of Transformer			Please confirm whether we can change the regulation voltage method required in the technical specification from the high voltage side regulation voltage to the medium voltage side regulation voltage.	Shall be finalized during detail engineering in line with the provision of the technical specification and contract agreement.
374	For both Hetauda substation and Inaruwa substation	Volume-II page290, clause 16.3.2		In this clause, it describes that "For existing substations, the requirement of digital RTCC panel and relays are specified in Chapter 1-PSR/BPS", but we didn't find the quantity requirement in Chapter 1-PSR or BPS, so kindly clarify the requirement of digital RTCC panel and relays .	Please refer the Clarification given in S.N. 353 above.
375	1) Chapter-1- Project Specific Requirement 2) Electrical Layout plan drawing for Hetauda S/s	Cl. No. 2.1.1.1 v) Drawing No. - NEA-HDI-SS-E-01(02) Drawing No. - NEA-HDI-E-LY-01 OF 01	Under construction, 1 nos. of 220 kV line bay (AIS) shall be used for 220 kV side ICT bay with necessary augmentation.	Please confirm on following points while using Existing Line Bay for 220kV side ICT termination as per present scope of work. 1) No dismantling of Existing Line side Equipments (LA, BPI, CVT etc) 2) No Cabling from Existing AIS Bay Equipments till Existing Switchyard panel room under present scope of work. 3) No Cabling from Existing Control Room Building to AIS Bay Equipments & Existing Switchyard panel room under present scope of work. 4) No construction of new cable trench for Existing Bay. 5) Lighting, Earthing & Shielding system is existing for Existing 220kV Line bay getting transformed to 220kV ICT Bay.	Dismantling and stored at designated place within substation boundary of Existing Line side Equipments (LA, BPI, CVT etc) are under the scope of the contract. Further, all the necessary augmentation works in the Existing AIS Line Bay Equipments for the use of ICT bays are included in the present scope of the works inline with provision of the Bidding Documents.
376	Chapter-1- Project Specific Requirement Hetauda S/s & Inaruwa S/s	3.1.1 19) Pg No. 12 3.1.1 20) Pg No. 21	19) Fire protection system	Request you to furnish details of Existing Fire water system for extension scope of works. Kindly confirm that Existing Fire fighting Annunciation panels shall cater to requirements of present scope of work. Request you to provide tap off point for extension of Hydrant system for present scope of work.	Shall be provided and finalized during detail engineering.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
A.	**TECHNICAL**				
377	Chapter-1- Project Specific Requirement Inaruwa S/s	3.2.1 27) (iv) Pg No. 22	The necessary extension/augmentations to complete the scope of works for Main Switch Board(MSB), AC Distribution Board (ACDB), Main Lighting Distribution Board (MLDB), Emergency Lighting Distribution Board (ELDB) and Power Kiosk as required is in present scope of work.	Please confirm our understanding as below : 1) Augmentation of MSB board with change of only Incomer Feeder from Existing 33kV switchyard to New supplied LT transformer through tertiary of ICT. 2) Extension of ACDB Board for which necessary incomer feeders from MSB board to be provided by customer. 3) Extension of MLDB Board for which which necessary incomer feeders from MSB board to be provided by customer. 4) Extension of ELDB Board for present scope of work.	1) Augmentation of MSB board with change of Incomer Feeder from Existing 33kV switchyard to New supplied LT transformer through tertiary of ICT with necessary augmentations as required. 2) Extension of ACDB Board for which necessary incomer feeders from MSB board as required. 3) Extension of MLDB Board for which which necessary incomer feeders from MSB board as required. 4) Extension of ELDB Board for present scope of work. Further, please refer clause 3.2.1 27) Pg No. 22, Chapter 1-PSR of the technical specifications. The details of the existing system shall be provided during detail engineering.
378	Chapter 6 – Technical Specification of Shunt Reactor	Cl. No. 7.8 Pg No. 11	Maintenance-free Dehydrating Breather	In Specified clause, we feel there is typographical error in no of breathers. Maintenance Free Breather two or three in series are not required. So we are considering one number maintenance free breather for main tank . Please confirm.	Confirmed
379	Chapter 5– Technical Specification of Transformer	Annexure-B Pg No. 59	Measurement of transferred surge on LV (Tertiary) as applicable due to HV lightning impulse and IV lighting impulse.	Transfer Surge on Tertiary due to HV Impulse & IV impulse shall be carried out by using RSO method. Please confirm our understanding.	Shall be carried out as per Technical Specification or IEC/international standards recommended method.
380	Chapter 5– Technical Specification of Transformer	Cl. No. 7.8 Pg No. 11	Dehydrating Breather	In Specified clause, we feel there is typographical error in no of breathers. Maintenance Free Breather two or three in series are not required. So we are considering one number maintenance free breather for main tank & one number maintenance free breather for OLTC. kindly confirm.	Confirmed

Nepal Electricity Authority
Transmission Directorate
HETAUDA-DHALKEBAR-INARUWA 400KV SUBSTATION EXPANSION PROJECT
Procurement of Plant Design, Supply, and Installation, Testing and Commissioning of 400 kV Hetauda and Inaruwa Substations (ICB No: HDI/ICB/GIS/HTD-INA)

Clarification No.1

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
1	Vol-I	Section-2, Bid Data Sheet ITB 21.1	The Bidder shall furnish a bid security, from "A" class commercial bank with a minimum of NRs. 127,400,000.00 or an equivalent amount in USD @exchange rate of Nepal Rastra Bank 30 Days prior to the Deadline for Bid Submission, which shall be valid for 30 days beyond the validity period of the bid. If the bank guarantee is issued by a foreign bank, it shall be counter guaranteed by a "A" class commercial bank in Nepal.	We request NEA to provide equivalent amount in USD or amend the clause as below: The Bidder shall furnish a bid security, from "A" class commercial bank with a minimum of NRs. 127,400,000.00 or an equivalent amount in USD @exchange rate of Nepal Rastra Bank 30 Days prior to the original Deadline for Bid Submission i.e 2nd July 2018, which shall be valid for 30 days beyond the validity period of the bid. If the bank guarantee is issued by a foreign bank, it shall be counter guaranteed by a "A" class commercial bank in Nepal.	Please refer Addendum No.2 of the Bidding Document.
2	Volume I, Part III, Section 8, Special Conditions of Contract	Section 8 clause 14.4	Tax Deduction at Source (TDS)	As per tender clause it is stated that, "As per the law of Nepal the Employer will deduct TDS at the rate as applicable at the time of execution of the contract from each payment to the Contractor and deposit to the Revenue office." Further it is stated that "The TDS shall be deducted from the contract amount as per the prevailing rules and regulation (i.e. Income Tax Act and Regulation) of Government of Nepal." 1. We understand that as per Nepal law 1.5% TDS is applicable to contractors i.e. TDS will be deducted on entire contract value. 2. In case there is a favorable Double Taxation Avoidance Agreement (DTAA) between Government of Nepal and contractor's country (India) then TDS as per provisions of DTAA will be deducted i.e. TDS will be deducted only on payments made for local construction and erection work. No TDS will be deducted on payments made for supplies from outside Nepal. Kindly confirm our understanding for above point 1 & 2.	All firms carrying out works in Nepal are required to be registered at Inland Revenue office. The TDS shall be deducted from the total contract amount as per the prevailing rules and regulation (i.e. Income Tax Act and Regulation) of Government of Nepal. Contractor shall submit the tax return of total payment under the contract and to obtain the tax clearance of the total contract amount (Both Supply and Installations) from the Inland Revenue office of Nepal as per prevailing rules and regulations of the Government of Nepal. Please refer Section 8, SCC, Taxes and Duties of the Bidding Document.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
3	SEC-VII-GC	14. Taxes and Duties	14.1 Except as otherwise specifically provided in the Contract, the Contractor shall bear and pay all taxes, duties, levies and charges assessed on the Contractor, its Subcontractors or their employees by all municipal, state or national government authorities in connection with the Facilities in and outside of the country where the Site is located.	Kindly clarify Bidder being Exporter from India whether accountable for discharge of Nepal Local Taxes & Duties for Overseas Supply.	Contractor shall submit the tax return of total payment under the contract and to obtain the tax clearance of the total contract amount (Both Supply and Installations) from the Inland Revenue office of Nepal as per prevailing rules and regulations of the Government of Nepal. Please refer Section 8, SCC, Taxes and Duties of the Bidding Document.
4	SEC-VII-GC	14. Taxes and Duties	14.2 Notwithstanding GC Sub-Clause 14.1 above, the Employer shall bear and promptly pay (a) all customs and import duties for the Plant specified in Price Schedule No. 1; and (b) other domestic taxes such as, sales tax and value added tax (VAT) on the Plant specified in Price Schedules No. 1 and No. 2 and that is to be incorporated into the Facilities, and on the finished goods, imposed by the law of the country where the Site is located.	Kindly clarify whether Bidder to pay Nepal Customs duty for Offshore Material & Equipment for the project even when we are an Exporter. Kindly clarify whether Nepal Income Tax is deductable on Export Sales Invoices of all imported material and equipment, supplied by Bidders.	The TDS shall be deducted from the total contract amount as per the prevailing rules and regulation (i.e. Income Tax Act and Regulation) of Government of Nepal. Contractor shall submit the tax return of total payment under the contract and to obtain the tax clearance of the total contract amount (Both Supply and Installations) from the Inland Revenue office of Nepal as per prevailing rules and regulations of the Government of Nepal. Please refer Section 8, SCC, Taxes and Duties of the Bidding Document.
5	SEC-VII-GC	14. Taxes and Duties	14.2.1 The Project is entitled for 1% custom duty and VAT exemption. The Contractor has to follow all the procedures to import Plant & Mandatory Spare Parts to be supplied from abroad in Price Schedule No. 1. The Contractor shall pay all the taxes and duties applicable at the point of entry (custom). Employer will refund such amount to the Contractor upon submission of the related original documents. However, Employer will not be responsible for any demurrage charges applicable due to delay in custom clearance.	Kindly clarify whether Bidder to pay Nepal Customs duty for Offshore Material & Equipment for the project even when we are an Exporter.	Contractor shall submit the tax return of total payment under the contract and to obtain the tax clearance of the total contract amount (Both Supply and Installations) from the Inland Revenue office of Nepal

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
6	SEC-VII-GC	14.2.3 Tax Deduction at Source (TDS)	As per the law of Nepal the Employer will deduct TDS at the rate as applicable at the time of execution of the contract from each payment to the Contractor and deposit to the Revenue office. The Contractor shall be provided with all details in this regard promptly. The Contractor shall be responsible for obtaining tax clearance before issuance of Final Acceptance Certificate or before releasing the final 5% retention amount.	Kindly confirm whether Bidder to discharge Nepal Income Tax and at what rate for Supply of the Plant & Equipment from outside Nepal. Kindly clarify whether Nepal Income Tax is deductable on Export Sales Invoices of all imported material and equipment, supplied by Bidders. Kindly clarify the rate of Advance Income Tax to be deducted and whether advance Income Tax to be deducted from Invoices of Offshore Supplies. Kindly confirm applicable taxes on local services portion. Whether advance Income Tax to be deducted from Invoices of Onshore Supply/ Service also.	The TDS shall be deducted from the total contract amount as per the prevailing rules and regulation (i.e. Income Tax Act and Regulation) of Government of Nepal. Contractor shall submit the tax return of total payment under the contract and to obtain the tax clearance of the total contract amount (Both Supply and Installations) from the Inland Revenue office of Nepal as per prevailing rules and regulations of the Government of Nepal. Please refer Section 8, SCC, Taxes and Duties of the Bidding Document.
7	Section 6, SCC 14		Additional Clause (Taxes & Duties)	As per the Double Tax Avoidance treaty between India and Nepal , Indian contractors are not subject to any deduction of tax for CIP supplies to Nepal without creation of Permanent establishment. Therefore, we understand that no tax shall be deducted on offshore supplies by Indian contractors. **Please confirm**.	The TDS shall be deducted from the total contract amount as per the prevailing rules and regulation (i.e. Income Tax Act and Regulation) of Government of Nepal. Contractor shall submit the tax return of total payment under the contract and to obtain the tax clearance of the total contract amount (Both Supply and Installations) from the Inland Revenue office of Nepal as per prevailing rules and regulations of the Government of Nepal. Please refer Section 8, SCC, Taxes and Duties of the Bidding Document.
8	Section 8, SCC 14		Additional Clause (Taxes & Duties)	**Please add to the end of the paragraph as below:** Employer shall issue/provide in timely manner (not later than 7 days from document submission) the necessary certificates/documents towards deduction/payment of tax as may be required by the Contractor to comply with Nepal Tax laws. In case of delay by employer, the Contractor shall be entitled to time & cost reimbursement.	Please refer Section 8, SCC, Taxes and Duties of the Bidding Document.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
9	Section 8, SCC 14		Additional Clause (Taxes & Duties)	**Please add to the end of the paragraph as below:** Custom Duty shall be issued to the Authorities within 3 days of submission of request for Duty payment by Contractor. In case of delay by Employer, the Contractor shall be entitled to time & cost reimbursement.Any detension or Demurrage due to delay in issuance of Custom Duty payment should be borne by the Employer based on the documentary evidence provided by the Contractor.	Provision of Bidding Documents remains unchanged
10	Section 8, SCC 14		Additional Clause (Taxes & Duties)	**Please add to the end of the paragraph as below:** We understand that no Withholding tax for offshore services will be dedcuted by the customer.	Provision of Bidding Documents remains unchanged
11	Section 8, SCC 14		Additional Clause (Taxes & Duties)	**Please confirm on the following:** a) If Any tax/charges would be deducted by the customer while remitting the payments to indian contractors for offshore supplies, b) If Any tax registration is required in Nepal for consortium member.	a)Provision of Bidding Documents remains unchanged. b) Each JV/consortium shall required to register at Inland Revenue office. Please refer Section 8, SCC, Taxes and Duties of the Bidding Document.
12	Section 8, SCC 14		Additional Clause (Taxes & Duties)	**Please confirm on the following:** If Any tax registration is required in Nepal for consortium member whose scope is limited to offshore supplies.	Each JV/consortium shall required to register at Inland Revenue office. Please refer Section 8, SCC, Taxes and Duties of the Bidding Document
13	Volume-I, Section 3 - Evaluation and Qualification Criteria	Cl-2.7 (2)(iii)		As per referred clause it is mentioned that " Manufacturer should have successfully carried out Dynamic Short Circuit test on 3-phase, 315MVA, 400/220/33kV and 1-phase, 167MVA, 400/√3/220/√3/33kV Auto transformers as per IEC in accredited laboratory (accredited based on ISO/IEC Guide 25/17025 or EN 45001 by the national accreditation body of the country where laboratory is located) as on the originally scheduled date of bid opening and shall enclose the relevant Test Report/certificate along with bid." We request you to accept DSC conducted on 3-phase, 315MVA, 400/220/33kV for 1-phase, 167MVA, 400/√3/220/√3/33kV Auto transformers for 167MVA also, since the design is similar, and it is generally acceptable by all major utilities in India.	Please refer Addendum No.2 of the Bidding Document.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
14	Section 3 - Evaluation and Qualification Criteria	2.4.2 specific experience	Participation as contractor, management contractor, or subcontractor, in at least one (1) contracts within the last 10 years, each with a value* of at least 37 MUSD that have been successfully or are substantially** completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as described in Section 6- Employer's Requirement. The similar to proposed works here shall mean the contracts of design, supply, installation and commissioning of 400 kV or above voltage class GIS substations.	We understand that the clause for similar works of 400 kV GIS has been introduced to support any particular Bidder and this shall lead to restriction of the Bidders. Also this clause is contradictory to the previous tender for similar works. Kindly confirm whether the experience of AIS job as reference for past project shall be acceptable.	Provision of Bidding Documents remains unchanged
15	Section 3 - Evaluation and Qualification Criteria			We would request NEA to limit the short circuit test requirement certificate for 3 phase, 315 MVA 400/220 kV Auto Transformer & 1 phase, 105 MVA, 400/220 kV Auto Transformer only and design validation of both these Auto Transformers (3 phase 315 MVA and Single phase 167 MVA) can be done using design concept of 3 phase 315 MVA, 400/220 kV & 1 phase, 105 MVA, 400/220 kV Auto Transformers respectively. Please confirm	Please refer Addendum No.2 of the Bidding Document.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
16	Section 3 - Evaluation and Qualification Criteria		Must have successfully carried out the complete type test as per IEC in Short-Circuit Testing Liaison (STL) – Accredited Laboratory on 400 kV voltage class GIS Switchgears (Circuit Breaker, Disconnectors, Grounding Switches, Instrument Transformers, SF6/Air & Oil Bushing etc;). If the manufacturer had not successfully carried out complete type test as per IEC in Short-Circuit Testing Liaison (STL) - Accredited Laboratory as on the originally scheduled date of bid opening, bidder have to submit undertaking letter along with bid to carry out the mentioned test in Short-Circuit Testing Liaison (STL) - Accredited Laboratory from offered Manufacturer without any extra cost to Employer. The validity of type test reports of GIS shall be within last 10 (ten) years prior to the originally Scheduled date of bid opening. In case the test reports are of the test conducted earlier than 10 (ten) years prior to the originally Scheduled date of bid opening, the contractor shall repeat these test(s) at no extra cost to the Employer.	420kV GIS Product are manufactured in China factory under license agreement with the parent company and therefore design of product manufactured in china factory are identical to the ones of the parent company .All production/testing/quality norms followed in the China factory are exactly same as been followed by parent company in their factory. The offered product are already been type tested by the parent company and since there is no change in design , we do not envisage to repeat or perform any type tests for this project if awarded. Please confirm.	Type test report of 400 kV GIS equipments manufacturing from the same manufacturing plant shall only be acceptable as per the provision of the contract.
17	SCC clause 8	Completion time	The period following completion of plant and services in accordance with provisions of the contract shall be Eighteen Month (18) Months.	In the view of large volume of work and scope to be executed for the project, we request to please furnish completion time of 24 months.	Provision of Bidding Documents remains unchanged
18	SCC clause 8	Completion time		We understand that the completion time of 18 months is applicable for Hetauda and Inaruwa sites separately. Please confirm.	Hetauda and Inaruwa substation combined is single contract and the contract completion period shall be 18 month.
19	ITB 19.1	Bid currencies		We request you to allow Indian Rupee as a Foreign currency to be quoted in Price schedule NO. 1.	Provision of Bidding Documents remains unchanged
20		Procurement of Plant Design, Supply and Installation 220/132kV Hetauda and Inaruwa Substations		Kindly confirm Employer to issue two separate Orders, one for Supply and other for Civil & Erection. If not kindly insist for the same.	Single Contract, not separated.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
21	Volume-I, Section 3 - Evaluation and Qualification Criteria	Clause 2.7 Subcontractors/ Manufacturers, Sr. No. 2, Power Transformers	(iii) Manufacturer should have successfully carried out Dynamic Short Circuit test on 3-phase, 315MVA, 400/220/33kV and 1-phase, 167MVA, 400/√3/220/√3/33kV Auto transformers as per IEC in accredited laboratory (accredited based on ISO/IEC Guide 25/17025 or EN 45001 by the national accreditation body of the country where laboratory is located) as on the originally scheduled date of bid opening and shall enclose the relevant Test Report/certificate along with bid.	3-phase, 315MVA, 400/220/33kV Auto Transformer is the highest rated single unit transformer among all the transformers under scope of project. This 3- phase 315MVA, 400/220/33kV Auto Transformer will carry highest Full load current and short time transient currents in comparison to the 1-phase, 167MVA, 400/√3/220/√3/33kV Auto transformers. Hence it is requested to accept the Dynamic short circuit test for highest rated 3-phase, 315MVA, 400/220/33kV Auto transformer only against the requirement of both rating of 3-phase, 315MVA, 400/220/33kV and 1-phase, 167MVA,400/√3/220/√3/33kV Auto transformers. The above request is also to be considered simultaneously for Volume-II, Chapter 5– Technical Specification of Transformer, Clause no. 3.13.	Please refer Addendum No.2 of the Bidding Document.
22	Volume-I, Section 3 - Evaluation and Qualification Criteria	Clause 2.7 Subcontractors/ Manufacturers,	Sr. No. 1, Gas Insulated Switchgear	It is requested to add the below content in addition to described qualification requirement to submit comprehensive and competitive bids for the bidders: "In case manufacturer is a 100% subsidiary of a holding company and adopt the same design, manufacturing practice (i.e. quality assurance / quality control) having its own manufacturing and testing facilities may use the holding company's experience and credentials provided that the holding company undertakes and guarantees the design and manufacturing as well as the performance of the equipment and manufacturer (i.e. 100% subsidiary of a holding company) shall provide extended extra guarantee of two year beyond the defect liability period without additional cost to the Employer."	Provision of Bidding Documents remains unchanged
23	Volume I, Part I, Section 1, Invitation for Bids		4. A complete set of bidding documents may be purchased within office hours from 16 May, 2018 up to preceding day of last date of bid submission as specified in clause 6 below or any extension thereof by interested Bidders on the submission of a written application to the address below.	Bidder understood that Tender Document Fee in for of demand draft will be submitted along with the bid. Kindly confirm.	Stamped Tender document from must be purchased from NEA as per the provision of bidding document by paying tender document fee.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
24	Volume I, Section 3 - Evaluation and Qualification Criteria	1.3.7 Domestic Preference	(g) Bidders shall not be permitted to quote the price for the same items in both schedules (Schedule No.1 & Schedule No.2).	Which schedule will finalized during financial evaluation, kindly elaborate this clause.	Schedule 1 is for Plant, and Mandatory Spares Parts supplied from abroad should be quoted in USD or NRs. Schedule 2 is for Plant, and Mandatory Spares Parts supplied Within Employer's Country which should be quoted in NRs. Bidders shall not be permitted to quote the price for the same items in both schedules (Schedule No.1 & Schedule No.2).
25	Volume I, Section 2 - Bid Data Sheet ITB39.5	ITB39.5	The amount of the performance security be increased by Eight (8) percent of the quoted bid price.	Bidder understood that Performance Guarantee should be 8% of total contract value. Kindly Confirm.	Performance security shall be as per SCC, Clause-13 of the Bidding Documents.
26	Volume I, Section 3 - Evaluation and Qualification Criteria	1.3.2 Time Schedule	Time to complete the plant and services from the effective date specified in Article 3 of the Contract Agreement for determining the time for completion of pre-commissioning activities is: 18 months	Bidder understood that effective date start from as per Article 3 Effective Date of Section 9 – Contract Forms; "The Employer has paid the Contractor the advance payment" Kindly Confirm	Contract effective date shall start as per volume I, section 9, contract forms, contract agreement, article 3, effective date of the Bidding Document.
27	Volume I, Section 9 – Contract Forms		Article 3 Effective Date 3.1 Effective Date (Reference GCC Clause 1) The Effective Date upon which the period until the Time for Completion of the Facilities shall be counted from is the date when all of the following conditions have been fulfilled: (a) This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor. (b) The Contractor has submitted to the Employer the performance security and the advance payment guarantee. (c) The Employer has paid the Contractor the advance payment.		

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
28	Volume I, Section 9 – Contract Forms	Appendix 1 - Terms and Procedures of Payment (A) Terms of Payment	Ten percent (10%) of the total CIP amount as an advance payment against receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer. The advance payment security may be reduced in proportion to the value of the plant and mandatory spare parts delivered to the site, as evidenced by delivery documents.	i) Bidder presumed that Mobilization payment should be interest free, this clarification required for pricing purpose. Ii) Bidder presumed that the mobilization payment security may be reduced in proportion to the value of the plant quarterly.	i) Your understanding is correct. ii) Mobilization payment security progressively reduced as per the conditions of the Bidding Documents.
29	Section 3 - Evaluation and Qualification Criteria		Must have successfully carried out the complete type test as per IEC in Short-Circuit Testing Liaison (STL) – Accredited Laboratory on 400 kV voltage class GIS Switchgears (Circuit Breaker, Disconnectors, Grounding Switches, Instrument Transformers, SF6/Air & Oil Bushing etc;). If the manufacturer had not successfully carried out complete type test as per IEC in Short-Circuit Testing Liaison (STL) - Accredited Laboratory as on the originally scheduled date of bid opening, bidder have to submit undertaking letter along with bid to carry out the mentioned test in Short-Circuit Testing Liaison (STL) - Accredited Laboratory from offered Manufacturer without any extra cost to Employer. The validity of type test reports of GIS shall be within last 10 (ten) years prior to the originally Scheduled date of bid opening. In case the test reports are of the test conducted earlier than 10 (ten) years prior to the originally Scheduled date of bid opening, the contractor shall repeat these test(s) at no extra cost to the Employer.	Regarding GIS equipment, the Type Test reports is done by original plant, but the goods will be supplied from regional plant. Shall the GIS vendor supply the equipments from the plant which is the same in line with STL type test report?	Type test report of 400 kV GIS equipments manufacturing from the same manufacturing plant shall only be acceptable as per the provision of the contract.
				In the bidding documents the type test report is required from STL lab. If the GIS vendor doesn't have STL Type Test report, is the undertaking acceptable for GIS vendor that provide the STL type test reports before supply in case of awarded. Meanwhile, the completion duration is 18 months but STL type test will take around one year, is it acceptable to extend the completion date to provide the STL type test reports.	Bidders who submit the undertaking from GIS Vendor to provide STL Type Test Report of 400 kV GIS after award of contract, shall also submit the proper time schedule of the type test to be conducted at STL Lab in order to complete the project without hampering the completion period (18 Months) of the contract.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
30	Section 8, SCC 7.3		The Contractor shall ensure the availability of spare parts for the supplied items for a minimum period of five (05) years from the operational acceptance by the Employer. The Contractor shall carry sufficient inventories to ensure an ex-stock supply of consumable spares for the Plant. Other spare parts and components shall be supplied as promptly as possible, but at the most within 6 months of placing the order and opening the letter of credit. In addition, in the event of termination of the production of spare parts, advance notification will be made to the Employer of the pending termination, with sufficient time to permit the Employer to procure the needed requirement. Following such termination, the Contractor will furnish to the extent possible and at no cost to the Employer the blueprints, drawings and specifications of the spare parts, if requested.	**Please clarify the below two points:** 1) 6 months delivery is not possible for all equipments. We confirm prompt supply of spares within a reasonable period. Please accept. 2) Blueprints of spare parts are intellectual property of the manufacturers. We understand that only the non-IPR related drawings/as-built drawings need to be provided under this clause for the purpose of identification of spare parts. Please confirm.	Provision of Bidding Documents remains unchanged
31	Section 8, SCC 45		Disputes and Arbitration: The place is Kathmandu, Nepal	Please modify the clause as below: b) In case the Contractor is a firm from foreign country; Court of Arbitration of the International Chamber of Commerce, Paris The number of arbitrators shall be three- One appointed by Employer, second one appointed by Siemens and third shall be neutral as agreed by both the parties. Venue of arbitration shall be Singapore	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
32	Section 9, Contract Agreement		3.1 Effective Date (Reference GC Clause 1) The Effective Date upon which the period until the Time for Completion of the Facilities shall be counted from is the date when all of the following conditions have been fulfilled: (a) This Deed of Agreement has been duly executed for and on behalf of the Employer and the Contractor; (b) The Contractor has submitted to the Employer the performance security and the advance payment guarantee; (c) The Employer has paid the Contractor the advance payment Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable.	**Please modify the clause as below:** The Effective Date from which the Time for Completion of the Facilities shall be counted is the date when all of the following conditions have been fulfilled: (a) This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor; (b) The Contractor has submitted to the Employer the performance security and the advance payment guarantee; (c) The Employer has paid the Contractor the advance payment **for onshore and offshore portion**. Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable **(d) The employer has established letter of credit for re-imbursement of payment to contractor full value of contract.**	Provision of Bidding Documents remains unchanged
33	Section 6, 5.2 Form of Advance security		Additional Clause	**Please add the below clause at the end of 3rd paragraph of the ABG format:** This Guarantee shall be reduced upon shipment by the goods to be evidenced by presentation of the Contractor to us of copy(ies) of the corresponding invoice and the bill of lading which shall be accepted as conclusive evidence that our guarantee can be reduced to nil and therefore has expired.	Provision of Bidding Documents remains unchanged
34	Section 6, 5. 1Form of Advance /Performance security		Additional Clause	**Please add the below clause at the end of 5th paragraph of the ABG format:** After expiry, this Guarantee shall be returned to us.	Provision of Bidding Documents remains unchanged
35	Section 9, Appendix-1		Terms and procedures of payments B) Payment procedures	Please add the following as an additional clause: a) In case of consortium, Separate invoicing shall be made by the lead bidder and consortium member for its own scope, b) In case of consortium, Separate payments shall be released by customer directly to consortium leader and consortium member for their respective scope of works. c) In case of consortium, Two separate L/C can be opened for offshore-supplies by the customer for consortium leader and member for their respective scope of works.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
36	Additional clause		Opening of Letter of Credit	We understand that letter of credit shall be opened at the time of contract signing for the full value of contract.	Letter of credit shall be open before dispatch of the matrial under price schedule 1 &2 as per the provision of the contract agreement.
37	Section 9, Form of Performance security		Additional Clause	**Please add the below clause at the end of 3th paragraph of the PBG format:** After expiry, this Guarantee shall be returned to us. "This guarantee is to be returned to the Bank immediately on expiry. If the Bank does not receive the bank guarantee latest by the expiry date, it shall be deemed to be automatically cancelled". This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.	Provision of Bidding Documents remains unchanged
38	Section 9, Form of Advance security		Additional Clause	**Please add the below clause at the end of 5th paragraph of the ABG format:** After expiry, this Guarantee shall be returned to us. "This guarantee is to be returned to the Bank immediately on expiry. If the Bank does not receive the bank guarantee latest by the expiry date, it shall be deemed to be automatically cancelled".	Provision of Bidding Documents remains unchanged
39	Section 9, Form of Advance security		5th Paragraph The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as indicated in copies of interim statements or payment certificates, which shall be presented to us.	**Please modify as mentioned below:** The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as indicated in copies of interim statements or payment certificates, and amendment to the bank guarantee to be processed at the written request of the applicant. Such reduced value to be notified by you on your letterhead ~~which shall be presented to us~~.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
40	Section 9, Form of Advance security		3rd Paragraph At the request of the Contractor, we . . . . . name of the bank. . . . . hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of . . . . . name of the currency and amount in figures3. . . . . (. . . . . amount in words. . . . .) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor used the advance payment for purposes other than the costs of mobilization in respect of the Works .	**Please modify the existing clause as mentioned below:** Bank Guarantees shall become effective only when the advance payment has been paid by the Purchaser. At the request of the Contractor, we . . . . . name of the bank. . . . . hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of . . . . . name of the currency and amount in figures3. . . . . (. . . . . amount in words. . . . .) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor used the advance payment for purposes other than the costs of mobilization in respect of the Works along with a letter from your bank detailing the payment of advance to the Contractor 's account. Bank Guarantees shall become effective only when the advance payment has been paid by the Purchaser.	Provision of Bidding Documents remains unchanged
41	ITB 44, Performance Bank Guarantee		ITB 39.5 BDS - ITB- 39.5 The amount of the performance security be increased by Eight (8) percent of the quoted bid price. ITB- 44.1 Within Fifteen (15) days of the receipt of Letter of Acceptance from the Employer, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, as specified below from A class Commercial Bank using Sample Form for the Performance Security included in Section 9 (Contract Forms), or another form acceptable to the Employer. The performance security issued by any foreign Bank outside Nepal must be counter guaranteed by an "A" class commercial Bank in Nepal.	Since customer cost estimate is not provided in the tender hence bidder understand that PBG value should not be more than 10% of the Bid price. Please confirm.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
42	ITB 44, Performance Bank Guarantee		ITB 39.5 BDS - ITB- 39.5 The amount of the performance security be increased by Eight (8) percent of the quoted bid price. ITB- 44.1 Within Fifteen (15) days of the receipt of Letter of Acceptance from the Employer, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, as specified below from A class Commercial Bank using Sample Form for the Performance Security included in Section 9 (Contract Forms), or another form acceptable to the Employer. The performance security issued by any foreign Bank outside Nepal must be counter guaranteed by an "A" class commercial Bank in Nepal.	If the Bidder price is below 15% of the cost estimate, then the Bidder needs to provide the Performance Security as per the formula provided in the Tender document, to calculate the Performance security value, request you to please clarify/provide the following: a) Provide the Approved Cost Estimate for the project?, b) We understand that VAT is exempted for this project so not VAT will be added.Please confirm, c) Apart from the amount mentioned in Section 1,Item 44,will the additional 8% of the quoted bid price will be added in the amount of performance security? Please confirm the percentage of performance security in the contract.	(a) Official estimate cannot be provided. Bidders are required to realistically assess all the site condition, technical specification and quote their price accordingly. (b) VAT is exempted for all imported material and equipment under Price Schedule No. 1. However, VAT shall be applicable for the rest of the price schedules. (c)Performance security shall be as per SCC, clause-13 of the Bidding Documents.
43	Additional clause		Payment Agency	All the payment made under the contract will be coming from which Funding Agency. Kindly confirm.	Funding Agency is Government of Nepal/ Nepal Electricity Authority.
44	Section- 9, Appendix-1- (B) Payment Procedures		Terms and procedures of payments B) Payment procedures	Please add the following as an additional clause: The payment of the Contract Price shall be made through an irrevocable commercial letter of credit to be opened by the Employer in favor of the Contractor. All costs in connection with Letter of Credit within Nepal shall be brone by the Employer and outside Nepal shall be borne by the Contractor.	Provision of Bidding Documents remains unchanged
45	Section 7, GCC30		30.1 Except in cases of criminal negligence or willful misconduct: (a) the Contractor shall not be liable to the Employer, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer	Please modify the existing clause as mentioned below: Except in cases of criminal negligence or willful misconduct: (a) the Contractor shall not be liable to the Employer, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage,interuptions of operations or loss of use, loss of production, or loss of profits or interest costs,cost of captital,loss of power, and cost of purchased or replacement power,loss of information and data, and damages based on the customer's third party contracts provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
46	Additional clause		Export Reservation clause	There is always a risk of changes in the laws of countries importing the shipments. There is a need for capping the risk and cost implications attached with the levy of embargos on international movement of equipments and services therefore the Contractor requests for inclusion of clauses to mitigate the risks of these trade embargoes for the uniform and smooth execution of the projects. We request for the inclusion of a clause for reservation in the Tender documents. the same may be read as : The contractor's obligation to fulfill this agreement is subject to the proviso that the fulfillment is not prevented by any impediments arising out of national and international foreign trade and customs requirements or any embargos or other sanctions.	Provision of Bidding Documents remains unchanged
47	Additional clause		Foreign Exchange	Bidder requests that any changes in the cost of the project resulting from changes in the rates for major Foreign Currencies shall be borne by the Customer. Foreign exchange variations shall be provided to the Bidder against submission of documentary evidence. Further the Bidder shall provide the Foreign exchange rates as taken at the time of bidding of the project.	Provision of Bidding Documents remains unchanged
48	Additional clause, GCC 26.2		GCC 26.2	Bidder request for confirmation that such liquidated damages would be levied on the contractor if the Contractor fails to attain completion of facilities or any part thereof within the Time of Completion for the reasons/delay caused by Contractors fault. Contractor shall not be charged liquidated damages for the reasons that are not attributable to him.	Provision of Bidding Documents remains unchanged
49	Additional clause		Contractor's responsibilities	Contractor shall be responsible for only those permits that has to be taken in his own name. Please clarify the approvals required to be taken by contractor. Also, fees for all such approvals need to be paid by the Employer. Please confirm.	Provision of Bidding Documents remains unchanged
50	Vol-I	Volume 1 , clause 1.3.4	Losses capitalization	Kindly re-confirm the capitalization rate of reactor loss.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
51	Vol-I	Volume 1, Appendix 1	Terms of payment, Schedule-1 :Five percent (5%) of the total or pro rata CIP or amount upon completion of defect liability period, within 45 days after receipt of invoice. Schedule-2 :Five percent (5%) of the total or pro rata EXW amount upon completion of defect liability period, within 45 days after receipt of invoice. Schedule-3: Five percent (5%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon completion of defect liability period, within 45 days after receipt of invoice.	We request NEA to release this last 5% payment against bank guarantee of equivalent amount upon issue of the Completion Certificate, within 45 days after receipt of invoice.	Provision of Bidding Documents remains unchanged
52	Vol-I	Volume 1, Appendix 2	Price adjustment	Considering the scope involves & completion schedule, we request NEA to consider price on variable basis and provide price adjustment formula.	Provision of Bidding Documents remains unchanged
53	Vol-I	Volume 1, Appendix 6	Scope of Works and Supply by the Employer	Kindly provide the applicable charges or NEA rules for the facilities and supplies being arranged by NEA.	Prevailing charges & rates of NEA is applicable for the facilities and supplies being arranged by NEA in line with terms and conditions of Bidding Document.
54	Vol-I	ITB Clause 34.1 (b)	Detailed Evaluation of Technical Bids	We will supply spares parts as per list and quantity given in the price schedule only. No other spares shall be in our scope. Please confirm.	Confirmed

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
55	Vol-I	Section-3,Clause No. 2.7, Item No.2, iii Power Transformer	Manufacturer should have successfully carried out Dynamic Short Circuit test on 3-phase, 315MVA, 400/220/33kV and 1-phase, 167MVA, 400/√3/220/√3/33kV Auto transformers as per IEC in accredited laboratory (accredited based on ISO/IEC Guide 25/17025 or EN 45001 by the national accreditation body of the country where laboratory is located) as on the originally scheduled date of bid opening and shall enclose the relevant Test Report/certificate along with bid. If the manufacturer had not successfully carried out Dynamic Short Circuit test on 3-phase, 315MVA, 400/220/33kV and 1-phase, 167MVA, 400/√3/220/√3/33kV Auto transformers as per IEC in accredited laboratory (accredited based on ISO/IEC Guide 25/17025 or EN 45001 by the national accreditation body of the country where laboratory is located) as on the originally scheduled date of bid opening,	You shall appreciate that Dynamic short circuit test is a destructive test which deteriorates the quality and life span of the transformer. Moreover, it will also impact the delivery schedule of the project. Manufactures have already carried out Short Circuit test on 315 MAV 400/220/33 kV 3-phase Auto Transformer and shall submit the test report for the same to demonstrate our design capability. For 167 MVA 400/√3/220/√3/33kV 1-phase Auto transformers it is proposed to provide the short circuit calculations after award of contract to demonstrate the Short circuit withstand capability. We request you to kindly accept our proposal in this regard	Please refer Addendum No.1 of the Bidding Document.
56	GCC Clause 10.2	GCC Clause 10.2	Employer Responsibilities - Handing over of Site and Right to way to the Site	We understand that in the event of delay in handover of Site and delay by Employer under GCC Clause 10, we would be entitled to claim extension of time with costs under Clause 40 of the GCC. Please confirm.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
57	Vol-I	Section 7 - General Conditions of Contract, Clause 7.3 & Section 8 - Special Conditions of Contract 7.3 of SCC	The Contractor shall ensure the availability of spare parts for the supplied items for a minimum period of five (05) years from the operational acceptance by the Employer. The Contractor shall carry sufficient inventories to ensure an ex stock supply of consumable spares for the Plant. Other spare parts and components shall be supplied as promptly as possible, but at the most within 6 months of placing the order and opening the letter of credit. In addition, in the event of termination of the production of spare parts, advance notification will be made to the Employer of the pending termination, with sufficient time to permit the Employer to procure the needed requirement. Following such termination, the Contractor will furnish to the extent possible and at no cost to the Employer the blueprints, drawings and specifications of the spare parts, if requested.	(i) Contractor will ensure to keep the availability of mandatory spares parts. However, we understand that time duration to do so needs to be practically feasible. Technology is continuously evolving and maintaining spares inventory for such a long period is not practical. Requesting NEA to change period from five years to 1 year. Ii) With respect to the requirement of sharing all drawing and technical information of spares – We can only share non-proprietary drawings. We can provide alternate source for the spares or provide the spares from another factory.	Provision of Bidding Documents remains unchanged
58	Vol-I	Section 7 - General Conditions of Contract, Clause 20.3.1	The Contractor shall prepare or cause its Subcontractors to prepare, and furnish to the Project Manager the documents listed in the Appendix (List of Documents for Approval or Review) to the Contract Agreement for its approval or review as specified and in accordance with the requirements of GCC Subclause 18.2 (Program of Performance).	The Contractor shall not share any proprietary information, drawings, designs etc., produced or developed by the contractor for this Project. Requesting NEA to amend the clause accordingly.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
59	Vol-I	Section 7 - General Conditions of Contract, Clause 15.1	License/ Use of Technical Information- For the operation and maintenance of the Plant, the Contractor hereby grants a non-exclusive and nontransferable license (without the right to sublicense) to the Employer under the patents, utility models, or other industrial property rights owned by the Contractor or by a third party from whom the Contractor has received the right to grant licenses thereunder, and shall also grant to the Employer a nonexclusive and nontransferable right (without the right to sublicense) to use the know-how and other technical information disclosed to the Employer under the Contract. Nothing contained herein shall be construed as transferring ownership of any patent, utility model, trademark, design, copyright, know-how, or other intellectual property right from the Contractor or any third party to the Employer.	We propose following: For the operation and maintenance of the Plant, the Contractor hereby grants a non-exclusive and non-transferable license (without the right to sublicense) to the Employer under the patents, utility models, or other industrial property rights owned by the Contractor or by a third party from whom the Contractor has received the right to grant licenses thereunder, and shall also grant to the Employer a nonexclusive and non-transferable right (without the right to sublicense) to use the know-how and other technical information disclosed to the Employer under the Contract for the operation and maintenance of the Plant.	Provision of Bidding Documents remains unchanged
60	Vol-I	Section 7 - General Conditions of Contract, Clause 15.2	The copyright in all drawings, documents, and other materials containing data and information furnished to the Employer by the Contractor herein shall remain vested in the Contractor or, if they are furnished to the Employer directly or through the Contractor by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.	We propose following: The copyright in all drawings, documents, and other materials containing data and information furnished to the Employer by the Contractor herein shall remain vested in the Contractor or, if they are furnished to the Employer directly or through the Contractor by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party. However, the Employer shall be obligated to use such drawings, documents and other material for the intended purpose only and shall indemnify and keep Contractor indemnified against any losses, claims, damages, penalty and compensation arising out of or in connection thereto.	Provision of Bidding Documents remains unchanged
61	Vol-I	Section 7 - General Conditions of Contract, Clause 16	Confidential Information	We understand that in absence of any specified protection period, the obligation of confidentiality shall survive for 2 years. Please confirm.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
62	Vol-I	Section 7 - General Conditions of Contract, Clause 21.2.2	Upon receipt of such item, the Contractor shall inspect the same visually and notify the Project Manager of any detected shortage, defect, or default. The Employer shall immediately remedy any shortage, defect, or default, or the Contractor shall, if practicable and possible, at the request of the Employer, remedy such shortage, defect, or default at the Employer's cost and expense…….	We understand that there shall be no employer supplied material under this contract and hence this clause shall not be applicable. However if Employer supplied material, we understand that Time for Completion shall be extended accordingly in the event of delay on account of the Employer as per clause 40.1 (e).	Provision of Bidding Documents remains unchanged
63	Vol-I	Section 7 - General Conditions of Contract, Clause 21.1.1 (b)	……..If such error is based on incorrect data provided in writing by or on behalf of the Employer, the expense of rectifying the same shall be borne by the Employer	We understand that Contractor would be entitled to extension of time in addition to costs for such delays/ errors.	Provision of Bidding Documents remains unchanged
64	Vol-I	Section 7 - General Conditions of Contract, Clause 22.6	If the work done or caused to be done by the Employer is work that the Contractor was liable to do at its own expense under the Contract, the reasonable costs incurred by the Employer in connection therewith shall be paid by the Contractor to the Employer.	We Propose following: If the work done or caused to be done by the Employer is work that the Contractor was liable to do at its own expense under the Contract, the reasonable actual costs incurred by the Employer in connection therewith shall be paid by the Contractor to the Employer.	Provision of Bidding Documents remains unchanged
65	Vol-I	Section 7 - General Conditions of Contract, Clause 22.6	As soon as reasonably practicable after the operating and maintenance personnel have been supplied by the Employer and the raw materials, utilities, lubricants, chemicals, catalysts, facilities, services, and other matters have been provided by the Employer in accordance with GCC Subclause 24.2, the Contractor shall commence Pre-commissioning of the Facilities or the relevant part thereof in preparation for Commissioning, subject to GCC Subclause 25.5.	We understand that Contractor would be entitled to extension of time in for any delay due to the Employer.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
66	Vol-I	Section 7 - General Conditions of Contract, Clause 27.8	If the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Employer because of any of the aforesaid reasons.	We request that warranty for replaced items shall have a cut-off date beyond which all obligations of Contractor for warranty shall cease to exist. The existing clause may result in evergreen warranty obligations for contractor.	Provision of Bidding Documents remains unchanged
67	Vol-I	Section 7 - General Conditions of Contract, Clause 27.8	Except as provided in GCC Clauses 27 and 33, the Contractor shall be under no liability whatsoever and howsoever arising, and whether under the Contract or at law, in respect of defects in the Facilities or any part thereof, the Plant, design, or engineering, or work executed that appear after Completion of the Facilities or any part thereof, except where such defects are the result of the gross negligence, fraud, criminal, or willful action of the Contractor.	We propose following: Except as provided in GCC Clauses 27 and 33, the Contractor shall be under no liability whatsoever and howsoever arising, and whether under the Contract or at law, in respect of defects in the Facilities or any part thereof, the Plant, design, or engineering, or work executed that appear after Completion of the Facilities or any part thereof, except where such defects are the result of the gross negligence, fraud, criminal, or willful misconduct ~~action~~ of the Contractor. Willful action needs to be changed to willful misconduct. Definition should be as provided below: 1.1 “Willful Misconduct" means, on the part of a Party’s Managerial or Senior Supervisory Personnel, an intentional and wrongful act, or an intentional and wrongful omission of some act, in either case with the intent to inflict damage or injury. 1.2 “Managerial or Senior Supervisory Personnel” means any person employed by a party that is not an hourly worker, clerk, craft labourer, mechanic, foreman, subcontractor, engineer, inspector, Technical Advisor (“TA”), TA Site Manager, Customer Performance Manager, first level of managerial or supervisory personnel, or Senior Supervisory Personnel, an intentional and wrongful act, or an intentional and wrongful omission of some act, in either case with the intent to inflict damage or injury.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
68	Vol-I	Section 7 - General Conditions of Contract, Clause 29.1	Such indemnity shall not cover any use of the Facilities or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the Facilities or any part thereof, or any products produced thereby in association or combination with any other equipment, plant or materials not supplied by the Contractor, pursuant to the Contract Agreement.	Please add the below to clause 29.1: Notwithstanding anything contained in the Contract, the Contractor shall have no obligation or liability with respect to any Claim based upon (a) Products or Services that have been modified, or revised, (b) failure of Employer to implement any update provided by Contractor that would have prevented the Claim, or (c) Products or Services made or performed to Employer 's specifications. For avoidance of any doubt each party shall retain ownership of all confidential information and intellectual property it had prior to the contract. All rights in and to products not expressly granted to Employer are reserved by contractor. All new intellectual property conceived or created by contractor in the performance of this contract, whether alone or with any contribution from Employer, shall be owned exclusively by contractor. Employer agrees to deliver assignment documentation as necessary to achieve that result.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
69	Vol-I	Section 7 - General Conditions of Contract, Clause 30.2	The aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the amount resulting from the application of the multiplier specified in the SCC, to the Contract Price or, if a multiplier is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.	We propose following: The aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the amount resulting from the application of the multiplier specified in the SCC, to the Contract Price or, if a multiplier is not so specified, the total Contract Price, provided that this limitation shall not apply to ~~the cost of repairing or replacing defective equipment, or to~~ any obligation of the Contractor to indemnify the Employer with respect to patent infringement. here should not be exceptions to the limit of liability for the cost of repairing and replacing defective equipment. This should be a part of the limitation of liability. Please modify. The terms Gross Negligence and Willful Misconduct shall have following meaning: 1.3 “Gross Negligence” means tortious acts or omissions by Seller’s Managerial or Supervisory Personnel, well in excess of negligence and amounting to an intentional disregard of a grave, known risk, where such disregard constitutes an extreme deviation from even minimal care. 1.4 “Willful Misconduct" means, on the part of a Party’s Managerial or Senior Supervisory Personnel, an intentional and wrongful act, or an intentional and wrongful omission of some act, in either case with the intent to inflict damage or injury.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
70	Vol-I	Section 7 - General Conditions of Contract, Clause 33.1	The Contractor shall indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any or loss of or damage to any property, arising in connection with the supply and installation of the Facilities and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Employer, its contractors, employees, officers or agents.	We Propose following: The Contractor shall indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any Third party or loss of or damage to any third party property, arising in connection with the supply and installation of the Facilities and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Employer, its contractors, employees, officers or agents. Please add the following as Clause 33.1: Employer (as an "indemnifying party") shall indemnify the contractor (as an "indemnified party") from and against claims brought by a third party, on account of personal injury or damage to the third party's tangible property, to the extent caused by the negligence of the indemnifying party in connection with this contract. In the event the injury or damage is caused by joint or concurrent negligence of the Employer and contractor, the loss or expense shall be borne by each party in proportion to its degree of negligence. For purposes of contractor's indemnity obligation, no part of the products or site is considered third party property.	Provision of Bidding Documents remains unchanged
71	Vol-I	Section 7 - General Conditions of Contract, Clause 41	Suspension and Termination	There is no recourse available to the Contractor for Suspension/ termination in case of non-payment or delayed payment. This is onerous. We request that the Contractor shall be entitled to suspend/ terminate the agreement for non-payment or delayed payment of amounts due to it under the Contract.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
72	Vol-I	Section 7 - General Conditions of Contract, Clause 42.6	Termination	Kindly add the below as Clause 42.8: If Employer terminates the Contract pursuant to Section 42.4 (a), (b), (c), (e), (f), (g), (h) and/ or 42.6, then (i) Contractor shall reimburse Employer the difference between that portion of the Contract Price allocable to the terminated scope and the actual amounts reasonably incurred by Employer to complete that scope, and (ii) Employer shall pay to Contractor (a) the portion of the Contract Price allocable to Products completed, and (b) amounts for Services performed before the effective date of termination. The amount due for Services shall be determined in accordance with the milestone schedule (for completed milestones) and rates set forth in the Contract (for work toward milestones not yet achieved and where there is no milestone schedule), as applicable or, where there are no milestones and/or rates in the Contract, at Contractor's then-current standard time and material rates.	Provision of Bidding Documents remains unchanged
73	Vol-I	Section 7 - General Conditions of Contract, Clause 43	Neither the Employer nor the Contractor shall, without the express prior written consent of the other party (which consent shall not be unreasonably withheld), assign to any third party the Contract or any part thereof, or any right, benefit, obligation or interest therein or thereunder.	Please add the following at the end of the Clause: Nothing herein shall affect the right of the Contractor to assign receivable under the Contract by way of factoring.	Provision of Bidding Documents remains unchanged
74	Vol-I	Section 7 - General Conditions of Contract, Clause 34.1	To the extent specified in the Appendix (Insurance Requirements) to the Contract Agreement, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, who should not unreasonably withhold such approval.	To the extent specified in the Appendix (Insurance Requirements) to the Contract Agreement, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix. ~~The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, who should not unreasonably withhold such approval.~~	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
75	Vol-I	Section 7 - General Conditions of Contract, Clause 34.1 (b)	Covering physical loss or damage to the Facilities at the Site, occurring prior to Completion of the Facilities, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the Defect Liability Period while the Contractor is on the Site for the purpose of performing its obligations during the Defect Liability Period.	As upon completion of switchyard all the installation activities shall be over and considering the same we propose that Installation all risks insurance will be effective till TOC, beyond that it should be covered under client's property insurance. Please confirm.	Provision of Bidding Documents remains unchanged
76	Vol-I	Section 7 - General Conditions of Contract, Clause 34.1 (c)	Third Party Liability Insurance Covering bodily injury or death suffered by third parties including the Employer's personnel, and loss of or damage to property occurring in connection with the supply and installation of the Facilities.	As Employee's personnel shall be covered in Employee's own insurance program, we request to amend the clause as below: Third Party Liability Insurance Covering bodily injury or death suffered by third parties including ~~the Employer's personnel,~~ and loss of or damage to property occurring in connection with the supply and installation of the Facilities.	Provision of Bidding Documents remains unchanged
77	Vol-I	Section 7 - General Conditions of Contract, Clause 34.1 (f)	Employer's Liability In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed	Kindly specify the statutory requirements if any.	Provision of Bidding Documents remains unchanged
78	Vol-I	Section 7 - General Conditions of Contract, Clause 34.5	The Employer shall at its expense take out and maintain in effect during the performance of the Contract those insurances specified in the Appendix (Insurance Requirements) to the Contract Agreement, in the sums and with the deductibles and other conditions specified in the said Appendix.	Please specify the amount of deductibles.	Provision of Bidding Documents remains unchanged
79	Vol-I	Appendix 3 - Insurance Requirements (A) Insurances To Be Taken Out By The Contractor	In accordance with the provisions of GCC Clause 34, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, such approval not to be unreasonably withheld.	In accordance with the provisions of GCC Clause 34, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified. ~~The identity of the insurers and the form of the policies shall be subject to the approval of the Employer~~, ~~such approval not to be unreasonably withheld.~~	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
80	Vol-I	Appendix 3 - Insurance Requirements (a)Cargo Insurance	(*) Excess 5% of claimed amount subject to minimum of NRs. 20,000 or its equivalent for Normal and NRs. 80,000 or its equivalent for act of God perils and collapse.	We request NEA to delete the foot note: ~~(*) Excess 5% of claimed amount subject to minimum of NRs. 20,000 or its equivalent for Normal and NRs. 80,000 or its equivalent for act of God perils and collapse.~~	Provision of Bidding Documents remains unchanged
81	Vol-I	Appendix 3 - Insurance Requirements (b)Installation All Risks Insurance	Installation All Risks Insurance Covering physical loss or damage to the Facilities at the Site, occurring prior to completion of the Facilities, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the defect liability period while the Contractor is on the Site for the purpose of performing its obligations during the defect liability period	As upon completion of switchyard all the installation activities shall be over and considering the same we propose that Installation all risks insurance will be effective till TOC, beyond that it should be covered under client's property insurance. Please confirm.	Provision of Bidding Documents remains unchanged
82	Vol-I	Appendix 3 - Insurance Requirements (b)Installation All Risks Insurance	(*) Excess 5% of claimed amount subject to minimum of NRs. 10,000 or its equivalent for Normal and NRs. 30,000 or its equivalent for testing period.	We request NEA to delete the foot note: ~~(*) Excess 5% of claimed amount subject to minimum of NRs. 10,000 or its equivalent for Normal and NRs. 30,000 or its equivalent for testing perioerils and collapse.~~	Provision of Bidding Documents remains unchanged
83	Vol-I	Section 8 - Special Conditions of Contract, Clause 15	License/ Use of Technical Information	Kindly add the following second paragraph: Under Sub-clause 15.2. The Employer shall however shall have the right to reproduce any or all drawings, documents and other materials furnished to the Employer for the intended purpose only in relation to this ~~of the~~ Contract and in addition, if required, for operation and maintenance ~~and other contracts of Employer.~~	Provision of Bidding Documents remains unchanged
84	Vol-I	General	New Clause- No Nuclear use	The Owner shall confirm that the products/goods and services provided under this contract shall not be used in connection with any nuclear plant or nuclear use. Any such use shall be in fundamental breach of this agreement. Please confirm.	Provision of Bidding Documents remains unchanged

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
85	Vol-I	General	SAFETY	Contractor has no responsibility or liability for the pre-existing condition of Employer's equipment or the Site. Prior to Contractor starting any work at Site, Employer will provide documentation that identifies the presence and condition of any Hazardous Materials existing in or about Employer's equipment or the Site that Contractor may encounter while performing under this Contract. Employer shall disclose to Contractor industrial hygiene and environmental monitoring data regarding conditions that may affect Contractor's work or personnel at the Site. Employer shall keep Contractor informed of changes in any such conditions	Provision of Bidding Documents remains unchanged
86	Vol-I	General	GENERAL INDEMNITY	Employer (as an "Indemnifying Party") shall indemnify the Contractor (as an "Indemnified Party") from and against claims brought by a third party, on account of personal injury or damage to the third party's tangible property, to the extent caused by the negligence of the Indemnifying Party in connection with this Contract. In the event the injury or damage is caused by joint or concurrent negligence of Employer and Contractor, the loss or expense shall be borne by each party in proportion to its degree of negligence. For purposes of Contractor's indemnity obligation, no part of the Products or Site is considered third party property.	Provision of Bidding Documents remains unchanged
87	General-Hindrance Register			Hindrance register shall be maintained by us at site which shall include the delays due to force majures,natural calamities etc. and extension/compensation shall be provided to us for the same.	Provision of Bidding Documents remains unchanged
88	Volume -1, Section 1 - Instructions to Bidders,	Clause ITB 4.3 Conflict of Interest	A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if any of, including but not limited to, the following apply: (e) a Bidder participates in more than one bid in this bidding process, either individually or as a partner in a joint venture, except for alternative offers permitted under ITB 13. This will result in the disqualification of all Bids in which it is involved. However, subject to any finding of a conflict of interest in terms of ITB 4.3(a)-(d) above, this does not limit the participation of a Bidder as a subcontractor in another Bid or of a firm as a subcontractor in more than one Bid;	We understand from this clause that a Bidder can participate in another Bid as a subcontractor/manufacturer or participate in more than one Bid as a subcontractor/manufacturer. Please confirm that our understanding is correct.	Bidders are not allowed to participate in more than one Bid as a main bidder or member of Joint Venture/Consortium. However, Bidder can participate in another Bid as a subcontractor/manufacturer or participate in more than one Bid as a subcontractor/manufacturer.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
89	Volume - I Section 3 - Evaluation and Qualification Criteria	Clause 2.7 Gas Insulated Switchgear	Subcontractors/ Manufacturers's Evaluation - Gas Insulated Switchgear Must have successfully carried out the complete type test as per IEC in Short-Circuit Testing Liaison (STL) – Accredited Laboratory	The Short-Circuit Testing Liaison (STL) (WEB: www.stl-liaison.org) displays that "Organisations generally as defined on the members sheet which have applied for membership may be accepted as Applicants at the discretion of the Management Committee. Applicants must participate in the work of the Technical Committee for at least 5 years, after which time a recommendation may be made from the Technical Committee to the Management Committee for the Applicant to become a Member."  the STL and the products which have passed the test are high-quality. Please confirm whether the type test report from 'CHPTL, China' is accepted.	Type test report of 400 kV GIS equipments must be from Short-Circuit Testing Liaison (STL) - Accredited Laboratory. Type test report of 400 kV GIS equipments from applicant of Short-Circuit Testing Liaison (STL) - Accredited Laboratory is not accepted.
90	Volume I Section 8 Special Conditions of Contract	Contractor's Responsibilities 9.0	Add the following new Sub-Clauses: GCC 9.9-- Existing Fences	Please clarify the ownship of the fence.If we will repeal the fence whether we need to get the permission of the owner.	Provision of Bidding Documents remains unchanged.
91	BDS-Bid Data Sheet	ITB 2.1		Please confirm the source of funding and how project financing is secured in total?	GoN Funded project
92	BDS-Bid Data Sheet	IT 18.4(a)(i)		Please confirm the applicable taxes of Nepal on onshore and offshore portions?	The contract will be combined for the total contract (both ooffshore & onshore portions). Contractor has to register in VAT in Nepal and Contractor shall submit the tax return of total payment under the contract and to obtain the tax clearance of the total contract amount (Both Supply and Installations) from the Inland Revenue office of Nepal as per prevailing rules and regulations of the Government of Nepal.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
93	BDS-Bid Data Sheet	ITB 19.1		Please accept Indian Rupee currency also for Price schedules 1 to 4	Provision of Bidding Documents remains unchanged.
94	Form of Contract Agreement	Article 1		We understand that bid addendum and clarifications are part of Contract agreement.Please confirm?	Please refer the Section 9 - Contract Forms,Contract Agreement, Article 1 Contract Documents of the Bidding Documents.
95	Notification of Award (or) Letter of Acceptance	Section 9 – Contract Forms		Please confirm if Notification of Award and respective acceptance by contractor forms the Contract and is binding between the parties?	Please refer,Section 1 - Instructions to Bidders, F. Award of Contract of Bidding Documents.
96	**GCC**	1.1 Defnitions & Article 3.1 of Contract Agreement (CA)		Please confirm the availability of funds equal to 100% of the Project Cost?	In accordance with its annual program and budget, approved by the GoN, the Nepal Electricity Authority plans to apply a portion of the allocated budget to eligible payments under the contract(s) for which this Bidding Document is issued.
97	**GCC**	1.1 Defnitions & Article 3.1 of Contract Agreement (CA)		Please modify the Effective date clause as suggested: If the conditions listed under 3.1 are not fulfilled within three (3) months from the date of this Contract notification because of reasons not attributable to the Contractor, the Parties shall discuss and agree on and the Time for Completion and/or other relevant conditions of the Contract. If no mutual agreement is concluded within 30 days then the rights and obligations of the Employer and the Contractor shall be as specified in GCC Subclauses 42.3 with entitlement to claim additional costs of termination..The Contractor shall not however, benefit (in reckoning the Time for Completion) on account of its delay in providing the Performance Security or the Bank Guarantee for advance payment beyond the period provided in the Contract.	Provision of Bidding Documents remains unchanged.
98	**GCC**	Cl 12 & Appendix 1 of Contract Agreement		Please allow interest on due payments at the rate of 3%+ interest rates prevailing in Nepal Rastra Bank	Provision of Bidding Documents remains unchanged.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
99	**SCC**	cl 9.9		The responsibility seem to be pecular and Contractor shall not be made liable for getting permission from land owners. Request NEA to include the same in Employer's responsibilty.Contractor shall be entitled for any additional time and cost impact in fulfilling this obligation, if required so. Also request Employer to include the same in price schedule as line item	Provision of Bidding Documents remains unchanged.
100	**SCC**	cl 9.10		We request Employer to provide us hindrance free site. Contractor shall not be made liable for any lines passing across the site which interface with the existing scope. All such works shall be specified clearly in Scope and to be included as a line item in Price schedule.	Provision of Bidding Documents remains unchanged.
101	**SCC**	Cl 11.1		Please confirm that the revised price schedule shall be subject to Change in Facilities provisions of the Contract.	Provision of Bidding Documents remains unchanged.
102	**SCC**	Cl 14.4	As per the law of Nepal the Employer will deduct TDS at the rate as applicable at the time of execution of the contract from each payment to the Contractor and deposit to the Revenue office. ~~The Contractor shall be provided with all details in this regard promptly. The Contractor shall be responsible for obtaining tax clearance before issuance of Final Acceptance Certificate or before releasing the final 5% retention amount.~~	Release of final 5% retention amount cannot be linked to Tax clearance certificate as the Employer is already holding performance bank guarantee. Request to delete the clause	Provision of Bidding Documents remains unchanged.
103	**SCC**	Cl 8.2		We understood that Time for Completion of 18 months shall be treated separately for Hetauda and Inaruwa substations for Completion and taking over as both are independent sites. Please confirm?	Time for completion of whole facilities as per the contact shall be 18 months.
104	**SCC**	13.3.3		Employer is already holding 5% of the Contract Price upto end of DLP.Hence request to release/reduce the performance security.	Provision of Bidding Documents remains unchanged.
105	**SCC**	19		Please confirm what is the timeline for approval of new qualified contractor or vendor if introduced during the execution process?	Provision of Bidding Documents remains unchanged.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
106	**GCC**	Cl 10.2		Please confirm the timeline for legal and physical possession and peaceful handover of Full Site to Contractor? Please include the following in Appendix 6 (Scope of Works and Supply by Employer) 1. Full Handover of Site with full external and internal access to Site 2.Construction Power and Construction Water within reasonable distance from work area within the Site.	Provision of Bidding Documents remains unchanged.
107	**SCC**	**Cl 23.6**		Please confirm clearly who is liable for travelling, boarding and lodging expenses. The clause mentioned 23.2 should be read as 23.6.	Provision of Bidding Documents remains unchanged.
108	**SCC**	Cl 24		Please confirm when the Risk transfer occurs and upto when the Contractors obligation to Care and custody of the Facilities will remain?	Provision of Bidding Documents remains unchanged.
109	**GCC**	**Cl 25.5.2**		Please modify the clause as below: When the Contractor notifies or is notified by the Project Manager that he will be unable to proceed with the activities and obligations pursuant to above GCC Sub-Clause 13.1 the Contractor shall be entitled to the following: a) the Time of Completion shall be extended and additional Costs will be reimbursed for the period of suspension without imposition of liquidated damages pursuant to GCC Sub-Clause 26.2. Additional costs not limited to Additional Charges on Overheads extended period, Insurance, Bank Guarantees, Remobilization expenses, Warranty, Extended Warranty, Extension of Time and respective Cost, Equipment refurbishment / precommissioning expenses.	Provision of Bidding Documents remains unchanged.
110	**GCC/SCC**	**Cl 25.5.1**		Please allow deemed provisions for Operational acceptance if contractor is delayed by more than 21 days to proceed with Commissioning, Guarantee tests.	Provision of Bidding Documents remains unchanged.
111	**SCC**	**Cl 26.2**		Please modify the clause as: Maximum deduction for liquidated damages: ~~10%~~ 5% of Contract Price. The application of LD is Employer's sole and exclusive remedy due to failure of Contractor's performance and the principle of "No harm no foul" shall apply	Provision of Bidding Documents remains unchanged.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
112	**SCC**	**Cl 27.2**	Replace “Completion of the Facilities (or any part thereof)” in the second line by "Operational Acceptance" in this Sub-Clause.	Please delete this clause	Provision of Bidding Documents remains unchanged.
113	**SCC**	**27.2**		Please modify the clause as: The Defect Liability period shall be 3 years from the date of last major material supply as appearing in price schedule or two(2) years from the date of Operational Acceptance, whichever is earlier	Provision of Bidding Documents remains unchanged.
114	**SCC**	**Cl 37**	37.6 Replace "either party may terminate." in line 7-9 by "the dispute will be resolved in accordance with GC Clause 45." in this Sub-Clause.	37.6 & 37.7 Delete this Sub-Clause in its entirety.	Provision of Bidding Documents remains unchanged.
115	**SCC**	**Cl 39**	39.2.2 Delete this Sub-Clause in its entirety and replace with the following: “Upon instruction from the Project Manager, the Contractor shall prepare the ‘Change Proposal’ without any cost to the Employer”.	Request to delete this clause	Provision of Bidding Documents remains unchanged.
116	**SCC**	**Cl 39**		Please amend the clause as: 39.2.5 Replace "shall withdraw the proposed Change and shall notify the Contractor in writing thereof." at the end of the first paragraph by "and the Contractor shall agree on specific rates for valuation of the Change." in this Sub-Clause. If no mutual agreement is arrived within 30 days from date of notice then such change order scope deemed to be deleted	Provision of Bidding Documents remains unchanged.
117	**SCC**	**Cl 39**		Please amend the clause as: 39.4 Add this new Sub-Clause as follows: The scope of work under the package shall be as per the Section-6 “Employer’s Requirement” of Bidding Documents. The quantity variation applicable for the existing scope shall be generally as per the following. a) The Employer reserves the right to increase or decrease ~~the quantity of different items of the specified goods and service~~s the Contract Price to the extent of fifteen percent (+/-15%) ~~of the revised contract price pursuant to the GC Clause 11.1,~~ by way of suitable amendment to the Contract, without any change in unit rate/price and/or other terms and conditions of the Contract. However, the quantities of individual items of goods and services may vary ~~up to any extent.~~ upto 5% of the Contractual quantity.	Provision of Bidding Documents remains unchanged.

S.N.	Volume / Section	Clause No.	Text as per Bid documents	Bidder's Query	NEA Clarification
B.	**Commercial**				
118	**GCC**	**Cl 40.1**		Please amend the clause as: The Time(s) for Completion specified in the SCC shall be extended and **additional cost impact on Contract Price will be amended** if the Contractor is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:	Provision of Bidding Documents remains unchanged.
119	**SCC/GCC**	Cl 42.8		Please add: Contractor shall be entitled to terminate the Contract by immediate notice in writing in the event of the Employer's insolvency, or, in the event of Employer default if the Employer fails to rectify any default within 30 days after service of notice in writing specifying the default. Default for the purposes of this clause shall, without limitation, include a failure to issue a certificate properly due to Contractor or to pay payments when due. Contractor shall also be entitled to terminate the Contract by notice in writing in the event of prolonged suspension by either party (other than for Contractor's default) of duration longer than 60 consecutive days, or an aggregate of 60 days in any 180-day period. Contractor is entitled to claim additional termination costs in the event of termination by Contractor due to Employer's default or breach of Contract or if employer terminates the contract under convenience.	Provision of Bidding Documents remains unchanged.