

**NEPAL ELECTRICITY AUTHORITY**  
**Project Management Directorate**  
**Province No. 2 Electrification Project**

OCB No. ICB-PMD-REDNRP-076/77-01  
Rural Electrification and Distribution Network Improvement in Province No. 2

**CLARIFICATION NO. 2**

SN	Lot (s)	Reference in Bid Documents	Description in Tender Documents	Bidder's Query/Comment	NEA Response
1	1, 2, 3, 4 & 5	Volume-I, Section 3	Section 3 - Evaluation and Qualification Criteria, 2.4.1	with regards to the captioned project, we are interested to participate multiple lots, however we noticed that in "1.4 Multiple Contracts" in" Section 3 - Evaluation and Qualification Criteria", it is mentioned that "the bidder bidding for multiple lots must ensure that they cumulatively meet the capacity and experience requirement stipulated for each of the lots". our reading on the above clause is that we will have to provide 10 contracts in the past 7 years if we want to bid all 5 lots, which is really difficult for potential bidders of multiple lots. We would request your good office to kindly consider allowing the interested bidder to bid multiple lots with 2 similar reference contracts in the past 7 years provided that the contract amount & cumulative kilometers can meet the experience requirement.	If a Bidder have experiences of two Contracts executed during last 7 (seven) years and the value of each Contract is sufficient to cover the cumulative value required for multiple lots as indicated,, then the Bidder is considered to have met EQC 2.4.1. It is not necessary to have separate experiences of 10 qualified contracts for 5 lots.
2	1, 2, 3, 4 & 5	Volume-I, Section 3	1.4 - Multiple Contracts" and Clause No "2.4.1 Contracts of Similar Size and Nature"	In reference to these clauses, in case a Bidders wants to bid and qualify for all the 5 Lots under the referred IFB, the bidder must have executed at least two contracts (CON-A and CON-B) within the last 7 years where the i. Value of "CON-A" is greater than or equal to USD 38.3 million (sum of 7.2+9.2+6.2+8.0+7.7) & ii. Value of "CON-B" is greater than or equal to USD 38.3 million (sum of 7.2+9.2+6.2+8.0+7.7) Or Alternatively Bidder has to establish that Bidder has executed multiple contracts (CON-A, CON-B, CON-C, CON-D..... etc) within the last 7 years to qualify for all lots?	Refer to NEA Response as in S.N. 1 above.
3	1, 2, 3, 4 & 5	Volume-I, Section 3	Section 3 - Evaluation and Qualification Criteria, 2.4.1	We have two big contracts of 60 Million USD of similar nature to that as demanded by this bid. Do we qualify for all 5 lots or do we need to present separate contracts for each lot?	Refer to NEA Response as in S.N. 1 above.
4	1, 2, 3, 4 & 5	Volume-I	Joint Venture	We are a company in Nepal and have executed similar kind of works. We would like to form a Joint Venture with company A to execute Lot 1 & Lot 2 and another different company B to execute Lot 3, Lot 4 & Lot 5. Do you allow this to qualify for the bid?	Yes, it is allowed to participate as JV in diferent lots with different Partners. And Each JV bidder shall have to purchase a separate Bidding Document and submit their Bid Proposal as indicated in clauses 11 and 23 of ITB/BDS.
5	1, 2, 3, 4 & 5	Volume-I / Section-8	SCC clause 14.2 Withhold Money	Under the current contract structure and modus operandi (wherein supplies are billed from India and construction services from Nepal), withholding tax implications are as follows @ 1.5% on contractual payments against construction invoices. This can be set-off against the final corporate tax liability in Nepal. A tax return needs to be filed @5% on supply invoices if supply done from India supply is done from Nepal with VAT then 1.5% withholding will be applicable. We have been served with recovery notices from the client NEA for recovery of TDS @5% on supply invoices which are billed from India. Accordance with the India-Nepal tax treaty no TDS should be applicable against supply invoices. However Tribunal has given their ruling in favour of NEA that if billing is done from Nepal by charging VAT only then the withholding is 1.50 %. Matter is now pending at court at Nepal. Sir, we want clear views on this matter.	Tax deducted at source (TDS) is the withholding tax by the employer subject to the payments realized as per the applicable tax laws and guidances by the tax authorities.  Regarding the currents rates and other ongoing cases, please refer to the websites of the concerned governmental department as below: 1) www.customs.gov.np 2) www.ird.gov.np



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6	1, 2, 3, 4 & 5	Volume-I, Section-7&8, GCC&SCC Clause No.14, Taxes and Duties	14.2 Notwithstanding GCC Subclause 14.1 above, the Employer shall bear and promptly pay all customs and import duties as well as other local taxes like, e.g., a value-added tax (VAT), imposed by the law of the country where the Site is located on the Plant specified in Price Schedule No. 1 and that are to be incorporated into the Facilities.  14.3 If any tax exemptions, reductions, allowances, or privileges may be available to the Contractor in the country where the Site is located, the Employer shall use its best endeavors to enable the Contractor to benefit from any such tax savings to the maximum allowable extent.	As per our current experience of working in Nepal, TDS is deducted @ 5% on all Foreign Currency payments & TDS on all Local Portion payments is deducted @1.5%. The amount deducted by NEA on account of TDS is non refundable & the TDS amount is not reimbursed by NEA. Please confirm for this project, whether TDS deducted for Foreign as well as Local Portion shall be reimbursed by NEA or contractor will bear the cost towards such deductions (TDS).	Refer to NEA Response as in S.N. 5 above.
7	1 & 2	Volume I, Section 3, Clause 2.5	Must submit the type test report carried out by independent internationally accredited testing laboratory conducted within last seven (7) years for the offered rating (voltage & capacity). If the bidder/manufacturer has not conducted the Type Test of the offered rating (voltage and capacity) then the Bidder/Manufacturer shall submit an undertaking letter stating that the Type Tests shall be conducted in an independent internationally accredited testing laboratory at their own cost.	Please confirm, if we submit the test reports in 132 kV class are acceptable to you?	The valid type tests of higher voltage and capacity is acceptable at this stage if the bidder/manufacturer has not conducted the Type Test of the offered rating (voltage and capacity). The Bidder/Manufacturer must submit an undertaking letter stating that the Type Tests shall be conducted in an independent internationally accredited testing laboratory at their own cost for the required rating (voltage and capacity) if the bidder is awarded the contract.
8	1 & 2	Volume I, Section 3, Clause 2.5	Must submit the type test report carried out by independent internationally accredited testing laboratory conducted within last seven (7) years for the offered rating (voltage & capacity). If the bidder/manufacturer has not conducted the Type Test of the offered rating (voltage and capacity) then the Bidder/Manufacturer shall submit an undertaking letter stating that the Type Tests shall be conducted in an independent internationally accredited testing laboratory at their own cost.	We can only submit the report 10 MVA, 33/11kV class, but it would not be sufficient for 16.6 MVA 33.11kV. Please note, we do not have 33/11kV class reports valid within 7 years.	Refer to NEA Response as in S.N. 1 above. The submitted Type Tests reports should have been conducted in last seven (7) years.



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9	1 & 2	Volume I, Section 3, Clause 2.5	Must have successfully completed the supply of power transformer at least twice the bid quantity as a main supplier over last five (5) years period ending on the last date of bid submission. Out of supplied quantity, a minimum of half the bid quantity shall have been in operation satisfactorily to the end users for at least One (1) year	Can we submit the performance certificates of the transformers supplied beyond 5 years?	No.
10	1, 2, 3, 4 & 5	Volume I, Section 3, Clause 2.5	Must submit the type test report carried out by independent internationally accredited testing laboratory conducted within last seven (7) years for the offered rating (voltage & capacity). If the bidder/manufacturer has not conducted the Type Test of the offered rating (voltage and capacity) then the Bidder/Manufacturer shall submit an undertaking letter stating that the Type Tests shall be conducted in an independent internationally accredited testing laboratory at their own cost.	We can only submit the type test reports with higher ratings. Please provide your confirmation about the acceptance of these reports.	Refer to NEA Response as in S.N. 7 above.
11	1, 2, 3, 4 & 5	Volume I	General	We need some clarification on following points: 1. Are Substation Lands & Source of 33 kV Feeders for Sub stations already identified/finalized or not? 2. How much % of project areas is used to be affected by flood annually? 3. Whose responsibility (Client or Contractor) is to clear the ROWs, if arises? 4. Who will bear the statutory fees on account of clearances from ROWs, if any?	1. Yes. 2. In general, there is no flooding for the substation areas. 3. In general, it is employer who will work for solving the RoW and other statutory requirements. However, the joint effort is expected for the better implementation of the project. In case of the consequences caused by the contractor, it is the responsibility of the contractor.
12	1, 2, 3, 4 & 5	Volume III	General	If we see missing items in BoQ then can we add it or not? If I add this then others did not and he will select then makes some variations...	No.
13	1 & 2	Section 6 - Employer Requirement, Clause 1.2.1	The scope of works consists of construction of six (6) completely new 33/11kV Substations at Saptari, Siraha and Dhanusa districts and 33kV Line bay constructions in existing Substations.	Please clarify the scope of work for bay extension in existing substation. Also please provide breakup of busbar item, gantry structure, insulator etc. i.e Lot Items. As per Schedule 1 Item No A1-13, please explain Source Bay & Destination Bay	1) The scope of works at source bay in existing substation is to design, supply, construct, testing and commissioning works of the bay equipments and control equipments required for the 33kV Line bay. 2) All the required works to complete the scope as provided is included in Lot items. The breakdown is not provided by the Employer. 3) The destination bay is the line bay constructed at 33kV Substation. The Source Bay is the line bay constructed at 132/33kV or 33kV Substation. For example, for Siraha Substation (Source bay at Sukhipur, destination bay is at Siraha). Similarly are for the other substations as mentioned in Volume I, Section 6.
14	1 & 2	Section 6 - Employer Requirement, Clause 1.2.2	The scope of works consists of construction of four (four) completely new 33/11kV Substations at Mahottari, Sarlahi, Rautahat, Bara and Parsa districts and 33 kV Line bays Construction in existing Substations.	Please clarify the scope of work for bay extension in existing substation. Also please provide breakup of busbar item, gantry structure, insulator etc. i.e Lot Items. As per Schedule 1 Item No A1-13, please explain Source Bay & Destination Bay	Refer to NEA Response as in S.N. 13 above.



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15	1 & 2	Volume - IIB & IIA - Specification Of Line materials/Equipments Tests to be witnessed by Employer	The Contractor shall carry-out [which the Employer's representative(s) shall witness] the following tests in a laboratory owned or nominated by the Employer after delivery in Nepal. The sample shall be selected by the Employer's representative(s) from the completed lot of delivered transformers. Cost for such tests shall be quoted in the Price Schedule and shall be paid by the Contractor/Manufacturer.	We presume that all Acceptance Tests shall be performed at Manufacturer Works and shall be witnessed by Client during inspection. Fresh Type Test, FAT, Routine Test etc. need not be performed after delivery of material at site. Please confirm.  In case these tests are to be performed after delivery at site in laboratory owned by client the cost of these tests shall be borne by NEA as there is no schedule in Price Schedules to quote for these tests.  In case cost of these tests are to be borne by Bidder then please provide revised price schedule incorporating separate schedule/line item to quote for these tests.	The Tests for the losses of all the supplied Distribution Transformers are to be performed at NEA laboratory. Costs for such tests shall be paid by the Employer.  The Factory Acceptance Test before the dispatch of materials are to be performed at Manufacturers' Premises and are witnessed by Employer's representative. Costs of the tests should be paid by the Contractor/Manufacturer.  The general inspection of all the items shall be conducted after delivery at site also.
16	1 & 2	Technical Specification/Volume-IIA/section-1/Point-2.4/ Page No.12	2.4 Bearing Loads The Contractor shall use an allowable soil bearing pressure of 1.0kg/cm2 for the design of the foundation for the purpose of bidding, but this is only reference value. After award of contract the Contractor shall carry out detail soil test and detail design of foundation based on the soil test result. There may be variation in the volume of work in final design compared to the bidding design, for which the Contractor will not get any extra payment.	As per our previous experience in Nepal the SBC is 3T/m2 to 5T/m2. However as per tender specifications the Allowable bearing pressure is mentioned as 10 T/m2. Bidder will estimate the cost based on the given values in tender. In case Bearing Pressure decreases during detailed engineering the entire design & estimate will change resulting in significant additional cost to the bidder. Therefore it is requested to please accept variation and provide compensation for additional cost due to such technical parameters during execution of project.  Also in case the Soil Bearing Capacity is lower than specified, Pilling may be required at certain locations. Since pilling work is not included in BOQ it is requested to please incorporate pilling work in BOQ.	The detail design is in the scope of contractor who shall conduct the soil investigation as per the applicable standards and technical specifications. Payments for the items as mentioned in Price Schedule 4, A1 will be as per the actual measurement.  The Pile foundation has not been considered and is not included in Price Schedule.
17	1 & 2	Technical Specification/Volume-IIA/section-1/Point-2.12.4/ Page No.18	2.12.4 Lean Concrete Lean concrete of minimum 5 cm. thickness shall be used under all foundations with the ratio of cement: fine aggregate: coarse aggregate equal to 1:3:5 (by volume).	In technical specification Lean concrete ration is mentioned as 1:3:5 whereas in BOQ it is specified as 1:3:6. Please confirm the exact requirement.	The requirement as per the Price Schedule 4 is applicable.
18	1 & 2	Technical Specification/Volume-IIA/section-1/Point-3.9.2/ Page No.30	3.9.2 Plaster Construction a) Thickness of plaster Thickness of plaster from the face of the plaster base to the finish plaster surface shall be 2.0 cm.	In technical specification Plaster thickness is mentioned as 20mm whereas in BOQ it is specified 12.5mm. Please confirm the exact requirement.	The requirement as per the Price Schedule 4 is applicable.
19	1 & 2	BOQ Schedule-4/Point No. A1/ Sr. No. 12	Construction of retaining wall with random Rubble masonry in cement sand mortar (1:5) including levelling up with stone soling and 100mm thick PCC (1:3:6) ,providing weep holes of PVC pipes (150 mm dia) with necessary filter material at the mouth of weep holes,50 mm thick cement concrete (1:2:4) copping on the top of wall ,excavation of foundation for all lifts up to 3m above lower level.	We presume that total volume of rubble masonry & PCC is included in this item. Please confirm.	Confirmed. The requirements as mentioned in Specifications and GTP shall be strictly followed. Remaining things may be discussed during design and drawing approval.
20	1 & 2	BOQ Schedule-4/Point No. A1/ Sr. No. 26	Chain link fencing for Switchyard as per technical specification and approved drawing including all complete works.	we presume that foundation work for fencing is not included in this item and shall be claimed under separate items. Please Confirm.	Yes. The pole/post required for the chain link fencing is included in this item. The foundation work may be covered by the other relevant items of excavation, PCC, masonry, etc. as per the site conditions.



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21	1 & 2	BOQ Schedule-4/Point No. A1/ Sr. No. 1	General	We request you to provide us the details for the contour survey /Topographical survey of the proposed substations to assess the foundations design	Please follow Volume IIA of the bidding document. Further information required if any, the bidder may visit the site at their own cost.
22	1 & 2	BOQ Schedule-4/Point No. A1/ Sr. No. 1	General	Please Specify the number of location where Geo Technical Soil Investigation is to be carried out in each sub station for LOT-1 & Lot-2.	Please refer to the Technical Specifications and follow the Price Schedule No. 3 and 4.
23	1 & 2	BOQ Schedule-1/Point No. A1/ Sr. No. 1	33/11kV, 3ph, 16.6 MVA MVA Power Transformer including all accessories complete.	1) As per the technical Specification, Power Transformers shall be with ONAF cooling system. However, in the BOQ, transformer rating of 16.6MVA is specified. Kindly provide ONAF & ONAN ratings of the Power Transformers. Also please confirm base MVA for Loss computation. 2) Also as per Clarification 1, Point No - 50, It is clarified by NEA that Transformer Rating shall be ONAN - 10MVA, ONAF - 13.6 MVA, ONAF - 16.6 MVA. From the clarification it is not clear how to determine the capacity of Power Transformers for ONAF. Please clarify. 3) Please confirm Impedance value for 16.6MVA power Transformer.	Refer to NEA Response as in Clarification No. 1, S.N. 50. 1) Base MVA is 10 MVA at ONAN. 2) The ratings are ONAN-10MVA, ONAF1-13.3 MVA, ONAF2-16.6 MVA. The ratings should have both ONAF1 and ONAF2. 3) The impedance values as per IEC are acceptable.
24	1 & 2	BOQ Schedule-1/Point No. A1/ Sr. No. 2	33/11kV, 3ph, 8 MVA MVA Power Transformer including all accessories complete.	1) As per the technical Specification, Power Transformers shall be with ONAF cooling system. However, in the BOQ, transformer rating of 8MVA is specified. Kindly provide ONAF & ONAN ratings of the Power Transformers. Also please confirm base MVA for Loss computation. 2) Please confirm Impedance value for 8MVA power Transformer.	1) The ratings are ONAN-6MVA, ONAF-8MVA. 2) The impedance values as per IEC are acceptable.
25	1 & 2	Volume II	Specifications of Power Transformers	In the tender document, it has mentioned that OLTC should be of make MR Germany, ABB Sweden or equivalent vendor. We request you to kindly specify the names/definitions of equivalency or provide clarification whether we can procure the same from other vendor who has supplied in other NEA projects whom have same technical specs as asked in this tender.	The preferred make of OLTC are MR Germany or ABB Sweden. However, the equivalent may be better than MR Germany or ABB Sweden.
26	1 & 2	BOQ Schedule-1/Point No. A1/ Sr. No. 11	33kV AVR and OLTC Panel with Accessories Complete	Please provide detailed technical specification for AVR & OLTC Panel.	The design of AVR and OLTC depends upon the make of OLTC. The contractor has to design the AVR and OLTC Panel and submit to the Employer for approval.
27	1 & 2	Volume III, Schedule 1	Specifications of Station Transformers	Station transformer is plinth mounted or structure mounted? If structure mounted, structure material not given in BOQ please clarify same.	Yes, it is plinth mounted with elevated level than others.
28	1 & 2	Volume III, Schedule 1	Specifications of Station Transformers	Poles for mounting of Station transformer and its accessories are not provided in the BOQ.we request you to please incorporate it in the BOQ.	Refer to NEA Response as in S.N. 27 above.
29	1 & 2	Volume IIA	Specifications of Station Transformers	Provide technical specification for station transformer LT distribution box	Refer to NEA Response as in Clarification No. 1, S.N. 46.
30	1 & 2	Volume IIA	Specifications of Station Transformers	Please provide the loss figures for Station Transformer.	We have not provided the losses figures of Station Transformer.
31	1 & 2	Volume IIA	Specifications of Station Transformers	For station transformer impedance is 7%, which is higher than the IEC standard, please confirm which one to consider for design.	The values as per IEC are acceptable.
32	1 & 2	Volume-IIA/section-3/Point-2.7/ Page No.17	2.7 Technical Particulars of Station Service Transformers 14. Percentage impedance voltage at rated kVA and 75 deg. C- 7% on 100kVA	Impedance as mentioned in data sheet is abnormally high. However, as per IEC standard it should be 4.5% . Please confirm	The values as per IEC are acceptable.
33	1 & 2	Volume III, Schedule 1	Specifications of Station Transformers	For station transformer ,whether 33kV AB switch and 33kV LA to be considered or not ,please confirm.	33kV AB switch and LA is not used with station transformer. Drop-out Type Fuse is to be used with station transformer.



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34	3, 4 & 5	Volume IIB	Specifications of Distribution Transformers	Testing of the distribution transformer will be done for all or on a sampling basis? What about the location of the distribution transformer? Is this decided by you or we can locate it?	The Factory Acceptance Test will be conducted on sampling basis. Total quantity of delivered distribution transformers shall be tested for the losses at NEA laboratory. The location of distribution transformers shall be decided after the Pre-Construction Survey which will be carried out by the Contractor upon the award of the Contract.
35	1 & 2	Volume IIB	Specifications of Distribution Transformers	For Distribution Transformer the Rated Impedance Voltage is 3.5%- 4.5% but as per GTP it is 7%, please clarify which one to consider.	The values as per IEC are acceptable.
36	1 & 2	Volume IIB	Specifications of Distribution Transformers	The Phase to Phase clearances are not as per IEC standards. Please clarify the tender specifications are to be followed, also please specify the applicable standard for design.	The IEC standards are applicable for the design. The requirements as per the IEC are acceptable.
37	3, 4 & 5	Volume-IIB/section-4/ Drawings/ Page No.1- 22	LINE AND DISTRIBUTION TRANSFORMER CONSTRUCTION WORKS Drawings	As per reference drawing-BOM of Line structure, the Steel cross arm channel :100x50x6.4mm, the thickness of given section is 6.14 of ISMC100x50 but as per IS 808-1964, the available section is 100x50x5mm. we request you to kindly revise the thickness of channel as per IS 808-1964.	The requirements as mentioned in Specifications and GTP shall be strictly followed. Remaining things may be discussed during design and drawing approval.
38	3, 4 & 5	Volume-IIB/section-2/ Point No. 2/ Page No.2	Distribution Transformer 2. Service Condition The transformers shall be designed and constructed for outdoor installation and operation under the following conditions: Ambient temperature: -5 deg. C to 50 deg. C Relative humidity: up to 99% Altitude: up to 3000m above the mean sea level	Altitude level is mentioned as 3000 mtr.Please confirm the Altitude level of the substations. Further, there is no System data/ Service Condition/ Meteorological data table in the technical specification. Please provide the same.	Refer to NEA Response as in Clarification No. 1, S.N. 45.
39	3, 4 & 5	Volume-IIB/section-4/ Drawings/ Page No.27-28	LINE AND DISTRIBUTION TRANSFORMER CONSTRUCTION WORKS Drawings	As per reference drawing-BOM of DTR structure, Steel cross arm channel :100x50x6.4mm & DTR Platform channel :100x50x7.5mm given in BOM, the thickness of given section is 6.14 & 7.5mm of ISMC100x50 but as per IS 808-1964, the available section is 100x50x5mm . Request you to kindly revise the thickness of channel as per IS 808-1964.	The requirements as mentioned in Specifications and GTP shall be strictly followed. Remaining things may be discussed during design and drawing approval.
40	3, 4 & 5	Volume III, Schedule 1	General, Distribution Transformers	Pole for mounting of LA & DO fuse are not provided in BOQ.we request you to please incorporate it in the BOQ.	The Pole is from the item 11kV Distribution line (C).
41	3, 4 & 5	Volume III, Schedule 1	General, Distribution Transformers	Earthing of the DTR and line has not been provided in the BOQ. we request you to please incorporate it in the BOQ.	Please refer to Price Schedule No. 4.
42	3, 4 & 5	Volume III, Schedule 1	General, Distribution Transformers	Structure & other accessories for mounting of LA , Transformer, Distribution Box & DO fuse is not provided in BOQ. This may be incorporated in BOQ.	Please refer to the item No. 2 of Price Schedule No. 1 under E1-E3.
43	1 & 2	Circuit Breaker Clause 3.3.6 page 20 of 177	Circuit Breaker - All auxiliary equipment shall be suitable for 3 phase 4 wire, 50Hz, 400 V.	All auxiliary equipment shall be suitable for 1-ph, 50 Hz 230V AC as there is no 3-phase supply required for auxiliary equipment. Please Clarify.	The requirements and design as per the applicable IEC standards are acceptable. Remaining things may be discussed during design and drawing approval.



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44	1 & 2	Circuit Breaker Clause 3.4.4 Local test switch page 21 of 177	Circuit Breaker - Each mechanism shall be equipped with a local test switch for electrically testing the closing and tripping operations of the circuit breaker. A separate manually operated cutout device to disconnect the circuits to remote closing, re-closing and tripping devices shall be provided on each circuit breaker. A warning nameplate requiring operation of this device before operation of the local test switch shall be mounted adjacent to the local test switch.	For 36kV Outdoor breakers, there is no local test switch or no separate manually operated cutout device available. There are an option to test locally and disconnect remote operation is by selecting Local mode through Local/Remote Switch and selecting Trip option of Electrical Trip/Neutral/Close switch (TNC switch). Please confirm this mechanism.	Refer to NEA Response as in S.N. 43 above.
45	1 & 2	Circuit Breaker Clause 3.4.5 Emergency Trip	Each circuit breaker shall be provided with an emergency hand trip device. This device shall be provided with mechanically interlocked contacts to disconnect circuits from remote closing and re-closing devices.	For 36kV Outdoor breakers, there is no separate emergency trip button like AIS/GIS panels. To trip the breaker There are an option to test locally and disconnect remote operation is by selecting Local mode through Local/Remote Switch and selecting Trip option of Electrical Trip/Neutral/Close switch (TNC switch). Please confirm this mechanism.	Refer to NEA Response as in S.N. 43 above.
46	1 & 2	Circuit Breaker Clause 3.4.6 Position indicator	The circuit breaker shall be equipped with mechanical position indicator. The indicator shall be provided for each pole.	For 36kV breakers, all poles are mechanically ganged operated unlike HV breakers hence there is just one single mechanical position indicator for all 3-poles.	Refer to NEA Response as in S.N. 43 above.
47	1 & 2	Circuit Breaker Clause 3.5.1 Routine tests	One circuit breaker of each type ordered under the Contract shall be fully assembled at the manufacturer's works and subjected to routine tests in accordance with IEC 56	One circuit breaker of each type ordered under the Contract shall be fully assembled at the manufacturer's works and subjected to routine tests in accordance with IEC 62271-100	Refer to NEA Response as in S.N. 43 above.
48	1 & 2	Circuit Breaker Clause 3.5.1 Routine tests	Circuit Breakers Routine Tests (b) Leakage test (e) Pressure test	Kindly remove these tests since these are not applicable for vacuum circuit breaker.	Refer to NEA Response as in S.N. 43 above.
49	1 & 2	Circuit Breaker Clause 3.10	(b) Space heater and auxiliary equipment AC, 3Ph-4W, 400V, 50Hz	Kindly change it to 1-Ph, 230V, 50 Hz.	Refer to NEA Response as in S.N. 43 above.
50	1 & 2	Circuit Breaker GTP	13.1 Maximum opening time: 40ms 13.2 Total Interrupting time: 60ms	13.1 The specified trip time is too low for 36kV VCB, kindly change it to <60ms 13.2 The specified trip time is too low for 36kV VCB, kindly change it to <70ms	Refer to NEA Response as in S.N. 43 above.
51	1 & 2	Volume-IIA / Section-3 Specifications of Equipment	128 - 141 Switchgear	Please confirm the below: 1. Configuration of 11kV Switchgear, As per + 80G) is shown but as per BOQ mentioned. 2. Bus-coupler is required or not, As per SLD, bus coupler is shown but as per BOQ, there is no requirement of bus coupler. 3. Incoming breaker rating is 1250A & busbar rating is 2000A 4. Nos. of panel	1) Bus coupler is not required. 2) The required number is 1 incoming and 4 outgoing panels per substation. 3) The Busbar rating is 2000A and incoming breaker is 1250A as mentioned in technical specifications.
52	1 & 2	Volume-IIA / Section-3	128-141 Switchgear	1. Please confirm Separate Over current relay and separate Earth Fault Relay or else can we offered both 2. Please also confirm Breaker Failure protection as a separate relay 3. Altitude of all site for installation of above msl. Please confirm	1) Separate earth fault and over current relay is required. 2) Yes. Separate breaker failure protection relay is required. 3) The installation altitude is <1000m above msl.
53	1 & 2	Volume-IIA / Section-3	Technical Specifications	For 11kV Switchgear panel, bus coupler panel was not provided in price BID. please confirm whether bus coupler panel required or not.	Not required.



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**CLARIFICATION NO. 2**

SN	Lot (s)	Reference in Bid Documents	Description in Tender Documents	Bidder's Query/Comment	NEA Response
54	1 & 2	Technical Specification/Volume-II/section-3/ Point No.9.7.1 / Page No.39	9.7 Specific Protection Requirements 9.7.1 Relay Protection 9.7.1.1 Overcurrent and Earth fault Protection i. Non-Directional Phase Overcurrent Protection shall: be single pole & have an inverse characteristic with a definite minimum time of 3sec.at 10 times setting.have a variable setting range of 5-200% of rated current	As per IEC Current setting rating should be 20-200%. Please Confirm	Confirmed. The values as per IEC are acceptable.
55	1 & 2	BOQ Schedule-1/Point No. A1/ Sr. No. 13	33kV Control and Relay Panel with Accessories Complete	Since there are significant differences in Line & Transformer protection panel specifications therefore, please provide separate quantities of Control & Relay Panels required for Transformer & Line protection.	Refer to NEA Response as in Clarification No. 1, S.N. 28.
56	1 & 2	Volume II	Specifications of Power Cables	For 12kV Power Cable,1Cx400sqmm Copper conductor provided in price schedule whereas in TS it is mentioned we can use either aluminium or copper conductor.please confirm which conductor we have to provide.	The Copper Conductor should be provided as per Price Schedule.
57	1, 2, 3, 4 & 5	Volume II	Technical Specification for HT Cable	1. For HT cable, voltage designation mentioned 11 kV & 12 kV. But as per IEC 60502-2 it shall be 6/10 (12) kV. 2. For HT cable, insulation thickness not specify please clarify same.	The voltage level as per IEC 6/10 (12) kV is acceptable. The minimum insulation thickness has been mentioned in Specifications and GTP.
58	1, 2, 3, 4 & 5	Volume II	Specification of Underground Cable Page 85 of 115 Item 4(b) Routine Tests (Factory Acceptance Tests):	Q1: Test item "vii) Impulse withstand voltage, xi) Temperature-voltage characteristic" Q2: Test item "xvi) oil-proof, xix) hardness" Please clarify: Q1: According IEC60502 , those items are type test ,not Routine Tests Q2: According IEC60502, Oil-proof test and hardness cannot applicable to PVC material, please delete these items.	The Type Tests and Rountine Tests as per IEC are acceptable.
59	1, 2, 3, 4 & 5	Volume II	Specification of Underground Cable Page 86 of 115 Item 6 GUARANTEED TECHNICAL PARTICULARS: Q: Power Frequency Withstand Voltage 28 kV	Please clarify: Q: According IEC60502, Power Frequency Withstand Voltage of 6/10 (12) kV power cable is 21kV, please confirm.	The values as per IEC are acceptable.
60	1, 2, 3, 4 & 5	Volume II	Specification of Underground Cable Page 167 of 177 Item 2 General Requirements:	Q1: The minimum thickness/size of separation sheath, outer sheath and armor at any point shall not fall below the nominal value. No tolerance on the negative side shall be acceptable. Q2: The supplied cable shall be longitudinal water tight. For this purpose, a layer of suitable water swellable absorbent tape shall be provided over insulation screen.  Please clarify: Q1: According IEC 60502-2, for the thickness of separation sheath, outer sheath at any point shall not less than 80%(nominal value)-0.2mm, please confirm. Q2: The longitudinal water tight request cannot applicable to the three cores cable, but we can follow the specification and add a layer of suitable water sellable absorbent tape over the insulation screen please confirm.	A1: The negative tolerances of the nominal value or given value are not acceptable.  A2: The requirements as mentioned in Specifications and GTP shall be strictly followed. Remaining things may be discussed during design and drawing approval.
61	1 & 2	Technical Specification/Volume-II/section-3/ Point No.12.3.1 / Page No.89	(f) Armor The armor shall be of hard drawn round aluminum wires for mechanical protection of the cable. The size of armor shall be as specified in the relevant Standards.	Please note that "Armouring for multicore cables shall be provided with Galvanised Steel Flat Strip and Armouring for single core cables shall be provided with Aluminium Round Wire as per Indian Standard IS: 7098 P-1. Kindly confirm	Please refer to the response in Clarification No. 1.





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62	1 & 2	Technical Specification/Volume-II/section-3/ Point No.12.2 / Page No.89	12.2 Equipment to be furnished: a) 12 kV XLPE Power Cable The equipment to be furnished shall strictly be in accordance with the specifications and the Price Schedule. The Contractor shall be responsible for estimating and supplying the quantity of various types and sizes of the cables. In course of actual execution if it is found that additional cross-section, types or quantities of cables are required than those indicated in his proposal, the same shall be supplied without any additional charge to the Employer.	we presume that at the time of execution, if different size of cable used instead of as mentioned of tender BOQ. NEA will revised the BOQ without implication of cost. Please confirm.	The Price Schedule will not be revised for the change of items. The requirements as mentioned in Specifications and GTP shall be strictly followed. Remaining things may be discussed during design and drawing approval.
63	1 & 2	BOQ- Schedule-1/Point No. B1 or B3/ Sr. No. 01	33kV Underground Power Cable (Al conductor, XLPE insulated, 400 sq.mm., Three core/single core, armoured)	No specification for 33 kV cables is provided with the enquiry. Please provide us the specification for 33 kV HT Cables.	Refer to NEA Response as in Clarification No. 1, S.N. 76 & 77.
64	3, 4 & 5	BOQ- Schedule-1/Point No. C1 & C2/ Sr. No. 01	11kV Power Cable (Al conductor, XLPE insulated, 300 sq.mm.,three core/single core, armoured)	Please provide us the earth fault requirements of Metallic Screen (Copper Screen) for single core and multicore 11 kV HT cables. ( _kA for _Sec) (Collectively for all three cores / for individual cores)	Refer to NEA Response as in Clarification No. 1, S.N. 76 & 77.
65	3, 4 & 5	BOQ- Schedule-1/Point No. C3/ Sr. No. 01	11kV Power Cable (Al conductor, XLPE insulated, 300 sq.mm.,single core, armoured)	Please note that no specification is provided for single core HT Cables. kindly provide us the Detailed specification for single core 11 kV cables.	Refer to NEA Response as in Clarification No. 1, S.N. 76 & 77.
66	1, 2, 3, 4 & 5	Volume II	General-Cable	Kindly provide the required Earth Fault current for Metallic Screen (Copper Tape) in form of _kA for _Sec. in case there is no such requirement then, we request you to at least provide the required Copper Tape Thickness for 11 kV and 33 kV cables for Metallic Screen.	Refer to NEA Response as in Clarification No. 1, S.N. 76 & 77.
67	1, 2, 3, 4 & 5	Volume II	General-Cable	From the specifications of Under Ground Cables for 10 kV and 30 kV rating we understand that there is no requirement of Fire Retardant (FR) outer sheath. Please confirm.	Fire retardent is required and is mentioned in Technical Specifications of Underground Cable.
68	1, 2, 3, 4 & 5	Volume II	General-Cable	Kindly note that as the cables are required as per IEC: 60502 P-2. Hence, the cables shall be 6/10 (12) kV and 18/30 (36) kV grade. Kindly confirm.	Refer to NEA Response as in S.N. 57 above.
69	1, 2, 3, 4 & 5	Volume IIA of III/Clause No. 36	Flexible Pipe	You are requested to furnish the detailed specifications of the Flexible Pipe as the manufacturers are facing problems in understanding the product with the details provided under the above mentioned clause.	The specifications and requirements have already been provided. Remaining things may be discussed during design and drawing approval.
70	3, 4 & 5	Technical Specification/Volume-IIB/section-2/ Page No.92-93	Flexible Pipe	We understand that flexible pipe/DWC Pipe required shall be as per IS 16205. Also as per standards the sizes shall be as under: 1. For 160mm Dia - OD shall be 160mm & ID shall be 135mm. 2. For 125mm Dia - OD shall be 120mm & ID shall be 103mm. 3. For 225mm Dia - OD shall be 250mm & ID shall be 217mm. 4. For 90mm Dia - OD shall be 90mm & ID shall be 75mm. Please confirm.	The requirements as mentioned in Specifications and GTP shall be strictly followed. Remaining things may be discussed during design and drawing approval.
71	3, 4 & 5	Volume IIB	Page 1 Clause No. 2.4 (iv) Covered Conductor	1) According to NEA Technical Specification Covered conductor overall diameters range mm - 19.3 to 21.9. As per calculation the original value will be 18.10 to 19.40mm , which match with AS 3675 Table 2.1. 2) In Technical Specification finished covered conductors shall be delivered in continuous lengths of 500 ± 5 meters but according to some vendors the tolerance GTP i.e. 500 ± 5%. Please confirm.	1) The values as per the standards AS 3675 is acceptable. 2) The question is not clear.



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SN	Lot (s)	Reference in Bid Documents	Description in Tender Documents	Bidder's Query/Comment	NEA Response
72	3, 4 & 5	BOQ Schedule-1/Point No. C4/ Sr. No. 6	Power Arc Devices (3 Nos. per set)	No technical specification is given for Power Arc Devices. we request you to please provide the TS.	Refer to NEA Response as in Clarification No. 1, Note.
73	1 & 2	BOQ Schedule-1/Point No. A1/ Sr. No. 13	33kV Outdoor Busbar (ACSR "BEAR" conductor or Equivalent IPS Tube) with required insulators and accessories complete (1 set consists of busbar at Source Bay & Destination Bay)	As per BOQ of Lot no.1 & 2, construction of new 33/11kV substation & 33kv line bay construction in existing substation has been specified. No. of new substations and no. of 33kV VCBs is specified in the BOQ. However, no. of 33kV bays in existing Substations is not specified. Therefore, scheme of 33kv bays/ 33kV Layout of the new substations could not be ascertained. Kindly provide layout/SLD of new sub stations for estimation of lot item of Sr. No. A1.13, i.e., 33kV outdoor bus-bar with insulators and accessories.	In general, the proposed new substations shall consist of one incoming 33kV bay and one transformer bay. Other details shall be finalized during the pre-construction survey and detail design approval.
74	1 & 2	BOQ Schedule-1/ Point No. A1/ Sr. No. 26	Gantry Structures including Accessories Complete	We presume that equipment mounting structure for various sub station equipments like Isolator, LA, CT/PT etc, or any other structure material required in sub station work is also included in this item. Please confirm.	Confirmed.
75	1 & 2	BOQ Schedule-1/ Point No. B2/ Sr. No. 15	Steel Lattice Towers (Type of Tower as per site Condition)	Please confirm that Stay Clamp, Holding Clamp or any other galvanised structures, which are required to complete the line but are not incorporated in the BOQ, shall be covered under this item.	Confirmed.
76	1 & 2		General	Pole, structure & other accessories are not provided in the BOQ although 33kV DO fuse, 33kV LA are to be installed as per item nos. 7 & 8. we request you to please incorporate it in the BOQ.	These are to be mounted on the Gantry Top and the accessories are included in the Price Schedule.
77	1 & 2	Volume IIA	Technical Specifications	Please confirm the core sizes of control cables.	Please refer to the specifications mentioned in Volume IIA, Section 3 (page 94-99 of 177).
78	1 & 2	BOQ Schedule-1/Point No. A1/ Sr. No. 22	Control Cables including Accessories complete (1 set consists of Source Bay & Destination Bay together)	We request you to please specify the cable sizes that should be used in sub station and incorporate the control cable quantity in the BOQ Schedule.	The quantity shall be finalized after the detail design and preparation of detail cable schedule. The contractor has to supply the total required quantity as per the scope of works.
79	1 & 2	Volume IIA	Technical Specifications of Earthing	Provide detailed technical specification for Earthing. Please confirm the conductor for laying earth mat whether copper cable or copper conductor to be used. If copper cable should be used provide the jointing procedure. Please confirm soil treatment around earth electrode with bentonite powder.	Refer to the technical specifications provided on Volume IIA, Section 3 (page 104-106). The earth mat should be of bare copper conductor of the suitable size. The soil treatment may be necessary for the earth electrode.
80	1 & 2	Volume IIA	Technical Specifications of Lightning Protection.	Provide detailed technical specification for Lightning protection	Refer to the technical specifications provided on Volume IIA, Section 3 (page 104-106 of 177).
81	1, 2, 3, 4 & 5	Volume II	Technical Specification for poles	As per specification Clause 20.2, the Poles required are to be manufactured from Seamless Tubes and again there is contradiction in Clause 20.4 which says "Each section of the pole shall have only one longitudinal weld" which is ERW Tubes please clarify same.	The pole tubes are of ERW type.
82	3, 4 & 5	Volume IIB	Steel Tubular Pole	We have gone through the attached specification of Poles & found there it was mentioned that, some poles will be Folding type. So, requesting you to kindly confirm quantity break-up against Non-Folding & Folding type poles in to submit our proposal.	The break-up quantity of folding type should be proposed by the Contractor as per the site requirements and execution plan after the Pre-Construction Survey.
83	1 & 2	BOQ Schedule-1/ Point No. B2/ Sr. No. 1 & 2	13m/11m Steel Telescopic Pole (fully galvanized)	As per specifications it is mentioned that, few poles will be Folding type. So, requesting you to kindly confirm quantity break-up against Non-Folding & Folding type poles in-order to submit our proposal.	Refer to NEA Response as in S.N. 82 above.
84	1, 2, 3, 4 & 5	Volume II	13m/11m Steel Telescopic Pole (fully galvanized)	Please provide Drawing for clamps used in 33kV & 11kV lines.	The contractor has to propose the required clamp details during detail design approval based upon the technical specifications provided and site requirements.
85	1, 2, 3, 4 & 5	Volume II	Packaging Details for stay wire	Regarding packing it is written that materials should be packed in reels with material weight 100kg. Please confirm whether the reels are made of steel or wood please clarify same.	In general, stay wires are self rolled to make the reel. If separate reels are to be made, steel type is required.



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SN	Lot (s)	Reference in Bid Documents	Description in Tender Documents	Bidder's Query/Comment	NEA Response
86	1 & 2	Volume IIA	Technical Specifications	1. In AC & DC Distribution Board BOM/SLD missing. Pls provide the same. 2. In Marshalling Kiosk Box Panel, Incomer & Terminal Qty not furnish. Please provide the same. 3. Please provide the SLD for 11/0.4kV Distribution Transformer 100, 200 & 300kVA.	Refer to NEA Response as in Clarification No. 1, S.N. 46.
87	1 & 2	Volume IIA	Technical Specifications	Please provide specification of Distribution box.	Refer to NEA Response as in Clarification No. 1, S.N. 46.
88	1 & 2	Volume IIA	Technical Specifications	Please Provide us Technical Specification for ACDB & DCDB.	Refer to NEA Response as in Clarification No. 1, Note.
89	1 & 2	Volume IIA	Technical Specifications	Provide technical specification for Marshalling Kiosk Box. Provide detailed technical specification for AC distribution board. Provide detailed technical specification for DC distribution board.	Refer to NEA Response as in Clarification No. 1, Note.
90	1 & 2	Volume IIA	Technical Specifications	In supply schedule no provision given of SMDB for service connection please clarify same.	Refer to NEA Response as in Clarification No. 1, Note.
91	1 & 2	Volume IIA	Technical Specifications	33KV VCB Structure Details & DRGS not given please clarify same.	Refer to NEA Response as in Clarification No. 1, Note.
92	1 & 2	Volume IIA	Technical Specifications	Please provide specification & Structure drawings of 33 KV CT, PT,LA, VCB, Isolator.	Refer to NEA Response as in Clarification No. 1, Note.
93	1 & 2	Volume IIA	Technical Specifications	In Substation Earthing material not provided in BOQ. please clarify same.	Please refer the Price Schedule No. 4.
94	1 & 2	Volume IIA	Technical Specifications	In Substation Yard lighting material not provided in BOQ. please clarify same.	Please refer the Price Schedule No. 4.
95	1 & 2	Volume IIA	Technical Specifications	In Substation Fire Fighting material not provided in BOQ. please clarify same.	Please refer the Price Schedule No. 4.
96	1 & 2	Volume IIA	Technical Specifications	Earthing of overhead 33kV Line, pole, LA & AB switch etc. is not covered in the BOQ. we request you to please incorporate it in the BOQ.	Refer to NEA Response as in Clarification No. 1, S.N. 25.
97	1 & 2	Volume IIA	Technical Specifications	Indoor & outdoor Lighting of the new Substations is not provided in BOQ. we request you to please incorporate it in the BOQ.	Please refer the Price Schedule No. 4.
98	1 & 2	Volume IIA	Technical Specifications	Please note that we have not found the power cable in the BOQ that is used in Sub station. you are requested to incorporate it in the BOQ and provide the Technical Specification as well.	Please refer to the Price Schedule and Technical Specifications. These are included on the relevant Price Schedule.

**Note:** Since this is a plant contract and the design is also in the scope of contractor, the detail specifications for some of the missing items may be discussed with the successful bidder during the execution of the project.

