ICB No. and Title: PMD/PTDEEP/DTPP- 077/78 - 01, Supply and Delivery of 3D Core Distribution Transformer

Clarification-1 issued by Nepal Electricity Authority (NEA)

S.No.	Ref. Clause No.	Content	Questions	Reply from NEA
1	Section 3, 3.8 Margin of Preference	3.8.1 The price quoted for goods in bids of group A and B shall include all duties and taxes paid, or payable on the basic materials or components purchased in the domestic market or imported, but shall exclude the sales and similar taxes on the finished product. The price quoted for goods in bids of group C shall be on CIP (Project Site Kathmandu), which is exclusive of customs duties and other import taxes already paid, or to be paid.	Group C's price quoted is exclusive of Custom Tax and other import taxes already paid or to be paid.But in the price schedule, there is the items to quote the Customs Tax and VAT and TDS, Which is right?please confirm.	Bidder may assess and quote the Custom Duties, Other applicable Taxes and VAT in the format of the Price Schedule. However, Custom duties, taxes and VAT will be excluded in the evaluation.
2	Section 7, 17. Taxes and Duties	17.1 For goods supplied from outside the Purchaser's country, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the Purchaser's country.	All taxes including Cusntom Tax and TDS abd VAT? Please confirm and give the relevant rate. And this item is also conflict the above item 3.8.1	Supplier shall be entirely responsible for such costs outside the Purchaser's country
3	Section 3, 2.2.2 Technical Experience	The Bidder shall demonstrate that: (i) They have supplied minimum of 2500 units of 3D Core type oil filled distribution transformers over the last Seven (7) years (ii) Minimum of 625 units of 3D Core type oil filled distribution transformer supplied by the Bidder shall be in operation for a minimum of One(1) year over the last Seven (7) years Note: a) To substantiate the above, the bidder must submit the notarized end user certificates and relevant documents.	What kind and type of notarized end user certificates and relevant documents? The end user running certificate should be notarized by Government department,or not? Or just end user running certificae is ok with the contract?	The end user certificate shall be notarized from the concerned (notarizing) agency.
4	IFB	4.Only eligible Bidders with the following key qualifications should participate in the bidding: (il) The bidders shall have satisfactory experience in at least 2 (Two) contracts of Supply and Delivery of Oil Filled Distribution Transformer within the last 7 (Seven) years with a value of at least US$ 6.0 Million each.	In China, National Grid issues the tenders by Framework purchase agreement, the total quantity of the same distribution company or user to reach 6 MUSD is ok?	The bidder shall have supplied oil filled type distribution transformers (type of core has not been mentioned here) as mentioned in the clause.
5	Section 6, 3.4.12 Terminal connectors and Cable Boxes	1. The high voltage bushings shall have clamp type terminal lugs suitable for terminating 30-120 sq. mm stranded conductor. 2. The low voltage bushings shall have clamp-type bi-metallic terminal lugs suitable for terminating aluminum conductor compatible to the kVA rating (with 100% factor of safety) of the transformer.		1. Amended as "The high voltage bushings shall have clamp type terminal lugs (detachable) suitable for terminating 30-150 sq. mm stranded conductor". 2. Amended as "The low voltage bushings shall have clamp-type bi-metallic terminal lugs (detachable) suitable for terminating aluminum conductor compatible to the kVA rating (with 100% factor of safety) of the transformer. The termination shall be suitable for 1-phase 630 sq. mm or 3-phase 400 sq. mm XLPE Cable."

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6	Section 6, 3.4.12 Terminal connectors and Cable Boxes	Cable Boxes:HV/LV terminations are to be made through cables. Transformer shall be fitted with suitable cable box on 11 kV side. The bidder shall ensure the arrangement of HT Cable box so as to prevent the ingress of moisture into the box due to rain water directly falling on the box. The cable box on HT side shall be of the split type with faces plain and machined and fitted with Neo-k-Tex or similar quality gasket and complete with brass wiping gland to be mounted on separate split type gland plate with nut-bolt arrangement and MS earthing clamp. The bushings of the cable box shall be stem shall be of copper with copper nuts. The cross section of the connecting rods shall be stated and shall be adequate for carrying the rated currents. On the HV side the terminal rods shall have a diameter of not less than 12 mm. The material of connecting rod shall be copper. HT Cable support clamp should be provided to avoid tension due to cable weight. The transformer shall be fitted with suitable LV cable box having non-magnetic material gland plate with appropriate size single compression brass glands on LV side to terminate XLPE armoured cable. Both the HV and LV bushing shall be housed in a fully enclosed cable end type metallic box as stated above on either side of the Transformer.	Suggest to the desgin without HV and LV cable boxes. 1、The high-voltage bushing of winding core transformer is arranged in a triangle, and the cable box is a rectangular structure, which does not match. 2、 The space position of Transformer Outlet bushing is small, and adding cable box will make the external insulation distance not meet the electrical performance requirements. the desgin without LV and HV cable box can be accepted by the owner?	Detachable HV/LV Cable boxes shall be designed and shall be incorporated as mentioned in the Technical Specifications
7	Section 6, 3.4.3 Painting	5. Painting procedure 7. Dry Film Thickness	Transformer Factory will implement the following Painting process in accordance with China's painting technology and environmental protection laws: 1. The workpiece shall be degreased, and the surface shall be sandblasted to reach Sa2.5. 2. The inner wall of the oil tank is sprayed with epoxy iron red primer with a thickness of ＞ 30 μ m. The corrugated sheet is filled with paint, and the thickness is ＞ 30 μ m。 3. The surface adopts plastic spraying process, and the thickness of plastic film is > 90 μ m. The thickness of plastic film is uniform, the surface color is consistent and bright. 4. The surface is sprayed with plastic, with stronger adhesion, not easy to fall off, higher corrosion resistance, longer service life and more environmental protection. the above painting technolgy can be accepted by the owner?	Shall be painted as mentioned in the Technical Specifications
8	Section 6, 3.4.1 Tank	1.The tank shall be sealed type with conservator.	3D Wound Core transfomre design without conservator. The owner can accept the desgin without conservator?	The tank shall be sealed type with conservator
9	Section 6, 3.4.2 Oil Preservation System	1. All the Transformers shall be provided with conservator. The conservator vessel shall have a capacity between highest and lowest level of not less than 7.5% of the total cold coil volume of the transformer. 2. Oil gauge shall be fixed to the conservator. A drain plug and a flling hole shall also be provided. The cover of main tank shall be provided with an air release plug to enable air trapped within to be released, unless the conservator is so located as to eliminate the possibility of air being trapped within the main tank. 3. The inside diameter of the pipe connecting the conservator to the main tank shall be within 30-40 mm and it shall be projected into the conservator so that its end is approximately 20 mm above the bottom of the conservator so as to create a sump for collection of impurities. The minimum oil level shall be above the sump level. 4. To overcome the oil leakages, side plate of conservator tank shall be welded. Bolting with gasket will not be allowable.	3D Wound core transfromer desgined without conservator,but integrated with oil level gauge and pressure relief valve. The utility model is composed of a float, a connecting rod, a pipe body, a red and blue indicating sign, etc. When the oil level in the transformer rises or falls due to temperature, the float of the oil level gauge rises or falls synchronously with the oil level, so as to drive the red and blue indication signs to rise and fall. The oil level is displayed through the glass inspection window. Blue indicates normal, red indicates low oil level, and oil replenishment is required. At the same time, its own oil storage bowl can hold the oil expanded due to temperature rise. The owner can accept the above desgin?	Oil Preservation System shall be as mentioned in the Technical Specifications.

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10	Section 6, 3.5.3 Tests to be Witnessed by the Employer	3.5.3 Tests to be witnessed by the Employer The Employer's representative(s) shall witness at the manufacturer's plant in following stages (i) In the first stage, after award of the contract and prior to mass production, the manufacturer shall design & manufacture the prototype of Distribution Transformers and carry out type test on identical unit of offered design of each capacity of transformer in one of the following testing laboratories in the presence of representative appointed by Nepal Electricity Authority at no extra cost to the Client/Employer (cost of the tests shall be included in the price of transformer): a. ASTA Certification Services (UK) or National Metorological Laboratory in UK, accredited to Western European Legal Metrology Corporation. b. CESI (Centro Electtrotecnico Sperimentale Italiano S.P.A) or National Metrological Laboratory in Italy, accredited to Western European Legal Metrology Corporation, c. ESEF (Ensemble Des Stations D' Essais a' Grande Puissance Francaises) or National Metrological Laboratory in France, accredited to Western European Legal Metrology Corporation, d. B.V. KEMA (KEMA) or National Metrological Laboratory in Netherlands, accredited to Western European Legal Metrology Corporation, e. National Metrological Laboratory in Japan, accredited to National Laboratory Accreditation System in Japan, f. National Metrological Laboratory, accredited to American Association for Laboratory Accreditation, g. The type test from other internationally recognised independent meter test laboratory, such as PTB, Germany; PTP, Austria; NMI, Holland; Falcon Test Lab and UK, Ofgem (formerly known as 'Offer"), Ireland	Please confirm below:1.If the Test Lab must be orignal country, where is Lab is located, for example, ASTA is in UK, the test should be conducted at UK? Will NEA accept the listed Lab's branch Lab or be accredited Lab in other country? For example, ASTA has a branch Lab or accredited Lab in China, the tests can be conducted at the branch lab or accredited lab in China? 2.Can you accept to add below?:...g. The type test from other internationally recognised independent meter test laboratory, such as PTB, Germany; PTP, Austria; NMI, Holland; Falcon Test Lab and UK, Ofgem (formerly known as 'Offer"), Ireland. Or other Labs which are accredited by International Laboratory Accreditation Corporation (ILAC) or International Accreditation Forum (IAF) or NABL	Type tests shall be conducted in one of the listed laboratory as mentioned in the technical specifications (i.e., as mentioned in Section 6, Clause 3.5.3)
11	Section 6, 4. Ratings and Feature for Distribution Transformer	1.2.1.1 TABLE 1 Maximum allowable noise level at 3 metre hemispherical radius <44 dB	Please confirm that the data of the noise level is sound pressure level?.	shall be as per technical specifications

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12	Section 6, Clause 3.5.1	"The Bidder shall submit, along with the Bid, type test reports (detail) on the following tests performed on identical units". However, we will not be able to produce prototypes and carry out type tests before the bid submission deadline.	Please accept the similar product type test report or waive it.	Bidder may submit the similar product type test and submit the commitment letter to submit the type tests reports performed on identical units without additional cost to the purchaser after the contract is awarded.
13	Section 6, Clause 3.4.6	"The winding shall be done directly on the 3D or Triangular core on winding machines which are PLC based for Three Phase Transformers".	Can we propose our new method where winding can be done separately. Core and coil can be assembled therefore allowing existing repair workshop with conventional winding machines to repair coil without having to buy new 3D coil winding machines that is probably not available in Nepal?	Can be discussed and decided during Detail Design Drawing approval stage
14	Section 6, Clause 3.4.4.1	"The core symmetry, winding arrangement, and lack of joint areas of the triangular wound cores shall be achieved by using slits of CRGO lamination sheet with continuously varying of the width during the core winding process".	Can we propose our new method which has 1 joint on each core therefore allowing removal of coil for repair?	Can be discussed and decided during Detail Design Drawing approval stage
15	Section 6, Clause 3.4.3.1(iii) 3.4.3.5 (ii)	Item 3.4.3.1 (iii) "The paint shall be applied by airless spray according to manufacturer's recommendations" is conflicting with that stated in Item 3.4.3 5(ii) "The paint shall only be applied in the manner detailed by the manufacturer e.g. brush, roller, conventional or airless spray and shall be applied under the manufacturer's recommended condition".	We use flow coating which is not included. Will NEA accept our method which is "applied under the manufacturer's recommended condition"?	Can be discussed and decided during Detail Design Drawing approval stage