

TECHNICAL

No	Clarification Questions	ESKOM Response / Comments
1	Clarify A & B Technical Schedule: Item no: 54 (10MVA 22_6.6Kv YNyn0) Schedule A : 5.1 Continuous rated power for all tapplings - state 2.5MVA instead of 10MVA. Schedule A: 7 Voltage tapping range – state 5 -5 x 2.5% OCTS instead of 5 -15 x 1.25 OLTC	Schedule A & B has been amended for this type of transformer and loaded on the Portal. Tap changers remain OCTC. We don't need OLTC.
2	Clarify A & B Technical Schedule: Item no: 59 (10MVA 22_3.3Kv YNyn0) Schedule A : 5.1 Continuous rated power for all tapplings - state 2.5MVA instead of 10MVA. Schedule A: 7 Voltage tapping range – state 5 -5 x 2.5% OCTS instead of 5 -15 x 1.25 OLTC	Schedule A & B has been amended for this type of transformer and loaded on the Portal. Tap changers remain OCTC. We don't need OLTC.
3	As per the technical specification, there is a reference made for GIC (Geometric Induced Current), however there is no mention on the A & B technical schedules that GIC is required. Without the inclusion of GIC (Geometric Induced Current), can we offer our shell type 5 limb wound core design transformer?	There is no A&B schedule for this tender specifying a five-limb core design. Eskom has deliberately specified a three-limb core design for all transformers under this tender. Any submission proposing a five-limb design will be deemed non-compliant and may be disqualified.
4	As new manufacturer for class 1 transformers and we have not manufactured this design before including type testing. Will we be disqualified if we tender?	No. The type test is required to be performed only on the first transformer unit. All subsequent transformers manufactured under the contract will be subject to routine testing only. Please refer to Transformer Specification 240-171000616.

5	The Tenderer understands that it may select the transformer items/types it intends to offer and is required to submit fully completed Technical Schedules A & B only for those selected items/types to demonstrate compliance with the mandatory and functional requirements. Kindly confirm that this understanding is correct.
6	The Tenderer notes that the ITT refers to a factory accreditation/letter not older than twelve (12) months, whereas Technical Evaluation Criteria 240-171000616 Rev 1 provides for a recognised factory accreditation or assessment report issued within the preceding twenty-four (24) months. Kindly confirm which validity period applies for purposes of this tender.
7	240-68973110 Rev 3 Transformer Specification Above 1MVA 2.2.1 Normative [21] [22] [23] [26] [38] [39] [40] [41] [42] [43] [44] [45] [47] [48] [49] [50] Please note that those are not received in this tender, therefore will not be considered.
8	240-68973110 Rev 3 Transformer Specification Above 1MVA P23/80 3.5.1 Design - The material used in core cooling ducts, and between the core and frames, and between the core and the tie plates shall have a continuous temperature rating of 150°C minimum. Per IEC 60076-5 Table 3, thermal class for oil-immersed transformer should be Class A --> 105°C. Therefore, the insulation materials used, except for paper, will have a temperature rating of 105°C. For winding insulation paper, Siemens Energy will use thermally upgraded type, which will be 120oC (Class E).

Correct. Kindly refer to the tender clarification minutes.
The validity is 24 months as stated technical Evaluation Criteria 240-171000616 Rev 1. Kindly refer to the tender clarification minutes.
All OEMs wising to do business with Eskom should have acces to all other documents not submitted with the tender pack via Tech and Eng documents repository. Send a request to Brenda Morrison to give access @ MorrisEF@eskom.co.za
We have no mandate to allow for deviation from the published Eskom standard. Deviations will results to the OEM lossing points under discretionary scoring.

9	240-68973110 Rev 3 Transformer Specification Above 1MVA P25/80 3.6.5 Joints and Internal Connections - All internal lead connections shall be brazed, welded, or compression type. If compression type is used, then the method employed must be approved by the Purchaser. Compression type will be used. The method is Hexagonal crimping.	No problem with the suggested method.
10	240-68973110 Rev 3 Transformer Specification Above 1MVA P31/80 3.9.8.4 The Breather - The breather shall comply with the requirements of the breather specification 240-56063886. The breather specification received is 240-56062529, not 240-56063886.	Work with the 240-56062529 standard. We will attend to the matter at a later stage when the standard is due for review.
11	240-68973110 Rev 3 Transformer Specification Above 1MVA P54/80 3.12.3 Mounting - The plates must be finished in accordance with 240-56030674 The nameplates will be made of 316 stainless steel, and will not be painted. 240-56030674 shall be only applicable to structure steel which requires surface preparation and complex painting procedure. Nameplates shall be exempt from this. Stainless steel is more common for the application.	We will evaluate at a later stage either durring factory capability assessment or durring design reviews. OEM will not be penalized. It's a matter for negotiation.
12	240-68973110 Rev 3 Transformer Specification Above 1MVA P58/80 The radiators shall be hot dipped galvanised only. The galvanising shall comply with SANS 1461. The radiators shall be hot-dip galvanised and painted. Attached Siemens Energy Painting System in which you could find the layer thickness. Galvanising solely could only reach limited thickness and could not suffice C5 environment need.	Accepted.

13	240-68973110 Rev 3 Transformer Specification Above 1MVA P58/80 The galvanising shall comply with SANS 1461. Hot-dip galvanizing must be carried out in accordance with ISO 1461.	Accepted.
14	240-68973110 Rev 3 Transformer Specification Above 1MVA P68/80 3.18.2.2 Pressure relief valve The requirement can be fulfilled, but the test can not be performed as there is no IEC standard procedure for this test.	Accepted. The matter will be attended at a later stage. OEM will not be penalized durring tender evaluations.
15	240-68973110 Rev 3 Transformer Specification Above 1MVA P70/80 One impact recorder shall be mounted inside the tank on the active part and the other one on the tank wall. The impact recorders will be mounted on the tank wall where close to the tank bottom. Mounting it inside the tank will pose risk of introducing moisture to the active part when de-mounting it. Could cause damage to insulation when doing this step.	Accepted. The matter will be attended at a later stage. OEM will not be penalized durring tender evaluations. Proposal is accepted.
16	240-68973110 Rev 3 Transformer Specification Above 1MVA P72/80 3.21.2 On line drying system Online drying system is not within factory scope.	We have not implemented online drying ststem yet. Please ignore.
17	A&B Schedules for item 108, 109, 110, 113 25 Tap-changers, 25.3.1, 25.4 & 25.5 The voltage and insulation levels specified here don't show consistancy. In the winding part, graded insulation is specified with BIL 250 and AC 95. Accordingly, the insulation level for OLTC shall also be 250/95kV, and in this case 72.5kV tap changers will be selected during design calculation. However, the voltage and insulation levels actually indicated here requested a higher voltage level, which don't show consistancy with the winding part and also deviate from ESKOM spec 240-68973110 Table 5, and will result in overdesign and price increase.	Please confirm we could follow 250/95kV for the OLTC, which is in line with the winding values and ESKOM spec. Permission is given, you can proceed as requested.

18	A&B Schedules for item 108, 109, 110, 113 The AB Schedule of Item 89 (40MVA 88-44kV) and item 103 (80MVA 132-33kV) are missing. Kindly provide.		Will be submitted.
19	A&B Schedules for item 108, 109, 110, 113 No CT parameters and quantities are specified in the AB schedule. Please double confirm if they are required. If they are, please provide parameters and quantities.		Will be submitted.

COMMERCIAL

No	Clarification Questions	ESKOM Response / Comments
1	NEC 3 ECC Contract must be submitted and completed?	Yes. Tenderers are required to complete the NEC3 ECC Contract Data Part 2 in full, including the Deviation Schedule. Where no deviations apply, Tenderers must expressly state "No Deviations." This document is a mandatory returnable. Failure to submit a fully completed NEC3 ECC Contract Data Part 2, including the Deviation Schedule, will result in disqualification.

2	Confirm how the Defects Period will apply where a transformer remains in long-term storage and is only placed into service shortly before or after 5 years from DAP.	The guarantee period shall expire on the earlier of: Three (3) years from the date the transformer is placed into service; or Five (5) years from the date of Delivery at Place (DAP) for transformers held in long-term storage. For transformers placed into storage prior to commissioning, the period spent in storage shall count toward the five-year maximum guarantee period calculated from the DAP date. Examples: If a transformer remains in storage for 2 years before being commissioned, the remaining guarantee period after commissioning shall be 3 years. If a transformer remains in storage for 3 years before being commissioned, the remaining guarantee period after commissioning shall be 2 years. In all cases, the total guarantee period shall not exceed five (5) years from the DAP date.
	3 Where the Contractor provides the Performance Bond under X13, a Parent Company Guarantee under X4 will not also be required. Kindly confirm that this understanding is correct.	Correct. Note, this requirement will only be applicable as RFQ stage 2.

SDL&I

No	Clarification Questions	ESKOM Response / Comments
1	Compliance with the applicable Class 1 Power Transformer local content threshold will be assessed at Stage 2 RFQ/Task Order stage and is not a requirement for Stage 1 pre-qualification. Kindly confirm..	Local content compliance will be assessed during Stage 1 of the pre-qualification process. Where the minimum local content threshold of 80% cannot be achieved, an exemption must be requested from the Department of Trade, Industry and Competition (dtic). Furthermore, a dtic exemption will be required for every RFQ issued that includes overseas-based suppliers.
2	Annexures G1–G4 are not required during Stage 1 pre-qualification and will only be required during Stage 2 once the specific RFQ/Task Order scope, quantities and delivery requirements are known and compliance with the applicable local content threshold can be determined. Kindly confirm	Annexures G1–G4 is required to be submitted at Stage 1 pre-qualification as indicated in the Invitation to Tender check list.
3	Please confirm whether Tenderers may apply the 70% threshold for purposes of this tender.	The local content thresholdfor class 1 power transformers is 80% as stated in the SDL&I stratergy "Bidders Doc".
4	Kindly confirm the definition and rating range that Eskom intends to apply for the classification of Class 1 Power Transformers under this tender, and whether the reference to 1 MVA in the tender documentation should be amended to 1.25 MVA	The range for class 1 power transformers is 1.25MVA to 160MVA, 11kV to 132kV.
5	Kindly confirm that the requirement for subcontracting to designated groups is an OBJECTIVE CRITERIA, therefore tenderers will not be excluded for not meeting it.	Yes. Note, subcontracting will only be a requirement at RFQ stage 2. Kindly refer to the tender clarification minutes.