

DOCUMENT NAME**CLARIFICATION QUESTIONS AND ANSWERS (04 July 2025)****TENDER NR**

:

310/2024/25**DESCRIPTION**

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MANUFACTURE, TESTING, SUPPLY AND DELIVERY OF DISTRIBUTION TRANSFORMERS, POLE MOUNTED TRANSFORMERS, MINIATURE SUBSTATIONS AND ACCESSORIES

#	Question	Response
1	All the drawings supplied are from the previous spec, are we to propose a new layout to accommodate the LV MCCB in the transformers and Type 'C' minisubs?	Yes, as per the clauses of Section 8 in the specification.
2	Refer to clause 6.15.5 . We understand that this clause refers to the pole mounted transformers. Clause 6.16 refers to an electronic MCCB to be fitted on all ground mounted transformers. Kindly advise how the city would like the connection from the transformer bushings to the breaker and from the breaker to the busbars to be done for the ground mounted units, Type C and Type B units?	See Specification Clarification Schedule issued.
3	Reference is made on a number of occasions to drawings DR 2399 /C Sheet 1 Rev 14 and DR 2399 Sheet 3 Rev 2 . Kindly advise what we should follow with respect to the busbars. The specifications call for CCAA or Al Alloy while all these drawings call for Copper Busbars and Flexes.	See Specification Clarification Schedule issued.
4	Figure 7-1 Type C Layout. This layout might not be possible:	
a	The requested SMART compartment on the type C is in front of the Tap Changer and Oil Gauge.	Yes, these can be one compartment. The whole height of the miniature substation can be utilized, refer clause 7.2.3.
b	Can the smart compartment be combined with the tap changer and oil gauge if space permits?	
c	The bigger the kVA of the transformer, the longer the transformer will get resulting in an overhang off the base of the smart compartment, will this be acceptable?	Overhang of compartment is acceptable.
d	Can we reposition the smart compartment on the type C to an alternate position?	No
e	Clause 7.2.1 refers to the LV Compartment opening being a minimum of 1250mm. Can we incorporate a double door on the LV Compartment design on the type C as it will be more Robust than 1 single heavy door.	Yes
f	Clause 7.2.3.4 refers to the aerial dome space. Please provide more information on how much space is required and how will the aerial be mounted. Will it be mounted inside or outside the smart compartment of the minisub or on the roof	Aerial dome will be outside and location to be confirmed during engineering phase
g	Clause 7.2.3.5 refers to the tap changer box, we assume the city is referring to the smart compartment. Kindly confirm?	Yes
5	Clause 7.2.3.7 Point 2 with respect to power supply in for the comms and metering unit:	
	Single Phase supply for the comms unit.	Yes, 230AC
	Is the metering unit supply also single phase? Please confirm?	3ph AMI Meter, refer to clause 7.2.6.1.1

6	Clause 7.14.1.1 and 7.15.1.1 refers to a thermostat for over temperature trip indication whereas Clause 7.7.1 refers to digital temperature indication. Then from clause 7.7.5 to 7.7.8 it jumps from digital temperature indication to thermostat. We assume this is an error by the city. Kindly confirm actual requirements, Is a thermostat or a digital temperature required indicator for MV shunt tripping?	See Specification Clarification Schedule issued. digital temperature monitor is required as per clause 7.7
7	Clause 7.14.19 Door status monitoring device. Please confirm where this device must be installed. Should it be installed in the RMU smart compartment or the general smart compartment. Must the AC supply come from the LV side of the transformer or will it be supplied from the AC Supply to the RMU smart compartment. Kindly clarify?	These are sensors on all doors. These door sensors are wired in series back to the terminal strip in the smart compartment
8	Good day. Thank you for the opportunity to participate in this tender. Please find attached our official request letter for an extension. We would appreciate it if you could kindly review the request and advise whether an extension would be possible. Thank you for your consideration.	See Notice 3
9	Good day, We hereby request a 2-month extension of the above tender due to the following; 1. Technical complexity. 2. Technical clarifications still to be submitted and answered. 3. We (and other manufacturers) are currently completing an Eskom tender that closes the end of next week. 4. Drawings supplied do not align to the new specification – this needs clarification. Due to time constraints bidders will not be able to present the most optimised solution to the benefit of the City.	See Notice 3
10	Good day I hope this mail finds you well Please find attached our official request letter for an extension. We would appreciate it if you could kindly review the request and advise whether an extension would be possible. Thank you for your consideration Kind regards	See Notice 3
11	Good day, We would hereby like to request an extension to tender 310G/2024/25.	See Notice 3
12	How the requirements of 7.2.3.1, 7.2.3.2 and 7.2.3.3 work together:	
	The SMART compartment must be at least 300 x 300 x 200 deep.	Minimum specified
	However, in the SMART compartment there are two portions defined, namely a metering portion (to be 300 x 300) and a comms portion (to be 300 x 300).	This can be one compartment, adequately sized. This can also include tap changer and oil level gauge.
	How can two 300 x 300 portions fit into one 300 x 300? Please help educate me – unless they are tiered one on top of the other – with each one being 100mm deep?	
13	Clause 7.2.3.4: What is the aerial dome?	Vandal proof RF aerial that CCT will install when implementing SCADA remote control. Location to be confirmed to be confirmed during the engineering phase
14	Clause 7.2.3.5: This clause refers to the "Compartment and Door" of the tap changer box. However, this clause falls under 7.2.3 "SMART". Can or	This can be one compartment, adequately sized. This can also include

	should the tap changer be incorporated into the SMART compartment?	tap changer and oil level gauge.
	Confirm that the intention is to have one compartment for the SMART metering and comms portions as well as the tap changer? If not, do the requirements of 7.2.3.5 also apply to the SMART compartment?	Yes
15	Clause 7.2.3.7: Which SANS standard are they referring to regarding the power supply point? Do they therefore require an earth leakage unit with overcurrent protection or what?	The single-phase supply shall be connected in parallel in the plug socket wiring in the LV compartment. No earth leakage unit required.
16	Clause 7.14.15.1: This clause states that a SMART compartment shall be provided on the RMU? However, Figure 7-1 and Figure 7-2 and clause 7.2.6.1.8 says that the SMART compartment is to be isolated from the LV and MV compartments. How can the SMART compartment be mounted on the RMU and at the same time be isolated from the MV compartment.	Shall be between the LV and the RMU compartments as indicated in figure 7-1 and 7-2.
17	Clause 7.14.15.3: We understand that the wooden backing is required for the comms portion of the SMART compartment. On to what will the AMI meter be mounted in the metering portion of the SMART compartment.	This can be one compartment, adequately sized. Same wooden backboard.
18	Clause 7.14.15.3.1: 7.14.15.3.1 states "The SCADA compartment shall be provided with an Antenna Conduit as specified for the Radio Communications Unit". Where is the antenna conduit for the radio communications unit specified in their spec? We could not find this.	Conduit/Trunking to be provided for future installation of antenna details to be review in engineering phase.
19	Good day team, I hope this mail finds you well Kindly send us the harmonic spectrum as the Total Harmonic Distortion (THD) is estimated to be less than 10%, on page 83.	Refer to page 43, Section 5.2 Transformer Design Considerations for the effect of Distributed Network Harmonics