

## CLARIFICATION No. 4

**Date:** 28.02.2024

**Ref:** Clarification 4

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**RE: KZN113**

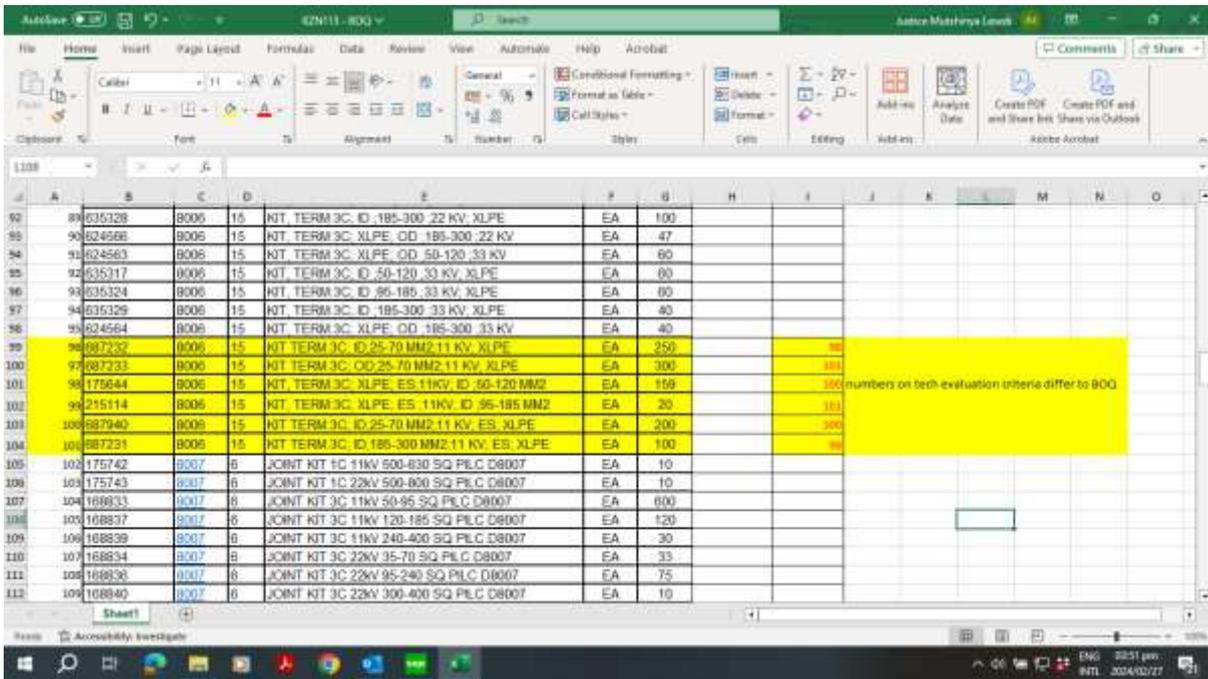
**The Manufacture, Test and Supply of various Medium and Low Voltage Cable Accessories on an “as and when” required basis for various Regional Distribution Centres located in the Central East Cluster (KwaZulu Natal and Free State Operating Units) over a period of thirty-six (36) months. Rotek will be responsible for transportation of the goods.**

ITEM	FILE	PAGE	DESPRICTION	Supplier Query	ESKOM response to clarification query
1	240-56030619	4	SANS 1332	Please help to provide SANS 1332	It is the responsibility of the tender to gain access to SANS 1332.
2	240-56030619	8	tail length	What is tail length?	The query is not exact. All earthing tail lengths shall be as per 240-56030619 and clarifications and addendums posted on Eskom Tender portal for KZN 113. Please refer these addendums and clarifications also. If the query is not addressed, please contact buyer for further clarity.
3	240-56030619	9	Stainless steel or brass M16 x 2 pitch x 35mm long set screw.	In the drawing on page 9, it says M16 x 2 pitch x 40 long, which we shall we follow?	Please use M16 x 2 pitch x 40 long
4	KNZ113-BOQ-20	1	UOM: EA	Is it phase or set?	Assuming you mean the BOQ published on the Eskom tender portal item in row 20. EA is Set
5	2806 2808 8006 8008	1	mechanical torque shear connectors shall be provided	Is crimping cable lug acceptable?	No. Mechanical torque shear connectors only.

6	8006	9	Termination kit to include: 3 X Leakage current collectors, no main /secondary earth braids required (cable termination earthed VIA trifurcating kit)	1, If termination is equipped with earthing braid, is leakage current collectors still needed? 2, for 1 core cable, trifurcating kit is not available.	1.The termination kit on DDT 8006 sheet 6 SAP no 0644724 shall be used on single core cable terminations that come from a trifurcating joint. The main earth shall be from the trifurcating joint. The single core cable tails to connect to the equipment shall require leakage current collectors. 2. A trifurcating joint shall be used to connect 3core cable to 3x single (1C) cables. Refer Eskom Addendum point k).
7	8016	1	CONNECTOR KIT, SEP UNSCR 11kV 50-95 D8016	Three core cable or one core cable?	Three core cable.
8	8017	1	type C interface with M16 x 2 thread	Is one side M16, another side M12 acceptable?	No. Fixing stem shall be M16.
9	8017	1	Trifurcating kit	Is this the crutch (with three fingers) that used for the sealing of the three-core cable?	The trifurcating kit comes with a trifurcating boot (three finger or turret boot), core insulation tubes, earthing kit and installation instruction. Refer DDT8017 and SANS 1332 for requirements.
10	8017	1	earthing kit: 3 x 70mm <sup>2</sup> main earth braid	What is the length of the earthing braid?	Refer section 3.1.2.2 of Eskom standard 3.1.2.2
11	8017	12	surge arrester details for 11kV system: maximum residual voltage 40kV, discharge current 10kA	Is 5kA discharge current acceptable?	No.
12	8017	12	Surge arrester details for 22kV system: maximum residual voltage 40kV, discharge current 10kA	Is 5kA discharge current acceptable?	No.
13	Technical and test schedule MV indoor and outdoor cable termination	test schedule	Type test report to be submitted as per SANS 60502-4 item 1.12	Item 1.12 is not included in IEC 60502-4; can manufacturer perform the test in their own laboratory?	No. It shall be done by an accredited laboratory as defined by SANS 1332.
14	Technical and test schedule MV indoor and outdoor	A&B schedule 4.1.3.3.1	The main earthing conductor of terminations shall be a 70mm <sup>2</sup>	1, Is 70mm <sup>2</sup> mandatory for main earthing conductor? 2, How about the secondary earthing	1. Yes 2. Yes, refer SANS 1322 section 4.1.3

	cable termination		tinned copper braid	conductor? Is there any requirement?	
15	Technical and test schedule MV indoor and outdoor cable termination	A&B schedule 3.1.2.2.1) d	The breakout boot arrangement for the trifurcating kit shall include a fourth leg for the connection and the insulation of the earth conductor.	Is three leg structure acceptable? The earth conductor will be connected through the big hole.	No. Must fully comply to the Eskom requirement as stated.
16	Technical and test schedule MV indoor and outdoor cable termination	A&B schedule 4.1.3.1.3	All cable termination earthing conductors shall be water blocked to prevent the ingress of moisture into the termination.	Is nude tinned copper braid acceptable? Sealing mastic would be used to prevent the entering of the moisture.	The actual main braid needs to have waterblocking in it to prevent water from moving past a certain point in the braid. The method is to be stated. Specifically stated is that only 2.5m main earth braid tails of a 2.5m trifurcating kit shall have and insulated, waterproof main earth braid. But as stated the method of waterblocking for shorter main earth braids shall be stated.
17	Technical and test schedule MV indoor and outdoor cable termination 4.1.4.15	A&B schedule 4.1.4.15	Terminations shall be supplied with range-taking mechanical torque-shear lugs in accordance with NRS 075 and shall be suitable for the standard ranges specified in table 1. The mechanical torque shear lug fixing hole shall be M16.	Is crimping cable lug acceptable?	No. Mechanical torque shear connectors only.
18			Cable information	Please help to provide the datasheet of 11kV, 22kV, 33kV cable	It is the responsibility of the tender to source the relevant cable data sheets as applicable and required.
19	EXCEL BOQ			I noticed that the numbering sequence, on the technical evaluation criteria and the BOQ	

are different, see the highlighted below.



## RESPONSE

Please note that the difference is only the numbering and therefore the BOQ shall remain the same and no changes shall be affected.

BOQ/NEC						TEC					
96	687232	8006	15	KIT TERM:3C; ID;25-70 MM2;11 KV; XLPE	EA	250	96.	0175644	8006	15	KIT, TERM:3C; XLPE; ES;11KV; ID ;50-120 MM2
97	687233	8006	15	KIT TERM:3C; OD;25-70 MM2;11 KV; XLPE	EA	300	97.	0215114	8006	15	KIT, TERM:3C; XLPE; ES ;11KV; ID ;95-185 MM2
98	175644	8006	15	KIT, TERM:3C; XLPE; ES;11KV; ID ;50-120 MM2	EA	159	98.	0687940	8006	15	KIT TERM:3C; ID;25-70 MM2;11 KV; ES; XLPE
99	215114	8006	15	KIT, TERM:3C; XLPE; ES ;11KV; ID ;95-185 MM2	EA	20	99.	0687231	8006	15	KIT TERM:3C; ID;185-300 MM2;11 KV; ES; XLPE
100	687940	8006	15	KIT TERM:3C; ID;25-70 MM2;11 KV; ES; XLPE	EA	200	100.	0687232	8006	15	KIT TERM:3C; ID;25-70 MM2;11 KV; XLPE
101	687231	8006	15	KIT TERM:3C; ID;185-300 MM2;11 KV; ES; XLPE	EA	100	101.	0687233	8006	15	KIT TERM:3C; OD;25-70 MM2;11 KV; XLPE