

ANNEXURE B (KEBU_SPEC_004)

TECHNICAL COMPLIANCE SCHEDULES A AND B FOR
POLE-MOUNTED OPEN BUSHING DISTRIBUTION TRANSFORMERS

Schedule A: Keetmanshoop Electricity Business Unit specific requirements

Schedule B: Guarantees, Technical Compliance and technical particulars of equipment offered

Item	Sub-clause of SANS 780	Description	Unit	Schedule A	Schedule B
1		Identification Name of manufacturer Place of manufacture Product code for transformers Does transformer bear the SABS mark SABS permit number		xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx Must bear SABS Approved Mark xxxxxxxxxxx	
2		Number of units required a) firm b) optional		Refer to the List of Goods and Price Schedule	xxxxxxxxxxx xxxxxxxxxxx
3	4	Ratings Power rating Rated primary voltage Rated no-load secondary voltage Frequency Number of phases (single-phase/three-phase) Vector group (Dyn11 or Yzn11)	kVA kV V Hz	25 / 50 / 100 / 200 11 420 50 1ph / 3ph Dyn11	xxxxxxxxxxx
4	4.6	Insulation levels BIL - Primary BIL - Secondary Power frequency withstand voltage - Primary Power frequency withstand voltage - Secondary	kV kV kV kV	95 30 28 8	
5	5.2	Tapping connections Type Tapping range	%	Switch 0, ± 2.5, ± 5	
6	5.6	Losses, if other than as specified a) no-load losses b) load losses	W W	refer to detail spec refer to detail spec	
7	8.4	Dimensions a) overall height b) overall length c) overall width Total mass	mm mm mm kg	xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx xxxxxxxxxxx	
8	8.5	Constructional details and fittings (see table 3 of SANS 780)		as per table 3 of SANS 780	xxxxxxxxxxx
9	8.8	Windings MV - material (Cu/Al) - type (e.g. Round, Strip or Foil) LV - material (Cu/Al) - type (e.g. Round, Strip or Foil)		Cu xxxxxxxxxxx Cu xxxxxxxxxxx	
10	8.9	Tank and tank cover Tank type (Sealed/free-breathing)		Sealed	xxxxxxxxxxx
	8.9.6	Tank cover of sealed transformer to be bolted, if so agreed	Yes/No	Yes, Cover to be bolted	

Item	Sub-clause of SANS 780	Description	Unit	Schedule A	Schedule B
11	8.12	Medium-voltage bushings for transformers - make - product code - material (e.g. porcelain) - specific creepage distance - Clamping - Type - Stem diameter - Location	mm/kV	xxxxxxxxxx xxxxxxxxxx Porcelain 31 Base Draw lead M12 Side	
12		Low-voltage bushings - make - product code - material (e.g. porcelain) - stem diameter - supplied with flag - flag supplied with set screws, nuts and washers - Location		xxxxxxxxxx xxxxxxxxxx Porcelain M12 Yes Yes Side	
13	8.15	Provision for mounting of surge arrestors		Yes	xxxxxxxxxx
14	8.20	Transformer underbase Underbase required		Yes	xxxxxxxxxx
	8.20.4	Fixing hole spacing details		xxxxxxxxxx	
15	8.23	Corrosive environment (High/low)		Low	xxxxxxxxxx
16		Colours of finishing coats		"Navy light grey"	xxxxxxxxxx
17	8.24.1	Insulating material , if other than specified		xxxxxxxxxx	
18	8.24.2	Cooling method		ONAN	xxxxxxxxxx
19	10	Tests Number of copies of routine test results to be provided Details of previous type-test results available & Submitted Type-test certificate serial numbers and dates, available & Submitted Short-circuit withstand test required Sound level determination required	Yes/No Yes/No	Two xxxxxxxxxx xxxxxxxxxx refer to detail spec refer to detail spec	