

**TECHNICAL EVALUATION CRITERIA FOR
SMART SPLIT METER POLE TOP BOXES FOR
CENTRALEAST CLUSTER**
Unique Identifier: **KZN22SGTC01-AB3**Revision: **1**
Technical A&B schedule (Item 3: SAP 229922)

ESKOM SAP NUMBER: 229922

ESKOM D-DT-3055 REV 23 & D-DT-1043 REV 1

PRODUCT DESCRIPTION: BOX, POLE TOP SMART SPLIT METER, 4-WAY, 20A

ESKOM ENQUIRY NUMBER:			
PRODUCT MANUFACTURER:		PRODUCT CODE:	
TENDERER NAME:		TENDERER REPRESENTATIVE:	
TENDERER SIGNATURE:		DATE:	

Schedule A: Eskom's specific equipment requirements

Schedule B: Guarantees and technical particulars of equipment offered by the tenderer

Item	Sub-clause of 240-7569760	Description	Schedule A	Schedule B
1		Identification 1) Name of manufacturer 2) Product code for the equipment	xxxxxxxxxxxxxx xxxxxxxxxxxxxx	
2	3 3.1	Requirements Climatic conditions 1) Ambient air temperature °C 2) Average daily mean ambient air temperature °C 3) Altitude m 4) Lightning conditions 5) Atmospheric: i) Coastal: Average humidity % ii) Inland: Dry and dusty 6) Mean annual solar radiation W/m ² 7) Average annual rainfall mm	15 to 45 25 up to 1 800 Severe 95 Yes 1000 1000	
3	3.1.1:	Service Distribution Box Types 1) Split type 4-way for one phase. It shall be fitted with two MCBs with 5kA short circuit breaking capacity, DIN rails to accommodate four smart split meters and connection points for 4 customers and a streetlight 2) Minimum dimensions as per D-DT-1043	Yes Yes	

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4	3.1.2	3) Height (min) mm	300	
		4) Width (min) mm	400	
		5) Depth (min) mm	120	
		Box requirements:		
		1) Do the boxes comply with clause 3.1.2 a)	Yes	
		2) Degree of protection of box shall be	IP 33 or better	
		3) Do the boxes comply with clause 3.1.2 c)	Yes	
		4) Do the boxes comply with clause 3.1.2 d)	Yes	
5	3.1.2.1:	Material		
		1) The box material	XXXXXXXXXXXXX	
		2) The box lid or door material (if different)	XXXXXXXXXXXXX	
		3) Are the materials used in the product as per NRS 032	Yes	
		4) The product shall be UV protected	Yes	
		5) The colour of the product shall be as per NRS 032	Yes	
6	3.1.3: 3.1.3.1	Electrical equipment requirements:		
		Miniature circuit breakers		
		1) MCB manufacturer	XXXXXXXXXXXXX	
		2) 40A hydraulic magnetic [Curve 1] or 50A thermal magnetic [Special Curve D]	XXXXXXXXXXXXX	
		3) DIN rail mounted	Yes	
		4) 5kA short circuit breaking capacity	Yes	
		5) 230V rated voltage	Yes	
		6) Compliance with SANS 556-1	Yes	

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7	3.1.3.2	7) Discrimination with 20A standard curve MCB to 1kA	Yes	
		8) Tripping curve which conforms to limits in Annex A	Yes	
		Busbars		
		1) Busbar manufacturer	xxxxxxxxxxxxx	
		2) Do the busbars comply with clause 3.1.3.2 a)	Yes	
8	3.1.3.3	3) Do the busbars comply with clause 3.1.3.2 b)	Yes	
		4) Do the busbars comply with clause 3.1.3.2 c)	Yes	
		Surge Arresters		
		1) Surge arrester manufacturer	xxxxxxxxxxxxx	
		2) Do the surge arresters comply with clause 3.1.3.3 a)	Yes	
9	3.1.3.4	3) Do the surge arresters comply with clause 3.1.3.3 b)	Yes	
		Power Supply Cables		
		1) Power supply cables manufacturer	xxxxxxxxxxxxx	
		2) Do power supply cables comply with clause 3.1.3.4 a)	Yes	
		3) Do power supply cables comply with clause 3.1.3.4 b)	Yes	
10	3.1.3.5	Internal Wiring		
		1) Internal wires manufacturer	xxxxxxxxxxxxx	
		2) Does the internal wiring comply with clause 3.1.3.5 a)	Yes	
		3) Does the internal wiring comply with clause 3.1.3.5 b)	Yes	
		4) Does the internal wiring comply with clause 3.1.3.5 c)	Yes	
		5) Does the internal wiring comply with clause 3.1.3.5 d)	Yes	

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11	3.1.3.6	Cable Glands		
		1) Cable glands manufacturer	xxxxxxxxxxxxxx	
		2) Does the cable glands comply with clause 3.1.3.6 a)	Yes	
12	3.1.3.7	3) Are all the cable entries, holes and cable glands sealed or plugged with a stopper to mitigate ingress of dust, insects, and vermin	Yes	
		Split Meters		
13	3.3	1) Does the product comply with clause 3.1.3.7 a)	Yes	
		Marking, Labelling & Packaging		
		1) Are the products indelibly marked	Yes	
		2) Was evidence of the product markings submitted, plainly showing the details of the products markings	Yes	
		3) Does the product comply with clause 3.3 a)	Yes	
		4) Does the product comply with clause 3.3 b)	Yes	
		5) Does the product comply with clause 3.3 c)	Yes	
		6) Does the product comply with clause 3.3 d)	Yes	
		7) Does the product comply with clause 3.3 e)	Yes	
		8) Does the packaging protect and does not damage the product during normal handling, transport & storage	Yes	
		9) Does the packaging permit identification of the items	Yes	
		10) Was evidence of the product packaging submitted plainly showing the details of the products packaging	Yes	
		11) Are product or installation instructions provided	xxxxxxxxxxxxxx	