Technical Tender Returnables – Clarifications
Substation Clamps and Hardware

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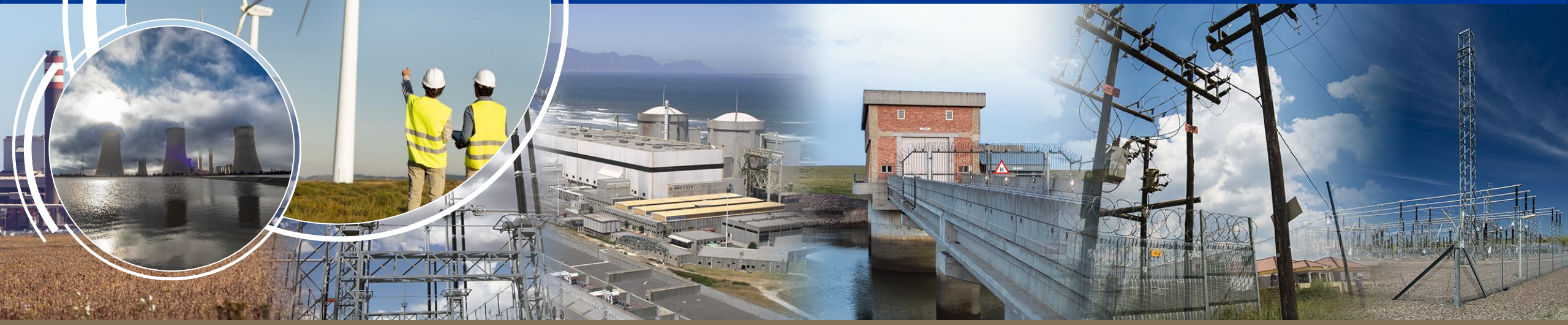

Substation Stranded Conductor Clamps

Substation Clamps

LEVEL 1 CRITERIA	CLAUSE in [3]	YES	NO
Is all information supplied in English?			
Has completed technical schedule B per clamp type been submitted?	3.12 (a)		
Has a full set of drawings per clamp type been submitted?	3.5; 3.12 (b)		
Has a list of all type test certificates and reports specified in the standard been submitted?	3.12 (c)		
Has copies of all type test certificates and reports specified in the standard been submitted?	3.4.9; 3.12 (c)		
Has manual(s) for handling, storage, installation and inspections of the clamps been submitted?	3.9; 3.10; 3.11; 3.12 (d)		
Has samples as per the requested list been supplied?	3.7		

QUALIFYING FOR FURTHER QUALITATIVE EVALUATION?	YES	NO

Substation Clamps

Criteria	Section	% weight	Weighted Score
Clamp Range	B1	15	
Technical Schedules	B2	50	
Outline Drawings	B3	20	
Welding	B4	5	
Sample Impression	B5	10	
Total		**100**	

For each evaluation criteria, the extent to which submissions comply with the requirements shall be scored based on the following, with a maximum score of 100

5	**COMPLIANT** Meet technical requirement(s) AND; No foreseen technical risk(s) in meeting technical requirements.
4	**COMPLIANT WITH ASSOCIATED QUALIFICATIONS** Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR; Acceptable exceptions AND/OR; Acceptable conditions.
2	**NON-COMPLIANT** Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR; Unacceptable exceptions AND/OR; Unacceptable conditions.
0	**TOTALLY DEFICIENT OR NON-RESPONSIVE**

Threshold: The score that each tenderer receives will provide a numeric basis for tender comparison. The minimum weighted average score required for a stranded conductor clamp to be considered must be 85% or above.

Substation Clamps

B1	CLAMPING RANGE			
ITEM NO	**DESCRIPTION**	**UNIT**	**CRITERIA**	**SCORE**
B1.1	Does the supplier supply all the clamps required as per this tender?	% of required clamps listed	> 90 %	5
			80 – 90%	4
			60 – 80%	2
			< 60%	0
Clamping Range (maximum points: 5)			Score	
CLAMPING RANGE (section weight: 15%)			Weighted Score = $(\mathbf{Score}) * \left(\frac{\mathbf{15}}{\mathbf{5}}\right)$	

Substation Clamps

B2	TECHNICAL SCHEDULES			
ITEM NO	DESCRIPTION	UNIT	CRITERIA	SCORE
B2.1 Compliance with Technical Requirements (15%)	Does the supplier comply with the technical requirements as stipulated in the Technical Schedules? (Excluding Type Tests)	% compliance	> 95 %	5
			85 – 95%	4
			70 – 85%	2
			< 70%	0
	Technical Schedules (maximum points: 5)		Score 1	
	Technical Schedules (sub-section weight: 15%)		Weighted Score 1 = $(\textbf{Score 1}) * \left(\frac{15}{5}\right)$	
B2.2 Deviation schedule provided (5%)	Has a deviation schedule been completed and accepted for deviations from the standard?	% compliance	100 %	5
			80-99%	4
			60 -79 %	2
			< 60%	0
	Deviation Schedule (maximum points: 5)		Score 2	
	Deviation Schedule (sub-section weight: 5%)		Weighted Score 2 = $(\textbf{Score 2}) * \left(\frac{5}{5}\right)$	
B2.3 Type Tests Submission (30%)	Have the type tests as specified in the standard been passed as required. Note: If the type test specified below is not applicable to the clamp, then the evaluator will award the points for that particular type test e.g. An electrical test for a support clamp.			
	Heat (Current)-Cycle test		Yes	5
			No	0
	Temperature Rise Test		Yes	5
			No	0
	Corona and RIV test		Yes	5
			No	0
	Short Circuit Withstand Test		Yes	5
			No	0
	Bolt-tightening torque test		Yes	5
			No	0
	Slip/Pull-out strength test		Yes	5
			No	0
	Cantilever strength of bus supports test		Yes	5

		No	0
	Type Tests (maximum points: 35)	Score 3	
	Type Tests (sub-section weight: 30%)	Weighted Score 3 = $(\textbf{Score 3}) * \left(\frac{30}{35}\right)$	
TECHNICAL SCHEDULES (section weight: 50%)		Weighted Score 1 + Weighted Score 2 + Weighted Score 3 =	

- Previous tenders were not successful due to type test certificates

Substation Clamps

B3	OUTLINE DRAWINGS			
ITEM NO	DESCRIPTION	UNIT	CRITERIA	SCORE
B3.1	Clamp description	% drawings correct	100 %	5
			95 – 99.9%	4
			90 – 95%	2
			< 90%	0
B3.2	Eskom code	% drawings correct	100 %	5
			95 – 99.9%	4
			90 – 95%	2
			< 90%	0
B3.3	Drawing number	% drawings correct	100 %	5
			95 – 99.9%	4
			90 – 95%	2
			< 90%	0
B3.4	Ratings	% drawings correct	100 %	5
			95 – 99.9%	4
			90 – 95%	2
			< 90%	0
B3.5	Dimensions including weight (in kg)	% drawings correct	100 %	5
			95 – 99.9%	4
			90 – 95%	2
			< 90%	0
Outline Drawings (maximum points: 25)			Score	
OUTLINE DRAWINGS (section weight: 20%)			Weighted Score = $(\textbf{Score}) * \left(\frac{20}{25}\right)$	

Substation Clamps

B4	WELDING			
ITEM NO	DESCRIPTION	UNIT	CRITERIA	SCORE
B4.1	Has the welding procedure been submitted		Yes	5
			No	0
B4.2	Has proof of accreditation of the OEM welder been submitted		Yes	5
			No	0
Welding (maximum points: 10)			Score	
Welding (section weight: 5%)			Weighted Score = $(\mathbf{Score}) * \left(\frac{\mathbf{5}}{\mathbf{10}}\right)$	

Substation Clamps

B5	SAMPLE IMPRESSION		
ITEM NO	DESCRIPTION	CRITERIA	SCORE
B5.1	Surface finish impression	Acceptable	5
		Not acceptable	0
B5.2	Dimensions according to standard?	Yes	5
		No	0
B5.3	Identification marks: Manufacture's identification Eskom clamp code number Nominal size or range of sizes of conductors with which the clamp is intended to be used	Yes	5
		No	0
B5.4	For bolted clamps: (if applicable) Contact surface of current-carrying clamp grooved Bolt diameter ≥10mm Nuts, bolts and washers galvanized Bolts not protruding to potentially cause corona Bolt torque stamped on clamp	Yes	5
		No	0
B5.5	For compression clamps: (if applicable) Sleeve tubing diameter according to spec Compression sleeve tube marked with position and number of compressions and die size Compression sleeve tube marked with conductor diameter and legible Quality of welds (no cracks, voids, incomplete penetration, incomplete fusion, undercutting or inclusions) Drilled hole of Ø4mm	Yes	5
		No	0

B5	SAMPLE IMPRESSION		
ITEM NO	DESCRIPTION	CRITERIA	SCORE
B5.6	Are pads serrated machined	Yes	5
		No	0
Sample Impression (maximum points: 30)		Score	
SAMPLE IMPRESSION (section weight: 10%)		Weighted Score = $(\text{Score}) * \left(\frac{10}{30}\right)$	

- Sample Evaluation to be done at the factory Visit.

Substation Hardware

Substation Hardware

LEVEL 1 CRITERIA	YES	NO
Is all information supplied in English?		
Ability to supply complete assemblies including all shackles, yokes and other hardware components that make up the assemblies. Evidence that complete assemblies can be supplied. Documents or company catalogue to be submitted to verify this aspect.		
Ability to supply assemblies for single, twin, triple conductor configurations as a minimum requirement as per NTCSA conceptual drawings. Proof in the form of technical drawings indicating complete assembled assemblies as well as separate individual drawings of components, indicating assembly or component strength, dimensions, type of material and key processes, mass etc, to be supplied.		
Confirm that manufacturing, design and testing will be in accordance with SANS IEC 61284:1997. Letter stating this aspect to be submitted, as well as company policies stating this requirement.		
All testing to be done by laboratories that have calibrated equipment and competent personnel capable of operating and performing tests correctly. Documents containing laboratory setup, equipment lists, equipment calibration certificates, testing personnel qualification, laboratory procedures for testing to be submitted. Main criteria are that the laboratory must have an ISO 9001 management system in place or a management system that conforms to ISO 9001.		
Show evidence of Type testing on each individual item, in accordance with SANS IEC 61284: 1997. For this tender, a signed letter is required confirming that all items tendered for have been fully type tested and are ready for use.		
Show evidence of Sample testing in accordance with SANS IEC 61284: 1997. For this tender, documents showing that the above requirements can be met.		
Show evidence of Production testing in accordance with SANS IEC 61284: 1997. For this tender, documents showing that the above requirements can be met.		
Indicate the maximum strength class of hardware that you can supply.		

Substation Hardware

After it has been confirmed that all the tender technical returnables have been submitted, the submission will be assessed against the following criteria (shown below with their weightings)

Criteria	Threshold/Score	Full Score	Minimum Required
Full Assembly	70%/109	155	109
Individual Items	70%/20	28	20
Total	70%/129	183	129

Threshold: The score that each tenderer receives will provide a numeric basis for tender comparison. The minimum weighted average score required for substation hardware to be considered must be 70% or above.

Substation Hardware

NO	Item Description		Assemblies		Please indicated with "X"						
	Single Strain assembly		Conductor	Configuration Single/Twin/Trip Quad/Hex	Offered (X)	Technical information required-0-not supplied, 1 supplied					FINAL TECHNICAL COMMENTS
	Type	Drawing number				Drawing supplied.	Overall length mentioned	Individual items numbered/ code specified and load rating specified	Material type for each item stipulated	Lengths for individual items or critical items mentioned.	
1	A40	0.54/412 sheet 50	Centipede	Single							
2	A41	0.54/412 sheet 50	Bull	Single							
3	B40	0.54/412 sheet 50	Centipede	Twin							
4	B41	0.54/412 sheet 50	Bull	Twin							
5	B42	0.54/412 sheet 50	Centipede	Twin							
6	B43	0.54/412 sheet 50	Centipede	Twin							
7	B44	0.54/412 sheet 50	Bull	Twin							
8	B45	0.54/412 sheet 50	Bull	Twin							
9	BB40	0.54/412 sheet 50	Bull	Triple							

Substation Hardware

	V Strain String Assembly		Conductor	Configuration Single/Twin/Trip Quad/Hex	Offered (X)	Drawing supplied.	Overall length mentioned	Individual items numbered/ code specified and load rating specified	Material type for each item stipulated	Lengths for individual items or critical items mentioned.	
10	C40	0.54/412 sheet 51	Centipede	Twin							
11	C41	0.54/412 sheet 51	Bull	Twin							
12	C42	0.54/412 sheet 51	Bull	Twin							
13	CC40	0.54/412 sheet 51	Bull	Triple							

Substation Hardware

	Suspension String Assembly		Conductor	Configuration Single/Twin/Trip Quad/Hex	Offered (X)	Drawing supplied.	Overall length mentioned	Individual items numbered/ code specified and load rating specified	Material type for each item stipulated	Lengths for individual items or critical items mentioned.	
14	D40	0.54/412 sheet 52	Centipede	Single							
15	D41	0.54/412 sheet 52	Bull	Single							
16	E40	0.54/412 sheet 52	Centipede	Twin							
17	E41	0.54/412 sheet 52	Bull	Twin							
18	E42	0.54/412 sheet 52	Bull	Twin							
19	E43	0.54/412 sheet 52	Centipede	Twin							
20	E44	0.54/412 sheet 52	Bull	Twin							
21	E45	0.54/412 sheet 52	Centipede	Twin							
22	E46	0.54/412 sheet 52	Bull	Twin							
23	E47	0.54/412 sheet 52	Centipede	Twin							
24	EE40	0.54/412 sheet 52	Bull	triple							

Substation Hardware

	V Suspension String Assembly		Conductor	Configuration Single/Twin/Trip Quad/Hex	Offered (X)	Drawing supplied.	Overall length mentioned	Individual items numbered/ code specified and load rating specified	Material type for each item stipulated	Lengths for individual items or critical items mentioned.	
25	F40	0.54/412 sheet 53	Centipede	Twin							
26	F41	0.54/412 sheet 53	Bull	Twin							
27	F42	0.54/412 sheet 53	Bull	Twin							
28	F43	0.54/412 sheet 53	Centipede	Twin							
29	F44	0.54/412 sheet 53	Centipede	Twin							
30	F45	0.54/412 sheet 53	Bull	Twin							
31	FF40	0.54/412 sheet 53	Bull	triple							

TOTAL SCORE ACHIEVABLE	155
THRESHOLD/Score	70%/129

Substation Hardware

No	Item	Description		Substation Hardware Components	Please indicated with "X"	Technical requirements	
			drawing number	Conductor eg Tern, Wolf, Bear	Offered (X)	Drawing provided	Comments
1	Extension Strap	OVERALL LENGTH: 508mm * OVERALL WIDTH: 51mm * MATERIAL: 16mm THICK * HOLE CENTRES: 470mm * HOLES 19mm DIAMETER	0.54/412 sheet 42	n/a			
2	Clevis Ball - 16mm 16L 80CL 120kn	CLEVIS OPENING : 18mm * BALL DIMS : TO SANS 60120 DESIGNATION 16 * CLEVIS DIMS : TO SANS 60471 DESIGNATION 16L * NOMINAL COUPLING LENGTH : 80mm * MINIMUM FAILING LOAD : 120kn		n/a			
3	Socket Clevis	Load rating: 28 knm; to fit 16 mm i.e.c. Ball size; clevis open 18.5mm; pin 16 mm diameter; pin centre to socket centre 60 mm		n/a			
	Yoke Plates						
4	YP1	Plate: material: crs; application: yoke; suppl p/n: el337; triang 150mm 120kn hole centers length: 152mm; hole centers width: 64mm	0.54/412 sheet 44	n/a			
5	YP-1C	Plate: dimensions: thk 16 mm; material: ms galv hot dip sabs 763; application: yoke; suppl p/n: yp1-c 150ctn; reference no: yp1-c; 150mm hole centres	0.54/412 sheet 44	n/a			
6	VYP-C1	Plate: type: yoke v; dimensions: thk 16 mm; material: gs sabs 763 hot dip; drawing no: eskom mp-s1039; reference no: vyp-c1, mc wade; 150 ctn; 15mm hole centres; enc:- ssh002; vendors are responsible for ensuring that they are performing against the correct drawing revision number (if applicable).	0.54/412 sheet 54	n/a			
7	VYP-C2	Plate: type: yoke v; dimensions: thk 16 mm; material: gs sabs 763 hot dip; drawing no: eskom mp-s104; reference no: vyp-c2, mc wade; 165mm and 330mm hole centers; vendors are responsible for ensuring that they are performing against the correct drawing revision number (if applicable).	0.54/412 sheet 54	n/a			
	Strain Clamps						
8	Pistol type strain clamp - 38 mm comes with socket tougue	Clamp, strain: type: 4 bolt pistol, conductor: 30-40 mm, clamp material: al; conductor range 32mm to 42mm dia; clevis open 40mm; suitable for dinosaur bearsfort and bull	0.54/412 sheet 50	Bull			

Substation Hardware

9	Pistol type strain clamp - 26 mm comes with socket tougue	Clamp, strain: type: 3 bolt pistol; conductor: 28.6-19 mm; clamp material: aluminium; clevis open 35mm; suitable for panther, bear, centipede and zebra conductor; complete with socket tongue	0.54/412 sheet 50	Centipede			
10	Pistol type strain clamp - 17 mm comes with socket tougue	Clamp, strain: type: 3 bolt reversed pistol; conductor: 5-20.5 mm; clamp material: aluminium; reference no: st5-20.5 and st70-16; including socket-tongue	0.54/412 sheet 50	Hare			
11	Strain clamp 48 mm	Clamp, strain: type: 3 bolt, conductor: 38.4 mm, clamp material: mi galv sabs 763; suitable for bull conductor	0.54/412 sheet 50	Bull			
12	Strain clamp 36 mm	Clamp, strain: type: 3 bolt; clamp material: al; centipede; vendors are responsible for ensuring that they are performing against the correct drawing revision number (if applicable).	0.54/412 sheet 50	Centipede			
13	Strain clamp - 38 mm comes with Twisted Clevis Tongue	Clamp, strain: conductor: 30-40 mm; clamp material: al; clevis open 43mm; suitable for dinosaur and bull conductor; complete with twisted clevis tongue; vendors are responsible for ensuring that they are performing against the correct drawing revision number (if applicable).	0.54/412 sheet 50	Bull			
14	Strain clamp - 26 mm comes with Twisted Clevis Tongue		0.54/412 sheet 50	n/a			
	Earthwire						
15	10-21,5 mm (EW1)	Clamp, strain: type: single pistol; capacity: 70 kn; conductor: 10-21.5 mm; clamp material: aluminium; specification: sans 61284; sans 60471; ew; steel; 3 bolt; clevis open	0.54/412 sheet 41	Hare			
16	10-21,5 mm (EW2) c/w Twisted Clevis Tongue	Clamp, strain: type: 3 bolt pistol; conductor: 5-20.5 mm; clamp material: aluminium; reference no: ew2+tct70-16; clevis open 25mm; complete with twisted clevis; range 10,0mm to 21,5mm dia	0.54/412 sheet 41	Hare			
17	3,7 – 14,3 Dia. (PG Clamp) For Overhead E/W Hare Conductor	Clamp, strain: type: al to cu; 2 bolt parallel groove; capacity: 14.3 mm; conductor: 3.7-14.3 mm; clamp material: aluminium; current rating 350 amps; length 84mm; width 54mm; height 40mm	0.54/412 sheet 41				

Substation Hardware

18	26-38 mm c/w Socket Tongue	Clamp, suspension: conductor: 40-25 mm, clamp material: mi galv sabs 763; reference no: m14m6ad7009; pivoted	0.54/412 sheet 52				
19	20-30 mm CW ST-SPA 20/30 for 26,5 mm Conductor	Clamp, suspension: conductor: 40-25 mm; clamp material: aluminium; pivot; clevis open 30mm; suitable for zebra, centipede, dinosaur and bull; complete with socket tongue; mc wadetype	0.54/412 sheet 52	Bull			
20	30-40 mm CW ST-SPA 30/40 for 38,3 mm Conductor	Clamp, suspension: conductor: 40 kn; clamp material: aluminium; capacity: 38 mm; type: socket tongue with cradle; pivot; clevis open 30mm; suitable for bull dia 38,30mm	0.54/412 sheet 52	Bull			
21	17 mm c/w Socket Tongue	Clamp, suspension: conductor: 15-25 mm; clamp material: mi galv sabs 763; pivot; vendors are responsible for ensuring that they are performing against the correct drawing revision number (if applicable).	0.54/412 sheet 52	Hare			
22	48 mm c/w Socket Tongue		0.54/412 sheet 52				
23	38 mm c/w Twisted Clevis Tongue	Clamp, suspension: conductor: 40-25 mm; clamp material: aluminium; pivot;clevis open 18mm; suitable for zebra, centipede, dinosaur and bull;conductor; complete with twisted clevis tongue; mc wade type	0.54/412 sheet 52	Bull			
24	26 mm c/w Twisted Clevis Tongue	Clamp, suspension: pivot; clevis open 30mm; suitable for zebra, centipede, dinosaur and bull; conductor; complete with twisted clevis tongue	0.54/412 sheet 52				
25	38 mm Tongue (EC74) for 48 mm and 36 mm Strain Clamps	Sock-tong 16ball 38tong 66lg st-70/38					
	Corona Rings						
26	Universal Corona ring	Clamp, strain: type: 3 bolt; conductor: 28.5-19 mm; clamp material: aluminium; clevis open 32mm; suitable for panther, bear; centipede and zebra; complte with twisted clevis tongue	0.54/412 sheet 48				
27	Corona Ring - ECRSTU L/H	Ring: type: corona, lh; inside diameter: 499 mm; outside diameter: 585 mm; width: 417.5 mm; material: al alloy <0.1 pct cu; grade: 6101a; rating: 420 kv; style: elongated; drawing no: 0.54/412 sheet 48a rev 0; reference no: ecrst-lh; to be smooth on total ring surface; nicks burrs and scratches not	0.54/412 sheet 48A				

Substation Hardware

		acceptable; complete with hot dipped galvanized fixing bolts, nuts and washers;					
28	Corona Ring - ECRSTU R/H	Ring: type: corona, rh; inside diameter: 499 mm; outside diameter: 585 mm; width: 417.5 mm; material: al alloy <0.1 pct cu; grade: 6101a; rating: 420 kv; style: elongated; drawing no: 0.54/412 sheet 48b rev 0; reference no: ecrst-rh; to be smooth on total ring surface; nicks burrs and scratches not acceptable; complete with hot dipped galvanized fixing bolts, nuts and washers;	0.54/412 sheet 48B				

TOTAL SCORE ACHIEVABLE	28
THRESHOLD/Score	70%/20

Substation Insulation Covers

Substation Insulation Covers

LEVEL 1 CRITERIA	CLAUSE in [3]	YES	NO
Is all information supplied in English?	3.7		
Has completed technical schedule B been submitted?	Annexure A		
Has a detailed set of drawings per insulation cover been submitted?	3.7		
Has a list of all type test certificates and reports specified in the specification been submitted?	3.5		
Has manual(s) for handling, storage, installation and inspections of the insulation covers been submitted?	3.7		

QUALIFYING FOR FURTHER QUALITATIVE EVALUATION?	YES	NO

Substation Insulation Covers

After it has been confirmed that all the tender technical returnables have been submitted and that critical requirements have been met, the submission will be assessed against the following criteria (shown below with their weightings).

Criteria	Section	% weight	Weighted Score
Range of Products	B1	5	
Technical Suitability	B2	70	
Outline Drawings	B3	15	
Storage, Maintenance and Installation Manual	B4	10	
Total		**100**	

For each evaluation criteria, the extent to which submissions comply with the requirements shall be scored based on the following, with a maximum score of 100.

5	COMPLIANT Meet technical requirement(s) AND No foreseen technical risk(s) in meeting technical requirements.
4	COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR Acceptable exceptions AND/OR Acceptable conditions.
2	NON-COMPLIANT Does not meet technical requirement(s) AND/OR Unacceptable technical risk(s) AND/OR Unacceptable exceptions AND/OR; Unacceptable conditions.
0	TOTALLY DEFICIENT OR NON-RESPONSIVE

Threshold: The score that each tenderer receives will provide a numeric basis for tender comparison. The minimum weighted average score required for a substation insulation cover to be considered 'technically acceptable' must be **85% or above**.

Substation Insulation Covers

B1	RANGE OF PRODUCTS			
ITEM NO	**DESCRIPTION**	**UNIT**	**CRITERIA**	**SCORE**
B1.1	Does the supplier supply all the covers required as per this tender?	% of required covers listed	> 90 %	5
			80 – 90%	4
			60 – 80%	2
			< 60%	0
RANGE OF PRODUCTS (maximum points: 5)			Score	
RANGE OF PRODUCTS (section weight: 5%)			Weighted Score = $(\mathbf{Score}) * \left(\frac{5}{5}\right)$	

Substation Insulation Covers

B2	TECHNICAL SUITABILITY			
ITEM NO	DESCRIPTION	UNIT	CRITERIA	SCORE
B2.1 Compliance with Technical Requirements (30%)	Does the supplier comply with the technical requirements as stipulated in the Technical Schedules? (Excluding Type Tests)	% compliance	> 90 %	5
			80 – 90%	4
			70 – 80%	2
			< 70%	0
	Tests **(maximum points: 5)**		Score 1	
	Tests (sub-section weight: 30%)		Weighted Score 1 $=(\textbf{Score 1}) * \left(\frac{30}{5}\right)$	
B2.2 Deviation schedule provided (5%)	Has a deviation schedule been completed and accepted for deviations from the standard?	% compliance	100 %	5
			80-99%	4
			60 -79 %	2
			< 60%	0
	Deviation Schedule **(maximum points: 5)**		Score 2	
	Deviation Schedule (sub-section weight: 5%)		Weighted Score 2 = $(\textbf{Score 2}) * \left(\frac{5}{5}\right)$	

Substation Insulation Covers

ITEM NO	DESCRIPTION	UNIT	CRITERIA	SCORE
B2.3 Type Tests Submission (35%)	Have the type tests as specified in the standard been passed as required?			
	Volume resistivity test		Yes	5
			No	0
	Wet withstand test		Yes	5
			No	0
	Wet power frequency flashover test		Yes	5
			No	0
	Lightning impulse withstand test		Yes	5
			No	0
	Cold temperature test		Yes	5
			No	0
	Ultraviolet aging		Yes	5
			No	0
	Salt fog aging		Yes	5
			No	0
	Retention testing		Yes	5
			No	0
	Flammability testing		Yes	5
			No	0
	Radio-influence voltage test		Yes	5
			No	0
	Type Tests (maximum points: 50)		Score 3	
	Type Tests (sub-section weight: 35%)		Weighted Score 3 = $(\textbf{Score 3}) * \left(\frac{35}{50}\right)$	
TECHNICAL SUITABILITY (section weight: 70%)			Weighted Score 1 + Weighted Score 2 + Weighted Score 3 =	

Substation Insulation Covers

B3	OUTLINE DRAWINGS			
ITEM NO	DESCRIPTION	UNIT	CRITERIA	SCORE
B3.1	Insulation Cover description	% drawings correct	> 90 %	5
			80 – 90%	4
			60 – 80%	2
			< 60%	0
B3.2	Eskom code/ SAP Number	% drawings correct	> 90 %	5
			80 – 90%	4
			60 – 80%	2
			< 60%	0
B3.3	Drawing number	% drawings correct	> 90 %	5
			80 – 90%	4
			60 – 80%	2
			< 60%	0
B3.4	Dimensions including weight (in kg)	% drawings correct	> 90 %	5
			80 – 90%	4
			60 – 80%	2
			< 60%	0
Outline Drawings (maximum points: 20)			Score	
OUTLINE DRAWINGS (section weight: 15%)			Weighted Score = $(\textbf{Score}) * \left(\frac{15}{20}\right)$	

Substation Insulation Covers

B4	STORAGE, MAINTENANCE, AND INSTALLATION MANUAL			
ITEM NO	**DESCRIPTION**	**UNIT**	**CRITERIA**	**SCORE**
B4.2	Has the supplier provided a comprehensive storage, maintenance and installation manual (in English)?	Number	Comprehensive and Complete	5
			Minor Omissions	4
			Major Omissions	2
			Not Suitable/ Inaccurate	0
Storage, Maintenance and Installation Manual (maximum points: 5)			Score	
STORAGE, MAINTENANCE, AND INSTALLATION MANUAL (section weight: 10%)			Weighted Score = $(\mathbf{Score}) * \left(\frac{\mathbf{10}}{\mathbf{5}}\right)$	

General

Please arrange the Technical File in the order of the listed returnables:

1. Supply of Stranded Conductor Clamps
2. Supply of Substation Hardware
3. Supply of Substation Insulation Covers

Questions