

	TECHNICAL DOCUMENTS	Document Identifier	240-109836084	Rev	4
		Effective Date	31 May 2024		
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Technical Requirement Annex A– Evaluation Criteria for three phase disconnectors (TPSD)

240-75257542 – OUTDOOR, POLE-MOUNTED, THREE-PHASE, GANG-OPERATED DISCONNECTORS (Paper exercise only).			
Stage 1: GATEKEEPER			
The tender submission that does not meet all the stage 1 gatekeepers is immediately disqualified.			
TASK/MEASURE			
Activity	Clause	Acceptance	Comments
Fully completed A&B schedules at tender closing deadline	240-75257542	Yes/No	
Fully completed type test report summary sheet at tender closing deadline	240-75257542	Yes/No	
Fully completed technical deviation schedule sheet at tender closing deadline and signed by duly authorised person	240-75257542	Yes/No	
Outlines drawings submitted at tender closing deadline.	240-75257542	Yes/No	
Technical manual/Product brochures		Yes/No	
Outcome of gatekeeper:			
Comment(s):			

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Stage 2: Scoring of Eskom technical requirements as per standard 240-75257542			
A factory evaluation will only be done if the tenderer meets the minimum requirements of stage 2. The minimum requirements is a score of 80% and above.			
Note: A score will be allocated per requirement met. Example: 3.1 from standard 240-75257542 has 9 requirements. If only 4 are met, a score of 2.67% will be allocated ($4/9 \times 6\% = 2.67\%$).			
Activity	Clause in Standard 240-75257542(TPSD)	Weighting	Score
Does it meet the Eskom general technical requirements?	3.1	8%	
Does it meet the Eskom rating requirements?	3.2	11%	
Does it meet the Eskom requirements for rated insulation levels?	3.2.3	4%	
Does it meet the Eskom requirements for securing position?	4.1	2%	
Does it meet the Eskom operation requirements?	4.2	3%	
Does it meet the Eskom latching requirements?	4.3	2%	
Does it meet the Eskom indication of position requirements?	4.4	2%	

Activity	Clause in Standard 240-75257542(TPSD)	Weighting	Score
Does it meet the Eskom mechanical strength requirements?	4.5	2%	
Does it meet the Eskom jumper movement requirements?	4.7	4%	
Does it meet the Eskom material requirements?	4.8	2%	
Does it meet the Eskom current path requirements?	4.9.1	2%	
Does it meet the Eskom contact requirements?	4.10.	6%	
Does it meet the Eskom terminal requirements?	4.11	2%	
Does it meet the Eskom insulator requirements?	4.12 & 13	6%	
Does it meet the Eskom mounting and drawing requirements?	4.(14,15,16 &18)	8%	

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Does it meet the Eskom clearances requirements?	4.17	2%		
Does it meet the Eskom rating plate requirements?	4.19	4%		
Total technical requirements score to the requirements of standard 240-75257542:		70%		
Stage 2: Scoring of Eskom type test requirements as per standard 240-75257542				
The type test must be performed at an accredited test facility. All type tests supplied as requested will score 3%. An additional 3% will be awarded per type test if the type test is not older than 10 years. Type test score = $30 * [(3 + 3) / 48] = 3.75\%$				
Test	Clause in Standard 240-75257542	Test Passed	Not older than 10 years	Score
Power frequency voltage wet withstand	5.1.1.1.	2%	2%	
Lighting impulse	5.1.1.2.	2%	2%	
Temperature-rise	5.1.1.3.	2%	2%	
Resistance measurement	5.1.1.4.	1%	1%	
Short-time current withstand	5.1.1.5.	2%	2%	
Breaking current	5.1.1.6.	2%	2%	
Short-circuit making current	5.1.1.7.	2%	2%	
Mechanical endurance	5.1.1.8.	1%	1%	
KIPTS natural ageing and pollution performance or similar test	5.1.2.	1%	1%	
Total type test score to the requirements of standard 240-75257542:		30%		
Final score to the standard of 240-75257542: Technical requirements + Type test requirements score (70% + 30%)		100%		

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Annex A – Evaluation Criteria for three phase disconnectors (TPD)

240-75257542 – OUTDOOR, POLE-MOUNTED, THREE-PHASE, GANG-OPERATED DISCONNECTORS (Paper exercise only).			
Stage 1: GATEKEEPER			
The tender submission that does not meet all the stage 1 gatekeepers is immediately disqualified.			
TASK/MEASURE			
Activity	Clause	Acceptance	Comments
Fully completed A&B schedules at tender closing deadline	240-75257542	Yes/No	
Fully completed type test report summary sheet at tender closing deadline	240-75257542	Yes/No	
Fully completed technical deviations sheet at tender closing deadline and signed by duly authorised person	240-75257542	Yes/No	
Outlines drawings submitted at tender closing deadline.	240-75257542	Yes/No	
Technical manual/Product brochures		Yes/No	
Outcome of gatekeeper:			
Comment(s):			
Stage 2: Scoring of Eskom technical requirements as per standard 240-75257542			
A factory evaluation will only be done if the tenderer meets the minimum requirements of stage 2. The minimum requirements is a score of 80% and above.			
Note: A score will be allocated per requirement met. Example: 3.1 from standard 240-75257542 has 9 requirements. If only 4 are met, a score of 2.67% will be allocated ($4/9 \times 6\% = 2.67\%$).			
Activity	Clause in Standard 240-75257542	Weighting	Score
Does it meet the Eskom general technical requirements?	3.1	8%	
Does it meet the Eskom rating requirements ?	3.2	11%	
Does it meet the Eskom requirements for rated insulation levels?	3.2.3	4%	
Does it meet the Eskom requirements for securing position?	4.1	2%	
Does it meet the Eskom operation requirements?	4.2	3%	
Does it meet the Eskom latching requirements?	4.3	2%	
Does it meet the Eskom indication of position requirements?	4.4	2%	

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Activity	Clause in Standard 240-75257542	Weighting	Score	
Does it meet the Eskom mechanical strength requirements?	4.5	2%		
Does it meet the Eskom jumper movement requirements?	4.7	4%		
Does it meet the Eskom material requirements?	4.8	2%		
Does it meet the Eskom current path requirements?	4.9.1	2%		
Does it meet the Eskom contact requirements?	4.10.	6%		
Does it meet the Eskom terminal requirements?	4.11	2%		
Does it meet the Eskom insulator requirements?	4.12 & 13	6%		
Does it meet the Eskom mounting and drawing requirements?	4.(14,15,16 &18)	8%		
Does it meet the Eskom clearances requirements?	4.17	2%		
Does it meet the Eskom rating plate requirements?	4.19	4%		
Total technical requirements score to the requirements of standard 240-75257542:		70%		
Stage 2: Scoring of Eskom type test requirements as per standard 240-75257542				
The type test must be performed at an accredited test facility. All type tests supplied as requested will score 3%. An additional 3% will be awarded per type test if the type test is not older than 10 years. Type test score = 30*[(3 + 3)/48] = 3.75%				
Test	Clause in Standard 240-75257542	Test Passed	Not older than 10 years	Score
Power frequency voltage wet withstand	5.1.1.1.	2%	2%	
Lighting impulse	5.1.1.2.	2%	2%	
Temperature-rise	5.1.1.3.	2%	2%	
Resistance measurement	5.1.1.4.	1%	1%	
Short-time current withstand	5.1.1.5.	2%	2%	

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Mechanical endurance	5.1.1.8.	3%	3%	
KIPTS natural ageing and pollution performance or similar test	5.1.2.	3%	3%	
Total type test score to the requirements of standard 240-75257542:		30%		
Final score to the standard of 240-75257542: Technical requirements + Type test requirements score (70% + 30%)		100%		

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Annex B – Factory Evaluation Criteria

Section 1		
1 GENERAL INFORMATION		
Name of Supplier:		
Name of Manufacturer:		
Registered name and full street address of the factory at which the audit and inspection is done:		
Factory representatives:		
Name:	Position:	
Name:	Position:	
Name:	Position:	
Name:	Position:	
2 RECEIVING/GOODS INWARDS INSPECTION AND STORAGE		
Are materials, components and sub-assemblies verified by the factory as complying with the applicable requirements?	Yes	No
Comments:		
If the factory relies on certificates of conformity of test results from suppliers, do these clearly identify the products, specifications, quantity of items, dated and signed?	Yes	No
Comments:		
Are non-conforming products/components/materials clearly identified and segregated to prevent their use?	Yes	No

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Comments:		
Are records of raw material received, kept/stored? In what format and for how long?	Yes	No
Comments:		
Is there a system in place to manage reception and allocation of raw materials?	Yes	No
Comments:		
3 PRODUCTION LINE INSPECTION AND ROUTINE TESTS		
Comments:		
ASSEMBLY: Do personnel have readily available up to date procedures, assembly instructions, photographs, drawings or reference samples?	Yes	No
Comments:		
PRODUCTION LINE TEST: Do personnel have readily available up to date procedures, work instructions and drawings related to the required testing to be carried out on the intermediate stage and the final product, related to conformance of the finished product?	Yes	No
Comments:		
Are the test results monitored for trends or recurrences and reported to production/quality management?	Yes	No
Comments:		
Are repaired and reworked products re-inspected in accordance with documented procedures?	Yes	No

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Comments:		
Does the “Production line inspection” and the “Routine Tests” performed by the factory sufficiently cover all the applicable requirements?	Yes	No
Comments:		
Are personnel involved in the assembly and quality control, adequately briefed on their duties and competent to perform them?	Yes	No
Comments:		
4 CALIBRATION OF TEST EQUIPMENT AND TESTING FACILITY		
Is all equipment used for testing calibrated?	Yes	No
Comments:		
Is the equipment provided with a label, or similar method, indicating the date of the last calibration and the due date for the next calibration?	Yes	No
Comments:		
Are records from equipment calibrations appropriate and kept by the factory?	Yes	No
Comments:		
Do the records indicate that the calibration is traceable to National/International metrology standards?	Yes	No
Comments:		
Does the factory have the capability to carry out all the routine tests?	Yes	No

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Comments:		
Do test reports identify the test specimen and are they properly signed and stored?	Yes	No
Comments:		
5 FACTORY CAPABILITY AND QUALITY MANAGEMENT SYSTEM		
Does the factory have a documented Quality Management System?	Yes	No
Comments:		
Does the factory regularly perform internal audits of its Quality Management System, and periodically check that all documented procedures, including those required for certification, are followed?	Yes	No
Comments:		
Are the records from internal audits and the corrective actions, where applicable, available and are they sufficiently detailed to demonstrate that the Quality Management System is effective?	Yes	No
Comments:		
6 COMPLAINTS/NON-CONFORMANCES		
Does the factory have a documented system for handling complaints?	Yes	No
Comments:		
Does the factory review complaints from customers or other stakeholders and take appropriate action?	Yes	No
Comments:		
Are records of the complaints and of the corrective actions taken kept?	Yes	No

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Comments:		
7 CHANGE CONTROL		
Is there a documented procedure that covers control of products and production process changes?	Yes	No
Comments:		
Does the procedure cover the review and approval of product or production process changes by the responsible personnel/management?	Yes	No
Comments:		
Are there provisions to ensure that changes to the product construction are accepted by competent/authorise personnel?	Yes	No
Comments:		
Is there an up to date parts list or similar evidence available, specifying the components/parts to be used during production of the products?	Yes	No
Comments:		
8 DESIGN PRACTICES		
Are designs done in-house?	Yes	No
Comments:		
Does the company have design tools and guidelines?	Yes	No
Comments:		
Is there a design process workflow system?	Yes	No

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Comments:		
Is there a documented process for verification and validation of designs?	Yes	No
Comments:		
Are new designs approved and verified by competent personnel?	Yes	No
Comments:		
Following final design approval, is there a process in place to link the new design to the manufacturing process?	Yes	No
Comments:		
Section 2		
9 COMPLIANCE TO STANDARD 240-75257542 (TPSD)		
9.1 General		
Compliance to general technical requirements (3.1)?	Yes	No
Comments:		
Compliance to rating requirements (3.2)?	Yes	No
Comments:		
Compliance to requirements for general design (4,1,2,3,4,5,6)?	Yes	No
Comments:		
Compliance to material requirements (4.8)?	Yes	No

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Comments:		
Compliance to electrical requirements (4.9)?	Yes	No
Comments:		
Compliance to contact requirements (4.10)?	Yes	No
Comments:		
Compliance to conductor terminal requirements (4.11)?	Yes	No
Comments:		
Compliance to insulators requirements (4.11,13)?	Yes	No
Comments:		
Compliance to mounting requirements (4.14,15,16)?	Yes	No
Comments:		
Compliance to electrical clearances requirements (4.17)?	Yes	No
Comments:		
Drawing (4.18)?	Yes	No
Comments:		
Compliance to rating plate requirements (4.19)?	Yes	No
Comments:		

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9.2 Type tests		
Power frequency voltage wet withstand (5.1.1.1)	Yes	No
Comments:		
Lighting impulse (5.1.1.2)	Yes	No
Comments:		
Temperature-rise (5.1.1.3)	Yes	No
Comments:		
Resistance measurement (5.1.1.4)	Yes	No
Comments:		
Short-time current withstand (5.1.1.5)	Yes	No
Comments:		
Breaking current (5.1.1.6)	Yes	No
Short-circuit making current (5.1.1.7)	Yes	No
Mechanical endurance (5.1.1.8)	Yes	No
Comments:		
KIPTS natural ageing and pollution performance or similar (5.1.2)	Yes	No

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Comments:		
10 COMPLIANCE TO STANDARD 240-75257542(TPD)		
10.1 General		
Compliance to general technical requirements (3.1)?	Yes	No
Comments:		
Compliance to rating requirements (3.2)?	Yes	No
Comments:		
Compliance to requirements for general design (4,1,2,3,4,5,6)?	Yes	No
Comments:		
Compliance to material requirements (4.8)?	Yes	No
Comments:		
Compliance to electrical requirements (4.9)?	Yes	No
Comments:		
Compliance to contact requirements (4.10)?	Yes	No
Comments:		
Compliance to conductor terminal requirements (4.11)?	Yes	No
Comments:		
Compliance to insulators requirements (4.11,13)?	Yes	No

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Comments:		
Compliance to mounting requirements (4.14,15,16)?	Yes	No
Comments:		
Compliance to electrical clearances requirements (4.17)?	Yes	No
Comments:		
Drawing (4.18)?	Yes	No
Comments:		
Compliance to rating plate requirements (4.19)?	Yes	No
Comments:		
10.2 Type tests		
Power frequency voltage wet withstand (5.1.1.1)	Yes	No
Comments:		
Lighting impulse (5.1.1.2)	Yes	No
Comments:		
Temperature-rise (5.1.1.3)	Yes	No
Comments:		
Resistance measurement (5.1.1.4)	Yes	No

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Comments:		
Short-time current withstand (5.1.1.5)	Yes	No
Comments:		
Mechanical endurance (5.1.1.8)	Yes	No
Comments:		
KIPTS natural ageing and pollution performance or similar (5.1.2)	Yes	No
Comments:		
11 FINDINGS		
12 CONCLUSION		
13 RECOMMENDATION(S)		
A copy of this report is provided to the undersigned contact person in the factory, who confirms to be aware of the contents by signing below:		
Date:		
Auditor's name:		
Signature:		

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