DOCUMENT NO.:

Kenya Power

SPECIFICATIONS FOR TRANSFORMER REPAIR MATERIALS AND PARTS

A Document of the Kenya Power & Lighting Co. Ltd
June 2026

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CIRCULATION LIST

COPY NO.	COPY HOLDER
1	Manager Electrical plant
2	Engineer E/plant workshop

AMENDMENT RECORD

Rev No.	Date (YYYY-MM-DD)	Description of Change	Prepared by (Name & Signature)	Approved by (Name & Signature)
0	2026-06-10	New issue	DANIEL ACHIENJI	Jeremiah Kwid.

FOREWORD

This specification has been prepared by the E/plant workshop of The Kenya Power and Lighting Company Limited (KPLC) and it lays down requirements for transformer repair materials and parts.

This specification was prepared to establish and promote uniform requirements for transformer repair materials and parts to be used at Kenya Power and Lighting Company Ltd. There are no other specifications in this series.

This specification stipulates the minimum requirements for transformer repair materials and parts acceptable for use in the company and it shall be the responsibility of the supplier to ensure that the offered transformer repair materials and parts are of the highest quality and guarantees excellent service to KPLC.

Users of Kenya Power specifications are responsible for their correct interpretation and application.

1. SCOPE

i. This specification is for transformer repair materials and parts for use in the transformer repair process.

ii. The specification stipulates the minimum requirements, Inspection and tests of the transformer repair materials and parts as well as a schedule of Guaranteed Technical Particulars.

2. NORMATIVE REFERENCES

All equipment, materials, and installation work shall conform to the latest editions of the following standards

- ISO 9001:2015 - Quality management systems.
- IEC 60137
- IEC 60627-3
- IEC 60214-1
- IEC 60076-1:2011.
- IEC 60214
- IEC 60512
- BS 4190
- BS EN 14399

3. DEFINITIONS AND ABBREVIATIONS

For the purpose of this specification the definitions and abbreviations given in the reference standards shall apply together with the following abbreviations.

ABBREVIATIONS

A-Amp

AC-Alternating Current

KPLC- Kenya Power and Lighting Company Limited

ISO – International Organization for Standardization.

IEC- International electro technical commission

Kg –Kilogram

Hz-Hertz

KV - Kilovolt

LV – Low Voltage

EN – European Standard

MHz-Mega hertz

MA-milliamp

RMS-Root Mean Square

V-Volt

4.0 GENERAL REQUIREMENTS

4.1 SERVICE CONDITIONS

4.1.1 The transformer repair materials and parts shall be suitable for use both indoor and outdoor in tropical areas and harsh climatic conditions including areas exposed to

a) Altitude of up to 2200m above sea level;

b) Humidity of up to 95%

c) Average ambient temperature of +30◦C with a minimum of -1◦C and a maximum of +40◦C

d) Pollution design-pollution level to be taken as Heavy (Level III) for inland and Very Heavy (Level IV) for coastal applications.

e) Isokeraunic levels up to 180 thunderstorm days per year.

4.2 Design, Materials and construction

4.2.1 All transformer repair materials and parts shall be compatible with oil immersed transformers operating in tropical areas.

4.2.2 Supplier shall provide relevant type test certificates together with the bid for evaluation purposes where applicable.

4.3 Specific requirements

4.3.1 36 kV HV bushing

4.3.1.1 The sample for the bushing shall be viewed at Kenya power Isiolo rd workshop.

4.3.1.2 The HV bushing shall be designed, manufactured and tested in accordance with IEC 60137

4.3.1.3 The voltage rating of the bushing shall be 36kV.

4.3.1.4 Power frequency withstand voltage (wet): 95 kV (1 min)

4.3.1.5 Lightning impulse withstand voltage (BIL): 200 kV peak

4.3.1.6 The HV bushings shall be made of either porcelain or grade C-120 ceramic material or equivalent complying to IEC 60627-3 or composite (polymeric) material made of high quality reinforced high temperature vulcanized (HTV) silicon rubber based on dimethyl siloxane, which exhibit hydrophobicity with the capability to transfer hydrophobicity to the layer of pollution.

4.3.1.7 The specific creepage distance of bushing shall not be less than 31mm/kV based on maximum phase to phase Voltage

4.3.1.8 The HV bushing shall be supplied complete with copper or brass Spindle, Brass bolts, Washers, gaskets and lead wire.

4.3.1.9 The submitted copies of HV bushing type test report shall include

a) Dry lightning impulse voltage withstand test.
b) Dry power- frequency Voltage withstand test
c) Wet power- frequency voltage withstand test
d) Load withstand test

4.3.2 17.5 kV HV Bushing

4.3.2.1 The sample for the bushing shall be viewed at Kenya power Isiolo rd workshop.

4.3.2.2 The HV bushing shall be designed, manufactured and tested in accordance with IEC 60137

4.3.2.3 The voltage rating of the bushing shall be 12 kV.

4.3.2.4 Power frequency withstand voltage (wet): 38 kV (1 min)

4.3.2.5 Lightning impulse withstand voltage (BIL): 95 kV peak

4.3.2.6 The HV bushings shall be made of either porcelain or grade C-120 ceramic material or equivalent complying to IEC 60627-3 or composite (polymeric) material made of high quality reinforced high temperature vulcanized (HTV) silicon rubber based on dimethyl siloxane, which exhibit hydrophobicity with the capability to transfer hydrophobicity to the layer of pollution.

4.3.2.7 The specific creepage distance of bushing shall not be less than 31mm/kV based on maximum phase to phase Voltage

4.3.2.8 The HV bushing shall be supplied complete with copper or brass Spindle, Brass bolts, Washers, gaskets and lead wire.

4.3.2.9 The submitted copies of HV bushing type test report shall include

e) Dry lightning impulse voltage withstand test.

f) Dry power- frequency Voltage withstand test

g) Wet power- frequency voltage withstand test

h) Load withstand test

4.3.3 Tap switch 36 kV three phase

4.3.3.1 The configuration of the tap switch shall be three phase gang-operated.

4.3.3.2 The number of positions shall be five (5).

4.3.3.3 The contact material shall be silver plated copper or equivalent.

4.3.3.4 The rated voltage shall be 36kV.

4.3.3.5 Sample to be viewed at Kenya power Isiolo rd workshop.

4.3.3.6 The tap switch shall be designed, manufactured and tested as per IEC 60214-1 and IEC 60076-1:2011.

4.3.3.7 The tapping shall be by selection of an external hand wheel and a shaft connected to linear horizontal contacts and a provision for locking onto a selected tapping. The locking mechanism shall ensure continuous contact onto the selected tapping to avoid open circuit. The shaft shall be adequately sealed so that no seepage of oil occurs under all conditions of service. The material of the external hand wheel shall be a corrosion resistant metal.

4.3.3.8 The tap switch shaft shall be robust and of sufficient height to enable active linear contacts to be fully submerged in oil at all times.

4.3.3.9 The voltage operating positions, together with the tap change positions shall be clearly and indelibly marked. The ratio tap switch position 1 shall correspond to the highest voltage on HV side.

4.3.3.10 The make contacts of the tap switch shall be robust and of sufficient surface area. The tap switch shall comply with relevant requirements of IEC 60214 and IEC 60512

4.3.3.11 The submitted copies of tap switch type test report shall include:

a) Temperature rise test of the contacts

b) Power frequency voltage withstand test.

4.3.4 Tap switch 12 kV three phase

4.3.4.1 The configuration of the tap switch shall be three phase gang-operated.

4.3.4.2 The number of positions shall be five (5).

4.3.4.3 The contact material shall be silver plated copper or equivalent.

4.3.4.4 The rated voltage shall be 12kV.

4.3.4.5 Sample to be viewed at Kenya power Isiolo rd workshop.

4.3.4.6 The tap switch shall be designed, manufactured and tested as per IEC 60214-1 and IEC 60076-1:2011.

4.3.4.7 The tapping shall be by selection of an external hand wheel and a shaft connected to linear horizontal contacts and a provision for locking onto a selected tapping. The locking mechanism shall ensure continuous contact onto the selected tapping to avoid open circuit. The shaft shall be adequately sealed so that no seepage of oil occurs under all conditions of service. The material of the external hand wheel shall be a corrosion resistant metal.

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4.3.4.11 The submitted copies of tap switch type test report shall include:

a) Temperature rise test of the contacts

b) Power frequency voltage withstand test.

4.3.5 Tap switch 12 kV single phase

4.3.5.1 The configuration of the tap switch shall be single phase.

4.3.5.2 The number of positions shall be five (5).

4.3.5.3 The contact material shall be silver plated copper or equivalent.

4.3.5.4 The rated voltage shall be 12kV.

4.3.5.5 Sample to be viewed at Kenya power Isiolo rd workshop.

4.3.5.6 The tap switch shall be designed, manufactured and tested as per IEC 60214-1 and IEC 60076-1:2011.

4.3.5.7 The tapping shall be by selection of an external hand wheel and a shaft connected to linear horizontal contacts and a provision for locking onto a selected tapping. The locking mechanism shall ensure continuous contact onto the selected tapping to avoid open circuit. The shaft shall be adequately sealed so that no seepage of oil occurs under all conditions of service. The material of the external hand wheel shall be a corrosion resistant metal.

4.3.5.8 The tap switch shaft shall be robust and of sufficient height to enable active linear contacts to be fully submerged in oil at all times.

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4.3.5.11 The submitted copies of tap switch type test report shall include:

a) Temperature rise test of the contacts

b) Power frequency voltage withstand test.

4.3.6 Tap switch 36 kV Single phase

4.3.6.1 The configuration of the tap switch shall be single phase.

4.3.6.2 The number of positions shall be five (5).

4.3.6.3 The contact material shall be silver plated copper or equivalent.

4.3.6.4 The rated voltage shall be 36kV.

4.3.6.5 Sample shall be viewed at Kenya power Isiolo rd workshop.

4.3.6.6 The tap switch shall be designed, manufactured and tested as per IEC 60214-1 and IEC 60076-1:2011.

4.3.6.7 The tapping shall be by selection of an external hand wheel and a shaft connected to linear horizontal contacts and a provision for locking onto a selected tapping. The locking mechanism shall ensure continuous contact onto the selected tapping to avoid open circuit. The shaft shall be adequately sealed so that no seepage of oil occurs under all conditions of service. The material of the external hand wheel shall be a corrosion resistant metal.

4.3.6.8 The tap switch shaft shall be robust and of sufficient height to enable active linear contacts to be fully submerged in oil at all times.

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4.3.6.10 The make contacts of the tap switch shall be robust and of sufficient surface area. The tap switch shall comply with relevant requirements of IEC 60214 and IEC 60512

4.3.6.11 The submitted copies of tap switch type test report shall include:

a) Temperature rise test of the contacts

b) Power frequency voltage withstand test.

4.3.7 Stainless steel bolts and nuts

4.3.7.1 Dimensions: the sizes of the bolts and nuts shall range from 13mm to 22mm.

4.3.7.2 Sample shall be viewed at Kenya power Isiolo rd workshop.

4.3.7.3 The bolt and nut assembly shall consist of two flat washers and one spring washer.

4.3.7.4 The stainless steel material used to manufacture the bolts, nuts and washers shall offer a superior corrosion resistance property to heavy saline condition along the coast.

4.3.7.5 All bolts and nuts shall be cleanly finished, sound and free from defects in accordance with BS 4190 and BS EN 14399 standards.

4.3.7.6 The bolts, nuts and washers shall be assembled and supplied by one manufacturer.

4.3.7.7 The nuts shall be finger tight on bolts not excessively tight or loose to fit.

4.3.8 Hv bushing caps

4.3.8.1 Sample shall be viewed at Kenya power Isiolo rd workshop.

4.3.8.2 The caps shall be supplied in the following range of colours:-Red, Yellow and Blue.

4.3.8.3 Material: they shall be made of brass.

4.3.8.4 They shall be supplied complete with rubber seals.

5.0 TESTS AND INSPECTION

5.1 The transformer repair materials and parts shall be inspected and tested in accordance with the requirements of this specification and relevant standards.it shall be the responsibility of the manufacturer to perform or to have performed all tests specified.

5.2 Certified true copies of previous Test Reports issued by own or a third-party testing laboratory that is accredited to ISO/IEC 17025:2005 or 17025:2017 confirming compliance of the transformer repair materials and parts offered shall be submitted with the offer for evaluation (all in English Language). A copy of the **accreditation certificate** and the **scope of accreditation** of the testing laboratory shall also be submitted. Any translations of certificates or test reports into English language shall be signed and stamped by the Testing Authority that carried out tests.

6.0 MARKING AND PACKAGING

6.1 Packaging of the transformer repair materials and parts shall be designed to protect against ingress of moisture and mechanical damage.

APPENDICIES

A.DOCUMENTATION AND SUPPORT

A.1 The bidder (supplier) shall submit clause by clause statement of compliance with the specifications together with copies of manufacturer catalogues, brochures and technical all in English for evaluation.

A2 The transformer repair materials and parts shall be backed by a minimum 12-months warranty after installation

GUARANTEED TECHNICAL PARTICULARS (Normative)

To be filled and signed by the supplier and submitted together with relevant copies of catalogues, brochures, drawings, technical data, for tender evaluation, all in English Language)

Tender No. .....

Bidder's name and Address.....

Clause Number	KPLC Requirements	Bidders offer
4.0	**GENERAL REQUIREMENTS**	
4.1	**Service conditions**	
4.1.1	The transformer repair materials and parts shall be suitable for use both indoor and outdoor in tropical areas and harsh climatic conditions including areas exposed to	
a)	Altitude	State
b)	Humidity	State
c)	Average ambient temperature.	State
d)	Pollution design.	State
e)	Isokeraunic levels up to 180 thunderstorm days per year.	State
4.2	**Design, Materials and construction**	
4.2.1	All transformer repair materials and parts shall be compatible with oil immersed transformers operating in tropical areas.	State
4.2.2	Supplier shall provide relevant type test certificates together with the bid for evaluation purposes where	State

	applicable	
4.3	**Specific requirements**	
4.3.1	**36 kV HV bushing**	
4.3.1.1	The sample for the bushing shall be viewed at Kenya power Isiolo rd workshop.	State
4.3.1.2	The HV bushing shall be designed, manufactured and tested in accordance with IEC 60137	State
4.3.1.3	The voltage rating of the bushing.	state
4.3.1.4	Power frequency withstand voltage (wet)	state
4.3.1.5	Lightning impulse withstand voltage (BIL)	state
4.3.1.6	The HV bushings shall be made of either porcelain or grade C-120 ceramic material or equivalent complying to IEC 60627-3 or composite (polymeric) material made of high quality reinforced high temperature vulcanized (HTV) silicon rubber based on dimethyl siloxane, which exhibit hydrophobicity with the capability to transfer hydrophobicity to the layer of pollution.	state
4.3.1.7	The specific creepage distance of bushing shall not be less than 31mm/kV based on maximum phase to phase Voltage	state
4.3.1.8	The HV bushing shall be supplied complete with copper or brass Spindle, Brass bolts, Washers, gaskets and lead wire.	state
4.3.1.9	The submitted copies of HV bushing type test report shall include	state
a)	Dry lightning impulse voltage withstand test	state
b)	Dry power- frequency Voltage withstand test	state
c)	Wet power- frequency voltage withstand test	state
d)	Load withstand test	State

4.3.2	**17.5 kV HV Bushing**	
4.3.2.1	The sample for the bushing shall be viewed at Kenya power Isiolo rd workshop	State
4.3.2.2	The HV bushing shall be designed, manufactured and tested in accordance with IEC 60137	State
4.3.2.3	The voltage rating of the bushing.	State
4.3.2.4	Power frequency withstand voltage (wet)	State
4.3.2.5	Lightning impulse withstand voltage (BIL)	State
4.3.2.6	The HV bushings shall be made of either porcelain or grade C-120 ceramic material or equivalent complying to IEC 60627-3 or composite (polymeric) material made of high quality reinforced high temperature vulcanized (HTV) silicon rubber based on dimethyl siloxane, which exhibit hydrophobicity with the capability to transfer hydrophobicity to the layer of pollution.	State
4.3.2.7	The specific creepage distance of bushing shall not be less than 31mm/kV based on maximum phase to phase Voltage	State
4.3.2.8	The HV bushing shall be supplied complete with copper or brass Spindle, Brass bolts, Washers, gaskets and lead wire.	State
4.3.2.9	The submitted copies of HV bushing type test report shall include	State
a)	Dry lightning impulse voltage withstand test	State
b)	Dry power- frequency Voltage withstand test	State
c)	Wet power- frequency voltage withstand test	State
d)	Load withstand test	State
4.3.3	**Tap switch 36 kV three phase**	

4.3.3.1	The configuration of the tap switch shall be three phase gang-operated.	State
4.3.3.2	The number of positions shall be five (5).	State
4.3.3.3	The contact material shall be silver plated copper or equivalent.	State
4.3.3.4	The rated voltage shall be 36kV	State
4.3.3.5	Sample to be viewed at Kenya power Isiolo rd workshop	State
4.3.3.6	The tap switch shall be designed, manufactured and tested as per IEC 60214-1 and IEC 60076-1:2011.	State
4.3.3.7	The tapping shall be by selection of an external hand wheel and a shaft connected to linear horizontal contacts and a provision for locking onto a selected tapping. The locking mechanism shall ensure continuous contact onto the selected tapping to avoid open circuit. The shaft shall be adequately sealed so that no seepage of oil occurs under all conditions of service. The material of the external hand wheel shall be a corrosion resistant metal.	State
4.3.3.8	The tap switch shaft shall be robust and of sufficient height to enable active linear contacts to be fully submerged in oil at all times.	State
4.3.3.9	The voltage operating positions, together with the tap change positions shall be clearly and indelibly marked. The ratio tap switch position 1 shall correspond to the highest voltage on HV side.	State
4.3.3.10	The make contacts of the tap switch shall be robust and of sufficient surface area. The tap switch shall comply with relevant requirements of IEC 60214 and IEC 60512	State
4.3.3.11	The submitted copies of tap switch type test report shall include:	State

a)	Temperature rise test of the contacts	State
b)	Power frequency voltage withstand test.	State
4.3.4	**Tap switch 12 kV three phase**	
4.3.4.1	The configuration of the tap switch shall be three phase gang-operated.	State
4.3.4.2	The number of positions shall be five (5).	State
4.3.4.3	The contact material shall be silver plated copper or equivalent.	State
4.3.4.4	The rated voltage shall be 12kV	State
4.3.4.5	Sample to be viewed at Kenya power Isiolo rd workshop	State
4.3.4.6	The tap switch shall be designed, manufactured and tested as per IEC 60214-1 and IEC 60076-1:2011.	State
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4.3.4.11	The submitted copies of tap switch type test report shall	State
a)	Temperature rise test of the contacts	State
b)	Power frequency voltage withstand test.	State
4.3.5	**Tap switch 12 kV single phase**	
4.3.5.1	The configuration of the tap switch shall be single phase.	State
4.3.5.2	The number of positions shall be five (5).	State
4.3.5.3	The contact material shall be silver plated copper or equivalent.	State
4.3.5.4	The rated voltage shall be 12kV	State
4.3.5.5	Sample to be viewed at Kenya power Isiolo rd workshop	State
4.3.5.6	The tap switch shall be designed, manufactured and tested as per IEC 60214-1 and IEC 60076-1:2011.	State
4.3.5.7	The tapping shall be by selection of an external hand wheel and a shaft connected to linear horizontal contacts and a provision for locking onto a selected tapping. The locking mechanism shall ensure continuous contact onto the selected tapping to avoid open circuit. The shaft shall be adequately sealed so that no seepage of oil occurs under all conditions of service. The material of the external hand wheel shall be a corrosion resistant metal.	State
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4.3.5.9	The voltage operating positions, together with the tap change positions shall be clearly and indelibly marked. The ratio tap switch position 1 shall correspond to the highest voltage on HV side.	State
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	relevant requirements of IEC 60214 and IEC 60512	
4.3.5.11	The submitted copies of tap switch type test report shall	State
a)	Temperature rise test of the contacts	State
b)	Power frequency voltage withstand test.	State
4.3.6	**Tap switch 36 kV Single phase**	
4.3.6.1	The configuration of the tap switch shall be single phase.	State
4.3.6.2	The number of positions shall be five (5).	State
4.3.6.3	The contact material shall be silver plated copper or equivalent.	State
4.3.6.4	The rated voltage shall be 12kV	State
4.3.6.5	Sample to be viewed at Kenya power Isiolo rd workshop	State
4.3.6.6	The tap switch shall be designed, manufactured and tested as per IEC 60214-1 and IEC 60076-1:2011.	State
4.3.6.7	The tapping shall be by selection of an external hand wheel and a shaft connected to linear horizontal contacts and a provision for locking onto a selected tapping. The locking mechanism shall ensure continuous contact onto the selected tapping to avoid open circuit. The shaft shall be adequately sealed so that no seepage of oil occurs under all conditions of service. The material of the external hand wheel shall be a corrosion resistant metal.	State
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	sufficient surface area. The tap switch shall comply with relevant requirements of IEC 60214 and IEC 60512	
4.3.6.11	The submitted copies of tap switch type test report shall	State
a)	Temperature rise test of the contacts	State
b)	Power frequency voltage withstand test.	State
4.3.7	**Stainless steel bolts and nuts**	
4.3.7.1	Dimensions: the sizes of the bolts and nuts shall range from 13mm to 22mm.	State
4.3.7.2	Sample shall be viewed at Kenya power Isiolo rd workshop	State
4.3.7.3	The bolt and nut assembly shall consist of two flat washers and one spring washer.	State
4.3.7.4	The stainless steel material used to manufacture the bolts, nuts and washers shall offer a superior corrosion resistance property to heavy saline condition along the coast.	State
4.3.7.5	All bolts and nuts shall be cleanly finished, sound and free from defects in accordance with BS 4190 and BS EN 14399 standards	State
4.3.7.6	The bolts, nuts and washers shall be assembled and supplied by one manufacturer.	State
4.3.7.7	The nuts shall be finger tight on bolts not excessively tight or loose to fit.	State
4.3.8	**Hv bushing caps**	
4.3.8.1	Sample shall be viewed at Kenya power Isiolo rd workshop	State
4.3.8.2	The caps shall be supplied in the following range of colours:-Red, Yellow and Blue.	State
4.3.8.3	Material: they shall be made of brass.	State
4.3.8.4	They shall be supplied complete with rubber seals.	State

5.0	**TESTING AND INSPECTION**	
5.1	The transformer repair materials and parts shall be inspected and tested in accordance with the requirements of this specification and relevant standards.it shall be the responsibility of the manufacturer to perform or to have performed all tests specified.	State
5.2	Certified true copies of previous Test Reports issued by own or a third-party testing laboratory that is accredited to ISO/IEC 17025:2005 or 17025:2017 confirming compliance of the transformer repair materials and parts offered shall be submitted with the offer for evaluation (all in English Language). A copy of the accreditation certificate and the scope of accreditation of the testing laboratory shall also be submitted. Any translations of certificates or test reports into English language shall be signed and stamped by the Testing Authority that carried out tests.	State
6.0	**MARKING AND PACKAGING**	
6.1	Packaging of the transformer repair materials and parts shall be designed to protect against ingress of moisture and mechanical damage.	State
A	**APPENDICIES**	
	DOCUMENTATION AND SUPPORT	State
A1	The bidder (supplier) shall submit clause by clause statement of compliance with the specifications together with copies of manufacturer catalogues, brochures and technical all in English for evaluation.	State
A2	The transformer repair materials shall be backed by a minimum 12-months warranty after installation.	State

.....

Suppliers Name, Signature, Stamp and Date

Issued by: E/plant Workshop Engineer	**Authorized by: Manager Electrical plant**
Signed:	**Signed:**
Date: 2026-02-06	**Date: 2026-02-06**