Kenya Power

SPECIFICATIONS FOR MBARAKI TRANSFORMER REPAIR MATERIALS

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

Issued by: Head of Section, Mbaraki Transformer Workshop	Authorized by: Head of Department, E/Plant
Signed:	Signed:
Date: 2026-11-13	Date: 2026-11-13

SPECIFICATIONS AND GUARANTEED TECHNICAL PARTICULARS (Normative)

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

Tender No. ……

Bidder's name and Address……...

Item No.	TOOL ITEM	KPLC Technical Specifications Requirement	Bidder's offer
1	Scorch Tape (High Voltage insulating tape)	• **Material:** Ethylene Propylene Rubber (EPR)-based, linerless/lined, non-vulcanizing • **Voltage Rating:** Suitable for primary insulation and splicing up to **69 kV** • **Insulation Resistance : >1GΩ** • **Thickness & Properties:** 0.76 mm thick; continuous operating temperature of **90°C** with emergency overload up to **130°C**;	• State Manufacturer…….. • State Model…….. • State Technical parameters of the Scorch tape • State Material:…….. • State Voltage Rating:…….. • State Insulation Resistance…… • Thicknessand properties:……..

Item No.	TOOL ITEM	KPLC Technical Specifications Requirement	Bidder's offer
			• Attach and submit catalogue or brochure of the offered item
2	HSS hacksaw blades	High-Speed Steel (HSS) hacksaw blades Standard hand hacksaw blades measure **300 mm (12 inches)** in length and **12.5–13 mm (1/2 inch)** in width, with thicknesses around **0.65 mm** They are virtually unbreakable and shatterproof, making them ideal for handheld work in tight spaces or uneven positions **Bi-Metal HSS (Flexible).** These feature an HSS tooth strip (often M2 or 8% cobalt M42) laser-welded or electron-beam welded onto a flexible spring-steel backing. **Material steel M2+6150+8% cobalt** toothed bar made of high-speed steel enriched with 8% cobalt additive high blade hardness: 58-64 HRC	• State Manufacturer…….. • State Model…….. • State Length:…… • State Width……. • State Thickness…… • State Material:……. State Technical parameters of the offered model…… Attach and submit catalogue or brochure of the offered item
3	Switchgear paint (Ash grey)	• Should offer good adhesion • **Type:** The paint is formulated for Exterior application on metal surfaces subjected to Marine environment	• State Manufacturer…….. • State Model…….. State Technical parameters of the offered model……

Item No.	TOOL ITEM	KPLC Technical Specifications Requirement	Bidder's offer
		• **Application Method:** Brush, roller, or spray • **Substrate material** (e.g., bare mild steel, galvanized metal, or repainting over existing powder coat) • **Uses:** finish paint • **Colour Range:**Ash Grey • **Finish / Sheen:** Semi-Gloss / Satin (30–50%) • **Drying & Recoat Time.** Touch dry in 30–60 minutes; recoatable after 4–8 hours •	Attach and submit catalogue or brochure of the offered item
4	Lubricating Oil(WD40)	• Penetrant contains a proprietary blend of ingredients that work fast to free rusted bolts and other stuck parts. • The capillary action penetrates into tight crevices, threads, and seams to break the bonds that hold stuck parts together. • It helps prevent rust and corrosion from re-forming and leaves behind a lubricating layer. • The professional-grade formula is low odor, working effectively without harsh, lingering scents.	• State Manufacturer…….. • State Model…….. State Technical parameters of the offered model…… Attach and submit catalogue or brochure of the offered item

Item No.	TOOL ITEM	KPLC Technical Specifications Requirement	Bidder's offer
5	Electrotinned Copper clamps -2" Expansion	View sample at Isiolo road Workshop	• State Manufacturer…….. • State Model…….. State Technical parameters of the offered model…… Attach and submit catalogue or brochure of the offered item Submit drawing
6	Electrotinned Copper clamps -3" Fixed	View sample at Isiolo road Workshop	• State Manufacturer…….. • State Model…….. State Technical parameters of the offered model…… Attach and submit catalogue or brochure of the offered item Submit drawing
7	Electrotinned Copper clamps -3" Expansion	View sample at Isiolo road Workshop	• State Manufacturer…….. • State Model…….. State Technical parameters of the offered model…… Attach and submit catalogue or brochure of the offered item Submit drawing

Item No.	TOOL ITEM	KPLC Technical Specifications Requirement	Bidder's offer
8	Electrotinned Copper clamps -2" Fixed	View sample at Isiolo road Workshop	• State Manufacturer…….. • State Model…….. State Technical parameters of the offered model…… Attach and submit catalogue or brochure of the offered item Submit drawing
9.	Electrotinned Copper clamps -1" Fixed	View sample at Isiolo road Workshop	• State Manufacturer…….. • State Model…….. State Technical parameters of the offered model…… Attach and submit catalogue or brochure of the offered item Submit drawing
10	Paint Marine	• **Type:** The paint is formulated for Exterior application on surfaces subjected to Marine environment • **Application Method:** Brush, roller, or spray • **Substrate** Suitably primed or previously painted mild steel • **Uses:** finish paint • **Colour Range:**Dark Admiralty Grey, color No.	• State paint Manufacturer…… • State type …… • State application Method…….. • State substrate…….. • State uses:…….. • State Model…….. Attach and submit catalogue or brochure of the offered item

Item No.	TOOL ITEM	KPLC Technical Specifications Requirement	Bidder's offer
		632	
11	PAINT PRIMER (GREY)	• **Type:** A single pack, very thick and heavy primer that possesses excellent corrosion resistance due to galvanic protection. Based on modified synthetic resin and zinc metal anticorrosive pigment. As a corrosion resistant primer for metals. For protection of exposed steelwork in coastal regions • **Application Method:** Brush, roller, or spray • **Substrate** Suitable for mild steel, iron, galvanized metal, stainless steel, and aluminium alloys; compatible under enamel, epoxy, acrylic, or polyurethane topcoats • **Uses:** As a primer to increase the corrosion resistance and lifespan of any system or as a single coat protective coating • **Colour Range:** Grey • **Drying Times:** Touch dry: 1hr. Recoatable: 4 hr	• State paint Manufacturer…… • State type …… • State application Method…….. • State substrate…….. • State uses:…….. • State Model…….. State Technical parameters of the offered model…… Attach and submit catalogue or brochure of the offered item
12	FLUORESCENT TUBE FITTING 4FT	**Length:** 1200 mm (4 feet) **Base / Pin Type: G13** bi-pin base **Product Type:** Single Tube Light Fitting	• State Manufacturer…….. • State Product type…….. State length…….. State voltage……..

Item No.	TOOL ITEM	KPLC Technical Specifications Requirement	Bidder's offer
		Wattage: Typically 18W to 36W/40W for conventional fluorescent tubes **Voltage:** 220V – 240V AC (standard mains voltage) **Mounting Options:** Surface-mounted **Ballast Requirement:** Magnetic **Light Source:** Compatible with Tube Lights	State wattage…… State Attach and submit catalogue or brochure of the offered item
13	CHOKE 40W FOR FLOURESCENT LAMP	**Input Voltage:** AC 220V–240V **Frequency:** 50 Hz **Compatible Lamp Types:** 4-foot (approx. 120 cm) 36W / 40W T8 or T12 fluorescent tubes Ballast Type: **Magnetic/Polyester Choke:** Iron-core inductive coil; requires a separate glow starter to preheat the cathodes and strike the arc **Current & Power Factor:** Operates at low power loss with typical discharge circuit current and power factors.	• State Manufacturer…….. • State Model…….. State Technical parameters of the offered Item…… Attach and submit catalogue or brochure of the offered item
14	HERBICIDE	**Active Ingredient(s):** Acetochlor 340 g/l, Atrazine 200 g/l, Mesotrione 40 g/l **Application rate**: Mix 250 ml per 20 litres of water	• State manufacturer…….. • State Model…… • State active ingredient……. • State mode of Action……..

Item No.	TOOL ITEM	KPLC Technical Specifications Requirement	Bidder's offer
		Application timing: pre-emergence or early post-emergence **Mode of Action:** Systemic **Target (Pests/Disease/Weeds) :** Annual Broadleaf, Grass Weeds **Product Type:** Herbicide - Selective	• State Target…….. • State product type…… • Attach and submit catalogue or brochure of the offered item
24	Distilled Water	**Appearance & Odor:** Clear, colorless, and odorless liquid **pH Range:** Generally **5.0 to 7.5** **Purity:** ≥ 99.9% (H_2O) **Electrical Conductivity:** ≤ 0.5 to 10 µS/cm at 25 °C **Boiling / Freezing Point:** 100 °C	• State Manufacturer…….. State Technical parameters of the offered item…… • Attach and submit catalogue or brochure of the offered item

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Bidder's Name, Signature, Stamp and Date