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ANNEX A: **Guaranteed Technical Particulars** *(to be filled and signed by the Supplier and submitted together with copies of the manufacturer's catalogues, brochures, technical data, customer sales records & reference letters and quality certificates for tender evaluation)*

0.1 Circulation List

COPY NO.	COPY HOLDER
1	Research & Development Manager
2	Procurement Manager
Electronic copy (pdf) on Kenya Power Server (currently :Network-\\stima-fprnt-001\techstd&specs	

0.2 Amendment Record

Rev No.	Date (YYYY-MM-DD)	Description of Change	Prepared by (Name & Signature)	Approved by (Name & Signature)

FOREWORD

This specification has been prepared by the Research and Development Department in collaboration with Transmission Section both of The Kenya Power and Lighting Company Limited (Kenya Power) and it lays down requirements for round sling. It is intended for use by Kenya Power in purchasing the tool.

The supplier shall submit information which confirms satisfactory service experience with products which fall within the scope of this specification.

1. SCOPE

This specification is for heavy duty round sling(web sling)made of reinforced polyester for use on power linesoperating mechanical loads of upto five (5) tones in both high altitude and coastal corrosive environment .

2. REFERENCES

- ASME/ANSI B30.9 Synthetic endless Roundsling
- BS EN1492-2 Textile slings. Safety. Roundslings, made of man-made fibres, for general purpose use
- ISO 4878 - Textiles -- Flat woven webbing slings made of man-made fibre

3. TERMS AND DEFINITIONS

Terms and definitions given in the reference standards shall apply.

4. REQUIREMENTS

4.1 Design and Construction

4.1.1 The round slingshall be used for lifting, pulling and securing loads up to its rated safe working load and tension.

4.1.2 The roundsling shall be made of a polyester material with a very low stretch factor; which shall give it a combination of strength and lightness in addition to being elongation free.

4.1.3 The construction of the round sling shall be such that it has no minimum bending radius.

4.1.4 The finishing shall be smooth, non-slippery, oil resistant and abrasion resistant so as to be safe for both the cargo and operator.

4.1.5 The round sling shall be endless as shown in appendix B below, with length measured as shown.

4.1.6 The roundsling shall NOT be degraded by exposure to sunlight and ultra violet rays eliminating material aging hence extra-long life.

4.1.7 The round sling shall be colour coded to its safe working load according to the standard.

4.1.8 The round sling shall be of extremely low weight and should never soak in any fluid.

4.2Technical specification for 3 ton round sling

4.2.1 The following technical particulars shall be guaranteed by the supplier:

Item No.	Technical description	Kenya Power Technical Requirements	Manufacturer's catalogue, drawing, technical data or tests certificate Reference Page to support the offer.
1	Construction	Endless and seamless	
2	Vertical rated load	3 tons	
3	Layers	2 ply or more	
4	Elasticity	<1 %	
5	Nominal width	2-3 inch	
6	Nominal Tensile strength	1770N/mm2	
7	Length L (see drawing)	4 feet	
8	Other Use formations	Chocker, vertical and Basket (MIN SWL – 3TON)	
9	Operating Environment	Wet and oily	
10	Operation Safety	Product traceability	
11	Warranty on Equipment	At least 12 months	
12	Safety factor	>5:1	
13	Minimum Breaking Load (daN)	21000	
14	Applicable standards	BS EN 1492-2, Web sling & Tie down Association	
15	Type test certificate	Certificate from accredited international laboratory required	
16	Safety application instructions	Two copies in English language	
17	Factory Inspection and acceptance	Two Kenya Power Engineers	

4.3Technical specification for 5 ton round sling

4.3.1 The following technical particulars shall be guaranteed by the supplier:

Item No.	Technical description	Kenya Power Technical Requirements	Manufacturer's catalogue, drawing, technical data or tests certificate Reference Page to support the offer.
1	Construction	Endless and seamless	
2	Vertical rated load	5tons	
3	Layers	2 ply or more	
4	Elasticity	<1 %	
5	Nominal width	2-3 inch	
6	Nominal Tensile strength	1960N/mm2	
7	Length L (see drawing)	4 feet	
8	Other Use formations	Chocker, vertical and Basket (MIN SWL – 5TON)	
9	Operating Environment	Wet and oily	
10	Operation Safety	Product traceability	
11	Warranty on Equipment	At least 12 months	
12	Safety factor	>5:1	
13	Minimum Breaking Load (daN)	35000	
14	Applicable standards	BS EN 1492-2, Web sling & Tie down Association	
15	Type test certificate	Certificate from accredited international laboratory	
16	Safety application instructions	Two copies in English	
17	Factory Inspection and acceptance	Two Kenya Power Engineers	

5. TESTS AND INSPECTION

5.1 The web slingshall be inspected as per the requirements of this specification.

5.2 In the case of tender award, technical details for the webslingshall be submittedto Kenya Power for approval before delivery.

5.3The web slingshall be inspected during delivery before acceptance to Kenya Power stores.

6.0 MARKING AND INSTRUCTION

The following information shall be marked indelibly and legibly on eachweb sling

i) Manufacturer's Name or Trademark;
ii) Web sling Material and Reinforcing details
iii) Safe working load
iv) Serial number
v) Production batch and year of manufacture
vi) Letters "PROPERTY OF Kenya Power " on the thimble

ANNEX A: Guaranteed Technical Particulars *(to be filled and signed by the Supplier and submitted together with copies of manufacturer's catalogues, brochures, drawings, technical data, sales records and copies of certificates/test reports for tender evaluation)*

Tender No. .....

Clause number	**Bidder's offer** (indicate full details of the offered equipment for each requirement of the specification)
1. Scope	
1.1	
4. Requirements	
4.1	
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4.2	
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.	
4.3	
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.	
Test & Inspection	
5.1-5.3	
Marking & Instructions	
6	

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Supplier's Name, Signature, Stamp and Date

ANNEX B

SAMPLE DRAWING FOR THE WEB SLING

