

**SECTION ( VI )**

**TECHNICAL SPECIFICATIONS**  
**AND SCHEDULES**

## **TECHNICAL SPECIFICATIONS**

### **L.V- HRC KNIFE (NH TYPE) FUSE-LINKS (500 V.AC)**

HRC knife fuse-links (NH Type) must have a rated breaking capacity current of 80kA (symmetrical) at rated voltage to provide a short circuit protection for prospective fault currents up to (120) KA at a power factor as low as (0.2).

The HRC knife fuse-links must confirm to DIN 43620 dimensions and DIN EN 60059 for standard rating and to the latest IEC specifications (e.g.IEC 60269-2).

Since the knife fuse-links will be mounted in compact assemblies, thus it must have a low power loss that should not be more than those specified in IEC 60269-2,

The fuse-links must have visual indicator to give an indication in case of fuse operation.

The time current characteristic of the knife fuses links must ensure reliable discrimination with most of MV fuse-links and the MV expulsion fuse-links described in part (1) above, which is installed at the MV side of distribution transformers.

The HRC LV fuse shall have silver plated, copper blade contacts ceramic body should withstand mechanical shocks & dynamic stresses.

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### **1. DOCUMENT TO BE SUBMITTED WITH THE OFFER**

*The following items must be attached and submitted with the offer:*

- Catalogues, technical leaflets, drawings,.....etc.
- Reference lists for similar products.
- Type Test certificates:
  - (a) Temperature rise limits
  - (b) Power dissipation
  - (c) Tests for time / current characteristics
  - (d) Breaking capacity test

**Note:** Any offer received *without* technical details and samples; EDCO has the right to reject that offer during evaluation without any prior notice.

## **IDENTIFYING MARKINGS**

The identifying markings which shall be indelibly marked on fuse-links and fuse-bases are given bellow:

- Manufacturer's name or trade mark;
- Rated voltage;
- Rated current;
- Rated maximum braking current;
- Maximum application temperature;
- Class (if applicable) = (back-up, general purpose, full-range);
- Type of striker (if applicable);
- Location of the striker (if applicable);
- Class of operation (for HRC fuses) ;

## **2. DIMENSIONS**

The dimensions shall be as attached drawings.

## **3. TENDER DRAWINGS**

The following are the Tender Drawings:

<b><u>Drawing No.</u></b>	<b><u>Title</u></b>
1	LV Knife fuse link – NH type

## **SCHEDULES AND GUARANTEES**

<b><u>SCHEDULE NO.</u></b>	<b><u>DESCRIPTION</u></b>
<b>A</b>	<b>Schedule of Requirements</b>
<b>B</b>	<b>Price Schedule</b>
<b>C</b>	<b>Guaranteed Delivery Periods Schedule</b>
<b>D</b>	<b>Manufacturer and Places of Manufacture, Testing and inspection Schedule</b>
<b>E</b>	<b>Technical Particulars and Guarantees Schedule</b>
<b>F</b>	<b>Deviation from specifications Schedule</b>

**SCHEDULE (A)**

**SCHEDULE OF REQUIREMENTS**

Item No.	Description	Stock Code	Unit Item	Quantity Required	
1-	LV HRC, Knife NH type fuse links to DIN 43620/1, <b>SIZE ( 01 )</b> with the following ratings: c) 160 A d) 200 A e) 250 A				
			NO.	900	
			NO.	700	
	NO.		1500		
	LV HRC, Knife NH type fuse links to DIN 43620/1, <b>SIZE ( 02 )</b> with the following ratings: a) 315A b) 400 A		NO.	1000	
			NO.	1000	

**SCHEDULE (B)**

**PRICE SCHEDULE**

ITEM NO.	DESCRIPTION	QTY AND UNIT (NO.)	UNIT PRICE & CURRENCY		TOTAL PRICE C&F AQABA-JORDAN
			FOB	C & F AQABA	
1-	LV HRC, Knife NH type fuse links to DIN 43620/1, <b>SIZE ( 01 )</b> with the following ratings: c) 160 A d) 200 A e) 250 A	900 700 1500			
	LV HRC, Knife NH type fuse links to DIN 43620/1, <b>SIZE (02 )</b> with the following ratings: a) 315A b) 400 A	1000 1000			
<b><u>TOTAL PRICE C&amp;F AQABA</u></b>					

**IMPORTANT NOTE: (EDCO) HAS THE RIGHT TO ACCEPT PARTIAL OFFERS AND TO AWARD PART OF ITEMS OR QUANTITIES WITHOUT ANY LIMIT OR NOTICE**

## **SCHEDULE (C)**

### **GUARANTEED DELIVERY PERIODS**

This Schedule shall be completed by the Tenderer and the periods entered shall be binding on the Contractor

DESCRIPTION	DELIVERY PERIOD FOB PORT OF LOADING-SPECIFY PORT	DELIVERY PERIOD TO AQABA PORT- JORDAN
LV HRC, Knife NH type fuse links  - size ( 1) - size (2)		

**Note:**

*Delivery time shall not exceed (12) weeks, C&F Aqaba port from the date of receipt of EDCO purchasing order.*

## **SCHEDULE (D)**

**MANUFACTURERS, PLACES OF MANUFACTURE  
AND TESTING**

The Tenderer shall state the town and country where manufacture, testing and inspection take place.

DESCRIPTION	MANUFACTURER	PLACE OF MANUFACTURE	PLACE OF TESTING AND INSPECTION
LV HRC, Knife NH type fuse links - size ( 1) - size (2)			



**SCHEDULE (E)**  
**TECHNICAL PARTICULARS AND GUARANTEES**

These Schedules are to be completed by the Contractor at the time of tendering and particulars and guarantees entered will be binding.

NO .	REQUIREMENTS	ITEM (1)	ITEM (2)	ITEM (3)	ITEM (4)	ITEM (5)
1.	System operating voltage. (V )					
2.	Max design voltage. (V )					
3.	Continuous current capacity.( A)					
4.	Rated Max. breaking capacity (Symmetrical). (kA )					
5.	Melting current & time (A/sec)					
6.	Min. breaking current (A)					
7.	Type / Size/ Class					
8.	Fuseble element material.					
9.	Losses (Watts )					
10.	Pre-arcing ( I <sup>2</sup> t)					
11.	Operating (I <sup>2</sup> t)					
12.	Insulating body					
13.	Time current characteristics					
14.	Copper contacts tin/silver					
15.	platted					
16.	Outline Dimensions (mm)					
17.	Weight (kg)					
	Manufacturer / country of origin					

**Note: catalogues to show dimension, main particulars and detailed time current curves for fuses should be included in the offer.**

**SCHEDULE (F)**

**DEVIATIONS FROM SPECIFICATION IF ANY**  
**TO BE COMPLETED BY THE TENDERER**

ITEM NO.	BREIF DESCRIPTION	DEVIATIONS