

THE DESIGN, MANUFACTURE, TESTING AND SUPPLY OF OPGW HARDWARE, ADSS HARDWARE AND MISCELLANEOUS TO TRANSMISSION ON AN AS AND WHEN BASIS FOR A PERIOD OF 5 (FIVE)

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This contract is THE DESIGN, MANUFACTURE, TESTING AND SUPPLY OF OPGW HARDWARE, ADSS HARDWARE AND MISCELLANEOUS.

1. OPGW HARDWARE FOR - 10, 12, 16, 18 and 21kA, greased and ungreased, 48 core.

kA rating	Diameter-mm (smaller the better) Can even be less than our min value	RTS-kN	DC resistance-(Ω /km)	Weight-kg/km (smaller the better, can even be less than our min value)
10	13.3<14	>60	0.399<0.494	494<584
12	14.9<15.9	>60	0.27<0.4	496<697
16	16.6<17.7	>60	0.2<0.285	587<745
18	17.7<18.4	>60	0.18<0.252	627<841
21	19.3<20	>60	0.159<0.211	1002<731

2. ADSS- 48 core

3. MISCELLANEOUS- bird flight diverters, aerial warning spheres etc, as per pricing list.

Overview of Specifications

Various specs mentioned in the evaluation criteria doc, section 2.2, but main ones are:

1. Eskom hardware spec- 240-60777474
2. NRS 061-1- OPGW product spec
3. NRS 061-2- conceptual drawings for assemblies
4. NRS 078-1-ADSS requirements
5. Eskom spec- 240-110403330.

Tender Requirements

- Tenderers are urged to tender for all products required by the new contract. Product range is divided into kA rating of OPGW, so you must supply complete assembly range for a certain size of OPGW to qualify.
- Individual components for OPGW will not be considered, must be complete assemblies, unless stipulated in the technical requirements.
- As per the tender requirements, up to 100% of all products supplied by the tenderer must be produced locally unless exemption is granted by DTIC.
- Covering letter must be provided by tenderer explaining their capabilities and their intentions (range of products, kA ratings etc for this tender).
- Submissions must be clear and easily to look through. Proper indexing of files, as per tender returnables.
- Tenderer needs to adhere to all requirements in the latest revision of the Eskom and International specifications for all products being offered.
- No information for similar products will be accepted, only information for exact products tendered for will be considered.
- It must be noted that all tenderers must be technically compliant to deal with any technical issues that may arise during the contract period. Direct contact with OEM technical team must be available at short notice.

Tender Requirements 1

16KA GROUPING

Insulated Strain Assembly complete with insulator

Non-Insulated Strain Assembly complete with earthbonds

Non-Insulated Suspension Assembly for self-supporting tower- landing plate orientation 90 degrees to conductor, complete with earthbonds

Non-Insulated Suspension Assembly for self-supporting tower-landing plate orientation 0 degrees to conductor, complete with earthbonds.

Insulated Suspension Assembly for self-supporting tower-landing plate orientation 90 degrees to conductor complete with insulator.

Insulated Suspension Assembly for self-supporting tower-landing plate orientation 0 degrees to conductor, complete with insulator.

Insulated Strain Assembly for Joint-complete with earths and insulator

Non-Insulated Strain Assembly for Joint-complete with earths.

Assembly for crossrope towers.-Insulated (With post insulator)

Assembly for crossrope towers - Non-Insulated (Same as non-insulated suspension but with long bolts and spacers)

Assembly for crossrope towers - Non-Insulated post type.

Non-Insulated assembly for conversion of suspension tower to non-insulated joint position.

Insulated Assembly for conversion of suspension tower to insulated joint position.

Vibration dampers - Stockbridge preformed type.

Down lead clamps non-insulated

Down lead clamps insulated


1m Earthbonds with two lugs per m

Earthbonds with two transfer saddles per m

Earthbonds with one lug and one transfer saddle per m

For every type of Cable (KA rating, we request all assemblies as listed in the commercial documents. We will not accept part assemblies.

- All submissions will be evaluated as per the following criteria:

 Eskom National Transmission Company South Africa TM	Standard	NTCSA
Title: TECHNICAL EVALUATION CRITERIA FOR FIBRE OPTIC HARDWARE	Unique Identifier:	240-170000615
	Alternative Reference Number:	n/a
	Area of Applicability:	Engineering
	Documentation Type:	Standard
	Revision:	3

3. Technical Tender Evaluation Procedure

The technical evaluation procedure is specific to each item type. The items mainly include Fibre Optic Cable associated hardware assemblies. For each of these cable types there are unique hardware arrangements which are required to attach the cables to supporting structures such as transmission towers.

The complete evaluation of any potential supplier would involve a desktop evaluation. A factory assessment will be done after contract award or at first order placement.

Tender Returnables 2

Table 1: Evaluation explained

Item number	Applicable documentation	RESPONSIBILITY	Comments
1	Annex A – HARDWARE SCORE SHEET FOR OPGW	NTCSA	NTCSA uses submitted Annex N.1 and Annex C SUBMITTED INFORMATION TO COMPLETE-Complete section 1 only at this stage
2	Annex B – HARDWARE SCORE SHEET FOR ADSS HARDWARE	NTCSA	Use information submitted for Annex N.2 TO COMPLETE-Complete section 1 only at this stage
3	Annex C – FACTORY ASSESSMENT SHEETS-FIBRE OPTIC HARDWARE	NTCSA	Use section 3 of submitted file Annex C information.
4	Annex N.1 OPGW Hardware Requirements	NTCSA	Indexed file section 1, contains this information - Eskom to score supplier based on information submitted- final score to be populated in Annex A, section 2
5	Annex N.2 ADSS Hardware Requirements	NTCSA	indexed file section 2, contains this information- Eskom to score supplier based on information submitted- final score to be populated in Annex B, section 2
6	Final technical evaluation report compilation	NTCSA	
7	Annex N.1 OPGW Hardware Requirements	Supplier	Indexed file section 1, contains this information
8	Annex N.2 ADSS Hardware Requirements	Supplier	Indexed file section 2, contains this information
9	Annex C – FACTORY ASSESSMENT SHEETS-FIBRE OPTIC HARDWARE	Supplier	Indexed file section 3, contains this information

Annex N.1- all hardware requirements are mainly based on 16KA OPGW to get a full understanding of the tenderer's technical capabilities

Testing Requirements

- All products offered must be fully tested in accordance to the relevant product specifications. No time will be allowed for tenders to test products after tender closure. The onus is on the tenderer to only use products that are fully compliant in all respects.
- Test reports must be available for review when requested.

Process to be followed by Tenderer

1. File to be submitted with all relevant information. Neatly separated as per tender requirements.
2. Letter confirming the status of your design, manufacturing and testing as per current Eskom contract if you are in one.
3. All spreadsheets must be filled in electronically and also provided in hard copy in the relevant technical files. Electronic versions will be used to verify hardcopy information and used by evaluation team.

7	Annex N.1 OPGW Hardware Requirements	Supplier	Indexed file section 1, contains this information
8	Annex N.2 ADSS Hardware Requirements	Supplier	Indexed file section 2, contains this information
9	Annex C – FACTORY ASSESSMENT SHEETS-FIBRE OPTIC HARDWARE	Supplier	Indexed file section 3, contains this information



Conclusion