



**PANEL FOR SUPPLY, DELIVERY AND OFF-LOADING OF LV/MV
ELECTRICAL CABLES FOR A THREE-YEAR PERIOD**

NOTICE NO: 080 of 2022

BID NO: **8/2/RNM0354**

NAME OF THE BIDDER

BID AMOUNT R _____

TREASURY
P.O. BOX 5
PORT SHEPSTONE
4240

APRIL 2022

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RAY NKONYENI MUNICIPALITY
NOTICE NO:080 of 2022
BID NO: 8/2/RNM0354

**PANEL FOR SUPPLY, DELIVERY AND OFF-LOADING OF LV/MV ELECTRICAL CABLES
TO RAY NKONYENI MUNICIPALITY FOR A THREE-YEAR PERIOD**

Bids are hereby invited for the Panel for supply, delivery and off-loading of LV/MV Electrical Cables for a three-year period.

Bid document can be downloaded for free from e-tenders portal <https://etenders.treasury.gov.za>, and Ray Nkonyeni Municipality website www.rnm.gov.za, from 22 April 2022

Reference: "Tender No 8/2/RNM0354: Panel for supply, delivery and off-loading of LV/MV Electrical Cables to Ray Nkonyeni Municipality for a three-year period"

Bidders to submit two (02) copies of the bid document together with the original bid document, bidders that fail to submit copies will be disqualified. Fully completed Bid documents must be submitted in a sealed envelope, clearly marked "Supply and Delivery of LV/MV Electrical Cables to Ray Nkonyeni Municipality for a three-year period" and must be deposited in the Bid box at the Municipal offices at 10 Connor Street, Port Shepstone, no later than 12:00 on 6 May 2022 after which all Bids will be opened in public.

Ray Nkonyeni Municipality subscribes to the Broad-Based Black Economic Empowerment Act (BBBEEA), Act 53 of 2003, Preferential Procurement Policy Framework Act, 2000 (Act No 5 of 2000), and Preferential Procurement Regulations, 2017. The 80/20 preference point system shall be applicable during the evaluation on and adjudication of this Bid proposal.

LOCAL CONTENT

Bidder will be disqualified if the Declaration Certificate and Annex C (Local Content Declaration Summary Schedule) are not submitted as part of the Bid.

For the stipulated minimum threshold for local production and content, refer to MBD 6.2.

Tenders will be evaluated on functionality, price and BBBEE. All tender offers that fail to score the minimum of 60% of points for Experience will be rejected. The following criteria will be used for functionality evaluation: -

Criteria	Possible Full Points
Company previous experience	10
Total Possible Points	10

A compulsory clarification virtual meeting will be held on 29 April @ 10:00. Please confirm your attendance with Ms Nandi Sihlali via email nandi.sihlali@rnm.gov.za and cc Vaneshree Moodley vaneshree.moodley@rnm.gov.za 3 days before the meeting.

All queries to be directed to Ms Nandi Sihlali on 039-688-2088 or via email nandi.sihlali@rnm.gov.za .

NOTE TO BIDDERS ON CONDITIONS OF THE BID:

- The Supply Chain Management Policy of Ray Nkonyeni Municipality will apply. The Council reserves the right not to accept the lowest bid or any bid and reserves the right to accept the whole or part of the bid, or to reject all bids and cancel the notice to bid;
- Bids that are submitted late, incomplete, unsigned or by facsimile, electronically or not completed in black ink will be rejected and not accepted for further evaluation;
- Prices should be subjected to Steel and Engineering Industries Federal of South Africa (SEIFSA) Indices;
- MBD 3.2 must be completed;
- Only service providers registered in the Central Supplier Database (CSD) will be considered, attach proof of registration failure to attach will result in your bid not evaluated further.
- Members or Directors of Companies or Service Providers who are state employees are not allowed to bid or quote;
- Unsuccessful bidders will be informed of the Bid outcome through the Municipal website. Aggrieved unsuccessful bidders will be allowed to lodge, within fourteen (14) days of the decision or action, a written objection or complaint to the Office of the Municipal Manager through email, mm@rnm.gov.za or fax number 0865297195. Complaints or objections received after fourteen (14) days of the date of the notice **will not** be entertained; and
- The original bid document plus TWO **extra** (02) copy must be submitted, failure to submit two copies will result in disqualification.
- Bids submitted are to be valid for a period of **120 days**.

S M Mbili
MUNICIPAL MANAGER

Ray Nkonyeni Municipality
10 Connor Street
P O Box 5
PORT SHEPSTONE
4240

**ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS
(NOT TO BE RE-TYPED)**

NB!!!! Please attach copies of the following documents.

- **Company registration documents.**
- **Certified copy of ID documents of directors/owners/members/
shareholders.**
- **Copy of a valid TAX Compliance Certificate
Or Tax Compliance Status PIN Sheet.**
- **CSD Registration**
- **Certified copy of BBEE Certificate /SWORN AFFIDAVIT**
- **Declarations (MBD 4, 8 & 9).**
- **Joint Venture agreements (where applicable)**

<h2>STANDARD FORMS</h2>

THIS BID IS SUBJECT TO THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT. THIS BID WILL BE EVALUATED AND ADJUDICATED ACCORDING TO THE FOLLOWING CRITERIA:

1. Relevant specifications
2. Value for money
3. Capability to execute the contract
4. PPPFA & associated regulations

NB: NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE

RAY NKONYENI MUNICIPALITY STANDARD FORM FOR BIDS

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE RAY NKONYENI MUNICIPALITY					
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BID NUMBER:	8/2/RNM0354	CLOSING DATE:	6 May 2022	CLOSING TIME:	12:00
DESCRIPTION	PANEL FOR SUPPLY, DELIVERY AND OFF-LOADING OF LV/MV ELECTRICAL CABLES TO RAY NKONYENI MUNICIPALITY FOR A THREE-YEAR PERIOD				
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (MBD7).					

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX
SITUATED AT (STREET ADDRESS)

RAY NKONYENI MUNICIPALITY					
PO BOX 5					
PORT SHEPSTONE (10 Connor Street)					
4240					
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
TAX COMPLIANCE STATUS	TCS PIN:		OR	CSD No:	
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	<input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	<input type="checkbox"/> Yes <input type="checkbox"/> No	
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3]	
TOTAL NUMBER OF ITEMS OFFERED			TOTAL BID PRICE	R	
SIGNATURE OF BIDDER		DATE		
CAPACITY UNDER WHICH THIS BID IS SIGNED					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:			TECHNICAL INFORMATION MAY BE DIRECTED TO:		
DEPARTMENT	TREASURY SCM		CONTACT PERSON	MS NANDI SIHLALI	
CONTACT PERSON	BONGANI MFENQA		TELEPHONE NUMBER	039 688 2088	
TELEPHONE NUMBER	039 312 8304		FACSIMILE NUMBER		
FACSIMILE NUMBER	Bongani.mfenqa@rnm.gov.za		E-MAIL ADDRESS	Nandi.sihlali@rnm.gov.za	

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR ONLINE**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. THE BID OFFER MUST BE SIGNED BY A PERSON AUTHORIZED TO SIGN ON BEHALF OF THE BIDDER;
- 1.5. A BIDDER WHO SUBMITTED A BID AS A JOINT VENTURE HAS INCLUDED AN ACCEPTABLE JOINT VENTURE AGREEMENT WITH HIS/HER BID;
- 1.6. ONLY A CONSOLIDATED B-BBEE CERTIFICATE, ISSUED BY A SANAS APPROVED VERIFICATION AGENCY, WILL BE ACCEPTABLE FOR THE CLAIMING OF PREFERENCE POINTS WHERE BIDDERS SUBMITTED THEIR BID AS A JOINT VENTURE / CONSORTIUM;
- 1.7. A BIDDER WHO IS A JOINT VENTURE HAS INCLUDED MBD 4, 8 & 9 FOR EACH ENTITY IN THE JOINT VENTURE / CONSORTIUM WITH HIS/HER BID
- 1.8. THE BIDDER OR A COMPETENT AUTHORISED REPRESENTATIVE OF THE CONTRACTOR WHO SUBMITTED THE BID HAS ATTENDED THE COMPULSORY CLARIFICATION MEETING OR SITE INSPECTION;
- 1.9. ONLY LOCALLY MANUFACTURED ELECTRICAL CABLES AND ASSOCIATED EQUIPMENT WITH A STIPULATED MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT WILL BE CONSIDERED.
- 1.10. IF THE QUANTITY; INPUT MATERIALS; AND/OR COMPONENTS OF ELECTRICAL CABLES AND ASSOCIATED EQUIPMENT REQUIRED CANNOT BE WHOLLY SOURCED FROM SOUTH AFRICAN (SA) BASED MANUFACTURERS TO ACHIEVE THE DESIGNATED LOCAL CONTENT THRESHOLD AT ANY PARTICULAR TIME, BIDDERS SHOULD REQUEST AND OBTAIN WRITTEN EXEMPTION FROM THE DTI. SUCH EXEMPTION APPLICATIONS SHOULD BE SUBMITTED AND APPROVALS SHOULD BE OBTAINED PRIOR TO THE CLOSURE OF THE BID(S) CONCERNED. THE DTI, IN CONSULTATION WITH RAY NKONYENI MUNICIPALITY AND THE LOCAL INDUSTRY, WILL CONSIDER THE EXEMPTION APPLICATIONS ON A CASE-BY-CASE BASIS AND WILL CONSIDER THE FOLLOWING:
 - Required volumes in the particular bid;
 - Available collective SA industry manufacturing capacity at that time;
 - Delivery times;
 - Availability of input materials and components;
 - Technical considerations including operating conditions and technical compliance protocol;
 - Quality and reliability;
 - Materials of construction;
 - Security of supply and emergencies;
 - Localization plans aimed at establishing and/or increasing local manufacturing capacity through ramping-up of capital investments in the initial phases;
 - Replacements of components/conversion processes on the existing fleet (i.e. electrical cables procured prior to the implementation of this instruction note) in order to honour the warranties and guarantees.
- 1.11. FOR FURTHER INFORMATION, BIDDERS MAY CONTACT THE METALS FABRICATION, CAPITAL AND RAIL TRANSPORT UNIT WITHIN THE DTI AT TELEPHONE 012 394 1356 OR EMAIL [THANDI PHELE AT TPhele@thedti.gov.za](mailto:TPhele@thedti.gov.za)
- 1.12. THE EXCHANGE RATE TO BE USED FOR THE CALCULATION OF LOCAL PRODUCTION AND CONTENT MUST BE THE EXCHANGE RATE PUBLISHED BY THE SOUTH AFRICAN RESERVE BANK (SARB) ON THE DATE OF THE

ADVERTISEMENT OF THE BID.

- 1.13. ONLY THE SOUTH AFRICAN BUREAU OF STANDARDS (SABS) APPROVED TECHNICAL SPECIFICATION NUMBER SATS 1286:2011 MUST BE USED TO CALCULATE LOCAL CONTENT.
- 1.14. THE LOCAL CONTENT (LC) EXPRESSED AS A PERCENTAGE OF THE BID PRICE MUST BE CALCULATED IN ACCORDANCE WITH THE FOLLOWING FORMULA WHICH MUST BE DISCLOSED IN THE BID DOCUMENTATION:

$$LC = \left(1 - \frac{x}{y}\right) * 100$$

Where,

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

- Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by the SARB on the date of advertisement of the bid.

- 1.15. THE DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT (SBD/MBD 6.2) TOGETHER WITH THE ANNEX C (LOCAL CONTENT DECLARATION: SUMMARY SCHEDULE) MUST BE COMPLETED, DULY SIGNED AND SUBMITTED BY THE BIDDER AT THE CLOSING DATE AND TIME OF THE BID

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA.
- 2.4 FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B:3.
- 2.5 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.6 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.7 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.

3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

- 3.1. IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? YES NO
- 3.2. DOES THE ENTITY HAVE A BRANCH IN THE RSA? YES NO
- 3.3. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? YES NO
- 3.4. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? YES NO
- 3.5. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? YES NO

IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.

**NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.
NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.**

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

DATE:

EVALUATION OF TENDER OFFERS

The procedure for evaluation of responsive Bid Offers will be **METHOD 4 if applicable to your bid: (Financial Offer, preference, and quality (functionality))** with 80/20 Preference Points System. Score quality, rejecting all Bid Offers that fail to score the minimum number of points for quality stated in the Bid Data. The total score awarded will be the addition of the two scores for price and preference.

The following formula will be used in Calculation of Percentage for Functionality

$$PS = \frac{So \times Ap}{Ms}$$

Where:

- Ps = percentage scored for functionality by Bid/proposal under consideration
- So = total score of bid/proposal under consideration
- Ms = Maximum possible score
- Ap = percentage allocated for functionality

- I. A maximum of **10 points** will be awarded to a Company who has 5 years or more experience of manufacture and supply of LV/MV electrical cables
- II. Point system for functionality will be as per table below:-

ASPECT	CRITERIA	POSSIBLE POINTS	VERIFICATION METHOD
Company Previous Experience	Company with relevant experience with manufacture, supply, and delivery of electrical cables in past 5 years,	10	Attach 5 or more appointment letters / delivery notes
	Company with relevant experience with manufacture, supply, and delivery of electrical cables in past 4 years	8	Attach 3 to 4 appointment letters / delivery notes
	Company with relevant experience with manufacture, supply, and delivery of electrical cables in past 2 to 3 years	4	Attach 2 appointment letters / delivery notes
	No previous relevant experience with supply of same or similar experience	0	No attached appointment letters / delivery notes
	TOTAL POSSIBLE POINTS	10	

b) Financial Offer

The financial offer will be scored using the following formula:

$$Nf = W1 \times [1 - (P - Pm) / Pm]$$

Where:

- W1 = **80** for financial values up to R 50, 000, 000.00 (inclusive of VAT) of all responsive tenders received:

P_m = the value of the comparative offer of the most favourable tender;

P = the value of the comparative offer under consideration;

Ray Nkonyeni Municipality subscribes to the preferential Procurement Policy Framework Act 2000 (Act No 5 of 2000) and its associated Preferential Procurement Regulations.

In the application of the 90/10 preference point system, if all bids received are below R 50, 000, 000.00, the bid must be cancelled. If one or more of the acceptable bids received are above R 50, 000, 000.00 threshold, all bids received must be evaluated on the 90/10 preference point system.

c) Preferences

Up to **20** points (for financial values up to R 50, 000, 000.00), will be awarded to bidders who complete the preference schedule and who are found to be eligible for the preference claimed.

Scoring of points for B-BBEE status level Contributor

Points must be awarded to a bidder for attaining the B-BBEE status level contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (80/20 system)
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

A bid will not be disqualified from the bidding process if the bidder does not submit a certificate substantiating the B-BBEE status level of contribution or is a non-compliant contributor. Such a bidder will score zero (0) out of a maximum of 20 points respectively for B-BBEE.

GENERAL CONDITIONS OF CONTRACT TABLE OF CLAUSES

1. Definitions
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General Conditions of Contract

1. **Definitions**
 - 1.1 The following terms shall be interpreted as indicated:
 - 1.2 “Closing time” means the date and hour specified in the bidding documents for the receipt of bids.
 - 1.3 “Contract” means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - 1.4 “Contract price” means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
 - 1.5 “Corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
 - 1.6 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
 - 1.7 “Country of origin” means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
 - 1.8. “Database application form” means the application form required by the Ray Nkonyeni Municipality to be filled in by the successful Bidder, following the award of the contract, for inclusion on the RNM database before payment is made.
 - 1.9 “Day” means calendar day.
 - 1.10 “Delivery” means delivery in compliance of the conditions of the contract or order.
 - 1.11 “Delivery ex stock” means immediate delivery directly from stock actually on hand.
 - 1.12 “Delivery into consignees store or to his site” means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the goods are so delivered and a valid receipt is obtained.
 - 1.13 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.
 - 1.14 "Force majeure" means an event beyond the control of the

supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

- 1.15 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.16 "GCC" means the General Conditions of Contract.
- 1.17 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.18 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the goods covered by the bid will be manufactured.
- 1.19 "Local content" means that portion of the bidding price, which is not included in the imported content provided that local manufacture does take place.
- 1.20 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.21 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.22 "Project site," where applicable, means the place indicated in bidding documents.
- 1.23 "Purchaser" means the organization purchasing the goods.
- 1.24 "Republic" means the Republic of South Africa.
- 1.25 "SCC" means the Special Conditions of Contract.
- 1.26 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the supplier covered under the contract.

- 1.27 “Supplier” means the successful bidder who is awarded the contract to maintain and administer the required and specified service(s) to the State.
- 1.28 “Tort” means in breach of contract.
- 1.29 “Turnkey” means a procurement process where one service provider assumes total responsibility for all aspects of the project and delivers the full end product / service required by the contract.
- 1.30 “Written” or “in writing” means hand-written in ink or any form of electronic or mechanical writing.
- 2. Application**
- 2.1 These general conditions are applicable to all bids, Contracts and orders including bids for functional and professional services (excluding professional services related to the building and construction industry), sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.
- 2.2 Where applicable, special conditions of contract are also laid down to cover specific goods, services or works.
- 2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.
- 3. General**
- 3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non refundable fee for documents may be charged.
- 3.2 Invitations to bid are usually published in locally distributed news media and on the municipality/municipal entity website.
- 4. Standards**
- 4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.
- 5. Use of contract documents and information inspection**
- 5.1 The supplier shall not, without the purchaser’s prior written consent, disclose the contract, or any provision thereof, or any specifications, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The supplier shall not, without the purchaser’s prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.
- 5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all

copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.

5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

6. Patent rights 6.1 The supplier shall indemnify the purchaser against all third Party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.

6.2 When a supplier developed documentation / projects for the municipality / municipal entity, the intellectual, copy and patent rights or ownership of such documents or projects will vest in the municipality / municipal entity.

7. Performance security 7.1 Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.

7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.

7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:

- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
- (b) a cashier's or certified cheque.

7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified.

8. Inspections, tests and analyses 8.1 All pre-bidding testing will be for the account of the bidder.

8.2 If it is a bid condition that goods to be produced or services to be rendered should at any stage be subject to inspections, tests and analyses, the bidder or contractor's premises shall be open, at all reasonable hours, for inspection by a representative of the purchaser or organization acting on behalf of the purchaser.

8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the

purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.

- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the goods to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the goods or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such goods or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Goods and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract goods may on or after delivery be inspected, tested or analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected goods shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forth with substitute them with goods, which do comply with the requirements of the contract. Failing such removal, the rejected goods shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute goods forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected goods, purchase such goods as may be necessary at the expense of the supplier.
- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 22 of GCC.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

- 10.1 Delivery of the goods and arrangements for shipping and clearance obligations, shall be made by the supplier in accordance with the terms specified in the contract.

11. Insurance

- 11.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified.

- 12. Transportation** 12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified.
- 13. Incidental services** 13.1 The supplier may be required to provide any or all of the following services, including additional services, if any:
- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
 - (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
 - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
 - (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
 - (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.
- 13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.
- 14. Spare parts** 14.1 As specified, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:
- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
 - (b) in the event of termination of production of the spare parts:
 - (i) advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.
- 15. Warranty** 15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act

or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

- 15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise.
- 15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the supplier shall, within the period specified and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.
- 15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to another right which the purchaser may have against the supplier under the contract.

16. Payment

- 16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified.
- 16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfillment of other obligations stipulated in the contract.
- 16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.
- 16.4 Payment will be made in Rand unless otherwise stipulated.
- 16.5. Payment will only be made if the supplier has filled in and submitted the necessary database application form to the satisfaction of the Chief Financial Officer.

17. Prices

- 17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized or in the purchaser's request for bid validity extension, as the case may be.

18. Variation orders

- 18.1 In cases where the estimated value of the envisaged changes in purchase does not vary more than 15% of the total value of the original contract, the contractor may be instructed to deliver the goods or render the services as such. In cases of measurable quantities, the contractor may be approached to reduce the unit price, and such offers may be accepted provided that there is no escalation in price.

- 19. Assignment** 19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.
- 20. Subcontracts** 20.1 The supplier shall notify the purchaser in writing of all sub-contracts awarded under this contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.
- 21. Delays in the Supplier's performance** 21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.
- 21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.
- 21.3 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the goods are required, or the supplier's services are not readily available.
- 21.4 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of penalties.
- 21.5 Upon any delay beyond the delivery period in the case of a goods contract, the purchaser shall, without cancelling the contract, be entitled to purchase goods of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.
- 22. Penalties** 22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The

purchaser may also consider termination of the contract pursuant to GCC Clause 23.

- 23. Termination for default**
- 23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:
- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
 - (b) if the supplier fails to perform any other obligation(s) under the contract; or
 - (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner, as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.
- 23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.
- 23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the supplier as having no objection and proceed with the restriction.
- 23.5 Any restriction imposed on any person by the purchaser will, at the discretion of the purchaser, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised, or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the purchaser actively associated.
- 23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:
- (a) the name and address of the supplier and / or person restricted by the purchaser;
 - (b) the date of commencement of the restriction;

- (c) the period of restriction; and
- (d) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Bid Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

24. Anti-dumping and countervailing duties and rights

24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the supplier to the purchaser or the purchaser may deduct such amounts from moneys (if any) which may otherwise be due to the supplier in regard to goods or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him.

25. Force majeure

25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.

25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for insolvency

26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not

prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the purchaser.

- 27. Settlement of disputes**
- 27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.
- 27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.
- 27.4 Notwithstanding any reference to mediation and/or court proceedings herein,
- (a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
 - (b) the purchaser shall pay the supplier any monies due the supplier for goods delivered and / or services rendered according to the prescripts of the contract.
- 28. Limitation of liability**
- 28.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement pursuant to Clause 6;
- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and
 - (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.
- 29. Governing language**
- 29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.
- 30. Applicable law**
- 30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified.
- 31. Notices**
- 31.1 Every written acceptance of a bid shall be posted to the Supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice.

- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.
- 32. Taxes and duties**
- 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid SARS must have certified that the tax matters of the preferred bidder are in order.
- 32.4 No contract shall be concluded with any bidder whose municipal rates and taxes and municipal services charges are in arrears.
- 33. Transfer of contracts**
- 33.1 The contractor shall not abandon, transfer, cede assign or sublet a contract or part thereof without the written permission of the purchaser.
- 34. Amendment of contracts**
- 34.1 No agreement to amend or vary a contract or order or the conditions, stipulations or provisions thereof shall be valid and of any force unless such agreement to amend or vary is entered into in writing and signed by the contracting parties. Any waiver of the requirement that the agreement to amend or vary shall be in writing, shall also be in writing.
- 35. Prohibition of restrictive as practices or**
- 35.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998 amended, an agreement between, or concerted practice by , firms a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder(s) is/ are or a contractor(s) was / were involved in collusive bidding.
- 35.2 If a bidder(s) or contractor(s) based on reasonable grounds or evidence obtained by the purchaser has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in section 59 of the Competition Act No 89 Of 1998.
- 35.3 If a bidder(s) or contractor(s) has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10)years and / or claim damages from the bidder(s) or contractor(s)concerned.

No contract will be awarded to a person who has failed to submit a copy of Tax Compliance Certificate with a PIN from the South African Revenue Service (“SARS”) certifying that the taxes of that person to be in order or that suitable arrangements have been made with SARS.

I certify that I have the appropriate authority to furnish the above-mentioned information and that the above information is correct at the time of completion.

Name:	Signature:
Designation:	Date:

TECHNICAL SPECIFICATIONS

MINIMUM TENDER REQUIREMENTS:

ALL TECHNICAL SCHEDULES MUST BE FILLED IN OR COMPLETED IN FULL AND ALL TYPE APPROVAL CERTIFICATES AND TECHNICAL DATA SHEETS & DOCUMENTATION MUST BE ATTACHED AS REQUIRED. FAILURE TO DO SO MAY INVALIDATE THE TENDER.

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MINIMUM TENDER REQUIREMENTS:

ALL TECHNICAL SCHEDULES MUST BE FILLED IN OR COMPLETED IN FULL AND ALL DOCUMENTATION MUST BE ATTACHED AS REQUIRED. FAILURE TO DO SO MAY INVALIDATE THE TENDER.

SCHEDULE B – CABLE SPECIFICATIONS (IEC 60502)

SPECIAL REQUIREMENTS

1.1 NORMATIVE REFERENCES AND SERVICE CONDITIONS

- 1.1.1 The following standards contain provisions which, through reference in this text, constitute requirements of this specifications. At the time of compiling this document, the editions indicated were valid.
- 1.1.2 Bidders shall note that, as all standards are subject to revisions, they are encouraged to investigate the possibility of applying the most recent editions of the relevant standards.
- 1.1.3 The cables and conductors supplied to this specification shall comply with the latest editions of the relevant Standard Specifications, where applicable, except where modified by specification.

1.2 NORMATIVE REFERENCES FOR LOW VOLTAGE ELECTRIC CABLES AND LOW VOLTAGE MULTICORE ELECTRIC CABLES

- 1.2.1 SANS 1507 Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1900/3300V).

1.3 NORMATIVE REFERENCES FOR 11KV PAPER INSULATED ELECTRIC CABLES

- 1.3.1 SANS 97 Electric cables - Impregnated paper insulated metal sheathed Cables for rated voltages (3.3/3.3 KV to 19/33KV).

1.4 NORMATIVE REFERENCES FOR 11KV CROSS LINKED POLYETHYLENE INSULATED ELECTRIC CABLES.

- 1.4.1 SANS 1339 Electric cables - cross linked polyethylene (XLPE) insulated Cables for voltage from (3.8/6.6 KV to 19/33 KV).

1.5 TEST CERTIFICATES AND DRUM DETAILS

- 1.5.1 A test certificate shall be submitted with the tender document for each type of cable offered by the tenderers. The test certificate must include the following information:-
 - (a) Type of cable.
 - (b) Factory length of cable.
 - (c) Drum number.

- (d) Length of cable in meters.
- (e) Size and material of conductors.
- (f) Conductor resistance in ohms per kilometer at 20°C.
- (g) Minimum insulation resistance in mega-ohms.
- (h) Minimum resistance between earth neutral of concentric cables only. (The minimum limit is one mega ohm).
- (i) AC RMS test withstand voltage.

1.5.2 The drums shall be indelibly marked with the following information:

- (a) The manufacturer's trade name or trademark or both.
- (b) Drum number.
- (c) Ray Nkonyeni Municipality's contract number and order number.
- (d) The rated voltage.
- (e) The rated cross-section area in mm's
- (f) Number and material of cores.
- (g) The length of cable in meters.
- (h) The type of insulation, e.g., PVC
- (i) The type of sheath
- (j) The type of armoring.
- (k) The year of manufacture.
- (l) The gross mass in kilograms.
- (m) General handling instructions.

1.5.3 The specified marking on the drum shall last for the life span of the drum.

1.6 MARKING OF CABLES FOR MV CABLES

1.6.1 The outer PVC covering of the cable shall be indelibly embossed at regular intervals of 1 meter with the words "RAY NKONYENI ELECTRICITY".

1.6.2 The length PVC cable shall be marked off in meters on the outer sheath of the Cable. These markings shall start with zero from the inside of the drum and marked At one-meter intervals for the total length of the drum. The hot print technique shall be Used for this marking and the marks shall be white in appearance.

1.6.3 The year of manufacture shall be marked on the cable

1.7 WATER BLOCKING SYSTEM FOR MV CABLES

1.7.1 The cable offered shall be provided with water blocking system to protect the cable against ingress of water both longitudinally and axially.

MINIMUM TENDER REQUIREMENTS:

ALL TECHNICAL SCHEDULES MUST BE FILLED IN OR COMPLETED IN FULL AND ALL DOCUMENTATION MUST BE ATTACHED AS REQUIRED. FAILURE TO DO SO MAY INVALIDATE THE TENDER.

SCHEDULE C – TECHNICAL SPECIFICATION FOR LV/MV POWER CABLES**SCHEDULE C.1**

Cable description - Cu 16mm² 2C SH PVC SWA/ECC PVC BLK/BRN FYRGARD (or similar)
Cable Specification SANS 1507 Voltage: 600/1000V

CABLE SPECIFICATION		SANS 1507 STANDARD	Tenderers must complete and indicate compliance (as necessary)
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	16mm ²	
	Conductor Diameter/Depth	3.31mm	
	Conductor width	7.33mm	
	No. of cores	2	
	Type	Stranded Shaped Compact Cu	
INSULATION DETAILS:	Type	PVC 1mm Thickness	
	Core diameter/Depth	5.31mm	
	Core width	9.33mm	
LAY UP DETAILS:	Type of Fillers		
	Diameter over binders	10.72mm	
BEDDING DETAILS:	Type	PVC 0.8mm Thickness	
	Diameter	12.32mm	
ARMOUR DETAILS:	Type	SWA/ECC	
	No/Diameter	22/9/1.25mm	
	Diameter	14.82mm	
SHEATHING DETAILS	Type	PVC 1.5mm Thickness	
	Diameter	17.82mm	
	Nett Mass of cable	853.3 kg/km	
DRUM DETAILS			
	Standard length	500m	
	Outer drum height / width	876/665mm	
	Gross Mass per drum	481kg	

	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	1.6kN	
	Maximum Force (Pulling sock)	3.37kN	
	Minimum Bending Radius	178mm	
ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	1.15Ω/km	
	Max Conductor Resistance (A.C at 70°C)	1.3761Ω/KM	
	Conductor inductance	0.278mH/km	
	Inductance Reactance	0.087Ω/km	
	Impedance/phase	1.379Ω/km	
	Capacitance	752n/F	
	Charging current	0.14A/km	
	Ground current Rating	110A	
	Single way Duct current Rating	89.4A	
	Air Current Rating (in Shade)	93.2A	
	Air current rating (in Direct sunlight)	73.3A	
	Losses Calculated at 110A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	16651W/ph/km 8.505W/ph/km 31.012W/ph/km	
	Inter-layer Temperature at 110A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	70°C 60°C 55.1°C	
	Zero Sequence impedance/phase	Ω/km	
	Positive and Negative sequence impedance/phase	Ω/km	
	Shunt Susceptance	236 μS/km	

SCHEDULE C.2**Cable description** - Cu 16mm² 4C SH PVC SWA/ECC PVC BLK/BRN FYRGARD (or similar)**Cable Specification** SANS 1507

Voltage: 600/1000V

CABLE SPECIFICATION		SANS 1507 STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	16mm ²	
	Conductor Diameter/Depth	4.45mm	
	Conductor width	6.04mm	
	No. of cores	4	
	Type	Stranded Shaped Compact Cu	
INSULATION DETAILS:	Type	PVC 1mm Thickness	
	Core diameter/Depth	6.45mm	
	Core width	8.04mm	
LAY UP DETAILS:	Type of Fillers		
	Diameter over binders	14.87mm	
BEDDING DETAILS:	Type	PVC 0.8mm Thickness	
	Diameter	16.47mm	
ARMOUR DETAILS:	Type	SWA/ECC	
	N o/Diameter	32/9/1.25mm	
	Diameter	18.97mm	
SHEATHING DETAILS	Type	PVC 1.6mm Thickness	
	Diameter	22.17mm	
	Nett Mass of cable	1352.3kg/km	
DRUM DETAILS			
	Standard length	500m	
	Outer drum height / width	1076/715mm	
	Gross Mass per drum	767kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	3.2Kn	
	Maximum Force (Pulling sock)	4.58Kn	
	Minimum Bending Radius	221mm	
ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	1.15Ω/km	
	Max Conductor Resistance (A.C at 70°C)	1.3761Ω/KM	
	Conductor inductance	0.278mH/km	

	Inductance Reactance	0.087Ω/km	
	Impedance/phase	1.379Ω/km	
	Capacitance	752nF/km	
	Charging current	0.14A/km	
	Ground current Rating	95.1A	
	Single way Duct current Rating	77.1A	
	Air Current Rating (in Shade)	84.1A	
	Air current rating (in Direct sunlight)	65.3A	
	Losses Calculated at 95.1A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	12445W/ph/km 8.505W/ph/km 14.445W/ph/km	
	Inter-layer Temperature at 110A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	70°C 62°C 57.17°C	
	Zero Sequence impedance/phase	4.6187+J0.116Ω/km	
	Positive and Negative sequence impedance/phase	1.3761+J0.087Ω/km	
	Shunt Susceptance	236 μS/km	

SCHEDULE C.3

Cable description - Cu 6mm² 2C PVC SWA/ECC PVC BLK/BRN FYRGARD (or similar)

Cable Specification SANS 1507

Voltage: 600/1000V

CABLE SPECIFICATION		SANS 1507 STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	6mm ²	
	Conductor Diameter/Depth	3.12mm	
	Conductor width	Mm	
	No. of cores	2	
	Type	Stranded Circular Un-Compact Cu	
INSULATION DETAILS:	Type	PVC 1mm Thickness	
	Core diameter/Depth	5.12mm	
	Core width	Mm	
LAY UP DETAILS:	Type of Fillers		
	Diameter over binders	10.48mm	
BEDDING DETAILS:	Type	PVC 0.8mm Thickness	
	Diameter	12.08mm	
ARMOUR DETAILS:	Type	SWA/ECC	
	N o/Diameter	26/4/1.25mm	
	Diameter	14.58mm	
SHEATHING DETAILS	Type	PVC 1.5mm Thickness	
	Diameter	17.58mm	
	Nett Mass of cable	717.2 kg/km	
DRUM DETAILS			
	Standard length	500m	
	Outer drum height / width	876/665mm	
	Gross Mass per drum	413kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	0.6kN	
	Maximum Force (Pulling sock)	3.45kN	
	Minimum Bending Radius	175mm	
ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	3.08Ω/km	
	Max Conductor Resistance (A.C at 70°C)	3.6852Ω/KM	
	Conductor inductance	0.293mH/km	

Inductance Reactance	0.092Ω/km	
Impedance/phase	3.686Ω/km	
Capacitance	560n/F	
Charging current	0.1A/km	
Ground current Rating	62.7A	
Single way Duct current Rating	52.2A	
Air Current Rating (in Shade)	53.3A	
Air current rating (in Direct sunlight)	41.9A	
Losses Calculated at 62.7A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	14488W/ph/km 6.333W/ph/km 1.406W/ph/km	
Inter-layer Temperature at 62.7A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	69.95°C 56°C 51.21°C	
Zero Sequence impedance/phase	Ω/km	
Positive and Negative sequence impedance/phase	Ω/km	
Shunt Susceptance	176 μS/km	

SCHEDULE C.4

Cable description - Cu 35mm² 4C SH PVC SWA/ECC PVC BLK/BRN FYRGARD (or similar)

Cable Specification SANS 1507

Voltage: 600/1000V

CABLE SPECIFICATION		SANS 1507 STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	35mm ²	
	Conductor Diameter/Depth	6.21mm	
	Conductor width	8.38mm	
	No. of cores	4	
	Type	Stranded Shaped Compact Cu	
INSULATION DETAILS:	Type	PVC 1.2mm Thickness	
	Core diameter/Depth	8.61mm	
	Core width	10.78mm	
LAY UP DETAILS:	Type of Fillers		
	Diameter over binders	19.82mm	
BEDDING DETAILS:	Type	PVC 1.2mm Thickness	
	Diameter	22.22mm	
ARMOUR DETAILS:	Type	SWA/ECC	
	N o/Diameter	40/14/1.25mm	
	Diameter	24.72mm	
SHEATHING DETAILS	Type	PVC 1.7mm Thickness	
	Diameter	28.12mm	
	Nett Mass of cable	2374.8 kg/km	
DRUM DETAILS			
	Standard length	500m	
	Outer drum height / width	1376/940mm	
	Gross Mass per drum	1353kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	7kN	
	Maximum Force (Pulling sock)	5.94kN	
	Minimum Bending Radius	281mm	
ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	0.524Ω/km	

	Max Conductor Resistance (A.C at 70°C)	0.6274Ω/KM	
	Conductor inductance	0.267mH/km	
	Inductance Reactance	0.084Ω/km	
	Impedance/phase	0.633Ω/km	
	Capacitance	845n/F	
	Charging current	0.15A/km	
	Ground current Rating	145A	
	Single way Duct current Rating	119A	
	Air Current Rating (in Shade)	135A	
	Air current rating (in Direct sunlight)	103A	
	Losses Calculated at 145A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	13191W/ph/km 9.557W/ph/km 51.164W/ph/km	
	Inter-layer Temperature at 145A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	69.81°C 61°C 57.35°C	
	Zero Sequence impedance/phase	2.8457+J0.1115Ω/km	
	Positive and Negative sequence impedance/phase	0.6274+J0.084Ω/km	
	Shunt Susceptance	265 μS/km	

SCHEDULE C.5**Cable description** - Cu 70mm² 4C SH PVC SWA/ECC PVC BLK/BRN FYRGARD (or similar)**Cable Specification** SANS 1507

Voltage: 600/1000V

CABLE SPECIFICATION		SANS 1507 STANDARD	Tenderers must complete and indicate compliance (where applicable)
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	70mm ²	
	Conductor Diameter/Depth	9.29mm	
	Conductor width	12.62mm	
	No. of cores	4	
	Type	Stranded Shaped Compact Cu	
INSULATION DETAILS:	Type	PVC 1.4mm Thickness	
	Core diameter/Depth	12.09mm	
	Core width	15.42mm	
LAY UP DETAILS:	Type of Fillers		
	Diameter over binders	27.79mm	
BEDDING DETAILS:	Type	PVC 1.4mm Thickness	
	Diameter	30.59mm	
ARMOUR DETAILS:	Type	SWA/ECC	
	N o/Diameter	35/12/2mm	
	Diameter	34.59mm	
SHEATHING DETAILS	Type	PVC 2mm Thickness	
	Diameter	38.59mm	
	Nett Mass of cable	4583.4 kg/km	
DRUM DETAILS			
	Standard length	500m	
	Outer drum height / width	1576/940mm	
	Gross Mass per drum	2493kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	14kN	
	Maximum Force (Pulling sock)	13.3kN	
	Minimum Bending Radius	385mm	
ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	0.268Ω/km	
	Max Conductor Resistance (A.C at 70°C)	0.3214Ω/KM	

Conductor inductance	0.248mH/km	
Inductance Reactance	0.078Ω/km	
Impedance/phase	0.331Ω/km	
Capacitance	978n/F	
Charging current	0.18A/km	
Ground current Rating	213A	
Single way Duct current Rating	175A	
Air Current Rating (in Shade)	211A	
Air current rating (in Direct sunlight)	158A	
Losses Calculated at 213A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	14582W/ph/km 11.061W/ph/km 249.077W/ph/km	
Inter-layer Temperature at 213A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	70°C 62°C 58.57°C	
Zero Sequence impedance/phase	1.3265+J0.105Ω/km	
Positive and Negative sequence impedance/phase	0.3214+J0.078Ω/km	
Shunt Susceptance	307 μS/km	

SCHEDULE C.6**Cable description** - Cu 95mm² 3C PILC PVC DSTA PVC BLK (or similar)**Cable Specification** SANS 97 T19 BELT

Voltage: 6.35/11KV

CABLE SPECIFICATION		SANS97 T17 BELT STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	95mm ²	
	Conductor Diameter/Depth	9.46mm	
	Conductor width	14.83mm	
	No. of cores	3	
	Type	Stranded Shaped Compact Cu	
INSULATION DETAILS:	Type	SC Carbon Paper 0.24mm Thickness	
	Insulation	Paper 2.66mm Thickness	
	Core diameter/Depth	15.26mm	
	Core width	20.63mm	
LAY UP DETAILS:	Type of Fillers	Jute	
	Belt	Paper 1.02mm Thickness	
	Diameter over binders	34.74mm	
LEAD SHEATH DETAILS	Type	Lead Alloy E 1.79mm Thickness	
	Diameter	38.42mm	
BEDDING DETAILS:	Type	PVC 1.6mm Thickness	
	Diameter	41.62mm	
ARMOUR DETAILS:	Type	DSTA	
	No/Diameter	2/0.8mm	
	Diameter	44.82mm	
SHEATHING DETAILS	Type	PVC 2.7mm Thickness	
	Diameter	50.22mm	
	Nett Mass of cable	8119.4 kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	1650/1066mm	
	Gross Mass per drum	2883kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	14.3Kn	
	Maximum Force (Pulling sock)	2.14kN	
	Minimum Bending Radius	602mm	

ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	0.193Ω/km	
	Max Conductor Resistance (A.C at 70°C)	0.2317Ω/KM	
	Conductor inductance	0.281mH/km	
	Inductance Reactance	0.088Ω/km	
	Impedance/phase	0.248Ω/km	
	Capacitance	398n/F	
	Charging current	0.79A/km	
	Ground current Rating	226A	
	Single way Duct current Rating	195A	
	Air Current Rating (in Shade)	236A	
	Air current rating (in Direct sunlight)	172A	
	Losses Calculated at 226A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	11834W/ph/km 50.417W/ph/km 112.409W/ph/km	
	Inter-layer Temperature at 226A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	70°C 57°C 53.56°C	
	Zero Sequence impedance/phase	1.6382+J0.0649Ω/km	
	Positive and Negative sequence impedance/phase	0.2317+J0.088Ω/km	
	Shunt Susceptance	125 μS/km	

SCHEDULE C.7**Cable Description:** CU 25 mm² 3C XLPE IS (0.1) PVC SWA PVC BLK/RED VULTEX (or similar)**Cable Specification:** SANS 1339 TYPE A

Voltage: 6.35/11kV

Cable Specification		SANS 1339 TYPE A Standard	S.I Units	Tenderers must complete and indicate compliance
PHYSICAL DATA				
CONDUCTOR DETAILS	Area	25	mm ²	
	Conductor diameter	5.95	mm	
	No. of cores	3		
	Type	Stranded Circular Compact Cu		
INSULATION DETAILS	Conductor screen	SC XLPE 0.6mm Thickness		
	Insulation	XLPE 3.4mm Thickness		
	Core Screen	SC Strippable XLPE 0.6mm Thickness		
	Core Diameter	15.15	mm	
METALLIC SCREEN	Type	Copper Tape Screen		
	No. of tapes per core	1		
	No. of wires per core			
	Screen Area per core	4.85	mm ²	
	Diameter	15.55	mm	
LAY UP DETAILS	Types of filters	Shaped PVC		
	Diameter over binders	34.01	mm	
BEDDING DETAILS	Type	PVC1.3mm Thickness		
	Diameter	36.61	mm	
ARMOUR DETAILS	Type	SWA		
	No/diameter	43/2.5(211.1 mm ²)	mm	
	Diameter	41.61	mm	
SHEATHING DETAILS	Type	PVC 2.4mm Thickness		
	Diameter	46.41	mm	
	Net mass of cable	4683.7	Kg/km	
DRUM DETAILS	Standard length	300	m	
	Outer drum height/width	1500/1066	mm	
	Gross Mass per drum	1795	kg	
	Material	Heat treated wooden drum		
INSTALLATIONS	Maximum force (Pulling eye)	3.75	kN	
	Maximum force (Pulling Sock)	20.7	kN	
	Maximum bending radius	556	mm	

ELECTRICAL DETAILS	Maximum Conductor Resistance (D.C. at 20° C)	0.727	Ω/km	
	Maximum Conductor Resistance (A.C. at 90° C)	0.9271	Ω/km	
	Conductor Inductance	0.403	mH/km	
	Inductive Reactance	0.127	Ω/km	
	Impedance /phase	0.936	Ω/km	
	Capacitance	208	nF/km	
	Charging current	0.41	A/km	
	Ground current rating	143	A	
	Single way duct current rating	121	A	
	Air Current rating	158	A	
	Air current rating (in direct sunlight)	134	A	
	Losses calculated at 143A			
	• Conductor Losses	18958	W/ph/km	
	• Dielectric Losses	10.54	W/ph/km	
	• Armour/Sheath Losses	78.482	W/ph/km	
	Inter-Layer Temperature at 143A			
	• Conductor	90	°C	
	• Armour	76	°C	
	• Serving	71.25	°C	
	Zero sequence impedance/phase	2.1911+j0.0912	Ω/km	
	Positive and negative sequence impedance/phase	0.9271+j0.127	Ω/km	
	Shunt susceptance	65	μS/km	

SCHEDULE C.8**Cable Description:** CU 70 mm² 3C XLPE IS (0.1) PVC SWA PVC BLK/RED VULTEX (or similar)**Cable Specification:** SANS 1339 TYPE A

Voltage: 6.35/11kV

Cable Specification		SANS 1339 TYPE A Standard	S.I Units	Tenderers must complete and indicate compliance
PHYSICAL DATA				
CONDUCTOR DETAILS	Area	70	mm ²	
	Conductor diameter	9.7	mm	
	No. of cores	3		
	Type	Stranded Circular Compact CU		
INSULATION DETAILS	Conductor screen	SC XLPE 0.6mm Thickness		
	Insulation	XLPE 3.4mm Thickness		
	Core Screen	SC Strippable XLPE 0.6mm Thickness		
	Core Diameter	18.9	mm	
METALLIC SCREEN	Type	Copper Tape Screen		
	No. of tapes per core	1		
	No. of wires per core			
	Screen Area per core	6.03	mm ²	
	Diameter	19.3	mm	
LAY UP DETAILS	Types of fillers	Shaped PVC		
	Diameter over binders	42.09	mm	
BEDDING DETAILS	Type	PVC1.4mm Thickness		
	Diameter	44.89	mm	
ARMOUR DETAILS	Type	SWA		
	No/diameter	53/2.5(260.2 mm ²)	mm	
	Diameter	49.89	mm	
SHEATHING DETAILS	Type	PVC 2.7mm Thickness		
	Diameter	55.29	mm	
	Net mass of cable	6987.5	Kg/km	
DRUM DETAILS	Standard length	300	m	
	Outer drum height/width	1850/1066	mm	
	Gross Mass per drum	2628	kg	
	Material	Heat treated wooden drum		
INSTALLATIONS	Maximum force (Pulling eye)	10.5	kN	
	Maximum force (Pulling Sock)	25.5	kN	
	Maximum bending radius	663	mm	

ELECTRICAL DETAILS	Maximum Conductor Resistance (D.C. at 20° C)	0.268	Ω/km	
	Maximum Conductor Resistance (A.C. at 90° C)	0.3422	Ω/km	
	Conductor Inductance	0.338	mH/km	
	Inductive Reactance	0.106	Ω/km	
	Impedance /phase	0.358	Ω/km	
	Capacitance	286	nF/km	
	Charging current	0.57	A/km	
	Ground current rating	244	A	
	Single way duct current rating	207	A	
	Air Current rating	268	A	
	Air current rating (in direct sunlight)	222	A	
	Losses calculated at 244A			
	• Conductor Losses	20373	W/ph/km	
	• Dielectric Losses	14.492	W/ph/km	
	• Armour/Sheath Losses	292.447	W/ph/km	
	Inter-Layer Temperature at 244A			
	• Conductor	90	°C	
	• Armour	78	°C	
	• Serving	73.09	°C	
	Zero sequence impedance/phase	1.3643+j0.0751	Ω/km	
	Positive and negative sequence impedance/phase	0.3422+j0.106	Ω/km	
	Shunt susceptance	90	μS/km	

SCHEDULE C.9**Cable Description** CU 2.5mm² 2C PVC SWA/ECC PVC BLK/BRN FYRGARD (or similar)**Cable Specification** SANS 1507 Voltage: Voltage: 600/1000V

Cable Specification		SANS 1507 STANDARD	S.I. Units	Tenderers must complete and indicate compliance
PHYSICAL DATA				
CONDUCTOR DETAILS:	Area	2.5	mm ²	
	Conductor Diameter/Depth	1.98	mm	
	Conductor width		mm	
	No. of cores	2		
	Type	Stranded Circular Shaped Un-Compact CU		
INSULATION DETAILS:	Type	PVC 0.8 mm Thickness		
	Core diameter/Depth	3.58	mm	
	Core width		mm	
LAY UP DETAILS:	Type of Fillers			
	Diameter over binders	7.4	mm	
BEDDING DETAILS:	Type	PVC 0.8mm Thickness		
	Diameter	9	mm	
ARMOUR DETAILS:	Type	SWA/ECC		
	N o/Diameter	21/2/1.25	mm	
	Diameter	11.5	mm	
SHEATHING DETAILS	Type	PVC 1.5mm Thickness		
	Diameter	14.5	mm	
	Nett Mass of cable	482.7	kg/km	
DRUM DETAILS				
	Standard length	500	m	

	Outer drum height / width	776/665	m	
	Gross Mass per drum	286	kg	
	Material	Heat Treated wooden Drum		
INSTALLATION				
	Maximum Force (Pulling Eye)	0.25	kN	
	Maximum Force (Pulling sock)	2.69	kN	
	Minimum Bending Radius	145	mm	
ELECTRICAL DATA				
	Max. Conductor Resistance (D.C. at 20° C)	7.41	Ω /km	
	Max Conductor Resistance (A.C at 70°C)	8.8661	Ω /KM	
	Conductor inductance	0.328	mH/km	
	Inductance Reactance	0.103	Ω /km	
	Impedance/phase	8.867	Ω /km	
	Capacitance	469	n/F	
	Charging current	0.09	A/km	
	Ground current Rating	38.5	A	
	Single way Duct current Rating	32.1	A	
	Air Current Rating (in Shade)	31.7	A	
	Air current rating (in Direct sunlight)	25.3	A	
	Losses Calculated at 38.5A.			
	• Conductor losses	13142	W/ph/km	
	• Dielectric Losses	5.304	W/ph/km	

	<ul style="list-style-type: none"> • Armour/Sheath Losses 	0.379	W/ph/km	
	Inter-layer Temperature at 38.5A.			
	<ul style="list-style-type: none"> • Conductor 	70	°C	
	<ul style="list-style-type: none"> • Armour 	55	°C	
	<ul style="list-style-type: none"> • Serving 	49.75	°C	
	Zero Sequence impedance/phase		Ω/km	
	Positive and Negative sequence impedance/phase		Ω/km	
	Shunt Susceptance	147	$\mu\text{S}/\text{km}$	

SCHEDULE C.10**Cable description:** Cu 150mm² 3C PILC PVC DSTA PVC BLK (or similar)**Cable Specification:** SANS 97 T19 BELT

Voltage: 6.35/11KV

CABLE SPECIFICATION		SANS97 T17 BELT STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	150mm ²	
	Conductor Diameter/Depth	11.74mm	
	Conductor width	19.06mm	
	No. of cores	3	
	Type	Stranded Shaped Compact Cu	
INSULATION DETAILS:	Type	SC Carbon Paper 0.24mm Thickness	
	Insulation	Paper 2.67mm Thickness	
	Core diameter/Depth	17.56mm	
	Core width	24.88mm	
LAY UP DETAILS:	Type of Fillers	Jute	
	Belt	Paper 1.02mm Thickness	
	Diameter over binders	39.59mm	
LEAD SHEATH DETAILS	Type	Lead Alloy E 2mm Thickness	
	Diameter	43.69mm	
BEDDING DETAILS:	Type	PVC 1.8mm Thickness	
	Diameter	47.29mm	
ARMOUR DETAILS:	Type	DSTA	
	No/Diameter	2/0.8mm	
	Diameter	50.49mm	
SHEATHING DETAILS	Type	PVC 3mm Thickness	
	Diameter	56.49mm	
	Nett Mass of cable	10828.6 kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	1850/1066mm	
	Gross Mass per drum	3780kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	22.5Kn	
	Maximum Force (Pulling sock)	2.73kN	
	Minimum Bending Radius	677mm	

ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	0.124Ω/km	
	Max Conductor Resistance (A.C at 70°C)	0.1498Ω/KM	
	Conductor inductance	0.266mH/km	
	Inductance Reactance	0.084Ω/km	
	Impedance/phase	0.172Ω/km	
	Capacitance	467n/F	
	Charging current	0.93A/km	
	Ground current Rating	288A	
	Single way Duct current Rating	248A	
	Air Current Rating (in Shade)	3.9A	
	Air current rating (in Direct sunlight)	224A	
	Losses Calculated at 288A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	12425W/ph/km 59.158W/ph/km 230.915W/ph/km	
	Inter-layer Temperature at 288A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	69.84°C 58°C 54.38°C	
	Zero Sequence impedance/phase	1.326+J0.0609Ω/km	
	Positive and Negative sequence impedance/phase	0.149+J0.084Ω/km	
	Shunt Susceptance	147 μS/km	

SCHEDULE C.11

Cable description – AL 50mm² (WB) 3C XLPE IS(0.1) (WB) (MARKED) PVC (WB)SWA(WB)
MDPE BLK VULTEX (or similar)

Cable Specification SANS 1339 TYPE A

Voltage: 6.35/11KV

CABLE SPECIFICATION		SANS 1339 TYPE A STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	50mm ²	
	Conductor Diameter	18.5mm	
	No. of cores	3	
	Type	Stranded Circular Compact Al	
INSULATION DETAILS:	Conductor Screen	SC XLPE 0.6mm Thickness	
	Insulation	XLPE 3.4mm Thickness	
	Core Screen	SC Strippable XLPE 0.6mm Thickness	
	Core diameter	17,37 mm	
METALLIC SCREEN:	Type	Copper Tape Screen	
	No. of Tapes per Core	1	
	No. of Wires per Core		
	Screen Area per Core	5,67mm ²	
	Diameter	18,15mm	
LAY UP DETAILS:	Type of Fillers		
	Diameter over binders	41,61mm	
BEDDING DETAILS:	Type	PVC 1.4mm Thickness	
	Diameter	44,41mm	
ARMOUR DETAILS:	Type	SWA(WB)	
	No/Diameter	33/2,5(260,2mm ²)	
	Diameter	49,92mm	
SHEATHING DETAILS	Type	MDPE 2,6mm Thickness	
	Diameter	55,77mm	
	Nett Mass of cable	4539,1 kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	1850/1066mm	
	Gross Mass per drum	1894kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	4,5kN	

	Maximum Force (Pulling sock)	25,5kN	
	Minimum Bending Radius	669mm	
ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	0.641Ω/km	
	Max Conductor Resistance (A.C at 90°C)	0.822Ω/KM	
	Conductor inductance	0.377mH/km	
	Inductance Reactance	0.118Ω/km	
	Impedance/phase	0.83Ω/km	
	Capacitance	254 nF/km	
	Charging current	0.51 A/km	
	Ground current Rating	158A	
	Single way Duct current Rating	134A	
	Air Current Rating (in Shade)	183A	
	Air current rating (in Direct sunlight)	164A	
	Losses Calculated at 158A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	20520 W/ph/km 12,87 W/ph/km 116,742 W/ph/km	
	Inter-layer Temperature at 158A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	89,8°C 76°C 72,88°C	
	Zero Sequence impedance/phase	1.8665 + j0.0847Ω/km	
	Positive and Negative sequence impedance/phase	0.822 + j0.118Ω/km	
	Shunt Susceptance	80 μS/km	

SCHEDULE C.12

Cable description – AL 70mm² (marked) (WB) 3C XLPE IS(0.1) (WB) (MARKED) PVC (WB)SWA(WB) MDPE BLK VULTEX (or similar)

Cable Specification SANS 1339 TYPE A

Voltage: 6.35/11KV

CABLE SPECIFICATION		SANS 1339 TYPE A STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	70mm ²	
	Conductor Diameter	9,79mm	
	No. of cores	3	
	Type	Stranded Circular Compact Al	
INSULATION DETAILS:	Conductor Screen	SC XLPE 0.6mm Thickness	
	Insulation	XLPE 3.4mm Thickness	
	Core Screen	SC Strippable XLPE 0.6mm Thickness	
	Core diameter	18,99 mm	
METALLIC SCREEN:	Type	Copper Tape Screen	
	No. of Tapes per Core	1	
	No. of Wires per Core		
	Screen Area per Core	6,19mm ²	
	Diameter	19,79mm	
LAY UP DETAILS:	Type of Fillers		
	Diameter over binders	45,14mm	
BEDDING DETAILS:	Type	PVC 1.4mm Thickness	
	Diameter	47,94mm	
ARMOUR DETAILS:	Type	SWA(WB)	
	No/Diameter	57/2,5(279,8mm ²)	
	Diameter	53,45mm	
SHEATHING DETAILS	Type	MDPE 2,7mm Thickness	
	Diameter	59,55mm	
	Nett Mass of cable	5075,1 kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	1850/1066mm	
	Gross Mass per drum	2054kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	6,3kN	
	Maximum Force (Pulling sock)	27,4kN	

	Minimum Bending Radius	714mm	
ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	0.443Ω/km	
	Max Conductor Resistance (A.C at 90°C)	0.5683Ω/KM	
	Conductor inductance	0.348mH/km	
	Inductance Reactance	0.109Ω/km	
	Impedance/phase	0.579Ω/km	
	Capacitance	288 nF/km	
	Charging current	0.57 A/km	
	Ground current Rating	193A	
	Single way Duct current Rating	164A	
	Air Current Rating (in Shade)	227A	
	Air current rating (in Direct sunlight)	204A	
	Losses Calculated at 193A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	21169 W/ph/km 14,593 W/ph/km 191,053 W/ph/km	
	Inter-layer Temperature at 193A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	89.78°C 770°C 73,76°C	
	Zero Sequence impedance/phase	1.5345 + j0.0776Ω/km	
	Positive and Negative sequence impedance/phase	0.5683 + j0.109Ω/km	
	Shunt Susceptance	90 μS/km	

SCHEDULE C.13

Cable description – AL 185mm² (marked)(WB) 3C XLPE IS(0.1) (MARKED) PVC (WB)SWA(WB) MDPE BLK VULTEX (or similar)

Cable Specification SANS 1339 TYPE A

Voltage: 6.35/11KV

CABLE SPECIFICATION		SANS 1339 TYPE A STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	185mm ²	
	Conductor Diameter	16.1mm	
	No. of cores	3	
	Type	Stranded Circular Compact Al	
INSULATION DETAILS:	Conductor Screen	SC XLPE 0.6mm Thickness	
	Insulation	XLPE 3.4mm Thickness	
	Core Screen	SC Strippable XLPE 0.6mm Thickness	
	Core diameter	25,3 mm	
METALLIC SCREEN:	Type	Copper Tape Screen	
	No. of Tapes per Core	1	
	No. of Wires per Core		
	Screen Area per Core	8.17mm ²	
	Diameter	26.1mm	
LAY UP DETAILS:	Type of Fillers		
	Diameter over binders	58.74mm	
BEDDING DETAILS:	Type	PVC 1.7mm Thickness	
	Diameter	62,14mm	
ARMOUR DETAILS:	Type	SWA(WB)	
	No/Diameter	58/3.15(452mm ²)	
	Diameter	68,95mm	
SHEATHING DETAILS	Type	MDPE 3.2mm Thickness	
	Diameter	76mm	
	Nett Mass of cable	8378.3 kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	2250/1102mm	
	Gross Mass per drum	3299kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	16.7kN	

	Maximum Force (Pulling sock)	44.3kN	
	Minimum Bending Radius	912mm	
ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	0.164Ω/km	
	Max Conductor Resistance (A.C at 90°C)	0.2113Ω/KM	
	Conductor inductance	0.298mH/km	
	Inductance Reactance	0.094Ω/km	
	Impedance/phase	0.231Ω/km	
	Capacitance	419 nF/km	
	Charging current	0.84 A/km	
	Ground current Rating	329A	
	Single way Duct current Rating	277A	
	Air Current Rating (in Shade)	411A	
	Air current rating (in Direct sunlight)	368A	
	Losses Calculated at 329A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	22871 W/ph/km 21,231 W/ph/km 867,408 W/ph/km	
	Inter-layer Temperature at 329A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	90°C 79°C 75,91°C	
	Zero Sequence impedance/phase	0.8494 + j0.064Ω/km	
	Positive and Negative sequence impedance/phase	0.2113 + j0.094Ω/km	
	Shunt Susceptance	132 μS/km	

SCHEDULE C.14

Cable description – AL 240mm² (marked)(WB) 3C XLPE IS(0.1) (MARKED) PVC (WB)SWA(WB) MDPE BLK VULTEX (or similar)

Cable Specification SANS 1339 TYPE A

Voltage: 6.35/11KV

CABLE SPECIFICATION		SANS 1339 TYPE A STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	240mm ²	
	Conductor Diameter	18.7mm	
	No. of cores	3	
	Type	Stranded Circular Compact Al	
INSULATION DETAILS:	Conductor Screen	SC XLPE 0.6mm Thickness	
	Insulation	XLPE 3.4mm Thickness	
	Core Screen	SC Strippable XLPE 0.6mm Thickness	
	Core diameter	27.91 mm	
METALLIC SCREEN:	Type	Copper Tape Screen	
	No. of Tapes per Core	1	
	No. of Wires per Core		
	Screen Area per Core	8.99mm ²	
	Diameter	28.71mm	
LAY UP DETAILS:	Type of Fillers		
	Diameter over binders	64.36mm	
BEDDING DETAILS:	Type	PVC 1.8mm Thickness	
	Diameter	67.96mm	
ARMOUR DETAILS:	Type	SWA(WB)	
	No/Diameter	63/3.15(491mm ²)	
	Diameter	74.77mm	
SHEATHING DETAILS	Type	MDPE 3.4mm Thickness	
	Diameter	82.22mm	
	Nett Mass of cable	9545.5 kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	2450/1102mm	
	Gross Mass per drum	3747kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	21.6kN	
	Maximum Force (Pulling sock)	48.1kN	

	Minimum Bending Radius	986mm	
ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	0.125Ω/km	
	Max Conductor Resistance (A.C at 90°C)	0.1617Ω/KM	
	Conductor inductance	0.287mH/km	
	Inductance Reactance	0.09Ω/km	
	Impedance/phase	0.185Ω/km	
	Capacitance	473 Nf/km	
	Charging current	0.94 A/km	
	Ground current Rating	379A	
	Single way Duct current Rating	319A	
	Air Current Rating (in Shade)	482A	
	Air current rating (in Direct sunlight)	432A	
	Losses Calculated at 379A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	23227 W/ph/km 23,967 W/ph/km 1258,751 W/ph/km	
	Inter-layer Temperature at 379A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	89.86°C 80°C 76.4°C	
	Zero Sequence impedance/phase	0.7465 + j0.060Ω/km	
	Positive and Negative sequence impedance/phase	0.1617 + j0.09Ω/km	
	Shunt Susceptance	149 μS/km	

SCHEDULE C.15

Cable description – AL 300mm² (marked)(WB) 3C XPLE IS(1.0)(W) (MARKED) PVC (WB)SWA(WB) MDPE BLK VULTEX (or similar)

Cable Specification SANS 1339 TYPE A

Voltage: 6.35/11KV

CABLE SPECIFICATION		SANS 1339 TYPE A STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	300mm ²	
	Conductor Diameter	21.5mm	
	No. of cores	3	
	Type	Stranded Circular Compact Al	
INSULATION DETAILS:	Conductor Screen	SC XLPE 0.6mm Thickness	
	Insulation	XLPE 3.4mm Thickness	
	Core Screen	SC Strippable XLPE 0.6mm Thickness	
	Core diameter	30.65mm	
METALLIC SCREEN:	Type	Copper Tape Screen	
	No. of Tapes per Core	1	
	No. of Wires per Core		
	Screen Area per Core	9.85mm ²	
	Diameter	31.45mm	
LAY UP DETAILS:	Type of Fillers		
	Diameter over binders	70.27mm	
BEDDING DETAILS:	Type	PVC 1.9mm Thickness	
	Diameter	74.07mm	
ARMOUR DETAILS:	Type	SWA(WB)	
	No/Diameter	69/3.15(537.7mm ²)	
	Diameter	80.88mm	
SHEATHING DETAILS	Type	MDPE 3.6mm Thickness	
	Diameter	88.73mm	
	Nett Mass of cable	10970 kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	2650/1252mm	
	Gross Mass per drum	4190kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	27Kn	
	Maximum Force (Pulling sock)	52.7Kn	

	Minimum Bending Radius	1064mm	
ELECTRICAL DATA			
	Max. Conductor Resistance (D.C. at 20° C)	0.1Ω/km	
	Max Conductor Resistance (A.C at 90°C)	0.1301Ω/KM	
	Conductor inductance	0.277mH/km	
	Inductance Reactance	0.087Ω/km	
	Impedance/phase	0.157Ω/km	
	Capacitance	530 Nf/km	
	Charging current	1.06 A/km	
	Ground current Rating	425 A	
	Single way Duct current Rating	357A	
	Air Current Rating (in Shade)	552A	
	Air current rating (in Direct sunlight)	493A	
	Losses Calculated at 425A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	23499 W/ph/km 26855 W/ph/km 1734.215 W/ph/km	
	Inter-layer Temperature at 425A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	89.86°C 80°C 76.86°C	
	Zero Sequence impedance/phase	0.6636 + j0.057Ω/km	
	Positive and Negative sequence impedance/phase	0.1301 + j0.087Ω/km	
	Shunt Susceptance	167 μS/km	

SCHEDULE C.16**Cable description** – AL 400mm² 3C PILC PVC DSTA PVC BLK (or similar)**Cable Specification** SANS 97 T19 SCR AFAA**Voltage:** 6.35/11KV

CABLE SPECIFICATION		SANS 1339 TYPE A STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	400mm ²	
	Conductor Diameter	19,12mm	
	Conductor width	13,13mm	
	No. of cores	3	
	Type	Stranded Circular Compact Al	
INSULATION DETAILS:	Conductor Screen	SC Carbon Paper 0.24mm Thickness	
	Insulation	Paper 3.03mm Thickness	
	Core Screen	Metalised/SC Carbon Paper 0.26mm Thickness	
	Core diameter	26,18 mm	
	Core width	38,19mm	
LAY UP DETAILS:	Type of Fillers	Jute	
	Diameter over binders	56,13mm	
LEAD SHEATH DETAILS	Type	Lead Alloy E 2.,63mm Thickness	
	Diameter	61,49mm	
BEDDING DETAILS:	Type	PVC 1.8mm Thickness	
	Diameter	65,09mm	
ARMOUR DETAILS:	Type	DSTA	
	No/Diameter/Thickness	2/0.8mm ²	
	Diameter	68.29mm	
SHEATHING DETAILS	Type	PVC 3.7mm Thickness	
	Diameter	75.69mm	
	Nett Mass of cable	14830.5 kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	2250/1102mm	
	Gross Mass per drum	5321kg	
	Material	Heat Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	36kN	
	Maximum Force (Pulling sock)	5.06kN	
	Minimum Bending Radius	908mm	

ELECTRICAL DATA	Conductor inductance	0.247mH/km	
	Inductance Reactance	0.078Ω/km	
	Impedance/phase	0.124Ω/km	
	Capacitance	997 nF/km	
	Charging current	1.99 A/km	
	Ground current Rating	392A	
	Single way Duct current Rating	332A	
	Air Current Rating (in Shade)	459A	
	Air current rating (in Direct sunlight)	328A	
	Losses Calculated at 392A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	14736 W/ph/km 126.297 W/ph/km 884.284 W/ph/km	
	Inter-layer Temperature at 392A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	69.88°C 63°C 58.76°C	
	Zero Sequence impedance/phase	0.7483 + j0.0335Ω/km	
	<ul style="list-style-type: none"> • Positive and Negative sequence impedance/phase 	0.0959 + j0.078Ω/km	
	<ul style="list-style-type: none"> • Shunt Susceptance 	313 μS/km	

SCHEDULE C.17**Cable description:** AL 50mm² 3C PILC PVC DSTA PVC BLK (or similar)**Cable Specification:** SANS 97 T19 SCR

Voltage: 6.35/11kV

CABLE SPECIFICATION		SANS 97 T19 SCR STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	50mm ²	
	Conductor Diameter/Depth	8.15mm	
	Conductor width	Mm	
	No. of cores	3	
	Type	Stranded Shaped Compact AL	
INSULATION DETAILS:	Conductor Screen	SC Carbon Paper 0.24mm Thickness	
	Insulation	Paper 3.02mm Thickness	
	Core Screen	Metalised /SC Carbon Paper 0.26mm Thickness	
	Core diameter/Depth	15.19mm	
	Core width	Mm	
LAY UP DETAILS:	Type of Fillers	Jute	
	Diameter over binders	33.62mm	
LEAD SHEATH DETAILS	Type	Lead Alloy E 1.68mm Thickness	
	Diameter	37.08mm	
BEDDING DETAILS:	Type	PVC 1.4mm Thickness	
	Diameter	39.88mm	
ARMOUR DETAILS:	Type	DSTA	
	No/Diameter/Thickness	2/0.5mm	
	Diameter	41.88mm	
SHEATHING DETAILS	Type	PVC 2.5mm Thickness	
	Diameter	46.88mm	
	Nett Mass of cable	5072.3kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	1500/1066mm	
	Gross Mass per drum	1917kg	
	Material	Heated Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	4.5Kn	
	Maximum Force (Pulling sock)	1.94Kn	
	Minimum Bending Radius	562mm	
ELECTRICAL DATA	Conductor inductance	0.325mH/km	
	Inductance Reactance	0.102Ω/km	

	Impedance/phase	0.777Ω/km	
	Capacitance	419n/F	
	Charging current	0.84A/km	
	Ground current Rating	125A	
	Single way Duct current Rating	107A	
	Air Current Rating (in Shade)	130A	
	Air current rating (in Direct sunlight)	95.5A	
	Losses Calculated at 125A.		
	<ul style="list-style-type: none"> • Conductor losses 	12038W/ph/km	
	<ul style="list-style-type: none"> • Dielectric Losses 	53.078W/ph/km	
	<ul style="list-style-type: none"> • Armour/Sheath Losses 	35.855W/ph/km	
	Inter-layer Temperature at 125A.		
	<ul style="list-style-type: none"> • Conductor 	69.83°C	
	<ul style="list-style-type: none"> • Armour 	58°C	
	<ul style="list-style-type: none"> • Serving 	54.32°C	
	<ul style="list-style-type: none"> • Zero Sequence impedance/phase 	2.4268 +j0.0046Ω/km	
	Positive and Negative sequence impedance/phase	0.7704 +j0.102Ω/km	
	Shunt Susceptance	132 μS/km	

SCHEDULE C.18

Cable description: AL 300mm² (61WIRE) 3C PILC PVC DSTA PVC BLK (or similar)

Cable Specification: SANS 97 T19 SCR

Voltages: 6.35/11kV

CABLE SPECIFICATION		SANS 97 T19 SCR STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	300mm ²	
	Conductor Diameter/Depth	16.83mm	
	Conductor width	27.42mm	
	No. of cores	3	
	Type	Stranded Shaped Compact AL	
INSULATION DETAILS:	Conductor Screen	SC Carbon Paper 0.24mm Thickness	
	Insulation	Paper 3.02mm Thickness	
	Core Screen	Metalised /SC Carbon Paper 0.26mm Thickness	
	Core diameter/Depth	23.87mm	
	Core width	34.46mm	
LAY UP DETAILS:	Type of Fillers	Jute	
	Diameter over binders	51.26mm	
LEAD SHEATH DETAILS	Type	Lead Alloy E 2.42mm Thickness	
	Diameter	56.2mm	
BEDDING DETAILS:	Type	PVC 1.8mm Thickness	
	Diameter	59.8mm	
ARMOUR DETAILS:	Type	DSTA	
	No/Diameter/Thickness	2/0.8mm	
	Diameter	63mm	
SHEATHING DETAILS	Type	PVC 3.5mm Thickness	
	Diameter	70mm	
	Nett Mass of cable	12481kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	2150/1102mm	
	Gross Mass per drum	4418kg	
	Material	Heated Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	27kN	
	Maximum Force (Pulling sock)	4.26kN	
	Minimum Bending Radius	840mm	

ELECTRICAL DATA	Conductor inductance	0.254mH/km	
	Inductance Reactance	0.08Ω/km	
	Impedance/phase	0.146Ω/km	
	Capacitance	882n/F	
	Charging current	1.76A/km	
	Ground current Rating	345A	
	Single way Duct current Rating	292A	
	Air Current Rating (in Shade)	397A	
	Air current rating (in Direct sunlight)	284A	
	Losses Calculated at 345A.		
	• Conductor losses	14521W/ph/km	
	• Dielectric Losses	111.729W/ph/km	
	• Armour/Sheath Losses	582.506W/ph/km	
	Inter-layer Temperature at 345A.		
	• Conductor	69.87°C	
• Armour	62°C		
• Serving	55.29°C		
Zero Sequence impedance/phase	0.8657 +j0.035Ω/km		
• Positive and Negative sequence impedance/phase	0.122 +j0.08Ω/km		
• Shunt Susceptance	277μS/km		

SCHEDULE C.19

Cable description: AL 150mm² 3C PILC PVC DSTA PVC BLK (or similar)

Cable Specification: SANS 97 T19 SCR

Voltage: 6.35/11KV

CABLE SPECIFICATION		SANS 97 T19 SCR STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	150mm ²	
	Conductor Diameter/Depth	11.66mm	
	Conductor width	18.93mm	
	No. of cores	3	
	Type	Stranded Shaped Compact AL	
INSULATION DETAILS:	Conductor Screen	SC Carbon Paper 0.24mm Thickness	
	Insulation	Paper 3.03mm Thickness	
	Core Screen	Metalised /SC Carbon Paper 0.26mm Thickness	
	Core diameter/Depth	18.72mm	
	Core width	25.99mm	
LAY UP DETAILS:	Type of Fillers	Jute	
	Diameter over binders	40.39mm	
LEAD SHEATH DETAILS	Type	Lead Alloy E 2mm Thickness	
	Diameter	44.49mm	
BEDDING DETAILS:	Type	PVC 1.8mm Thickness	
	Diameter	48.09mm	
ARMOUR DETAILS:	Type	DSTA	
	No/Diameter/Thickness	2/0.8mm	
	Diameter	51.29mm	
SHEATHING DETAILS	Type	PVC 3mm Thickness	
	Diameter	57.29mm	
	Nett Mass of cable	8274.7kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	1850/1066mm	
	Gross Mass per drum	3014kg	
	Material	Heated Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	13.5kN	
	Maximum Force (Pulling sock)	2.78kN	
	Minimum Bending Radius	687mm	
	Conductor inductance	0.279mH/km	

ELECTRICAL DATA	Inductance Reactance	0.088Ω/km	
	Impedance/phase	0.263Ω/km	
	Capacitance	657n/F	
	Charging current	1.31A/km	
	Ground current Rating	235A	
	Single way Duct current Rating	200A	
	Air Current Rating (in Shade)	257A	
	Air current rating (in Direct sunlight)	187A	
	Losses Calculated at 235A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	13712W/ph/km 683.227W/ph/km 182.46W/ph/km	
	Inter-layer Temperature at 235A. <ul style="list-style-type: none"> • Conductor • Armour Serving	70°C 61°C 57.23°C	
	Zero Sequence impedance/phase	1.2665 +j0.0401Ω/km	
	<ul style="list-style-type: none"> • Positive and Negative sequence impedance/phase 	0.2483 +j0.088Ω/km	
	<ul style="list-style-type: none"> • Shunt Susceptance 	206μS/km	

SCHEDULE C.20

Cable Description: AL 95 mm² (Marked) 3C XLPE IS (0.1) (WB) (Marked) PVC (WB) SWA (WB) MDPE BLK VULTEX (or similar)

Cable Specification: SANS 1339 TYPE A
6.35/11kV

Voltage:

Cable Specification		SANS 1339 TYPE A Standard	S.I Units	Tenderers must complete and indicate compliance
PHYSICAL DATA				
CONDUCTOR DETAILS	Area	95	mm ²	
	Conductor diameter	11.5	mm	
	No. of cores	3		
	Type	Stranded Circular Compact AL		
INSULATION DETAILS	Conductor screen	SC XLPE 0.6mm Thickness		
	Insulation	XLPE 3.4mm Thickness		
	Core Screen	SC Strippable XLPE 0.6mm Thickness		
	Core Diameter	20.74	mm	
METALLIC SCREEN	Type	Copper Tape Screen		
	No. of tapes per core	1		
	No. of wires per core			
	Screen Area per core	6.74	mm ²	
LAY UP DETAILS	Diameter	21.54	mm	
	Types of fillers			
BEDDING DETAILS	Diameter over binders	48.91	mm	
	Type	PVC1.5mm Thickness		
ARMOUR DETAILS	Diameter	51.91	mm	
	Type	SWA(WB)		
	No/diameter	61/2.5(299.4 mm ²)	mm	
SHEATHING DETAILS	Diameter	57.42	mm	
	Type	PVC 2.8mm Thickness		
	Diameter	63.67	mm	
DRUM DETAILS	Net mass of cable	5750	Kg/km	
	Standard length	300	m	
	Outer drum height/ width	2050/1102	mm	
	Gross Mass per drum	2322	kg	
INSTALLATIONS	Material	Heat treated wooden drum		
	Maximum force (Pulling eye)	8.55	kN	

	Maximum force (Pulling Sock)	29.4	kN		
	Maximum bending radius	764	mm		
ELECTRICAL DETAILS	Maximum Conductor Resistance (D.C. at 20° C)	0.32	Ω/km		
	Maximum Conductor Resistance (A.C. at 90° C)	0.4107	Ω/km		
	Conductor Inductance	0.332	mH/km		
	Inductive Reactance	0.104	Ω/km		
	Impedance /phase	0.424	Ω/km		
	Capacitance	324	nF/km		
	Charging current	0.65	A/km		
	Ground current rating	230	A		
	Single way duct current rating	195	A		
	Air Current rating	275	A		
	Air current rating (in direct sunlight)	247	A		
		Losses calculated at 230A			
		<ul style="list-style-type: none"> • Conductor losses 	21726	W/ph/km	
	<ul style="list-style-type: none"> • Dielectric Losses 	16.417	W/ph/km		
	<ul style="list-style-type: none"> • Armour/Sheath Losses 	293.534	W/ph/km		
	Inter-Layer Temperature at 230A				
	<ul style="list-style-type: none"> • Conductor 	89.85	°C		
	<ul style="list-style-type: none"> • Armour 	78	°C		
	<ul style="list-style-type: none"> • Serving 	74.43	°C		
	Zero sequence impedance/phase	1.308+j0.0731	Ω/km		
	Positive and negative sequence impedance/phase	0.4107+j0.104	Ω/km		
	Shunt susceptance	102	μS/km		

SCHEDULE C.21

Cable description: AL 95mm² 3C PILC PVC DSTA PVC BLK (or similar)

Cable Specification: SANS 97 T19 SCR

Voltage: 6.35/11KV

CABLE SPECIFICATION		SANS 97 T19 SCR STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	95mm ²	
	Conductor Diameter/Depth	9.4mm	
	Conductor width	14.68mm	
	No. of cores	3	
	Type	Stranded Shaped Compact AL	
INSULATION DETAILS:	Conductor Screen	SC Carbon Paper 0.24mm Thickness	
	Insulation	Paper 3.02mm Thickness	
	Core Screen	Metalised /SC Carbon Paper 0.26mm Thickness	
	Core diameter/Depth	16.44mm	
	Core width	21.72mm	
LAY UP DETAILS:	Type of Fillers	Jute	
	Diameter over binders	35.58mm	
LEAD SHEATH DETAILS	Type	Lead Alloy E 1.89mm Thickness	
	Diameter	39.46	
BEDDING DETAILS:	Type	PVC 1.6mm Thickness	
	Diameter	42.66mm	
ARMOUR DETAILS:	Type	DSTA	
	No/Diameter/Thickness	2/0.8mm	
	Diameter	45.86mm	
SHEATHING DETAILS	Type	PVC 2.7mm Thickness	
	Diameter	51.26mm	
	Nett Mass of cable	6683.9kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	1650/1066mm	
	Gross Mass per drum	2452kg	
	Material	Heated Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	8.55kN	
	Maximum Force (Pulling sock)	2.32kN	
	Minimum Bending Radius	615mm	

ELECTRICAL DATA	Conductor inductance	0.295mH/km	
	Inductance Reactance	0.093Ω/km	
	Impedance/phase	0.396Ω/km	
	Capacitance	548n/F	
	Charging current	1.09A/km	
	Ground current Rating	185A	
	Single way Duct current Rating	157A	
	Air Current Rating (in Shade)	198A	
	Air current rating (in Direct sunlight)	145A	
	Losses Calculated at 185A.		
	• Conductor losses	13177W/ph/km	
	• Dielectric Losses	69.419W/ph/km	
	• Armour/Sheath Losses	94.15W/ph/km	
	Inter-layer Temperature at 185A.		
	• Conductor	69.98°C	
	• Armour	60°C	
	• Serving	56.59°C	
Zero Sequence impedance/phase	1.5649 +j0.0434Ω/km		
• Positive and Negative sequence impedance/phase	0.385 +j0.093Ω/km		
• Shunt Susceptance	172 μS/km		

SCHEDULE C.22

Cable description: AL 70mm² 3C PILC PVC DSTA PVC BLK (or similar)

Cable Specification: SANS 97 T19 SCR

Voltage: 6.35/11KV

CABLE SPECIFICATION		SANS 97 T19 SCR STANDARD	Tenderers must complete and indicate compliance
PHYSICAL DATA			
CONDUCTOR DETAILS:	Area	70mm ²	
	Conductor Diameter/Depth	7.93mm	
	Conductor width	12.65mm	
	No. of cores	3	
	Type	Stranded Shaped Compact AL	
INSULATION DETAILS:	Conductor Screen	SC Carbon Paper 0.24mm Thickness	
	Insulation	Paper 3.03mm Thickness	
	Core Screen	Metalised /SC Carbon Paper 0.26mm Thickness	
	Core diameter/Depth	14.99mm	
	Core width	19.71mm	
LAY UP DETAILS:	Type of Fillers	Jute	
	Diameter over binders	32.52mm	
LEAD SHEATH DETAILS	Type	Lead Alloy E 1.79mm Thickness	
	Diameter	36.2mm	
BEDDING DETAILS:	Type	PVC 1.6mm Thickness	
	Diameter	39.4mm	
ARMOUR DETAILS:	Type	DSTA	
	No/Diameter/Thickness	2/0.5mm	
	Diameter	41.4mm	
SHEATHING DETAILS	Type	PVC 2.6mm Thickness	
	Diameter	46.6mm	
	Nett Mass of cable	5358.2kg/km	
DRUM DETAILS			
	Standard length	300m	
	Outer drum height / width	1500/1066mm	
	Gross Mass per drum	1997kg	
	Material	Heated Treated wooden Drum	
INSTALLATION			
	Maximum Force (Pulling Eye)	6.3kN	
	Maximum Force (Pulling sock)	2.01kN	
	Minimum Bending Radius	559mm	
	Conductor inductance	0.307mH/km	

ELECTRICAL DATA	Inductance Reactance	0.096Ω/km	
	Impedance/phase	0.541Ω/km	
	Capacitance	485n/F	
	Charging current	0.97A/km	
	Ground current Rating	154A	
	Single way Duct current Rating	131A	
	Air Current Rating (in Shade)	162A	
	Air current rating (in Direct sunlight)	119A	
	Losses Calculated at 154A. <ul style="list-style-type: none"> • Conductor losses • Dielectric Losses • Armour/Sheath Losses 	12631W/ph/km 61.438W/ph/km 69.96W/ph/km	
	Inter-layer Temperature at 154 A. <ul style="list-style-type: none"> • Conductor • Armour • Serving 	69.96°C 59°C 55.89°C	
	Zero Sequence impedance/phase <ul style="list-style-type: none"> • Positive and Negative sequence impedance/phase 	2.1417 +j0.0458Ω/km 0.5326 +j0.096Ω/km	
	<ul style="list-style-type: none"> • Shunt Susceptance 	152 μS/km	

MINIMUM TENDER REQUIREMENTS:

ALL TECHNICAL SCHEDULES MUST BE FILLED IN OR COMPLETED IN FULL AND ALL DOCUMENTATION MUST BE ATTACHED AS REQUIRED. FAILURE TO DO SO MAY INVALIDATE THE TENDER.

SCHEDULE D – QUALITY MANAGEMENT SYSTEM

QUALITY ASSURANCE

A quality management system shall be set up in order to assure the quality of the Cables during Design, Development, Production, Installation and Servicing. Guidance on the requirements for a quality management system may be found in the following standards: SANS 9000, SANS 9001 and SANS 9002.

NAME OF TENDERER: _____

DATE: _____

SIGNED: _____

NAME OF SIGNATORY: _____

SCHEDULE E: DIVERGENCES FROM CONTRACTUAL AND TECHNICAL SPECIFICATIONS

1. Contractual Divergences:

If the tender does not comply contractually with the specification or with the Council's General Conditions of Contract, Standard Conditions of Tender (Goods/Services) and general Conditions of Contract attached, in any respect, such divergence's shall be detailed below in addition to any other reference thereto contained elsewhere in the tender or accompanying letter.

2. Technical Divergences:

If the technical specification of the Cables offered does NOT comply with this specification or with the relevant Standard Specification referred to by the specification, in any respect, such divergence/s shall be reflected below in addition to any other reference thereto contained elsewhere in the tender or accompanying letter.

NAME OF TENDERER: _____

DATE: _____

SIGNED: _____

NAME OF SIGNATORY: _____

SCHEDULE F: SIMILAR PRODUCTS SUPPLIED BY THE TENDERER

This Schedule shall be completed in full and signed and returned with the tender document.

The tenderer must insert in the spaces provided below, a list of similar cable products supplied during the past three (3) years.

CUSTOMER NAME	TYPE OF CABLES	QUANTITY SUPPLIED	YEAR SUPPLIED

NAME OF TENDERER: _____

DATE: _____

SIGNED: _____

NAME OF SIGNATORY: _____

SCHEDULE G: PLACE OF MANUFACTURE, TESTING AND INSPECTION

This schedule shall be completed in full and signed and returned with the tender document.

ITEM NO.	DESCRIPTION OF CABLES	MANUFACTURER	PLACE OF MANUFACTURE	PLACE OF TESTING	PLACE OF INSPECTION

NAME OF TENDERER: _____

DATE: _____

SIGNED: _____

NAME OF SIGNATORY: _____

SCHEDULE H: DELIVERY SCHEDULE

ITEM	ITEM DESCRIPTION	RAY NKONYENI MUNICIPALITY'S PREFERRED REQUIREMENTS	BIDDERS OFFERED DELIVERY DATES/TIMELINES
C.1	Cu 16mm ² 2-core ECC Cable	Within 4 weeks	
C.2	Cu 16mm ² 4-core ECC Cable	Within 4 weeks	
C.3	Cu 6mm ² 2-core ECC Cable	Within 4 weeks	
C.4	Cu 35mm ² 4-core ECC Cable	Within 4 weeks	
C.5	Cu 70mm ² 4-core ECC Cable	Within 4 weeks	
C.6	Cu 95mm ² 3-core PILC Cable	Within 4 weeks	
C.7	Cu 25mm ² 3-core XLPE Cable	Within 4 weeks	
C.8	Cu 70mm ² 3-core XLPE Cable	Within 4 weeks	
C.9	Cu 2.5mm ² 2-core ECC Cable	Within 4 weeks	
C.10	Cu 150mm ² 3-core PILC Cable	Within 4 weeks	
C.11	Al 50mm ² 3-core XLPE Cable	Within 4 weeks	
C.12	Al 70mm ² 3-core XLPE Cable	Within 4 weeks	
C.13	Al 185mm ² 3-core XLPE Cable	Within 4 weeks	
C.14	Al 240mm ² 3-core XLPE Cable	Within 4 weeks	
C.15	Al 300mm ² 3-core XLPE Cable	Within 4 weeks	
C.16	Al 400mm ² 3-core PILC Cable	Within 4 weeks	
C.17	Al 50mm ² 3-core PILC Cable	Within 4 weeks	
C.18	Al 300mm ² (61 wire) 3-core PILC Cable	Within 4 weeks	

C.19	Al 150mm ² 3-core PILC Cable	Within 4 weeks	
C.20	Al 95mm ² 3-core XLPE Cable	Within 4 weeks	
C.21	Al 95mm ² 3-core PILC Cable	Within 4 weeks	
C.22	Al 70mm ² 3-core PILC Cable	Within 4 weeks	

NAME OF TENDERER: _____

DATE: _____

SIGNED: _____

NAME OF SIGNATORY: _____

SCHEDULE I: HEALTH, SAFETY, AND ENVIRONMENTAL ISSUES

REFERENCE	ISSUES	ITEMS C1 – C22
1	List of all materials used in the product	
2	a) Does the product pose any health risks to persons handling the product?	*YES/NO
	b) If YES, state the type of protective gear required to handle the product (e.g. leather gloves, masks, etc.)	
3.	a) How should the product be stored	
	b) What is a shelf life?	
4.	a) Are any toxic by-products (gaseous, solid or liquid) in the event of the product being exposed to fire or heated?	*YES/NO
	b) If YES, specify the temperature at which these toxic by-products are produced	
5.	c) What percentage of the product can be recycle?	
6.	d) State any other pertinent and relevant information relating to health, safety and environment issues.	

NAME OF TENDERER: _____

DATE: _____

SIGNED: _____

NAME OF SIGNATORY: _____

**PRICING SCHEDULE – NON-FIRM PRICES
(PURCHASES)**

NOTE: PRICE ADJUSTMENTS WILL BE ALLOWED AT THE PERIODS AND TIMES SPECIFIED IN THE BIDDING DOCUMENTS.

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of Bidder.....	Bid number.....
Closing Time: 12h00	Closing Date: 6 May 2022

- OFFER TO BE VALID FOR...120.....DAYS FROM THE CLOSING DATE OF BID.
- ESCALATION WILL BE MADE ANNUALLY BASED ON THE AVERAGE CPI OF EACH COMPLETED YEAR OF THE TENDER AWARDED

**PANEL FOR SUPPLY, DELIVERY AND OFF-LOADING OF LV/MV ELECTRICAL CABLES TO
RAY NKONYENI MUNICIPALITY FOR A THREE-YEAR PERIOD – RATES ONLY**

ITEM	DESCRIPTION/SPECIFICATION	QTY (In meters)	BID PRICE IN RSA CURRENCY (INCLUDING 15% VAT)	
1	Cu 16mm ² x 2 core ECC Cable (Drum) <i>As per C.1 technical specifications</i>	500 m	R	
2	Cu 16mm ² x 4 core ECC Cable (Drum) <i>As per C.2 technical specifications</i>	500 m	R	
3	Cu 6mm ² x 2 core ECC Cable (Drum) <i>As per C.3 technical specifications</i>	500 m	R	
4	Cu 35mm ² x 4 core ECC Cable (Drum) <i>As per C.4 technical specifications</i>	300 m	R	
5	Cu 70mm ² x 4 core ECC Cable (Drum) <i>As per C.5 technical specifications</i>	300 m	R	
6	Cu 95mm ² x 3 core PILC Cable (Drum) <i>As per C.6 technical specifications</i>	300 m	R	
7	Cu 25mm ² x 3 core XLPE Cable (Drum) <i>As per C.7 technical specifications</i>	300 m	R	

8	Cu 70mm ² x 3 core XLPE Cable (Drum) <i>As per C.8 technical specifications</i>	300 m	R	
9	Cu 2.5mm ² x 2 core ECC Cable (Drum) <i>As per C.9 technical specifications</i>	500 m	R	
10	Cu 150mm ² x 3 core PILC Cable (Drum) <i>As per C.10 technical specifications</i>	300 m	R	
11	Al 50mm ² x 3 core XLPE Cable (Drum) <i>As per C.11 technical specifications</i>	300 m	R	
12	Al 70mm ² x 3 core XLPE Cable (Drum) <i>As per C.12 technical specifications</i>	300 m	R	
13	Al 185mm ² x 3 core XLPE Cable (Drum) <i>As per C.13 technical specifications</i>	300 m	R	
14	Al 240mm ² x 3 core XLPE Cable (Drum) <i>As per C.14 technical specifications</i>	300 m	R	
15	Al 300mm ² x 3 core XLPE Cable (Drum) <i>As per C.15 technical specifications</i>	300 m	R	
16	Al 400mm ² x 3 core PILC Cable (Drum) <i>As per C.16 technical specifications</i>	300 m	R	
17	Al 50mm ² x 3 core PILC Cable (Drum) <i>As per C.17 technical specifications</i>	300 m	R	
18	Al 300mm ² x 3 core PILC Cable (Drum) <i>As per C.18 technical specifications</i>	300 m	R	
19	Al 150mm ² x 3 core PILC Cable (Drum) <i>As per C.19 technical specifications</i>	300 m	R	
20	Al 95mm ² x 3 core XLPE Cable (Drum) <i>As per C.20 technical specifications</i>	300 m	R	
21	Al 95mm ² x 3 core PILC Cable (Drum) <i>As per C.21 technical specifications</i>	300 m	R	
22	Al 70mm ² x 3 core PILC Cable (Drum) <i>As per C.22 technical specifications</i>	300 m	R	

Required by:

23	LV insulated aerial bundle conductor (ABC) insulated neutral: (LV insulated aerial bundle conductor in accordance with SABS 1418 and insulated in accordance with SABS 0198)			
	<ul style="list-style-type: none"> 3-phase ABC conductor 35 mm² 4 core (Drum) 	1000 m	R	
	<ul style="list-style-type: none"> Dual phase ABC conductor 35 mm² (Drum) 	1000 m	R	
	<ul style="list-style-type: none"> (Drum)3-phase ABC conductor 70mm² (Drum) 	1000 m	R	
24	Training on Installations, Maintenance and Cable Jointing of Supplied LV/MV Electrical Cables	Unit	R	

At:

- Brand and model
- Country of origin
- Does the offer comply with the specification(s)? *YES/NO
- If not to specification, indicate deviation(s)
- Period required for delivery
- Delivery: *Firm/Not firm

** "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

*Delete if not applicable

PRICE ADJUSTMENTS

A NON-FIRM PRICES SUBJECT TO ESCALATION

1. IN CASES OF PERIOD CONTRACTS, NON-FIRM PRICES WILL BE ADJUSTED (LOADED) WITH THE ASSESSED CONTRACT PRICE ADJUSTMENTS IMPLICIT IN NON-FIRM PRICES WHEN CALCULATING THE COMPARATIVE PRICES
2. IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF THE FOLLOWING FORMULA:

$$Pa = (1 - V)Pt \left(D1 \frac{R1t}{R1o} + D2 \frac{R2t}{R2o} + D3 \frac{R3t}{R3o} + D4 \frac{R4t}{R4o} \right) + VPt$$

Where:

- Pa = The new escalated price to be calculated.
- (1-V) Pt = 85% of the original bid price. **Note that Pt must always be the original bid price and not an escalated price.**
- D1, D2. = Each factor of the bid price e.g., labour, transport, clothing, footwear, etc. The total of the various factors D1, D2...etc. must add up to 100%.
- R1t, R2t..... = Index figure obtained from new index (depends on the number of factors used).
- R1o, R2o = Index figure at time of bidding.
- VPt = 15% of the original bid price. This portion of the bid price remains firm i.e., it is not subject to any price escalations.

3. The following index/indices must be used to calculate your bid price:

Index..... Dated..... Index..... Dated..... Index..... Dated.....
 Index..... Dated..... Index..... Dated..... Index..... Dated.....

4. FURNISH A BREAKDOWN OF YOUR PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

FACTOR (D1, D2 etc. e.g., Labour, transport etc.)	PERCENTAGE OF BID PRICE

B PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS

1. Please furnish full particulars of your financial institution, state the currencies used in the conversion of the prices of the items to South African currency, which portion of the price is subject to rate of exchange variations and the amounts remitted abroad.

PARTICULARS OF FINANCIAL INSTITUTION	ITEM NO	PRICE	CURRENCY	RATE	PORTION OF PRICE SUBJECT TO ROE	AMOUNT IN FOREIGN CURRENCY REMITTED ABROAD
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		

2. Adjustments for rate of exchange variations during the contract period will be calculated by using the average monthly exchange rates as issued by your commercial bank for the periods indicated hereunder: (Proof from bank required)

AVERAGE MONTHLY EXCHANGE RATES FOR THE PERIOD:	DATE DOCUMENTATION MUST BE SUBMITTED TO THIS OFFICE	DATE FROM WHICH NEW CALCULATED PRICES WILL BECOME EFFECTIVE	DATE UNTIL WHICH NEW CALCULATED PRICE WILL BE EFFECTIVE

DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state¹.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their positioning relation to the evaluating/adjudicating authority.
- 3 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

- 3.1 Full Name of bidder or his or her representative:.....
- 3.2 Identity Number:
- 3.3 Position occupied in the Company (director, trustee, shareholder²):.....
- 3.4 Company Registration Number:
- 3.5 Tax Reference Number:
- 3.6 VAT Registration Number:
- 3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
- 3.8 Are you presently in the service of the state? **YES / NO**
- 3.8.1 If yes, furnish particulars.

¹MSCM Regulations: "in the service of the state" means to be –

- (a) a member of –
 - (i) any municipal council;
 - (ii) any provincial legislature; or
 - (iii) the national Assembly or the national Council of provinces;
- (b) a member of the board of directors of any municipal entity;
- (c) an official of any municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
- (e) a member of the accounting authority of any national or provincial public entity; or
- (f) an employee of Parliament or a provincial legislature.

² Shareholder" means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

3.9 Have you been in the service of the state for the past twelve months? **YES / NO**

3.9.1 If yes, furnish particulars.....

.....

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

3.10.1 If yes, furnish particulars.

.....
.....

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

3.11.1 If yes, furnish particulars

.....
.....

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.12.1 If yes, furnish particulars.

.....
.....

3.13 Are any spouse, child, or parent of the company's directors trustees, managers, principal shareholders, or stakeholders in service of the state? **YES / NO**

3.13.1 If yes, furnish particulars.

.....
.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract. **YES / NO**

3.14.1 If yes, furnish particulars:

.....
.....

4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	State Employee Number

CERTIFICATION

I, _____ THE UNDERSIGNED CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT.

ACCEPT THAT THE COUNCIL MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Capacity

.....
Name of Bidder

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2

- a) The value of this bid is estimated to exceed/not exceed R50 000 000 (all applicable taxes included) and therefore the **..80/20** preference point system shall be applicable; or
- b) Either the 80/20 or 90/10 preference point system will be applicable to this tender (*delete whichever is not applicable for this tender*).

1.3 Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE must not exceed	100

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- (a) “**B-BBEE**” means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) “**B-BBEE status level of contributor**” means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) “**bid**” means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) “**Broad-Based Black Economic Empowerment Act**” means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) “**EME**” means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) “**functionality**” means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) “**prices**” includes all applicable taxes less all unconditional discounts;
- (h) “**proof of B-BBEE status level of contributor**” means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) “**QSE**” means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

80/20 **or** **90/10**

Where

- P_s = Points scored for price of bid under consideration
- P_t = Price of bid under consideration
- P_{min} = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

A bid will not be disqualified from the bidding process if the bidder does not submit a certificate substantiating the B-BBEE status level of contribution or is a non-compliant contributor. Such a bidder will score zero (0) out of a maximum of 20 points respectively for B-BBEE.

5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: . =(maximum of 10 or 20 points)
 (Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

7.1 Will any portion of the contract be sub-contracted?
 (*Tick applicable box*)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE
 (*Tick applicable box*)

YES		NO	
-----	--	----	--

v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations,2017:

Designated Group: An EME or QSE which is at last 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8. **DECLARATION WITH REGARD TO COMPANY/FIRM**

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....

8.4 TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

.....

8.6 COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

8.7 Total number of years the company/firm has been in business:.....

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in

paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- ii) The information furnished is true and correct;
- iii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iv) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- v) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution.

WITNESSES
1.
2.

.....
SIGNATURE(S) OF BIDDERS(S)
DATE:
ADDRESS
.....
.....

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Municipal Bidding Document (MBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.

1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;

2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

<u>Description of Cable Products</u>	<u>Stipulated minimum threshold</u>
<u>Low Voltage cables</u>	<u>90%</u>
<u>Low-Cost Reticulation</u>	<u>90%</u>
<u>Medium and High Voltage cables</u>	<u>90%</u>

3. Does any portion of the goods or services offered have any imported content?
(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

3. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION
(REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP, OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Institution):

NB

- 1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thdti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),
 do hereby declare, in my capacity as
 of(name of bidder
 entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
 - (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content(x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

- (d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____ **DATE:** _____

WITNESS No. 1 **DATE:** _____

WITNESS No. 2 **DATE:** _____

DECLARATION OF BIDDER’S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - a. abused the municipality’s / municipal entity’s supply chain management system or committed any improper conduct in relation to such system;
 - b. been convicted for fraud or corruption during the past five years;
 - c. willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - d. been listed in the Register for Bid Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

Item	Question	Yes	No
4.1	<p>Is the bidder or any of its directors listed on the National Treasury’s Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?</p> <p>(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).</p> <p>The Database of Restricted Suppliers now resides on the National Treasury’s website(www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.</p>	<p>Yes</p> <input type="checkbox"/>	<p>No</p> <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	<p>Is the bidder or any of its directors listed on the Register for Bid Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?</p> <p>The Register for Bid Defaulters can be accessed on the National Treasury’s website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.</p>	<p>Yes</p> <input type="checkbox"/>	<p>No</p> <input type="checkbox"/>
4.2.1	If so, furnish particulars:		

4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.7.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

CERTIFICATE OF INDEPENDENT BID DETERMINATION

1. This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
3. Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - (a) take all reasonable steps to prevent such abuse;
 - (b) reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - (c) cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
4. This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination (MBD9) must be completed and submitted with the bid:

¹Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:
(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder.
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation);

- (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
 9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
 10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No. 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No. 12 of 2004 or any other applicable legislation.

SIGNATURE

DATE

POSITION

NAME OF BIDDER

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1)	Tender No.	<input style="width: 95%;" type="text"/>
(E2)	Tender description:	<input style="width: 95%;" type="text"/>
(E3)	Designated products:	<input style="width: 95%;" type="text"/>
(E4)	Tender Authority:	<input style="width: 95%;" type="text"/>
(E5)	Tendering Entity name:	<input style="width: 95%;" type="text"/>

Note: VAT to be excluded from all calculations

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
(E9) Total local products (Goods, Services and Works)			R 0

(E10)	Manpower costs (Tenderer's manpower cost)	<input style="width: 95%;" type="text"/>	R 0
(E11)	Factory overheads (Rental, depreciation & amortisation, utility costs, consumables etc.)	<input style="width: 95%;" type="text"/>	R 0
(E12)	Administration overheads and mark-up (Marketing, insurance, financing, interest etc.)	<input style="width: 95%;" type="text"/>	R 0
(E13) Total local content			<input style="width: 95%;" type="text"/> R 0

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____

