

TENDER DOCUMENT GOODS AND SERVICES		 CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD
SUPPLY CHAIN MANAGEMENT		
SCM - 542	Approved by Branch Manager: February 2024	Version: 10

TENDER NO: 300G/2024/25

TENDER DESCRIPTION: SUPPLY AND DELIVERY OF HIGH VOLTAGE STRAIGHT JOINTS AND SPARE MATERIALS

CONTRACT PERIOD: 36 MONTHS FROM THE COMMENCEMENT DATE OF THE CONTRACT

CLOSING DATE **10 July 2025**

CLOSING TIME **10:00 am**

TENDER BOX NUMBER **220**

TENDER FEE **R200.00**

Non – refundable tender fee payable to the City of Cape Town (CCT) for a hard copy of the tender document. This fee is not applicable to website downloads of the tender document.

TENDERER	
NAME of Company/Close Corporation or Partnership / Joint Venture/ Consortium or Sole Proprietor /Individual (hereinafter the "Tenderer")	
TRADING AS (if different from above)	
Registration number of Tenderer	
Physical address and chosen domicilium citandi et executandi of Tenderer	

NATURE OF TENDER OFFER (please indicate below)	
Main Offer (see clause 2.2.11.1)	
Alternative Offer (see clause 2.2.11.1)	

TENDER SERIAL NO.:
SIGNATURES OF CCT OFFICIALS AT TENDER OPENING
1
2
3

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THE TENDER

T.1 GENERAL TENDER INFORMATION

TENDER ADVERTISED : **6 June 2025**

SITE VISIT/CLARIFICATION MEETING : Time: **11:00** on Date: **18 June 2025**
(Not compulsory, but strongly recommended)

VENUE FOR SITE VISIT/CLARIFICATION MEETING: **Microsoft Teams**

[Join the meeting now](#)

Meeting ID: 357 207 467 059 8

Passcode: Ja7fE3pN

https://teams.microsoft.com/l/meetup-join/19%3ameeting_NjY0MDk4MGYtMzQxYy00ZTkYLTg4NzltY2QzY2E0YmQ1MGUy%40thread.v2/0?context=%7b%22Tid%22%3a%22ff731495-b3c8-44b3-93f8-6fca8fc5a699%22%2c%22Oid%22%3a%22b90b0c58-2b38-42db-828f-c9183f09ac1e%22%7d

TENDER BOX & ADDRESS :

Tender Box as per front cover at the **Tender & Quotation Boxes Office**, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town.

:

The Tender Document (which includes the Form of Offer and Acceptance) completed and signed in all respects, plus any additional supporting documents required, must be submitted in a sealed envelope with the name and address of the tenderer, the endorsement **“TENDER NO. 300G/2024/25: SUPPLY AND DELIVERY OF HIGH VOLTAGE STRAIGHT JOINTS AND SPARE MATERIALS”**, the tender box number. and the closing date indicated on the envelope. The sealed envelope must be inserted into the appropriate official tender box before closing time.

If the tender offer is too large to fit into the abovementioned box or the box is full, please enquire at the public counter (Tender Distribution Office) for alternative instructions. It remains the tenderer’s responsibility to ensure that the tender is placed in either the original box or as alternatively instructed.

CCT TENDER REPRESENTATIVE : Email: **SCM.Tenders23@capetown.gov.za**

TENDERERS MUST NOTE THAT WHEREVER THIS DOCUMENT REFERS TO ANY PARTICULAR TRADE MARK, NAME, PATENT, DESIGN, TYPE, SPECIFIC ORIGIN OR PRODUCER, SUCH REFERENCE SHALL BE DEEMED TO BE ACCOMPANIED BY THE WORDS “OR EQUIVALENT”

T.2 CONDITIONS OF TENDER

2.1 General

2.1.1 Actions

2.1.1.1 The City of Cape Town (hereafter referred to as the "CCT") and each tenderer submitting a tender offer (hereinafter referred to as the "tenderer" or the "supplier") shall comply with item T.2 of this Tender Document Goods and Services (hereinafter referred to as these "Conditions of Tender"). The tenderer and the CCT shall collectively hereinafter be referred to as the "Parties" and individually a "Party"). In their dealings with each other, the Parties shall discharge their duties and obligations as set out in these Conditions of Tender, timeously and with integrity, and behave equitably, honestly and transparently, and shall comply with all legal obligations imposed on the Parties herein and in accordance with all applicable laws.

The Parties agree that this tender Tender Document Goods and Services (hereinafter referred to as the "Tender" / "Tender Document"), its evaluation and acceptance and any resulting contract shall also be subject to the CCT's Supply Chain Management Policy ('SCM Policy') that was applicable on the date the bid was advertised and as amended from time to time. If the CCT adopts a new SCM Policy which contemplates that any clause therein would apply to the Contract emanating from this tender (hereinafter referred to as the "Contract"), such clause shall also be applicable to that Contract. Please refer to this document contained on the CCT's website.

Abuse of the supply chain management system is not permitted and may result, inter alia, (1) in the tender being rejected; (2) cancellation of the contract; (3) restriction of the supplier, and/or (4) the exercise by the CCT of any other remedies available to it as provided for in the SCM Policy and/or the the Contract and/or this tender and/or any applicable laws .

2.1.1.2 The CCT, the tenderer and their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the CCT shall declare any conflict of interest to the CCT at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict, and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

2.1.1.3 The CCT shall not seek, and a tenderer shall not submit a tender, without having a firm intention and capacity to proceed with the contract.

2.1.2 Interpretation

2.1.2.1 The additional requirements contained in Annexure F to the contract (hereinafter referred to as the "returnable documents" / "Returnable Schedules") are part of these Conditions of Tender and are specifically hereby incorporated into these Conditions of Tender.

2.1.2.2 These Conditions of Tender and returnable Documents which are required for CCT's tender evaluation purposes herein, shall form part of the Contract arising from the CCT's corresponding invitation to tender.

2.1.3 Communication during tender process

Verbal or any other form of communication, from the CCT, its employees, agents or advisors during site visits/clarification meetings or at any other time prior to the award of the Contract, will not be regarded as binding on the CCT, unless communicated by the CCT in writing to suppliers / tenderers by its Director: Supply Chain Management or his nominee. Similarly, any communication of the tenderer / supplier that is not reduced to writing by the tenderer / supplier, its employees, agents or advisors, shall not be regarded as binding on the CCT, unless communicated to the CCT in writing by the suppliers / tenderers, or their duly authorised representatives.

2.1.4 The CCT's right to accept or reject any tender offer

2.1.4.1 The CCT may accept or reject any tender offer and may cancel the corresponding tender process or reject all tender offers at any time before the formation of a contract. The CCT may, prior to the award of the tender, cancel a tender if:

- (a) due to changed circumstances, there is no longer a need for the services, works or goods requested;
or
- (b) funds are no longer available to cover the total envisaged expenditure; or
- (c) no acceptable tenders are received;
- (d) there is a material irregularity in the tender process; or
- (e) the Parties are unable to negotiate market related pricing.

The CCT shall not accept or incur any liability to a tenderer for such cancellation or rejection, but will give written reasons for such action upon receiving a written request to do so.

2.1.5 Procurement procedures

2.1.5.1 General

Unless otherwise stated in the Conditions of Tender, a contract will be concluded with the tenderer who scores the highest number of tender adjudication points.

The CCT intends to appoint two tenderers on a "winner-takes-all" basis (the highest ranked tenderer ("the winner") and in addition an "alternative tenderer") for the allocation of work. If insufficient responsive bids are received, the CCT reserves the right to appoint fewer tenderers, or not to appoint any tenderers at all.

Suppliers, once appointed and subject to operational requirements, will be invited to deliver the goods or services on a "winner-takes-all" basis, whereby the order will always be offered and, if accepted, allocated to the highest ranked tenderer ("the winner"), and only if he refuses will the work be offered to the next highest ranked tenderer from the alternative tenderers).

The contract period shall be for a period of **36** months from the commencement date of the contract.

2.1.5.2 Proposal procedure using the two stage-system

A two-stage system will not be followed.

2.1.5.3 Nomination of Standby Bidder

"Standby Bidder" means a bidder, identified by the CCT at the time of awarding a bid that will be considered for award should the contract be terminated for any reason whatsoever. In the event that a contract is terminated during the execution thereof, the CCT may consider the award of the contract, or non-award, to the Standby Bidder in terms of the procedures included its SCM Policy, as amended from time to time.

2.1.6 Objections, complaints, queries and disputes/ Appeals in terms of Section 62 of the Systems Act/ Access to court

2.1.6.1 Disputes, objections, complaints and queries

In terms of Regulations 49 and 50 of the Local Government: Municipal Finance Management Act, 56 of 2003 Municipal Supply Chain Management Regulations (Board Notice 868 of 2005):

- a) Persons aggrieved by decisions or actions taken by the CCT in the implementation of its supply chain management system, may lodge within 14 days of the decision or action, a written objection or complaint or query or dispute against the decision or action.

2.1.6.2 Appeals

- a) In terms of Section 62 of the Local Government: Municipal Systems Act, 32 of 2000 a person whose rights are affected by a decision taken by the CCT, may appeal against that decision by giving written

notice of the appeal and reasons to the City Manager within 21 days of the date of the notification of the decision.

- b) An appeal must contain the following:
- i. Must be in writing
 - ii. It must set out the reasons for the appeal
 - iii. It must state in which way the Appellant's rights were affected by the decision;
 - iv. It must state the remedy sought; and
 - v. It must be accompanied with a copy of the notification advising the person of the decision
- c) The relevant CCT appeal authority must consider the appeal and **may confirm, vary or revoke** the decision that has been appealed, but no such revocation of a decision may detract from any rights that may have accrued as a result of the decision.

2.1.6.3 Right to approach the courts and rights in terms of Promotion of Administrative Justice Act, 3 of 2000 and Promotion of Access to Information Act, 2 of 2000

The sub- clauses above do not influence any affected person's rights to approach the High Court at any time or its rights in terms of the Promotion of Administrative Justice Act (PAJA) and Promotion of Access to Information Act (PAIA).

2.1.6.4 All requests referring to sub clauses 2.1.6.1 and 2.1.6.2 must be submitted in writing to:

The City Manager - C/o the Manager: Legal Compliance Unit, Legal Services Department, Office of the City Manager

Via hand delivery at: 20th Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001

Via post at: Private Bag X918, Cape Town, 8000

Via email at: MSA.Appeals@capetown.gov.za

2.1.6.5 All requests referring to clause 2.1.6.3 must be submitted in writing to:

The City Manager - C/o the Manager: Access to Information Unit, Legal Service Department, Office of the City Manager

Via hand delivery at: 20th Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001

Via post at: Private Bag X918, Cape Town, 8000

Via email at: Access2info.Act@capetown.gov.za

2.1.6.6 The minimum standards regarding accessing and 'processing' of any personal information belonging to another in terms of Protection of Personal Information Act, 2013 (POPIA).

For purposes of this clause 2.1.6.6, the contract and these Conditions of Tender, the terms "data subject", "Personal Information" and "Processing" shall have the meaning as set out in section 1 of POPIA, and "Process" shall have the corresponding meaning.

The CCT, its employees, representatives and sub-contractors may, from time to time, Process the tenderer's and/or its employees', representatives' and/or sub-contractors' Personal Information, for purposes of, and/or relating to, the tender, the contract and these Conditions of Tender, for research purposes, and/or as otherwise may be envisaged in the CCT's Privacy Notice and/or in relation to the CCT's Supply Chain Management Policy or as may be otherwise permitted by law. This includes the Processing of the latter Personal Information by the CCT's due diligence assurance provider, professional advisors and the Appeal Authority as applicable. The CCT's justification for the processing of such aforesaid Personal Information is based on section 11(1)(b) of POPIA, i.e., in terms of which the CCT's Processing of the said Personal Information is necessary to carry out actions for the conclusion and/or performance of the contract, to which the applicable data subject (envisaged in this clause 2.1.6.6 above) is a party.

All requests relating to data protection must be submitted in writing to:

The City Manager - C/o the Information Officer, Office of the City Manager

Via hand delivery at: 20th Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001

Via post at: Private Bag X9181, Cape Town, 8000

Via email at: Popia@capetown.gov.za.

2.1.6.7 Compliance to the CCTs Appeals Policy.

In terms of the CCT's Appeals Policy, a fixed upfront administration fee will be charged. In addition, a surcharge may be imposed for vexatious and frivolous or otherwise manifestly inappropriate tender related appeals.

The current approved administration fee is R300.00 and may be paid at any of the Municipal Offices or at the Civic Centre in Cape Town using the GL Data Capture Receipt attached as

Annexure F.13: Appeal Application Form. Alternatively, via EFT into the CCT's NEDBANK Account: CITY OF CAPE TOWN and using Reference number: 198158966. You are required to send proof of payment when lodging your appeal.

The current surcharge for vexatious and frivolous or otherwise manifestly inappropriate tender related appeals will be calculated as $\frac{1}{2}$ (Administrative cost of the tender appeal) + 0.25 % (Appellant's tender price).

Should the payment of the administration fee of R300.00 or the surcharge not be received, such fee or surcharge will be added as a Sundry Tariff to the bidder's municipal account.

In the event where the bidder does not have a Municipal account with the CCT, the fee or surcharge may be recovered in terms of the CCT's Credit Control and Debt Collection By-law, 2006 (as amended) and its Credit Control and Debt Collection Policy.

2.1.7 CCT Supplier Database Registration

Tenderers are required to be registered on the CCT Supplier Database as a service provider. Tenderers must register as such upon being requested to do so in writing and within the period contained in such a request, failing which no orders can be raised or payments processed from the resulting contract. In the case of Joint Venture partnerships this requirement will apply individually to each party of the Joint Venture.

Tenderers who wish to register on the CCT's Supplier Database may collect registration forms from the Supplier Management Unit located within the Supplier Management / Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5). Registration forms and related information are also available on the CCT's website www.capetown.gov.za (follow the Supply Chain Management link to Supplier registration).

It is each tenderer's responsibility to keep all the information on the CCT Supplier Database updated.

2.1.8 National Treasury Web Based Central Supplier Database (CSD) Registration

Tenderers are required to be registered on the National Treasury Web Based Central Supplier Database (CSD) as a service provider. Tenderers must register as such upon being requested to do so in writing and within the period contained in such a request, failing which no orders can be raised or payments processed from the resulting contract. In the case of Joint Venture partnerships this requirement will apply individually to each party of the Joint Venture.

Tenderers who wish to register on the National Treasury Web Based Central Supplier Database (CSD) may do so via the web address <https://secure.csd.gov.za>.

It is each tenderer's responsibility to keep all the information on the National Treasury Web Based Central Supplier Database (CSD) updated.

2.2 Tenderer's obligations

2.2.1 Eligibility Criteria

2.2.1.1 Tenderers are obligated to submit a tender offer that complies in all aspects to the conditions as detailed in this tender document and the Conditions of Tender. An 'acceptable tender must "COMPLY IN ALL" aspects with the tender, Conditions of Tender, all Specifications (i.e., item C.5 below, hereinafter the "Specifications"), pricing instructions herein and the Contract including its conditions.

2.2.1.1.1 Submit a tender offer

Only those tender submissions from which it can be established, *inter alia* that a clear, irrevocable and unambiguous offer has been made to CCT, by whom the offer has been made and what the offer constitutes, will be declared responsive.

2.2.1.1.2 Compliance with requirements of CCT SCM Policy and procedures

Only those tenders that are compliant with the requirements below will be declared responsive:

- a) A completed **Details of Tenderer** to be provided (applicable schedule below to be completed);
- b) A completed **Certificate of Authority for Partnerships/ Joint Ventures/ Consortiums** to be provided authorising the tender to be made and the signatory to sign the tender on the partnership /joint venture/consortium's (applicable schedule below to be completed);
- c) A copy of the partnership / joint venture / consortium agreement to be provided, where applicable.
- d) A completed **Declaration of Interest – State Employees** to be provided and which does not indicate any non-compliance with the legal requirements relating to state employees (applicable schedule below to be completed);
- e) A completed **Declaration – Conflict of Interest and Declaration of Bidders' past Supply Chain Management Practices** to be provided and which does not indicate any conflict or past practises that renders the tender non-responsive based on the conditions contained thereon (applicable schedules below to be completed);
- f) A completed **Certificate of Independent Bid Determination** to be provided and which does not indicate any non-compliance with the requirements of the schedule (applicable schedule below to be completed);
- g) The tenderer (including any of its representatives, directors or members), has not been restricted in terms of abuse of the Supply Chain Management Policy,
- h) The tenderer's tax matters with SARS are in order, or the tenderer is a foreign supplier that is not required to be registered for tax compliance with SARS;
- i) The tenderer is not an advisor or consultant contracted with the CCT whose prior or current obligations creates any conflict of interest or unfair advantage;
- j) The tenderer is not a person, advisor, corporate entity or a director of such corporate entity, who is directly or indirectly involved or associated with the bid specification committee;
- k) A completed **Authorisation for the Deduction of Outstanding Amounts Owed to the CCT** to be provided and which does not indicate any details that renders the tender non-responsive based on the conditions contained thereon (applicable schedules below to be completed);
- l) The tenderer (including any of its representatives, directors or members), has not been found guilty of contravening the Competition Act 89 of 1998, as amended from time to time;
- m) The tenderer (including any of its representatives, directors or members), has not been found guilty on any other basis listed in the Supply Chain Management Policy.

2.2.1.1.3 Compulsory clarification meeting

Not applicable.

2.2.1.1.4 Minimum score for functionality

Not applicable.

2.2.1.1.5 Responsive criteria

Only those tenders that are compliant with the submission requirements below will be declared responsive (refer to Schedule F.13).

- a) Proof of accreditation from the OEM (Original Equipment Manufacturer) that the tenderer is an accredited distributor of the products offered in Schedule F.13 (a). Proof in the form of letters from the OEM must be submitted with the tender submission or on request during evaluation of this tender.
- b) Schedule of type tests completed for each item of equipment listed in Schedule F.13 (b). Proof of all type test certificates must be attached to Schedule F.13 (b) or on request during evaluation of this tender.
- c) Returnable Technical Schedules for cables, joints and terminations (Schedule F.13 (c)) are to be completed and returned with the submission of the tender offer or on request during evaluation of this tender.
- d) For the purpose of evaluation tenderers must submit a set of jointing instructions and technical details (assembly drawings) for each joint kit tendered with the tender offer. Failure to provide within 5 working days of written request will render the offer non-responsive.

2.2.1.1.7 Provision of samples

Samples of various items, such as paper tapes, may be requested from responsive tenderers for the purpose of tender evaluation. Samples must be delivered to CCT at the tenderer's cost. CCT reserves the right to keep certain samples.

Should the tenderer require the samples to be returned, this will be for the tenderer's own cost.

2.2.2 Cost of tendering

The CCT will not be liable for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.

2.2.3 Check documents

The documents issued by the CCT for the purpose of a tender offer are listed in the index of this tender document.

Before submission of any tender, the tenderer should check the number of pages, and if any are found to be missing or duplicated, or the figures or writing is indistinct, or if the Price Schedule contains any obvious errors, the tenderer must apply to the CCT at once to have the same rectified.

2.2.4 Confidentiality and copyright of documents

The tenderer shall treat as strictly confidential all matters arising in connection with the tender. Use and copy the documents issued by the CCT only for the purpose of preparing and submitting a tender offer in response to the invitation.

2.2.5 Reference documents

The tenderer shall obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, Conditions of Contract and other publications, which are not attached but which are incorporated into the tender document(s) by reference.

2.2.6 Acknowledge and comply with notices

The tenderer shall acknowledge receipt of notices to the tender documents, which the CCT may issue, and shall fully comply with all instructions issued in the said notices, and if necessary, apply for an extension of the closing time stated on the front page of the tender document, in order to take the notices into account. Notwithstanding any requests for confirmation of receipt of the said notices issued, the tenderer shall be deemed to have received such notices if the CCT can show proof of transmission thereof via electronic mail, facsimile, or registered post or other lawful means.

2.2.7 Clarification meeting

The tenderer shall attend, where required, a clarification meeting at which tenderers may familiarise themselves with aspects of the proposed work, services or supply and pose questions. Details of the meeting(s) are stated in the General Tender Information (i.e., in item T.1 above).

Tenderers should be represented at the site visit/clarification meeting by a duly authorised person who is suitably qualified and experienced to comprehend the implications of the work involved.

2.2.8 Seek clarification

The tenderer shall request clarification of the tender documents, if necessary, by notifying the CCT at least one week before the closing time stated in the General Tender Information (i.e., in item T.1 above), where possible.

2.2.9 Pricing the tender offer

2.2.9.1 The tenderer shall comply with all pricing instructions as stated on the Price Schedule.

2.2.10 Alterations to documents

The tenderer shall not make any alterations or additions to the tender documents, except to comply with instructions issued by the CCT in writing, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.

2.2.11 Alternative tender offers

2.2.11.1 Unless otherwise stated in the Conditions of Tender, the tenderers may submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted.

If a tenderer wishes to submit an alternative tender offer, he/she/it shall do so as a separate offer on a complete set of tender documents. The alternative tender offer shall be submitted in a separate sealed envelope clearly marked "Alternative Tender" in order to distinguish it from the main tender offer.

Only the alternative of the highest ranked acceptable main tender offer (that is, submitted by the same tenderer) will be considered, and if appropriate, recommended for award.

Alternative tender offers of any but the highest ranked main tender offer will not be considered.

An alternative tender offer to the highest ranked acceptable main tender offer that is priced higher than the main tender offer may be recommended for award, provided that the ranking of the alternative tender offer is higher than the ranking of the next ranked acceptable main tender offer.

The CCT will not be bound to consider alternative tenders and shall have sole discretion in this regard.

In the event that the alternative is accepted, the tenderer warrants that the alternative offer complies in all respects with the CCT's standards and requirements as set out in the tender document.

2.2.11.2 Acceptance of an alternative tender offer by the CCT may be based only on the criteria stated in the Conditions of Tender or applicable criteria otherwise acceptable to the CCT.

2.2.12 Submitting a tender offer

- 2.2.12.1** The tenderer is required to submit one tender offer only on the original tender documents as issued by the CCT, either as a single tendering entity or as a member in a joint venture to provide the whole of the works, services or supply identified in the Conditions of Contract and described in the Specifications. Only those tenders submitted on the tender documents as issued by the CCT together with all Tender Returnable Documents duly completed and signed will be declared responsive.
- 2.2.12.2** The tenderer shall return the entire tender document to the CCT after completing it in its entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.
- 2.2.12.3** The tenderer shall sign the original tender offer where required in terms of the Conditions of Tender. The tender shall be signed by a person duly authorised by the tenderer to do so. Tenders submitted by joint ventures of two or more firms shall be accompanied by the document of formation / founding document of the joint venture or any other document signed by all Parties, in which is defined precisely the conditions under which the joint venture will function, its period of duration, the persons authorised to represent and obligate it, the participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner.
- 2.2.12.4** Where a two-envelope system is required in terms of the Conditions of Tender, place and seal the returnable documents listed in the Conditions of Tender in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the CCT's address and identification details stated in the General Tender Information (i.e., item T.1 above), as well as the tenderer's name and contact address.
- 2.2.12.5** The tenderer shall seal the original tender offer and copy packages together in an outer package that states on the outside only the CCT's address and identification details as stated in the General Tender Information. . If it is not possible to submit the original tender and the required copies (see 2.2.12.3) in a single envelope, then the tenderer must seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY" in addition to the aforementioned tender submission details.
- 2.2.12.6** The CCT shall not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.
- 2.2.12.7** Tender offers submitted by facsimile or e-mail will be rejected by the CCT, unless stated otherwise in the Conditions of Tender.
- 2.2.12.8** By signing the offer part of the Form of Offer (**Section 5, Part A hereto**) the tenderer warrants and agrees that all information provided in the tender submission is true and correct.
- 2.2.12.9** Tenderers shall properly deposit its bid in the designated tender box (as detailed on the front page of this tender document) on or before the closing date and before the closing time, in the relevant tender box at the Tender & Quotation Boxes Office situated on the 2nd floor, Concourse Level, Civic Centre, 12 Hertzog Boulevard, Cape Town. If the tender submission is too large to fit in the allocated box, please enquire at the public counter for assistance.
- 2.2.12.10** The tenderer must record and reference all information submitted contained in other documents for example cover letters, brochures, catalogues, etc. in the Returnable Schedule titled **List of Other Documents Attached by Tenderer**.

2.2.13 Information and data to be completed in all respects

Tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the CCT as non-responsive.

2.2.14 Closing time

2.2.14.1 The tenderer shall ensure that the CCT receives the tender offer, together with all applicable documents specified herein, at the address specified in the General Tender Information herein prior to the closing time stated on the front page of the tender document.

2.2.14.2 If the CCT extends the closing time stated on the front page of the tender document for any reason, the requirements of these Conditions of Tender apply equally to the extended deadline.

2.2.14.3 The CCT shall not consider tenders that are received after the closing date and time for such a tender (late tenders).

2.2.15 Tender offer validity and withdrawal of tenders

2.2.15.1 The tenderer shall warrant that the tender offer(s) remains valid, irrevocable and open for acceptance by the CCT at any time for a period of 120 days after the closing date stated on the front page of the tender document.

2.2.15.2 Notwithstanding the period stated in clause 2.2.15.1 above, bids shall remain valid for acceptance for a period of twelve (12) months after the expiry of the original validity period, unless the CCT is notified in writing of anything to the contrary by the bidder. The validity of bids may be further extended by a period of not more than six months subject to mutual agreement by the parties, administrative processes and upon approval by the City Manager, unless the required extension is as a result of an appeal process or court ruling.

In circumstances where the validity period of a tender has expired, and the tender has not been awarded, the tender process is considered "completed", despite there being no decision (award or cancellation) made. This anomaly does not fall under any of the listed grounds of cancellation and should be treated as a "non award". A "non award" is supported as a recommendation to the CCT's Bod Adjudication Committee ("BAC") for noting.

2.2.15.3 A tenderer may request in writing, after the closing date, that its tender offer be withdrawn. Such withdrawal will be permitted or refused at the sole discretion of the CCT after consideration of the reasons for the withdrawal, which shall be fully set out by the tenderer in such written request for withdrawal. Should the tender offer be withdrawn in contravention hereof, the tenderer agrees that:

- a) it shall be liable to the CCT for any additional expense incurred or losses suffered by the CCT in having either to accept another tender or, if new tenders have to be invited, the additional expenses incurred or losses suffered by the invitation of new tenders and the subsequent acceptance of any other tender;
- b) the CCT shall also have the right to recover such additional expenses or losses by set-off against monies which may be due or become due to the tenderer under this or any other tender or contract or against any guarantee or deposit that may have been furnished by the tenderer or on its behalf for the due fulfilment of this or any other tender or contract. Pending the ascertainment of the amount of such additional expenses or losses, the CCT shall be entitled to retain such monies, guarantee or deposit as security for any such expenses or loss, without prejudice to the CCT's other rights and/or remedies available to it in accordance with any applicable laws.

2.2.16 Clarification of tender offer, or additional information, after submission

Tenderer's shall promptly provide clarification of its tender offer, or additional information, in response to a written request to do so from the CCT during the evaluation of tender offers within the time period stated in such request. No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

Note: This clause does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the CCT elect to do so.

Failure, or refusal, to provide such clarification or additional information within the time for submission stated in the CCT's written request may render the tender non-responsive.

2.2.17 Provide other material

2.2.17.1 Tenderer's shall promptly provide, upon request by the CCT, any other material that has a bearing on the tender offer, the tenderer's commercial position (including joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the CCT for the purpose of the evaluation of the tender. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the CCT's request, the CCT may regard the tender offer as non-responsive.

2.2.17.2 The tenderer shall provide, on written request by the CCT, where the transaction value inclusive of VAT **exceeds R 10 million**:

- a) audited annual financial statement for the past 3 years, or for the period since establishment if established during the past 3 years, if required by law to prepare annual financial statements for auditing;
- b) a certificate signed by the tenderer certifying that the tenderer has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days;
- c) particulars of any contracts awarded to the tenderer by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract;
- d) a statement indicating whether any portion of the goods or services are expected to be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality or municipal entity is expected to be transferred out of the Republic.

Each entity to a Consortium/Joint Venture bid shall submit separate certificates/statements in the above regard.

2.2.17.3 Tenderers shall be required to undertake to fully cooperate with the CCT's external service provider appointed to perform a due diligence review and risk assessment upon receipt of such written instruction from the CCT.

2.2.18 Samples, Inspections, tests and analysis

Tenderers shall provide access during working hours to premises for inspections, tests and analysis as provided for in the Conditions of Tender or Specifications.

If the Specifications requires the tenderer to provide samples, these shall be provided strictly in accordance with the instructions set out in the Specification.

If such samples are not submitted as required in the bid documents or within any further time stipulated by the CCT in writing, then the bid concerned may be declared non-responsive.

The samples provided by all successful bidders will be retained by the CCT for the duration of any subsequent contract. Bidders are to note that samples are requested for testing purposes therefore samples submitted to the CCT may not in all instances be returned in the same state of supply and in other instances may not be returned at all. Unsuccessful bidders will be advised by the Project Manager or dedicated CCT Official to collect their samples, save in the aforementioned instances where the samples would not be returned.

2.2.19 Certificates

The tenderer must provide the CCT with all certificates as stated below:

2.2.19.1. Preference Points for Specific Goals

In order to qualify for preference points for HDI and/or Specific Goals, it is the responsibility of the tenderer to submit documentary proof (Company registration certification, Central Supplier Database report, BBBEE certificate, Proof of Disability, Financial Statements, commissioned sworn affidavits, etc.) in support of tenderer claims for such preference for that specific goal.

Tenderers are further referred to the content of the Preference Schedule for the full terms and conditions applicable to the awarding of preference points.

2.2.19.2 Evidence of tax compliance

Tenderers shall be registered with the South African Revenue Service (SARS) and their tax affairs must be in order and they must be tax compliant subject to the requirements of clause 2.2.1.1.2.h. In this regard, it is the responsibility of the Tenderer to submit evidence in the form of a valid Tax Compliance Status PIN issued by SARS to the CCT at the Supplier Management Unit located within the Supplier Management / Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5), or included with this tender. The tenderer must record its Tax Compliance Status PIN number on the **Details of Tenderer** pages of the tender submission.

Each party to a Consortium/Joint Venture shall submit a separate Tax Compliance Status Pin.

Before making an award the CCT must verify the bidder's tax compliance status. Where the recommended bidder is not tax compliant, the bidder should be notified of the non-compliant status and be requested to submit to the CCT, within 7 working days, written proof from SARS that they have made arrangement to meet their outstanding tax obligations. The proof of tax compliance submitted by the bidder must be verified by the CCT via CSD or e-Filing. The CCT should reject a bid submitted by the bidder if such bidder fails to provide proof of tax compliance within the timeframe stated herein.

Only foreign suppliers who have answered "NO" to all the questions contained in the Questionnaire to Bidding Foreign Suppliers section on the **Details of Tenderer** pages of the tender submission, are not required to register for a tax compliance status with SARS.

2.2.20 Compliance with Occupational Health and Safety Act, 85 of 1993

Tenderers are to note the requirements of the Occupational Health and Safety Act, 85 of 1993. The Tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.

In this regard the Tenderer shall submit **upon written request to do so by the CCT**, a Health and Safety Plan in sufficient detail to demonstrate the necessary competencies and resources to deliver the goods or services all in accordance with the Act, Regulations and Health and Safety Specification.

2.2.21 Claims arising from submission of tender

By responding to the tender herein, the tenderer warrants that it has:

- a) Inspected the Specifications and read and fully understood the Conditions of Contract.
- b) Read and fully understood the whole text of the Specifications and Price Schedule and thoroughly acquainted himself with the nature of the goods or services proposed and generally of all matters which may influence the Contract.
- c) visited the site(s) where delivery of the proposed goods will take place, carefully examined existing conditions, the means of access to the site(s), the conditions under which the delivery is to be made, and acquainted himself with any limitations or restrictions that may be imposed by the Municipal or other Authorities in regard to access and transport of materials, plant and equipment to and from the site(s) and made the necessary provisions for any additional costs involved thereby.
- d) requested the CCT to clarify the actual requirements of anything in the Specifications and Price Schedule, the exact meaning or interpretation of which is not clearly intelligible to the Tenderer.
- e) Received any notices to the tender documents which have been issued in accordance with the CCT's Supply Chain Management Policy.

The CCT will therefore not be liable for the payment of any extra costs or claims arising from the submission of the tender.

2.3 The CCT's undertakings

2.3.1 Respond to requests from the tenderer

2.3.1.1 Unless otherwise stated in the Conditions of Tender, the CCT shall respond to a request for clarification received up to one week (where possible) before the tender closing time stated on the front page of the tender document.

2.3.1.2 The CCT's duly authorised representative for the purpose of this tender is stated on the General Tender Information page above.

2.3.2 Issue Notices

If necessary, the CCT may issue addenda in writing that may amend or amplify the tender documents to each tenderer during the period from the date the tender documents are available until one week before the tender closing time stated in the Tender Data. The CCT reserves its rights to issue addenda less than one week before the tender closing time in exceptional circumstances. If, as a result a tenderer applies for an extension to the closing time stated on the front page of the tender document, the CCT may grant such extension and, shall then notify all tenderers who drew documents.

Notwithstanding any requests for confirmation of receipt of notices issued, the tenderer shall be deemed to have received such notices if the CCT can show proof of transmission thereof via electronic mail, facsimile or registered post.

2.3.3 Opening of tender submissions

2.3.3.1 Unless the two-envelope system is to be followed, CCT shall open tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the Conditions of Tender.

Tenders will be opened immediately after the closing time for receipt of tenders as stated on the front page of the tender document, or as stated in any Notice extending the closing date and at the closing venue as stated in the General Tender Information.

2.3.3.2 Announce at the meeting held immediately after the opening of tender submissions, at the closing venue as stated in the General Tender Information, the name of each tenderer whose tender offer is opened and, where possible, the prices indicated.

2.3.3.3 Make available a record of the details announced at the tender opening meeting on the CCT's website (<http://www.capetown.gov.za/en/SupplyChainManagement/Pages/default.aspx>.)

2.3.4 two-envelope system

2.3.4.1 Where stated in the Conditions of Tender that a two-envelope system is to be followed, the CCT shall open only the technical proposal of tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the Conditions of Tender and announce the name of each tenderer whose technical proposal is opened.

2.3.4.2 The CCT shall evaluate the quality of the technical proposals offered by tenderers, then advise tenderers who have submitted responsive technical proposals of the time and place when the financial proposals will be opened. The CCT shall open only the financial proposals of tenderers, who have submitted responsive technical proposals in accordance with the requirements as stated in the Conditions of Tender, and announce the total price and any preference claimed. Return unopened financial proposals to tenderers whose technical proposals were non responsive.

2.3.5 Non-disclosure

The CCT shall not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

2.3.6 Grounds for rejection and disqualification

The CCT shall determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

2.3.7 Test for responsiveness

2.3.7.1 Appoint a Bid Evaluation Committee and determine after opening whether each tender offer properly received:

- a) complies with the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the tender documents.

2.3.7.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the CCT's opinion, would:

- a) Detrimentially affect the scope, quality, or performance of the goods, services or supply identified in the Specifications,
- b) Significantly change the CCT's or the tenderer's risks and responsibilities under the contract, or
- c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of any material deviation or qualification.

The CCT reserves the right to accept a tender offer which does not, in the CCT's opinion, materially and/or substantially deviate from the terms, conditions, and specifications of the tender documents.

2.3.8 Arithmetical errors, omissions and discrepancies

2.3.8.1 Check the responsive tenders for:

- a) The gross misplacement of the decimal point in any unit rate;
- b) Omissions made in completing the Price Schedule; or
- c) Arithmetic errors in:
 - i) line item totals resulting from the product of a unit rate and a quantity in the Price Schedule; or
 - ii) The summation of the prices; or
 - iii) Calculation of individual rates.

2.3.8.2 The CCT must correct the arithmetical errors in the following manner:

- a) Where there is a discrepancy between the amounts in words and amounts in figures, the amount in words shall govern.
- b) If pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as tendered shall govern, and the unit rate shall be corrected.
- c) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if Price Schedules apply) to achieve the tendered total of the prices.

Consider the rejection of a tender offer if the tenderer does not correct or accept the correction of the arithmetical error in the manner described above.

2.3.8.3 In the event of tendered rates or lump sums being declared by the CCT to be unacceptable to it because they are not priced, either excessively low or high, or not in proper balance with other rates or lump sums, the tenderer may be required to produce evidence and advance arguments in support of the tendered rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the CCT is still not satisfied with the tendered rates or lump sums objected to, it may request the tenderer to amend these rates and lump sums along the lines indicated by it.

The tenderer will then have the option to alter and/or amend the rates and lump sums objected to and such other related amounts as are agreed on by the CCT, but this shall be done without altering the tender offer in accordance with this clause.

Should the tenderer fail to amend his tender in a manner acceptable to and within the time stated by the CCT, the CCT may declare the tender as non-responsive.

2.3.9 Clarification of a tender offer

The CCT may, after the closing date, request additional information or clarification from tenderers, in writing on any matter affecting the evaluation of the tender offer or that could give rise to ambiguity in a contract arising from the tender offer, which written request and related response shall not change or affect their competitive position or the substance of their offer. Such request may only be made in writing by the Director: Supply Chain Management using any means as appropriate.

2.3.10 Evaluation of tender offers

2.3.10.1 General

2.3.10.1.1 The CCT may reduce each responsive tender offer to a comparative price and evaluate them using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the Conditions of Tender.

2.3.10.1.2 For evaluation purposes only, the effects of the relevant contract price adjustment methods will be considered in the determination of comparative prices as follows (not applicable):

- a) If the selected method is based on bidders supplying rates or percentages for outer years, comparative prices would be determined over the entire contract period based on such rates or percentages.
- b) If the selected method is based on a formula, indices, coefficients, etc. that is the same for all bidders during the contract period, comparative prices would be the prices as tendered for year one.
- c) If the selected method is based on a formula, indices, coefficients, etc. that varies between bidders, comparative prices would be determined over the entire contract period based on published indices relevant during the 12 months prior to the closing date of tenders.
- d) If the selected method includes an imported content requiring rate of exchange variation, comparative prices would be determined based on the exchange rates tendered for the prices as tendered for year one. The rand equivalent of the applicable currency 14 days prior to the closing date of tender will be used (the CCT will check all quoted rates against those supplied by its own bank).
- e) If the selected method is based on suppliers' price lists, comparative prices would be the prices as tendered for year one.
- f) If the selected method is based on suppliers' price lists and / or rate of exchange, comparative prices would be determined as tendered for year one whilst taking into account the tendered percentage subject to rate of exchange (see sub clause (d) for details on the calculation of the rate of exchange).

2.3.10.1.3 Where the scoring of functionality forms part of a bid process, each member of the Bid Evaluation Committee must individually score functionality. The individual scores must then be interrogated and calibrated if required where there are significant discrepancies. The individual scores must then be added together and averaged to determine the final score.

2.3.10.2 Decimal places

Score financial offers, preferences and functionality, as relevant, to two decimal places.

2.3.10.3 Scoring of tenders (price and preference)

2.3.10.3.1 Points for price will be allocated in accordance with the formula set out in this clause based on the price per item / rates as set out in the **Price Schedule (Section 7)**:

- Based on the sum of the prices/rates in relation to the estimated quantities.

2.3.10.3.2 Points for preference will be allocated in accordance with the provisions of **Preference Schedule** and the table in this clause.

2.3.10.3.3 The terms and conditions of **Preference Schedule** as it relates to preference shall apply in all respects to the tender evaluation process and any subsequent contract.

2.3.10.3.4 Applicable formula:

The 80/20 preference point system will apply to this tender.

Table B1: Awards above R750 000 and up to R50 mil (VAT Inclusive)

#	Specific goals allocated points	Preference Points (80/20) <i>Equal/ below R50 mil</i>	Evidence	Additional Guidance
<i>Persons, or categories of persons, historically disadvantaged- (HDI) by unfair discrimination on the basis of</i>				
1	Gender are women (ownership)* >75% - 100% women ownership: 5 points >50% - 75% women ownership: 4 points >25% - 50% women ownership: 3 points >0% - 25% women ownership: 2 points 0% women ownership = 0 points	5	<ul style="list-style-type: none"> Company Registration Certification Central Supplier Database report 	<ul style="list-style-type: none"> Issued by the Companies and Intellectual Property Commission Report name: CSD Registration report
2	Race are black persons (ownership)* >75% - 100% black ownership: 5 points >50% - 75% black ownership: 4 points >25% - 50% black ownership: 3 points >0% - 25% black ownership: 2 points 0% black ownership = 0 points	5	<ul style="list-style-type: none"> B-BBEE certificate; Company Registration Certification Central Supplier Database report 	<ul style="list-style-type: none"> South African National Accreditation System approved certificate or commissioned sworn affidavit Issued by the Companies and Intellectual Property Commission Report name: CSD Registration report
3	Disability are disabled persons (ownership)* <i>WHO disability guideline</i> >2% ownership: 3 points >0% - 2% ownership: 1.5 point 0% ownership = 0 points	3	<ul style="list-style-type: none"> Proof of disability Company Registration Certification 	<ul style="list-style-type: none"> Medical certificate/ South African Revenue Services disability registration Issued by the Companies and Intellectual Property Commission
<i>Reconstruction and Development Programme (RDP) as published in Government Gazette</i>				
4	Promotion of Micro and Small Enterprises <i>Micro with a turnover up to R20million and Small with a turnover up to R80 million as per National Small Enterprise Act, 1996 (Act No.102 of 1996)</i> <i>SME partnership, sub-contracting, joint venture or consortiums</i>	7	<ul style="list-style-type: none"> B-BBEE status level of contributor; South African owned enterprises; Financial Statement to determine annual turnover 	<ul style="list-style-type: none"> Specifically in line with the respective sector codes which the company operates, South African National Accreditation System approved certificate or commissioned sworn affidavit Certificate of incorporation or commissioned sworn affidavit Latest financial statements (1 Year)
	Total points	20		

2.3.10.5 Risk Analysis

Notwithstanding compliance with regard to any requirements of the tender, the CCT will perform a risk analysis in respect of the following:

- a) reasonableness of the financial offer
- b) reasonableness of unit rates and prices
- c) the tenderer's ability to fulfil its obligations in terms of the tender document, that is, that the tenderer can demonstrate that he/she possesses the necessary professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, capacity, experience, reputation, personnel to perform the contract, etc.; the CCT reserves the right to consider a tenderer's existing contracts with the CCT in this regard
- d) any other matter relating to the submitted bid, the tendering entity, matters of compliance, verification of submitted information and documents, etc.

The conclusions drawn from this risk analysis will be used by the CCT in determining the acceptability of the tender offer.

No tenderer will be recommended for an award unless the tenderer has demonstrated to the satisfaction of the CCT that he/she has the resources and skills required.

2.3.11 Negotiations with preferred tenderers

The CCT may negotiate the final terms of a contract with tenderers identified through a competitive tendering process as preferred tenderers provided that such negotiation:

- a) Does not allow any preferred tenderer a second or unfair opportunity;
- b) Is not to the detriment of any other tenderer; and
- c) Does not lead to a higher price than the tender as submitted.

If negotiations fail to result in acceptable contract terms, the City Manager (or his delegated authority) may terminate the negotiations and cancel the tender, or invite the next ranked tenderer for negotiations. The original preferred tenderer should be informed of the reasons for termination of the negotiations. If the decision is to invite the next highest ranked tenderer for negotiations, the failed earlier negotiations may not be reopened by the CCT.

Minutes of any such negotiations shall be kept for record purposes.

The provisions of this clause will be equally applicable to any invitation to negotiate with any other tenderers.

In terms of the CCT's SCM Policy, tenders must be cancelled in the event that negotiations fail to achieve a market related price with any of the three highest scoring tenderers.

2.3.12 Acceptance of tender offer

Notwithstanding any other provisions contained in the tender document, the CCT reserves the right to:

2.3.12.1 Accept a tender offer(s) which does not, in the CCT's opinion, materially and/or substantially deviate from the terms, conditions, and specifications of the tender document.

2.3.12.2 Accept the whole tender or part of a tender or any item or part of any item or items from multiple manufacturers, or to accept more than one tender (in the event of a number of items being offered), and the CCT is not obliged to accept the lowest or any tender.

2.3.12.3 Accept the tender offer(s), if in the opinion of the CCT, it does not present any material risk and only if the tenderer(s):

- a) is not under restrictions, has any principals who are under restrictions, or is not currently a supplier to whom notice has been served for abuse of the supply chain management system, preventing participation in the CCT's procurement,
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical

competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract,

- c) has the legal capacity to enter into the contract,
- d) is not insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act, 2008, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing, complies with the legal requirements, if any, stated in the tender data, and
- e) is able, in the opinion of the CCT, to perform the contract free of conflicts of interest.

If an award cannot be made in terms of anything contained herein, the CCT reserves the right to consider the next ranked tenderer(s).

2.3.12.4 The CCT reserves the right not to make an award, or revoke an award already made, where the implementation of the contract may result in reputational risk or harm to the CCT as a result of (inter alia):

- a) reports of poor governance or unethical behaviour, or both;
- b) association with known notorious individuals and family of notorious individuals;
- c) poor performance issues, known to the CCT;
- d) negative media reports, including negative social media reports;
- e) adverse assurance (e.g. due diligence) report outcomes; and
- f) circumstances where the relevant vendor has employed, or is directed by, anyone who was previously employed in the service of the state (as defined in clause 1.53 of the SCM Policy), where the person is or was negatively implicated in any SCM irregularity.

2.3.12.5 The CCT reserves the right to nominate a Standby Bidder at the time when an award is made and in the event that a contract is terminated during the execution thereof, the CCT may consider the award of the contract, or non-award, to the Standby Bidder in terms of the procedures included in its SCM Policy.

2.3.13 Prepare contract documents

2.3.13.1 If necessary, revise documents that shall form part of the contract and that were issued by the CCT as part of the tender documents to take account of:

- a) Notices issued during the tender period,
- b) Inclusion of some of the returnable documents, and
- c) Other revisions agreed between the CCT and the successful tenderer.

2.3.13.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

2.3.14 Notice to successful and unsuccessful tenderers

2.3.14.1 Before accepting the tender of the successful tenderer the CCT shall notify the successful tenderer in writing of the decision of the CCT's Bid Adjudication Committee to award the tender to the successful tenderer. No rights shall accrue to the successful tenderer in terms of this notice

2.3.14.2 The CCT shall, at the same time as notifying the successful tenderer of the Bid Adjudication Committee's decision to award the tender to the successful tenderer, also give written notice to the other tenderers informing them that they have been unsuccessful.

2.3.15 Provide written reasons for actions taken

Provide upon request written reasons to tenderers for any action that is taken in applying these Conditions of Tender, but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

TENDER DOCUMENT GOODS AND SERVICES		 CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD
SUPPLY CHAIN MANAGEMENT		
SCM - 542	Approved by Branch Manager: February 2024	Version: 10 Page 22 of 210

<p>TENDER NO: 300G/2024/25</p> <p>TENDER DESCRIPTION: SUPPLY AND DELIVERY OF HIGH VOLTAGE STRAIGHT JOINTS AND SPARE MATERIALS</p> <p>CONTRACT PERIOD: 36 MONTHS FROM THE COMMENCEMENT DATE OF THE CONTRACT</p>

THE CONTRACT

THE CITY OF CAPE TOWN	
A metropolitan municipality, established in terms of the Local Government: Municipal Structures Act, 117 of 1998 read with the Province of the Western Cape: Provincial Gazette 5588 dated 22 September 2000, as amended (“the Purchaser”) herein represented by	
AUTHORISED REPRESENTATIVE	

AND

SUPPLIER	
NAME of Company/Close Corporation or Partnership / Joint Venture/ Consortium or Sole Proprietor /Individual (The “Supplier” / “tenderer”)	
TRADING AS (if different from above)	
REGISTRATION NUMBER	
PHYSICAL ADDRESS / CHOSEN DOMICILIUM CITANI ET EXECTUANDI OF THE SUPPLIER	
AUTHORISED REPRESENTATIVE	
CAPACITY OF AUTHORISED REPRESENTATIVE	

(HEREINAFTER COLLECTIVELY REFERRED TO AS “THE PARTIES” AND INDIVIDUALLY A “PARTY”)

NATURE OF TENDER OFFER (please indicate below)	
Main Offer (see clause 2.2.11.1)	
Alternative Offer (see clause 2.2.11.1)	

C.1 DETAILS OF TENDERER/SUPPLIER

1.1 Type of Entity (Please tick one box)

- Individual / Sole Proprietor
 Close Corporation
 Company
- Partnership or Joint Venture or Consortium
 Trust
 Other:

1.2 Required Details (Please provide applicable details in full):

Name of Company / Close Corporation or Partnership / Joint Venture / Consortium or Individual /Sole Proprietor	
Trading as (if different from above)	
Company / Close Corporation registration number (if applicable)	
Postal address	Postal Code _____
Physical address (Chosen Domicilium Citandi Et Executandi)	Postal Code _____
Contact details of the person duly authorised to represent the tenderer	Name: Mr/Ms _____ (Name & Surname) Telephone :(_____) _____ Fax :(_____) _____ Cellular Telephone: _____ E-mail address: _____
Income tax number	
VAT registration number	
SARS Tax Compliance Status PIN	
CCT Supplier Database Registration Number (See Conditions of Tender)	
National Treasury Central Supplier Database registration number (See Conditions of Tender)	
Is tenderer the accredited representative in South Africa for the Goods / Services / Works offered?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, enclose proof
Is tenderer a foreign based supplier for the Goods / Services / Works offered?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, answer the Questionnaire to Bidding Foreign Suppliers (below)
Questionnaire to Bidding Foreign Suppliers	a) Is the tenderer a resident of the Republic of South Africa or an entity registered in South Africa? <input type="checkbox"/> Yes <input type="checkbox"/> No
	b) Does the tenderer have a permanent establishment in the Republic of South Africa? <input type="checkbox"/> Yes <input type="checkbox"/> No
	c) Does the tenderer have any source of income in the Republic of South Africa? <input type="checkbox"/> Yes <input type="checkbox"/> No
	d) Is the tenderer liable in the Republic of South Africa for any form of taxation? <input type="checkbox"/> Yes <input type="checkbox"/> No

C.2 FORM OF OFFER AND ACCEPTANCE

TENDER 300G/2024/25: SUPPLY AND DELIVERY OF HIGH VOLTAGE STRAIGHT JOINTS AND SPARE MATERIALS

C.2.1 Offer (To Be Completed by the Tenderer as Part of Tender Submission)

The tenderer, identified in the offer signature table below,

HEREBY AGREES THAT by signing the *Form of Offer and Acceptance*, the tenderer:

1. confirms that it has examined the documents listed in the Index (including Schedules and Annexures) and has accepted all the Conditions of Tender;
2. confirms that it has received and incorporated any and all notices issued to tenderers issued by the CCT;
3. confirms that it has satisfied itself as to the correctness and validity of the tender offer; that the price(s) and rate(s) offered cover all the goods and/or services specified in the tender documents; that the price(s) and rate(s) cover all its obligations and accepts that any mistakes regarding price(s), rate(s) and calculations will be at its own risk;
4. offers to supply all or any of the goods and/or render all or any of the services described in the tender document to the CCT in accordance with the:
 - 4.1 terms and conditions stipulated in this tender document;
 - 4.2 specifications stipulated in this tender document; and
 - 4.3 at the prices as set out in the **Price Schedule**.
5. accepts full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on it in terms of the Contract.

SIGNED AT _____ (PLACE) ON THE _____ (DAY) OF _____ (MONTH AND YEAR)

For and on behalf of the Supplier
(Duly Authorised)
Name and Surname:

Witness 1 Signature
Name and Surname:

Witness 2 Signature
Name and Surname:

INITIALS OF CCT OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 300G/2024/25: SUPPLY AND DELIVERY OF HIGH VOLTAGE STRAIGHT JOINTS AND SPARE MATERIALS

C.2.2 Acceptance (To Be Completed by the CCT)

By signing this part of this *Form of Offer and Acceptance*, the CCT accepts the tenderer's (if awarded the Supplier's) offer. In consideration thereof, the CCT shall pay the Supplier the amount due in accordance with the conditions of contract. Acceptance of the Supplier's offer shall form an agreement between the CCT and the Supplier upon the terms and conditions contained in this document.

The terms of the agreement are contained in the Contract (as defined) including drawings and documents or parts thereof, which may be incorporated by reference.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the *Tender Returnable Documents* as well as any changes to the terms of the offer agreed by the tenderer and the CCT during this process of offer and acceptance, are contained in the *Schedule of Deviations* attached to and forming part of this *Form of Offer and Acceptance*. No amendments to or deviations from said documents are valid unless contained in the *Schedule of Deviations*.

The Supplier shall within 2 (two) weeks after contract commencement contact the CCT to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms the *Special Conditions of Contract*. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation / breach of the agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the Commencement Date, being the date upon which the Supplier confirms receipt from the CCT of 1 (one) complete, signed copy of the Contract, including amendments or deviations contained in the *Schedule of Deviations* (if any).

For and on behalf of the City of Cape Town
(Duly Authorised)
Name and Surname:

Witness 1 Signature
Name and Surname:

Witness 2 Signature
Name and Surname:

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 300G/2024/25: SUPPLY AND DELIVERY OF HIGH VOLTAGE STRAIGHT JOINTS AND SPARE MATERIALS

C.2.3 Schedule of Deviations (To be Completed by the CCT upon Acceptance)

Notes:

1. The extent of deviations from the tender documents issued by the CCT before the tender closing date, is limited to those permitted in terms of the conditions of tender.
2. A tenderer's covering letter shall not be included in the final Contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties to become an obligation of the Contract, shall be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall form part of the Contract.

1 Subject
Details

2 Subject
Details

3 Subject
Details

4 Subject
Details

ONLY TO BE COMPLETED AT ACCEPTANCE STAGE

By the duly authorised representatives signing this agreement, the CCT and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to this tender document and addenda thereto as listed in the *Tender Returnable Documents*, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the CCT during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the Commencement Date, shall have any meaning or effect between the Parties arising from the agreement.

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 300G/2024/25: SUPPLY AND DELIVERY OF HIGH VOLTAGE STRAIGHT JOINTS AND SPARE MATERIALS

C.2.4 Confirmation of Receipt (To be Completed by Supplier upon Acceptance)

The Supplier identified in the offer part of the Contract hereby confirms receipt from the CCT of 1 (one) complete, signed copy of the Contract, including the *Schedule of Deviations* (if any) on:

The..... (Day)

Of..... (Month)

20..... (year)

At..... (Place)

For the Supplier: Signature(s)

Name(s)

Capacity

Signature and name of witness:

Signature Name

ONLY TO BE COMPLETED AT ACCEPTANCE STAGE

C.3 OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

AGREEMENT MADE AND ENTERED INTO BETWEEN THE CCT (HEREINAFTER CALLED THE "CCT") AND

.....,
(Supplier/Mandatory/Company/CC Name)

IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 85 OF 1993 AS AMENDED.

I,, representing

....., as an employer in its own right in its own right, do hereby undertake to ensure, as far as is reasonably practicable, that all work will be performed, and all equipment, machinery or plant used in such a manner as to comply with the provisions of the Occupational Health and Safety Act (hereafter "OHSA") and the Regulations promulgated thereunder.

I furthermore confirm that I am/we are registered with the Compensation Commissioner and that all registration and assessment monies due to the Compensation Commissioner have been fully paid or that I/We are insured with an approved licensed compensation insurer.

COID ACT Registration Number:

OR Compensation Insurer: Policy No:

I undertake to appoint, where required, suitable competent persons, in writing, in terms of the requirements of OHSA and the Regulations and to charge him/them with the duty of ensuring that the provisions of OHSA and Regulations as well as the Council's Special Conditions of Contract, Way Leave, Lock-Out and Work Permit Procedures are adhered to as far as reasonably practicable.

I further undertake to ensure that any subcontractors employed by me will enter into an occupational health and safety agreement separately, and that such subcontractors comply with the conditions set.

I hereby declare that I have read and understand the Occupational Health and Safety Specifications contained in this tender and undertake to comply therewith at all times.

I hereby also undertake to comply with the Occupational Health and Safety Specification and Plan submitted and approved in terms thereof.

Signed aton the.....day of.....20....

Witness

Mandatory

Signed at..... on the.....day of.....20

Witness

for and on behalf of
CCT

C.4 PRICE SCHEDULE

Bid specifications may not make any reference to any particular trade mark, name, patent, design, type, specific origin or producer, unless there is no other sufficiently precise or intelligible way of describing the characteristics of the work, in which case such reference must be accompanied by the words "or equivalent".

TENDERERS MUST NOTE THAT WHEREVER THIS DOCUMENT REFERS TO ANY PARTICULAR TRADE MARK, NAME, PATENT, DESIGN, TYPE, SPECIFIC ORIGIN OR PRODUCER, SUCH REFERENCE SHALL BE DEEMED TO BE ACCOMPANIED BY THE WORDS 'OR EQUIVALENT'

Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
1	Supply and delivery of 132 kV straight joints for single hollow core, oil filled cable suitable for connecting 355 mm ² Copper hollow conductor to either same size and type of conductor or to the 800 mm ² / 1 000 mm ² Aluminium hollow conductor.	each		28 Weeks		
2	Supply and delivery of 132kV insulated sheath taped type joints for single core XLPE cable sized 400 mm ² to 630 mm ² of Aluminium or Copper stranded conductor, CSA sheath, complete with connectors , compression ferrules, silicone compound and glass fibre boxes.	each		12 Weeks		
3	Supply and delivery of 66 kV insulated sheath taped type joints for single core XLPE cable sized 300 mm ² to 630 mm ² with Aluminium or Copper stranded conductor with CSA sheath.	each		12 Weeks		
4	Supply and delivery of Bi-Metal ferrules suitable for connecting 355 mm ² Copper hollow conductor to 800 mm ² / 1 000 mm ² Aluminium hollow conductor.	each		10 Weeks		

TENDER NO: 300G/2024/25

Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
5	Supply and delivery of Bi-Metal ferrules suitable for connecting 185 mm ² Copper stranded conductor to 300 mm ² Aluminium stranded conductor cable in the 33 kV PILC type lead sleeved compound filled straight joints.	each		28 Weeks		
6	Supply and delivery of insulating crepe paper tapes 10 mm x 5 m rolls tinned in cable oil suitable for jointing of high voltage oil filled cables.	each		12 Weeks		
7	Supply and delivery of insulating crepe paper tapes 20 mm x 5 m rolls tinned in cable oil suitable for jointing of high voltage oil filled cables.	each		16 Weeks		
8	Supply and delivery of insulating crepe paper tapes 50 mm x 5 m rolls tinned in cable oil suitable for jointing of high voltage paper insulated cables.	each		16 Weeks		
9	Supply and delivery of varnished yellow terylene tapes 19 mm x 25 m rolls suitable for jointing of high voltage paper insulated cables.	each		16 Weeks		
10	Supply and delivery of semi-conductive crepe paper tapes 20 mm x 5 m rolls suitable for jointing of high voltage paper insulated cables.	each		16 Weeks		

TENDER NO: 300G/2024/25

Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
11	Supply and delivery of insulating crepe paper tapes 20 mm x 5 m rolls tinned in jelly oil suitable for jointing of high voltage paper insulated cables.	each		16 Weeks		
12	Supply and delivery of insulating crepe paper tapes 50 mm x 5 m rolls tinned in jelly oil suitable for jointing of high voltage paper insulated cables.	each		16 Weeks		
13	Supply and delivery of insulating semi-conductive crepe paper tapes 19 mm x 5 m rolls tinned in jelly oil suitable for jointing of high voltage paper insulated cables.	each		16 Weeks		
14	Supply and delivery of insulating paper rolls tinned in cable oil suitable for jointing of high voltage oil filled cables to BICC schedule E72762-7	each		16 Weeks		
15	Supply and delivery of 132kV insulated sheath type joints for single core XLPE cable sized 2500 mm ² of Aluminium conductor, CSA sheath, complete with connectors , compression ferrules, silicone compound and glass fibre boxes.	each		20 Weeks		
16	Supply and delivery of 132kV insulated sheath type termination for single core XLPE cable sized 2500 mm ² of Aluminium conductor, CSA sheath, complete with connectors and outdoor sealing end bushing.	each		20 Weeks		

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Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
17	Supply and delivery of 132kV insulated sheath type joints for single core XLPE cable sized 1600 mm ² of Aluminium conductor, CSA sheath, complete with connectors , compression ferrules, silicone compound and glass fibre boxes	each		20 Weeks		
18	Supply and delivery of 132kV insulated sheath type termination for single core XLPE cable sized 1600 mm ² of Aluminium conductor complete with connectors and outdoor sealing end bushing.	each		20 Weeks		
19	Supply and delivery of 132kV insulated sheath type HSCT cable for single core XLPE cable sized 1600 mm ² of Aluminium conductor, CSA sheath.	metre		12 Weeks		
20	Supply and delivery of 132kV insulated sheath type HSCT cable for single core XLPE cable sized 630 mm ² of Aluminium conductor, CSA sheath.	metre		12 Weeks		
21	Supply and delivery of 132kV insulated sheath type HSCT cable for single core XLPE cable sized 1000 mm ² of Copper conductor, CSA sheath.	metre		12 Weeks		
22	Supply and delivery of 132kV insulated sheath type joints for single core XLPE cable sized 1000 mm ² of Copper conductor, CSA sheath, complete with connectors , compression ferrules, silicone compound and glass fibre boxes	each		20 Weeks		

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Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
23	Supply and delivery of 132kV insulated sheath type termination for single core XLPE cable sized 1000 mm ² of Copper conductor complete with connectors and outdoor sealing end bushing.	each		20 Weeks		
24	Supply and delivery of Compression Ferrule suitable for for connecting 500 mm ² Aluminium conductor 132kV XLPE Cable	each		18 Weeks		
25	Supply and delivery of Compression Ferrule suitable for for connecting 800 mm ² Aluminium conductor 132kV XLPE Cable	each		18 Weeks		
26	Supply and delivery of Compression Ferrule suitable for for connecting 1000 mm ² Copper conductor 132kV XLPE Cable	each		8 Weeks		
27	Single way earth link box (buried): 300mm ² bonding leads					
27.1	Supply and delivery of Single way earth link box: Enclosure only (300mm ² bonding lead)	each		8 Weeks		

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Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
27.2	Supply and delivery of Single way earth Link Box: Internal equipment only (300mm ² bonding lead)	lot		8 Weeks		
28	Single way SVL link box (buried):300mm ² bonding leads					
28.1	Supply and delivery of Single way SVL link box: Enclosure only (300mm ² bonding lead)	each		8 Weeks		
28.2	Supply and delivery of Single way SVL link box: Internal equipment including SVL's only (300mm ² bonding lead)	lot		8 Weeks		
29	Three way earth link box (buried): 300mm ² bonding leads					
29.1	Supply and delivery of Three way earth link box: Enclosure only (300mm ² bonding lead)	each		8 Weeks		

TENDER NO: 300G/2024/25

Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
29.2	Supply and delivery of Three way earth link box: Internal equipment only (300mm ² bonding lead)	lot		8 Weeks		
30	Three way SVL link box (buried): 300mm ² bonding leads					
30.1	Supply and delivery of Three way SVL link box: Enclosure only (300mm ² bonding lead)	each		8 Weeks		
30.2	Supply and delivery of Three way SVL link box: Internal equipment including SVL's Only(300mm ² bonding lead)	lot		8 Weeks		
31	SVL cross bond box (buried): 300mm ² bonding leads					
31.1	Supply and delivery of SVL cross bond box: Enclosure only (300mm ² bonding lead)	each		8 Weeks		

TENDER NO: 300G/2024/25

Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
31.2	Supply and delivery of SVL cross bond box: Internal equipment including SVL's Only(300mm ² bonding lead)	lot		8 Weeks		
32	Six way earth link box (buried): 300mm ² bonding leads					
32.1	Supply and delivery of Six way earth link box: Enclosure only (300mm ² bonding lead)	each		8 Weeks		
32.2	Supply and delivery of Six way earth link box: Internal equipment Only (300mm ² bonding lead)	lot		8 Weeks		
33	Single way earth link box (buried): 185mm ² bonding leads					
33.1	Supply and delivery of Single way earth link box: Enclosure only (185mm ² bonding lead)	each		8 Weeks		

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Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
33.2	Supply and delivery of Single way earth link box: Internal equipment Only (185mm ² bonding lead)	lot		8 Weeks		
34	Single way SVL link box (buried):185mm ² bonding leads					
34.1	Supply and delivery of Single way SVL link box: Enclosure only (185mm ² bonding lead)	each		8 Weeks		
34.2	Supply and delivery of Single way SVL link box: Internal equipment including SVL's Only (185mm ² bonding lead)	lot		8 Weeks		
35	Three way earth link box (buried): 185mm ² bonding leads					
35.1	Supply and delivery of Three way earth link box: Enclosure only (185mm ² bonding lead)	each		8 Weeks		

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Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
35.2	Supply and delivery of Three way earth link box: Internal equipment Only (185mm ² bonding lead)	lot		8 Weeks		
36	Three way SVL link box (buried): 185mm ² bonding leads					
36.1	Supply and delivery of Three way SVL link box: Enclosure only (185mm ² bonding lead)	each		8 Weeks		
36.2	Supply and delivery of Three way SVL link box: Internal equipment including SVL's Only (185mm ² bonding lead)	lot		8 Weeks		
37	SVL cross bond link box (buried): 185mm ² bonding leads					
37.1	Supply and delivery of SVL cross bond Link box: Enclosure only (185mm ² bonding lead)	each		8 Weeks		

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Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
37.2	Supply and delivery of SVL cross bond Link box: Internal equipment including SVL's Only (185mm ² bonding lead)	lot		8 Weeks		
38	Six way earth link box (buried): 185mm ² bonding leads					
38.1	Supply and delivery of Six way earth link box: Enclosure only (185mm ² bonding lead)	each		8 Weeks		
38.2	Supply and delivery of Six way earth link box: Internal equipment (185mm ² bonding lead)	lot		8 Weeks		
39	Link Box Accessories					
39.1	Supply and delivery of Link box Kiosk Type with double door enclosure including base only	each		8 Weeks		

TENDER NO: 300G/2024/25

Item	Description <small>(refer to C.5 SPECIFICATION for detailed item specification)</small>	Unit	Unit Price <small>(ZAR excl. VAT)</small> each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
39.2	Supply and delivery of SVL only	each		8 Weeks		
40	Supply and delivery of 19/33 kV PILC cable – 3-core 185mm ² Cu	metre		12 Weeks		
41	Supply and delivery of 19/33 kV PILC cable – 3-core 240mm ² Cu	metre		12 Weeks		
42	Supply and Delivery of Joint: Heatshrink 33kV 3C PILC for cable size 185mm-400mm CU	each		4 Weeks		
43	Supply and Delivery of Outdoor Heatshrink Termination: 33kV 3C PILC for cable size 120mm-185mm CU including shear off lugs and earthing kit	each		4 Weeks		
44	Supply and Delivery of Outdoor Heatshrink Termination: 33kV 3C PILC for cable size 240mm-500mm CU including shear off lugs and earthing kit	each		4 Weeks		
45	Supply and Delivery of Outdoor Heatshrink Termination: 33kV 1C PILC for cable size 240mm-500mm CU including shear off lugs and earthing kit	each		4 Weeks		

TENDER NO: 300G/2024/25

Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
46	Supply and delivery of XLPE termination preparation kit incl. carborandum, silicone oil, emery cloth (150 – 1000 grit), pure alcohol and fibre glass back tape	lot		4 Weeks		
47	Supply and delivery of XLPE jointing preparation kit incl. carborandum, silicone oil, emery cloth (150 – 1000 grit), pure alcohol and fibre glass back tape	lot		4 Weeks		
48.	Supply and deliver glass fibre joint boxes:					
48.1	300mm ² – 600mm ²	each		12 Weeks		
48.2	600mm ² – 1500mm ²	each		12 Weeks		
48.3	1500mm ² – 2500mm ²	each		12 Weeks		
49	Supply and delivery of oil filled cable 132kV 300mm ² terminations Cu	each		20 Weeks		
50	Supply and delivery of oil filled cable 66kV 300mm ² terminations Cu	each		20 Weeks		
51	Supply and delivery of oil filled cable 132kV 3C Cu 300mm ² straight joints	each		24 Weeks		

TENDER NO: 300G/2024/25

Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
52	Supply and delivery of oil filled cable 66kV 3C Cu 300mm ² straight joints	each		24 Weeks		
53	Supply and delivery of oil filled cable 132kV 3C Cu 300mm ²	metre		20 Weeks		
54	Supply and delivery of oil filled cable 66kV 3C Cu 300mm ²	metre		20 Weeks		
55	Supply and delivery of 33kV 240mm ² XLPE AL cable 1C	metre		12 Weeks		
56	Supply and delivery of 33kV 300mm ² XLPE AL cable 1C	metre		12 Weeks		
57	Supply and delivery of 33kV 400mm ² XLPE AL cable 1C	metre		12 Weeks		
58	Supply and delivery of 33kV 500mm ² XLPE AL cable 1C	metre		12 Weeks		
59	Supply and delivery of 33kV 630mm ² XLPE AL cable 1C	metre		12 Weeks		
60	Supply and delivery of 33kV PILC 240mm ² Cu cable 3C	metre		12 Weeks		

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Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
61	Supply and delivery of 33kV PILC 300mm ² Cu cable 3C	metre		12 Weeks		
62	Supply and delivery of 33kV PILC 400mm ² Cu cable 3C	metre		12 Weeks		
63	Supply and delivery of 33kV PILC 500mm ² Cu cable 3C	metre		12 Weeks		
64	Supply and delivery of bunker type link box only	each		8 Weeks		
65	Supply and delivery of joint bay struts					
65.1	Small (500mm – 1000mm in length)	each		12 Weeks		
65.2	Medium (1000mm – 2000mm in length)	each		12 Weeks		
65.3	Large (2000mm – 4000mm in length)	each		12 Weeks		
66	Supply and delivery of 132kV XLPE 500mm ² 1C Al cable	metre		12 Weeks		

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Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
67	Supply and delivery of 66kV XLPE 500mm ² 1C Al cable	metre		12 Weeks		
68	Supply and delivery of glycerine filled pressure gauges (0 – 250kPa)	each		4 weeks		
69	Supply and delivery of glycerine filled pressure gauges (0 – 600kPa)	each		4 weeks		
70	Supply and delivery of pressure gauges contact settings and alarm type trigger (0 – 250kPa)	each		4 weeks		
71	Supply and delivery of pressure gauges contact settings and alarm type trigger (0 – 600kPa)	each		4 weeks		
72	Supply and delivery digital pressure gauges (0 – 250kPa)	each		4 weeks		
73	Supply and delivery digital pressure gauges (0 – 600kPa)	each		4 weeks		
74	Supply and deliver bi-metal ferrules 132/66kV 300mm ² – 500mm ² , compression-type	each		12 Weeks		
75	Supply and delivery bi-metal ferrules 132/66kV 800mm ² – 1000mm ² , compression-type	each		12 Weeks		

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Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
76	Supply and delivery of 66kV XLPE 800mm ² 1C Al cable	metre		12 Weeks		
77	Supply and delivery of 66 kV insulated sheath taped type joints for single core XLPE cable sized 800 mm ² to 1000 mm ² with Aluminium or Copper stranded conductor with CSA sheath.	each		20 Weeks		
78	Supply and delivery of insulating joint barriers for 132kV/66KV cable (solid-type)					
78.1	300mm ² – 600mm ²	each		4 Weeks		
78.2	600mm ² – 1500mm ²	each		4 Weeks		
78.3	1500mm ² – 2500mm ²	each		4 Weeks		
79	Supply and delivery of insulating joint barriers for 132kV/66KV cable (split-type)					
79.1	300mm ² – 600mm ²	each		4 Weeks		
79.2	600mm ² – 1500mm ²	each		4 Weeks		

TENDER NO: 300G/2024/25

Item	Description (refer to C.5 SPECIFICATION for detailed item specification)	Unit	Unit Price (ZAR excl. VAT) each	Preferred Delivery Period	Delivery period	Manufacturer's (OEM) Name
79.3	1500mm ² – 2500mm ²	each		4 Weeks		

Pricing Instructions:

- 5.1 State the rates and prices in Rand unless instructed otherwise in the Conditions of Tender.
- 5.2 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable 14 days before the closing time stated in the General Tender Information.
- 5.3 All prices tendered must include all expenses, disbursements and costs (e.g. transport, accommodation etc.) that may be required for the execution of the tenderer's obligations in terms of the Contract, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the Contract as well as overhead charges and profit (in the event that the tender is successful). All prices tendered will be final and binding.
- 5.4 All prices shall be tendered in accordance with the units specified in this schedule.
- 5.5 Where a value is given in the Quantity column, a Rate and Price (the product of the Quantity and Rate) is required to be inserted in the relevant columns.
- 5.6 The successful tenderer is required to perform all tasks listed against each item. The tenderer must therefore tender prices/rates on all items as per the section in the Price Schedule. **An item against which no rate is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash or the word "included" or abbreviations thereof) is entered against an item, it will also be regarded as a nil rate having been entered against that item, i.e. that there is no charge for that item. The Tenderer may be requested to clarify nil rates, or items regarded as having nil rates; and the CCT may also perform a risk analysis with regard to the reasonableness of such rates.**
- 5.7 Provide fixed rates and prices for the duration of the contract that are not subject to adjustment except as otherwise provided for in clause 17 of the Conditions of Contract and as amplified in the Special Conditions of Contract.
- 5.8 The tenderer is not allowed to alter the pricing schedule.
- 5.9 If an item is considered to be obsolete and un-obtainable in the market, proof of such must be provided. CCT reserves the right to accept or reject the information provided.

INITIALS OF CCT OFFICIALS		
1	2	3

C.5 SPECIFICATION(S)

C.5.1 SCOPE OF SPECIFICATION

This Specification provides for the design, manufacture, testing at the Manufacturer's Works, supply and delivery of the items to the Purchaser's Stores, of a variety of high voltage underground cable and accessories required during the maintenance and repair on the City of Cape Town's existing high voltage underground cable installations. Most of the City's HV infrastructure is equipped with CBI equipment and cabling, but the City accepts OEM approved and certified equivalent cables and material.

The MV cable accessories will be exposed to very heavy pollution conditions with salt-laden atmosphere and high winds and the designs, where applicable, specific creepage distance must be to a minimum of 31mm/kV and products/materials shall be such as to ensure maximum protection against corrosion, tracking and erosion.

C.5.2 DETAILED SPECIFICATION

The item numbering of (5) Pricing Schedule refers:

<u>Item</u>	<u>Description</u>
1	132 kV straight joints for single hollow core, oil filled cable suitable for connecting 355 mm² Copper hollow conductor to either same size and type of conductor or to the 800 mm² / 1 000 mm² Aluminium hollow conductor. The joint must be manufactured in accordance with BICC or Pirelli or Prysmian design (or OEM approved and certified equivalent), using crepe Paper tapes and paper sheet rolls. The joint must be complete with standard 355 mm ² ferrules, insulating barriers, and glass fiber boxes, in accordance with the attached PRYSMIAN drawings No 707673, 540023 and the City of Cape Town sketch SK 5168 and BICC sketch 7400055080618002 attached or OEM approved and certified equivalent;
2	132kV insulated sheath taped type joints for single core XLPE cable sized 400 mm² to 630 mm² of Aluminium or Copper stranded conductor, corrugated Aluminium sheath, complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing 20547 attached or OEM approved and certified equivalent.
3.	66 kV insulated sheath taped type joints for single core XLPE cable sized 300 mm² to 630 mm² with Aluminium or Copper stranded conductor with corrugated Aluminium sheath complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing 20547 attached or OEM approved and certified equivalent.
4.	Bi-Metal ferrules suitable for connecting 355 mm² Copper hollow conductor to 800 mm² / 1 000 mm² Aluminium hollow conductor in the joints mentioned in the Item 1 above to the attached PRYSMIAN drawing 707673 (ferrule details) and City of Cape Town sketches SK5168, 5169 or OEM approved and certified equivalent.
5.	Bi-Metal ferrules suitable for connecting 185 mm² Copper stranded conductor to 300 mm² Aluminium stranded conductor cable in the 33 kV PILC type lead sleeved compound filled straight joints;
6.	Insulating crepe paper tapes 10 mm x 5 m rolls tinned in cable oil suitable for jointing of high voltage oil filled cables;

7. **Insulating crepe paper tapes 20 mm x 5 m rolls tinned in cable oil** suitable for jointing of high voltage oil filled cables;
8. **Insulating crepe paper tapes 50 mm x 5 m rolls tinned in cable oil** suitable for jointing of high voltage paper insulated cables, tins to have re-sealable (soldered) lids;
9. **Varnished yellow terylene tapes 19 mm x 25 m rolls** suitable for jointing of high voltage paper insulated cables, to Thorne & Derrick (T&D) specification SP1713, or OEM approved and certified equivalent, to the Engineers approval;
10. **Semi-conductive crepe paper tapes 20 mm x 5 m rolls tinned in cable oil** suitable for jointing of high voltage paper insulated cables, tins to have re-sealable (soldered) lids;
11. **Insulating crepe paper tapes 20 mm x 5 m rolls tinned in jelly oil** suitable for jointing of high voltage paper insulated cables; tins have re-sealable (soldered) lids.
12. **Insulating crepe paper tapes 50 mm x 5 m rolls tinned in jelly oil** suitable for jointing of high voltage paper insulated cables; tins have re-sealable (soldered) lids.
13. **Insulating semi-conductive crepe paper tapes 19 mm x 5 m rolls tinned in jelly oil** suitable for jointing of high voltage paper insulated cables; tins have re-sealable (soldered) lids.
14. **Insulating paper rolls tinned in cable oil suitable for jointing of high voltage oil filled cables to BICC schedule E72762-7** depicted on the BICC sketch 31388 attached or OEM approved and certified equivalent.
- 15-16. **132kV insulated sheath type joints / termination for single core XLPE cable sized 2500 mm² of Aluminium conductor, corrugated Aluminium sheath**, complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing S1966-4 / S1925-4 attached or OEM approved and certified equivalent.
- 17-18. **132kV insulated sheath type joints / termination for single core XLPE cable sized 1600 mm² of Aluminium conductor, corrugated Aluminium sheath**, complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound, insulating barriers, and glass fibre boxes to CBI - African Cables' drawing S1964-4 / S1925-4 attached or OEM approved and certified equivalent.
19. **132kV insulated sheath type HSCT cable for single core XLPE cable sized 1600 mm² of Aluminium conductor, corrugated Aluminium sheath**, depicted on the CBI - African Cables' drawing F2MAM05E068HSWDS attached or OEM approved and certified equivalent, complete. See attached Returnable Schedule F.13(c).
20. **132kV insulated sheath type HSCT cable for single core XLPE cable sized 630 mm² of Aluminium conductor, corrugated Aluminium sheath**, depicted on the CBI - African Cables' drawing F2PA1630068HS attached or OEM approved and certified equivalent, complete. See attached Returnable Schedule F.13(c).
21. **132kV insulated sheath type HSCT cable for single core XLPE cable sized 1000 mm² of Copper conductor, corrugated Aluminium sheath**, depicted on the CBI -

African Cables' Data Sheet 132kV HV XLPE COPPER HIGH STRESS attached or OEM approved and certified equivalent, complete. See attached Returnable Schedule F.13(c).

- 22- **132kV insulated sheath type joints / termination for single core XLPE cable sized**
 23. **1000 mm² of Copper conductor, corrugated Aluminium sheath**, complete with standard sets of connectors (approved compression ferrules for Copper conductors), a silicone compound, insulating barriers, and glass fibre boxes to CBI - African Cables' drawing S1962-4 / S1925-4 attached or OEM approved and certified equivalent.
- 24 **Compression Ferrule suitable for use in straight joints for 132kV XLPE 500mm² AL Cable.**
- 25 **Compression Ferrule suitable for use in straight joints for 132kV XLPE 800mm² AL Cable.**
- 26 **Compression Ferrule for suitable for use in straight joints 132kV XLPE 1000mm² Cu Cable.**
- 27 - The **link disconnecting boxes** shall be adequately dimensioned to permit ready access
 39 to the links. The casing and lid of underground link disconnecting boxes shall be of robust construction, made of cast iron or stainless steel and shall be to approval. The lid shall be fixed with an adequate number of Allen key type bolts held. The gasket between the lid and the casing shall be of adequate dimensions to ensure a reliable seal. All link disconnecting boxes to be installed below ground shall be of the horizontal type with diving bell lids suitable for installation in shallow pits below ground level. The link disconnecting boxes shall comply with degree of protection IP68 for a 4 m head to SANS 60529. Provision shall be made for padlocking the lid.
- Vandal proof type above-ground link disconnecting boxes (double door kiosk type) shall comprise an extra heavy duty powder coated to traffic grey 3mm stainless steel enclosure. 304 Stainless Steel bullet hinges and a 304 stainless steel 3 way lock to suite padlock All equipment required shall be included in the tender. The boxes shall have an IP4X rating to SANS 60529 and IK08 rating to SANS 62262.
- The link disconnecting boxes shall be supplied complete with all glands, earthing rods and other accessories and with the required length of bonding and connecting leads. The size, type and insulation of these leads shall be to approval. The glands to be supplied with the link disconnecting boxes shall be of the heat shrinkable type and to approval. Mechanical compression glands are not acceptable.
40. 19/33 kV PILC cable – 3-core 185 mm² Cu, See attached Returnable Schedule F.13(c)
41. 19/33 kV PILC cable – 3-core 240 mm² Cu, See attached Returnable Schedule F.13(c)
- 42 Joint: Heatshrink 33kV 3C PILC for cable size 185mm²-400mm² CU See attached Returnable Schedule F.13(c)
- 43 Outdoor Heatshrink Termination: 33kV 3C PILC for cable size 120mm²-185mm² CU including shear off lugs and earthing kit.
- 44 Outdoor Heatshrink Termination: 33kV 3C PILC for cable size 240mm²-500mm² CU including shear off lugs and earthing kit.
- 45 Outdoor Heatshrink Termination: 33kV 1C PILC for cable size 240mm²-500mm² CU including shear off lugs and earthing kit.
- 46 - Oil, alcohol, and other materials provided under these items shall be suitable for use in
 47 cleaning high voltage cable apparatus in preparation for termination/jointing.

- 48.1 **Glass fiber joint boxes** shall be constructed in accordance with drawing SK.30807-2 (for 48.1). Other glass fiber joint boxes shall be constructed to the same shape and specification as shown in SK.30807-2 but shall be constructed so as to accommodate the larger sizes of cable indicated in the Price Schedule.
- 48.3
- 49 **132kV Oil 300mm² Cu sealing end:** see drawing E95239-D2. Oil-filled cable and accessories shall comply with NRS 077 and be type-tested in accordance with IEC 60141-1.
- 50 **66kV Oil 300mm² Cu sealing end:** see drawing E9505058-D8. Oil-filled cable and accessories shall comply with NRS 077 and be type-tested in accordance with IEC 60141-1.
- 51 **132kV Oil 300mm² Cu / Al joints:** see drawing E95343-D4. Oil-filled cable and accessories shall comply with NRS 077 and be type-tested in accordance with IEC 60141-1.
- 52 Oil-filled cable and accessories shall comply with NRS 077 and be type-tested in accordance with IEC 60141-1.
- 53 - Oil-filled cable and accessories shall comply with NRS 077 and be type-tested in accordance with IEC 60141-1 and with the specifications shown in the table under section C.5.4 to comply with the salient power system network specifications.
- 54
- 55 19/33 kV XLPE cable – 1-core 240 mm² Al, See attached Returnable Schedule F.13(c). Product offered must be aluminium sheathed and comply with SANS 1339.
- 56 19/33 kV XLPE cable – 1-core 300 mm² Al, See attached Returnable Schedule F.13(c). Product offered must be aluminium sheathed and comply with SANS 1339.
- 57 19/33 kV XLPE cable – 1-core 400 mm² Al, See attached Returnable Schedule F.13(c). Product offered must be aluminium sheathed and comply with SANS 1339.
- 58 19/33 kV XLPE cable – 1-core 500 mm² Al, See attached Returnable Schedule F.13(c). Product offered must be aluminium sheathed and comply with SANS 1339.
- 59 19/33 kV XLPE cable – 1-core 630 mm² Al, See attached Returnable Schedule F.13(c). Product offered must be aluminium sheathed and comply with SANS 1339.
- 60 19/33 kV PILC cable – 3-core 240 mm² Cu, See attached Returnable Schedule F.13(c). Product offered must be steel-wire armoured and comply with SANS 97.
- 61 19/33 kV PILC cable – 3-core 300 mm² Cu, See attached Returnable Schedule F.13(c). Product offered must be steel-wire armoured and comply with SANS 97.
- 62 19/33 kV PILC cable – 3-core 400 mm² Cu, See attached Returnable Schedule F.13(c). Product offered must be steel-wire armoured and comply with SANS 97.
- 63 19/33 kV PILC cable – 3-core 500 mm² Cu, See attached Returnable Schedule F.13(c). Product offered must be steel-wire armoured and comply with SANS 97.
- 64 **Bunker-type link boxes:** The link disconnecting boxes shall be adequately dimensioned to permit ready access to the links. The casing and lid of underground link disconnecting boxes shall be of robust construction, made of cast iron or stainless steel and shall be to approval. The lid shall be fixed with an adequate number of Allen key type bolts held. The gasket between the lid and the casing shall be of adequate

dimensions to ensure a reliable seal. All link disconnecting boxes to be installed below ground shall be of the horizontal type with diving bell lids suitable for installation in shallow pits below ground level. The link disconnecting boxes shall comply with degree of protection IP68 for a 4 m head to SANS 60529. Provision shall be made for padlocking the lid.

The bunker type link boxes shall be constructed in accordance with ROCLA drawings EA09503A01 and CA09505E01.

- 65.1 Acrow props (struts) shall be a type of adjustable steel prop used for temporary support and shoring in construction, maintenance, and repair applications, and shall be designed to provide a safe and stable means of supporting loads during various operations and must consists of an inner and outer tube with a welded top plate, nut and handle, and chain-less prop pin. The props must comply with SANS 10085-1:2024.
- 65.3
- 66 132kV XLPE cable – 1-core 500 mm² Al, See attached Returnable Schedule F.13(c). Product offered must be steel-wire armoured and comply with SANS 60840 / NRS 077.
- 67 66kV XLPE cable – 1-core 500 mm² Al, See attached Returnable Schedule F.13(c). Product offered must be steel-wire armoured and comply with SANS 60840 / NRS 077.
- 68 – **Glycerine-filled pressure gauges:** The pressure gauges are to be constructed with stainless steel cases and are to have a dial face size of 60mm. The gauges should be constructed so as to enable bottom entry and port size of ¼.inch The gauges must comply with the EN 837-1 and ASME B40.100 standards and be of accuracy class 1.6.
- 69
- 70 – **Pressure gauges with independent electrical switch contacts** shall have a case material of a stainless steel and have the switch contacts that are adjustable over the full extent of the scale range. The gauge shall be circular in shape and 4” in size. The gauges shall be of accuracy class 1.0 as per EN 837-1. The gauge shall comply with the EN 837-1, ASME B40.100 standards, and DIN 16085 or equivalent.
- 71
- 72 – **Digital pressure gauge** shall have a case material of Die-cast zinc with TPE protective rubber cap, an accuracy of 0.25 % of span in eight pressure measuring ranges and include the Instruments with case filling with compensating valve to vent case. The sampling rate shall be at least 100 measurements per second and the gauge shall feature a digital display to indicate pressure and buttons to navigate the interface and various measurements. The connection port shall be of size G ¼.
- 73
- 74 **FERRULE: Bi-metal compression type;** 300mm² – 500mm² Al / Cu. Ferrule suitable for connecting 300 mm² - 500 mm² Aluminium and copper conductor cables in the 132 kV or 66 kV XLPE type insulated sheath type straight joints and shall comply with NRS 028:2013.
- 75 **FERRULE: Bi-metal compression type;** 800mm² – 1000mm² Al / Cu. Ferrule suitable for connecting 800 mm² - 1000 mm² Aluminium and copper conductor cables in the 132 kV or 66kV XLPE type insulated sheath type straight joints and shall comply with NRS 028:2013
- 76 **66kV XLPE cable** – 1-core 800 mm² Al, See attached Returnable Schedule F.13(c). Product offered must be steel-wire armoured and comply with SANS 60840 / NRS 077.
- 77 **66 kV insulated sheath taped type joints for single core XLPE cable sized 800 mm² to 1000 mm² with Aluminium or Copper stranded conductor with corrugated Aluminium sheath** complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), insulating barriers, a silicone compound and glass fibre boxes to CBI - African Cables’

drawing 20547 attached or OEM approved and certified equivalent.

- 78.1 Insulating joint barriers shall be sheath interrupting and shall be in accordance with NRS
 – 077. These barriers will be used in sheath-interrupting joints and thus the barriers shall
 78.3 be physically and electrically compatible with these types of joints.
- 79.1 Insulating joint barriers shall be sheath interrupting and shall be in accordance with NRS
 – 077. These barriers will be used in sheath-interrupting joints and thus the barriers shall
 79.3 be physically and electrically compatible with these types of joints.

C.5.3 APPLICABLE STANDARDS

The following standard and other specifications or documents shall form part of this Specification. All items offered shall conform to these standards.

C.5.3.1 Electricity Association Technical Specifications:

- Doc No. 09-4:1995 66 kV and 132 kV impregnated paper insulated oil-filled and gas-pressure type power cable systems
- Doc No. 09-19:1996 Synthetic aromatic hydrocarbon insulating fluid for use in fluid-filled pressure-assisted cables up to 400 kV operating voltage. (Alkyl Benzene type C14 of BICC or T3788 of Dussek Oils classification or equivalent)

C.5.3.2 Electricity Association Engineering Recommendation:

- Doc No. C55/4:1995 Insulated sheath power cable systems.

C.5.3.3 IEC 60055-1

- Paper-insulated metal-sheathed cables for rated voltages up to 18/30 kV (with copper or aluminium conductors and excluding gas pressure and oil-filled cables) – Part 1: Tests on cables and their accessories
- IEC 60071-1:1993 Insulation co-ordination - Part 1 : Definitions, principles and rule.
- IEC 60071-2:1993 Insulation co-ordination - Part 2 : Application guide.
- IEC 60141-1:1993 Tests on oil-filled and gas pressured cables and their accessories.
- IEC 60811-1-1:2001 Common test methods for insulating and sheathing materials of electric cables and optical cables - Part 1-1: Methods for general application - Measurement of thickness and overall dimensions - Tests for determining the mechanical properties.
- IEC 60811-1-2:2000 Common test methods for insulating and sheathing materials of electric cables - Part 1: Methods for general application - Section Two: Thermal ageing methods.
- IEC 60811-1-3:2001 Common test methods for insulating and sheathing materials of electric cables and optical cables - Part 1-3: General application - Methods for determining the density - Water absorption tests - Shrinkage test.
- IEC 60811-1-4:2001 Common test methods for insulating and sheathing materials of electric cables - Part 1: Methods for general application - Section Four: Test at low temperature
- IEC 60811-2-1:2001 Common test methods for insulating and sheathing materials and optical cables - Part 2-1: Methods specific to elastomeric compounds - Ozone resistance, hot set and mineral oil immersion tests.
- IEC 60811-3-1:2001 Common test methods for insulating and sheathing materials of electric cables - Part 3: Methods specific to PVC compounds - Section One: Pressure test at high temperature - Tests for resistance to cracking.

IEC 60811-3-2:2001	Common test methods for insulating and sheathing materials of electric cables - Part 3: Methods specific to PVC compounds - Section Two: Loss of mass test - Thermal stability test.
IEC 60811-4-1:2001	Common test methods for insulating and sheathing materials of electric cables - Part 4: Methods specific to polyethylene and polypropylene compounds - Section One: Resistance to environmental stress cracking - Wrapping test after thermal ageing in air - Measurement of the melt flow index.
IEC 60811-4-2:2001	Common test methods for insulating and sheathing materials of electric cables - Part 4: Methods specific to polyethylene and polypropylene compounds - Section Two: Elongation at break after pre-conditioning - Wrapping test after thermal ageing in air.
IEC 60141-1: 1993	Tests on oil-filled and gas-pressure cables and their accessories - Part 1: Oil-filled, paper or polypropylene paper laminate insulated, metal-sheathed cables and accessories for alternating voltages up to and including 500 kV
C.5.3.4 CENELEC HD 629.2	Test requirements on accessories for use on power cables of rated voltage from 3,6/6 (7,2) kV up to 20,8/36 (42) kV – Part 1: Cables with impregnated paper insulation.
EN 837-1	Bourdon tube pressure gauges
ASME B40.100	Pressure Gauges and Gauge Attachments
DIN 16085	Pressure gauges with electrical limit contact devices
C.5.3.5 SANS	
SANS 97	Electric cables – Impregnated paper-insulated metal-sheathed cables for rated voltages 3,3/3,3 kV up to 19/33 kV (excluding pressure assisted cables)
SANS 1339	Electric cables — Cross-linked polyethylene (XLPE) insulated cables for rated voltages 3,8/6,6 kV to 19/33 kV
SANS 10198	The selection, handling and installation of electric power cables of rating not exceeding 33 kV
SANS 61238-1	Compression and mechanical connectors for power cables for rated voltages up to 30 kV (Um – 36 kV) Part 1: Test methods and requirement.
SANS 935	Hot-dip (galvanized) zinc coatings on steel wire.
SANS 1332	Accessories for medium-voltage XLPE and impregnated paper insulated power cables (3,8/6,6 kV to 19/33 kV)
SANS 1411-1	Materials of insulated electric cables and flexible cords Part 1: Conductors
SANS 1411-2	Materials of insulated electric cables and flexible cords Part 2: Polyvinyl chloride (PVC)
SANS 1411-6	Materials of insulated electric cables and flexible cords Part 6: Armour
SANS 60502-4	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 4: Test requirements on accessories for cables with rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV).
SANS 60529	Degrees of protection provided by enclosures (IP code).
SANS ISO 9001:2018	Quality management systems - Requirements
SANS 0198	All Parts The selection, handling and installation of electric power cables of rating not exceeding 33kV.

SANS 60840 Power Cables with Extruded Insulation and their Accessories for Rated Voltages above 30 kV ($\mu[m] = 36 \text{ kV}$) up to 150 kV ($\mu[m] = 170 \text{ kV}$) - Test Methods and Requirements

SANS 10085-1 The design, erection, inspection, use, modification and dismantling of steel accessscaffolding and working platforms

C.5.3.6 NRS 053 Accessories for medium-voltage power cables (3,8/6,6 kV to 19/33 kV).

NRS 028 Cable Lugs and Ferrules for Cu and Al Conductors preferred requirements for the application in the Electrical Supply Industry

NRS 075 Mechanical torque-shear connectors for medium voltage applications.

NRS 077 XLPE-linsulated cables and accessories for systems with nominal voltage of 44 kV, 66 kV 88 kV and 132 kV.

C.5.3.7 Reference to a particular standard or recommendation in this Specification does not relieve the Manufacturer of the necessity of the contracted works complying with other relevant standards or recommendations.

C.5.3.8 The design features of all equipment shall be based on the SI system of units.

C.5.4 POWER SYSTEM DESIGN AND OPERATING CONDITIONS

The specified cable accessories and cable jointing materials are to be deployed and must be suitable for use on the City of Cape Town existing high voltage underground cable installations which form part of a number of 33, 66 and 132kV 3 phase/50 Hz interconnected networks.

These power system networks transmit electrical energy by means of overhead lines and underground cables to a number of switching stations at voltages of 132 kV, 66 kV and 33 kV between phases; the working voltage of any part of the transmission system will normally not exceed ten percent above these levels. The system may, however, operate continuously at this upper limit and all equipment shall be designed accordingly.

The neutral points of the 132 kV and the 66 kV systems are directly earthed at each point of transformation.

The 33 kV and the 11 kV systems are earthed either direct or through a resistor, having a value of 9,5 Ω and 4 Ω respectively, as the occasion demands.

The following table summarises the salient power system network specifications.

Item	Description	Particulars (33kV/66kV/132kV Joints)
1	General site altitude	Sea level
2	Soil temperature	
2.1	Minimum °C	5
2.2	Maximum °C	25
3	Thermal resistivity of soil °C.m/W	1,2
4	Nature of soil	Rocky/Ferrocete or Sand
5	Nominal depth of laying m	1,0
6	Nominal system voltage, U_0 (kV)	66 / 132
7	System highest voltage, U_m (kV)	72,5 / 145
8	System frequency (Hz)	50
9	Earthing of system neutral	Solid
10	Maximum system symmetrical fault level (single and three phase) which the completed installation, conductor and metallic sheath must be capable of withstanding:	

10.1	Short circuit current kA.1s	25 / 31,5
10.2	Asymmetrical crest factor	2,5
	FLUID FILLED CABLES	
11	Maximum permissible conductor temperature (°C)	85
12	Type of sheath of fluid-filled cable	Corrugated Seamless Aluminium or Lead Alloy
13	Type of outer covering of cable	PVC
14	Maximum sheath standing voltage at rated current (V)	65
15	Maximum continuous generating hydraulic pressure (kPA gauge)	500
	XLPE CABLES	
16	Maximum permissible conductor temperature (°C)	90
17	Type of sheath of cable	Corrugated Seamless Aluminium or Lead Alloy
18	Type of outer covering of fluid-filled cable	HDPE
19	Maximum sheath standing voltage at rated current (V)	55
	PILC CABLES	
16	Maximum permissible conductor temperature (°C)	70
17	Type of sheath of cable	Corrugated Seamless Aluminium or Lead Alloy
18	Type of outer covering of fluid-filled cable	HDPE
19	Maximum sheath standing voltage at rated current (V)	54

C.5.5 GENERAL REQUIREMENTS FOR JOINTS CONSTRUCTION

- C.5.5.1 Joint boxes of approved material and of the fully insulated type shall be provided for all joints. The joint boxes shall be capable of withstanding, without deformation, any pressure to which they may be subjected during the process of filling the joints (where applicable) and under working conditions.
- C.5.5.2 Where compound filled outer protection boxes for joint box protection are to be supplied, the protection box compound shall not soften at operating temperatures of up to 95 °C.
- C.5.5.3 Each 3 core joint shall be fitted with a valve pin which will restrict oil flow during the jointing process. The valve pin shall be designed so that it is easily removed on completion of each joint and easily replaced should it be required. Each joint shall be fitted with an oil draining device which can be removed or replaced at any time.
- C.5.5.4 Breeches pieces must be located so that the circulation of oil is promoted and areas of fluid stagnation are minimized.
- C.5.5.5 The joints shall be supplied with all necessary material and jointing instructions required for making the joints in their entirety. The equipment for each joint shall be packed in a separate case and 2 copies of packing lists, drawings and diagrams of the product delivered must be supplied (one in a box and one attached to delivery note) with a set of jointing instructions for each kit.

For the purpose of evaluation tenderers must submit a set of jointing instructions for each joint kit tendered with the tender offer. Failure to provide within 5 working days of written request will render the offer non-responsive.

- C.5.5.6 Tenderers must submit technical details (assembly drawings) of the joints offered. Failure to submit these within 5 working days of written request will render the offer non-responsive.

C.5.6 33kV OUTDOOR TERMINATIONS for PILC conductor - Specifications

C.5.6.1 General

- The 33kV cable outdoor terminations shall be heat shrink terminations complying fully with the requirements of SANS 1332 for outdoor terminations, except where specifically required otherwise in terms of this specification.
- The 33kV cable outdoor terminations shall be of the following standard types and sizes:
 - Heat shrink outdoor termination; suitable for 120 mm² to 185 mm², 3-core, screened 33 kV PILC cable. (Item 43 of Pricing Schedule C.4)
 - Heat shrink outdoor termination; suitable for 240 mm² to 500 mm², 3-core, screened 33 kV PILC cable. (Item 44 of Pricing Schedule C.4)
 - Heat shrink outdoor termination; suitable for 240 mm² to 500 mm², single-core, screened 33 kV PILC cable. (Item 45 of Pricing Schedule C.4)
- The 33kV cable outdoor terminations for PILC cable shall be suitable for use on 33 kV, 3-core and single core, aluminium or copper conductor, paper insulated, screened, lead sheathed, hessian bedded, galvanized double steel tape armoured, PVC served general purpose underground cables manufactured to Table 19 of SANS 97 (Wet Design) and compliant with SANS 1411, and for use on an earthed system.
- The 33kV cable outdoor terminations shall have been successfully type tested, including thermal short circuit test, in accordance with the requirements of SANS 1332.
- The 33kV cable outdoor terminations will be terminated on MV overhead lines and line hardware.
- The 33kV cable outdoor terminations shall be suitable for cable terminations with tail lengths of 1200mm, measured on the stripped and prepared cable from the base of the lug or connector barrel to the top of the lead sheath (or non-metallic sheath and bedding in the case of XLPE cable with non-metallic sheath).
- All materials, components and accessories forming part of the termination kit shall be appropriately sized for the tail lengths, core diameters and cable diameters of the specified cable. Heat shrink tubing shall include a positive length tolerance to allow for variation in cable tail length to meet particular site conditions. Tenderers shall detail the size and length per component in the detailed BOM included in Schedule F.13(c).
- Heat shrink tubing shall be of cross-linked polyolefin material. PVC heat shrink tubing shall not be acceptable. Shrinkage of heat shrink tubing in the longitudinal axis shall be less than 10% of the original unshrunk length.
- Anti-track tubing shall be adhesive-lined cross-linked polyolefin material and shall be designed and provided with additives to inhibit the development and progression of surface discharge tracking and erosion. Tenderers shall provide detail with their tender of the anti-tracking properties of the tubing and shall detail the tracking index in Schedule F.13(c).
- The 33kV cable outdoor terminations shall be supplied complete with all necessary tubing, materials, components and accessories as required to make a complete termination on the specified cable

type, size and tail length, in accordance with the bill of materials of the type tested cable termination.

- Components shall include (but not be limited to) the following:
 - Heat shrink clear oil barrier tubing (Terminations for PILC cable).
 - Heat shrink conductive tubing for cable screen (Terminations for PILC cable).
 - Void filling stress relieving mastic / tape for screen cut.
 - Heat shrink stress control tubing.
 - Profiled wedge for cable crutch.
 - Void filling and profiling mastic / tape for breakout boot.
 - Heat shrink conductive breakout boot.
 - Void filling mastic / tape for lug barrel base.
 - Heat shrink high voltage anti-track tubing for complete tail length.
 - Heat shrink anti-track rain sheds.
 - Further binders and tapes as required.
 - Mechanical earthing kits.
 - Shear off Lugs
- The Tenderer shall include with his tender a detailed bill of materials for each termination (including the mechanical earthing kits, where specified), listing the part numbers and descriptions, sizes and lengths of all tubing, materials, components and accessories included in the tendered terminations.
- The Tenderer shall complete Schedule F.13 with full details of the accessories offered.
- The Tenderer shall provide with his tender a jointing instruction per cable termination type. Jointing instructions shall detail top-down measurements so as to maximise the length of the screened portion of the core tail and enable core crossings on the completed termination.
- Jointing instructions with top-down measurements shall in addition be packaged with each termination.
- Termination kits shall include a Jointer Identification Marker which shall comprise a non-metallic, non-conducting cable tie or similar strap that can be secured permanently around the cable outersheath adjacent to the finished termination. The strap shall be fitted with a heat shrink label identifying the accessory manufacturer and model no and shall have space for the jointer name and date of completion of the joint to be filled in. A further transparent heat shrink sleeve shall be provided which shall cover the label completely and both shall be shrunk down over the cable tie / strap by the jointer and shall provide a watertight permanent marking once shrunk onto the strap and the strap secured to the cable outersheath.
- The Tenderer shall indicate in his tender details of the shelf life for the complete termination kits and the particular shelf life for any components of the termination kits that specifically limit the shelf life of the complete kit.

- Tenderers offering terminations differing from the specified requirements shall disclose full details of and motivation for the deviations from the specification, and acceptance of these will be subject to the Engineer's approval.

C.5.6.2 Earthing

- The 33kV cable outdoor terminations shall include mechanical earthing kits
- Mechanical earthing kits shall comply with the requirements of SANS 1332.
- The mechanical earthing kits for 33kV cable terminations shall be supplied complete with all necessary tubing, materials, components and accessories, in accordance with the bill of materials of the type tested cable termination. Components shall include (but not be limited to) the following:
 - Water blocked main earth braid.
 - Tinned copper mesh and constant force roll spring for connection to lead sheath (PILC cable).
 - Constant force roll spring for connection to DSTA armour (PILC cable)
 - Waterblocking sealant tape for cable outersheath.
 - Insulating heat shrink cover tubing.
 - Further components, binders and tapes as required.

C.5.7 QUALITY, DESIGN AND EXECUTION

C.5.7.1 All apparatus should comply with this Specification, no departure shall be implemented without the prior approval of the CCT Representative. If necessary, all the materials will be inspected by the Engineer at manufacturer's premises before dispatch..

C.5.8 PACKING, SHIPPING AND TRANSPORT

C.5.8.1 The Contractor shall be responsible for the packing, loading and transport of the equipment from the place of manufacture, whether this is at his own works or those of any supplier, to the City of Cape Town - Electricity Stores, Melck Street, Ndabeni, Cape Town, South Africa.

C.5.8.2 Any damage due to defective or insufficient packing shall be made good by the Contractor at his own expense and within reasonable time when called upon by the Municipality to do so. Two copies of complete packing lists showing the number, size, marks, mass, tender number, item number and contents of each package shall be posted to the Employer immediately after the material is dispatched. Shelf life of components must be indicated in packing lists.

C.5.8.4 Tenderers are to state the maximum delivery period for each item offered in the **(5) Pricing Schedule**.

C.5.9 GENERAL PARTICULARS AND GUARANTEES

C.5.9.1 The Contractor shall be responsible for any discrepancies, errors or omissions in the particulars and guarantees, whether or not such particulars and guarantees have been approved by the CCT Representative (Refer to Schedule F.11).

C.5.9.2 Tenderers shall state what guarantee would be offered to cover the possibility of failure of the stop joints within 12 months of installation.

C.5.9.3 The cause of the fault shall be determined by a joint inspection by the City of Cape Town's Representative and the Client Representative. All faults covered by the Contractor shall be rectified in a reasonable timeframe at the Contractor's cost. The manufacturers and places of manufacture, testing and inspection of the various portions of the Works shall be stated in Schedule F.11. Any changes shall be made with the written agreement of the Engineer and the Contractor shall ensure that the manufacturers and places of manufacture are acceptable to the Engineer.

C.5.10 ACCREDITED DISTRIBUTORS

C.5.10.1 Tenderer must be an accredited distributor of the product offered. Proof in form of a letter from the OEM (Original Equipment Manufacturer) must be submitted with tender submission or on request during evaluation of this tender.

C.5.11 SAMPLES

C.5.11.1 Samples of various items, such as paper tapes, may be requested from responsive tenderers for the purpose of tender evaluation. Samples must be delivered to CCT at the tenderer's cost.

C.5.11.2 CCT reserves the right to keep certain samples.

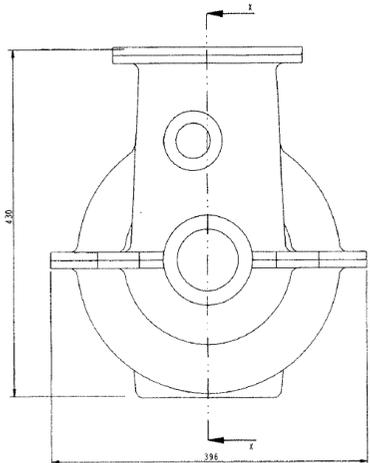
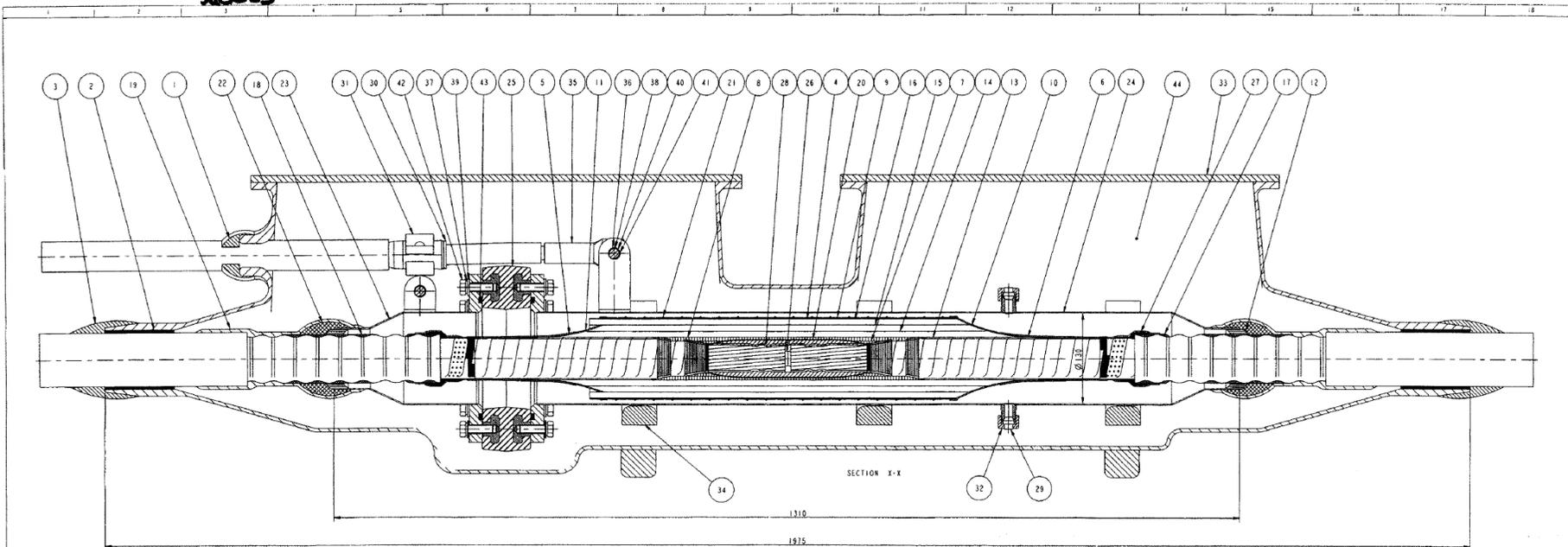
C.5.11.3 Should the tenderer require the samples to be returned, this will be for the tenderer's own cost.

C.5.12 List of Drawings

The following drawings are attached to the specification

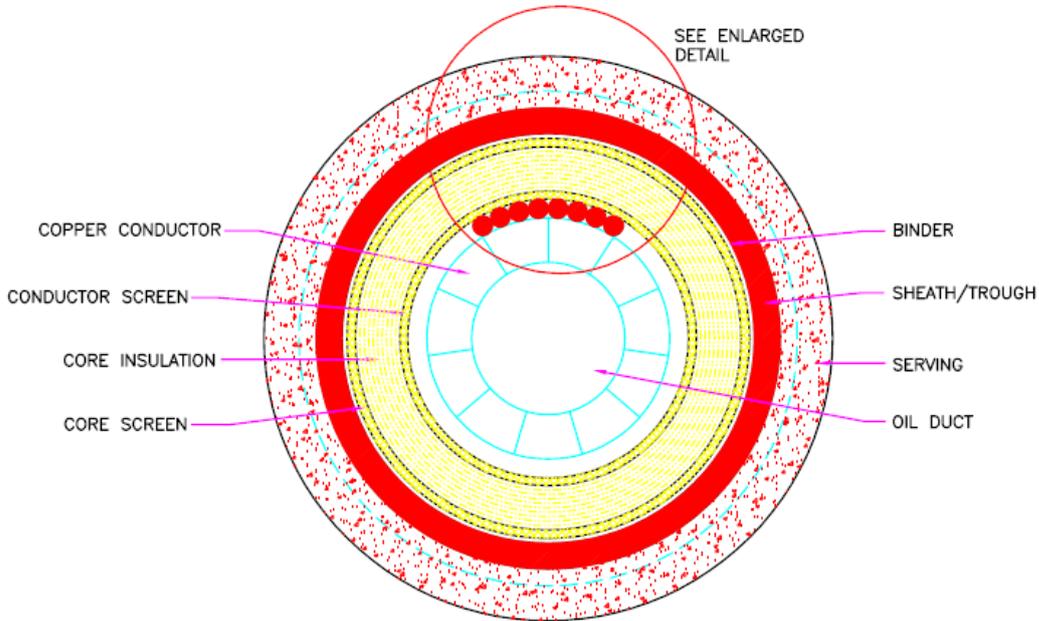
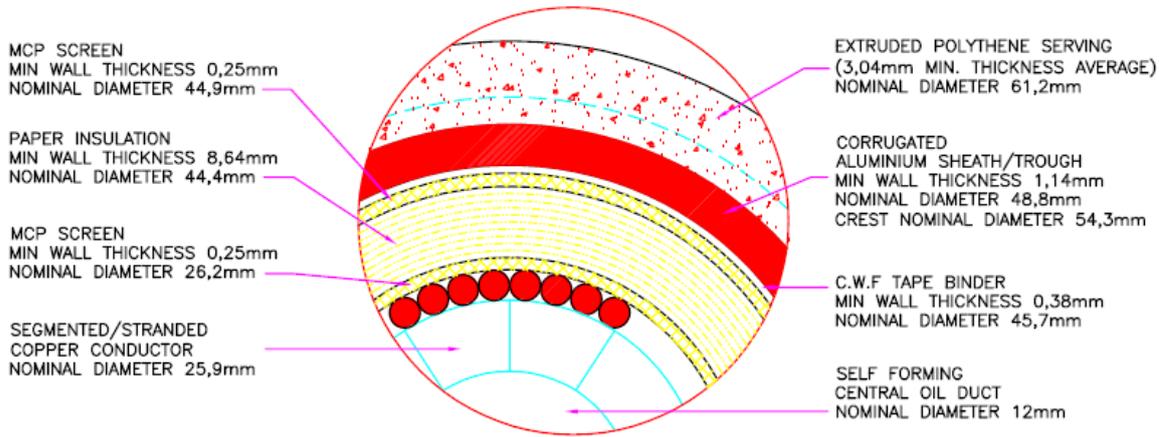
Prysmian: Drawing No. 707673
Prysmian: Drawing No. 540023
Sketch SK 5168
Sketch SK 5169
BICC Sketch: 7400-05508-0618-002
BICC: Drawing No. E95343-D4
BICC: Drawing No. 31388
BICC: Drawing No. 30918/1
Sketch SK 5166
Pirelli: Drawing No. 545303
Sketch CA/E349
BICC: Drawing No. E95057-D6
BICC: Drawing No. 30542
BICC: Drawing No. CSD 66/02926
CBI: Drawing No. 20547
CBI: Sketch F2PC 068
CBI: Sketch F2PA 068
CBI: Data Sheet 132kV HV XLPE COPPER HIGH STRESS
CBI: Drawing No. F2_1_068
Sketch: SK.30807/2
Brugg: Data sheet No. S1925-4
Brugg: Data sheet No. S1966-4
Brugg: Data sheet No. S1964-4
Brugg: Data sheet No. S1962-4
ROCLA: Drawing EA09503A01
ROCLA: Drawing CA09505E01
BICC: Drawing E95239 - D2
BICC: Drawing E95058 - D8
BICC: Drawing E95343 - D4

Sheet 23



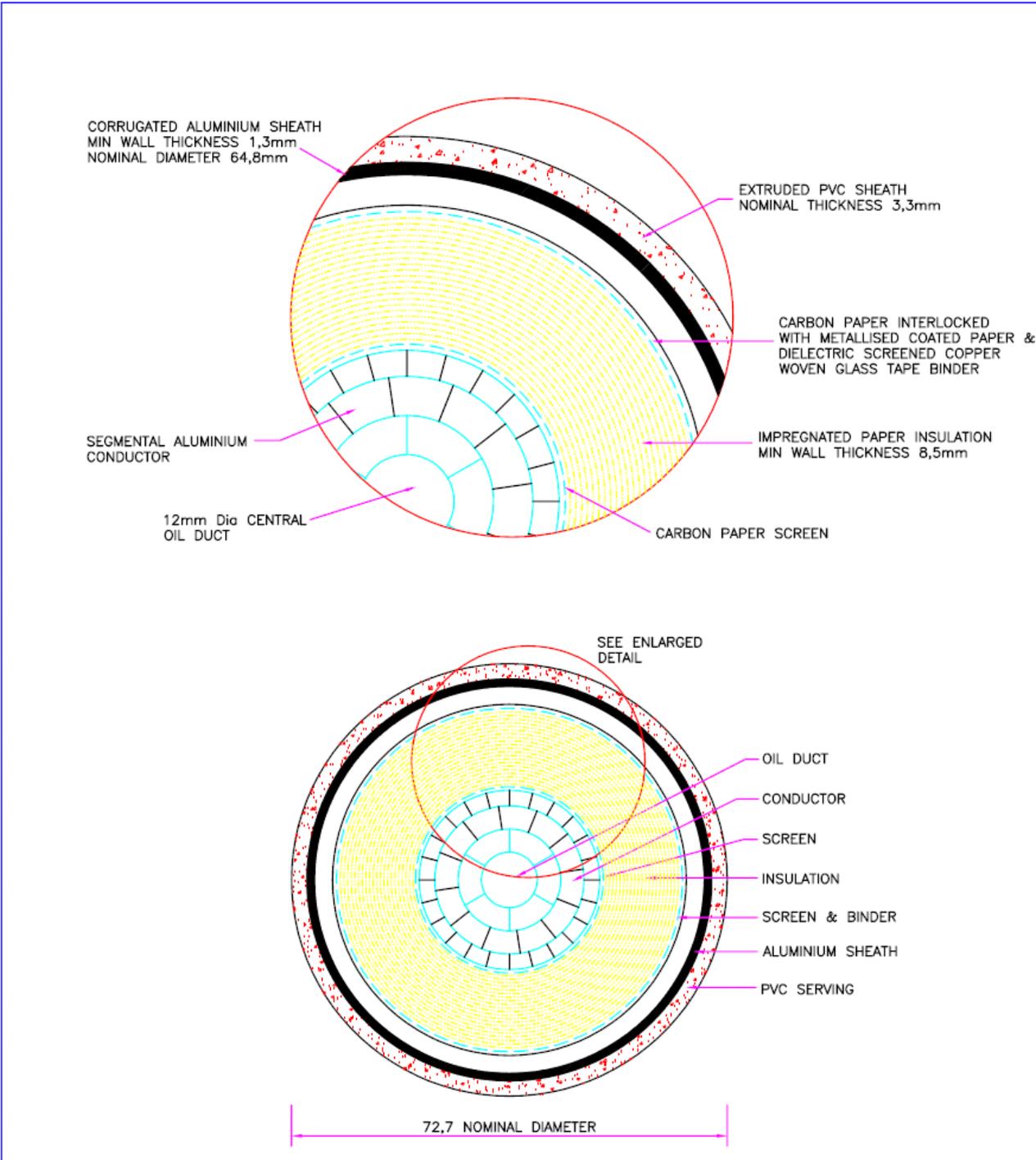
QTY	PART NUMBER	MATERIAL	DESCRIPTION	ITEM	QTY	PART NUMBER	MATERIAL	DESCRIPTION	ITEM
1	8MCO-40-10	BITUMEN	COMPOUND PG No 48	44	2	ZOPG-H	LEAD/TIN	PLUMBED WIPE	22
2	8RVO-RG-03438	VITON RUBBER	TWO SECTION O-RING	43	1	8CTI-WR-013	TINNED COPPER WIRE	STRESS WIRE	21
16	8ESO-XH-022	STAINLESS STEEL	M12 X 40 SETSCREW	42	1	8PBO-842	CREPE PAPER	CARBON BLACK	20
2	8ESO-XH-011	STAINLESS STEEL	M16 X 45 SETSCREW	41	2	8VMO-FM-753958	EPOXY RESIN/GLASS-FIBRE	REINFORCED WIPE	19
2	8ESO-WS-M16	STAINLESS STEEL	M16 STANDARD WASHER	40	2	ZOPG-H	LEAD/TIN	PLATFORM	18
16	8ESO-WS-M12	STAINLESS STEEL	M12 STANDARD WASHER	39	2	ZOPG-H	LEAD/TIN	PLATFORM	17
2	8ESO-WH-M168	STAINLESS STEEL	SPRING WASHER M168	38	1	8PBO-842	PAPER	INSULATION TUBE	16
16	8ESO-WH-M120	STAINLESS STEEL	M12 SPLIT WASHER	37	1	8PBO-842	PAPER	INSULATION TUBE	15
2	8ESO-WH-M16	STAINLESS STEEL	M16 FULL NUT	36	1	8PBO-842	PAPER	INSULATION TUBE	14
1	8CMI-LG-XXX	COPPER	CRIMPED LUG	35	2	8PBO-842	PAPER	INSULATION TUBE	13
3	8425-001-035	CAST RESIN	SPACER	34	2	2CTI-ST-018	COPPER STRIP	PACKING	12
1	8417-47-005	GLASS-FIBRE	GLASS-FIBRE BOX	33	1	8CTI-WR-013	TINNED COPPER WIRE	STRESS WIRE	11
2	8290-102-004	STAINLESS STEEL	1/2 BSP HEXAGONAL NUT	32	1	8CTI-WR-013	TINNED COPPER WIRE	STRESS WIRE	10
1	8280-015-XXX	COPPER	CONCENTRIC BONDING CLAMP	31	1	2CTI-ST-002	TINNED COPPER STRIP	STRESS TAPE	9
1	8211-016-XXX	COPPER	BONDING SLEEVE	30	1	8PBO-842	CREPE PAPER	FILLER	8
2	8199-019-005	BRASS	VENT RIPPLE	29	2	8PBO-842	CREPE PAPER	FILLER	7
1	8178-XXX-XXX	COPPER	FERRULE	28	1	8PBO-842	CREPE PAPER	CARBON BLACK	6
2	8133-XXX-XXX	HIGH NITRILE TYPE 2	RUBBER SLEEVE	27	1	8PBO-842	CREPE PAPER	CARBON BLACK	5
2	8062-XXX-XXX	MILD STEEL	DUCT PLUG	26	1	8PBO-842	PAPER SHEET	CARBON BLACK	4
1	7122-063-003	APG	INSULATING RING	25	2	8HNO-PH-002	PUTTY/F TAPE	POULTICE	3
1	7036-171-XXX	BRASS/COPPER	FLANGE & END SUB-ASSY	24	2	2SV0-1A-14	PVC TAPE	PACKING	2
1	7031-132-XXX	BRASS/COPPER	FLANGE & END SUB-ASSY	23	1	8HNO-PH-002	PUTTY/F TAPE	POULTICE	1

100% MANUFACTURED BY 80% MANUFACTURED BY 20% MANUFACTURED BY	IF IN DOUBT ASK 1 DIMENSIONS ARE IN MILLIMETRES 	TOLERANCES UNLESS OTHERWISE STATED LINEAR ±0.2 ANGULAR ±0.5° CAD SCALE 1:0.500	SURFACE FINISH SHOWN THIS IS TO BS1134 UNLESS OTHERWISE STATED MATERIAL SPEC	TITLE ARRANGEMENT OF INSULATED 630V STRAIGHT JOINT FOR S/C FLUID-FILLED HOLLOW CORE CABLE FOR ABOVE 630 UP TO & INCL 1000mm ²	DRAWN: [Signature] CHECKED: [Signature] APPROVED: [Signature] DATE: 13-3-21 EDO-1-06 540023
	THE DIMENSIONS TO THE DIMENSIONS OF THE DRAWING ARE TO BE TAKEN FROM THE DIMENSIONS OF THE DRAWING UNLESS OTHERWISE STATED. THE DIMENSIONS TO THE DIMENSIONS OF THE DRAWING ARE TO BE TAKEN FROM THE DIMENSIONS OF THE DRAWING UNLESS OTHERWISE STATED. THE DIMENSIONS TO THE DIMENSIONS OF THE DRAWING ARE TO BE TAKEN FROM THE DIMENSIONS OF THE DRAWING UNLESS OTHERWISE STATED.	PRYSMIAN CABLES & SYSTEMS CABLE ACCESSORIES DESIGN OFFICE BRISTOL UK	13/06/21		



SINGLE CORE HOLLOW SEGMENTED/STRANDED
COPPER CONDUCTOR, CORRUGATED SEAMLESS
ALUMINIUM SHEATHED AND SERVED 132kV
OIL FILLED 355mm² CABLE

CITY OF CAPE TOWN ELECTRICITY SERVICES	DRAWN	A.E.HALL	14/10/04	SCALE: N.T.S	REV
CHIEF DRAUGHTSMAN:	COMPILED	A.E.HALL	14/10/04	SHEET 1	
D.E.S:	INFO	V.MEDINSKI		SK 5168	
	CHECKED				



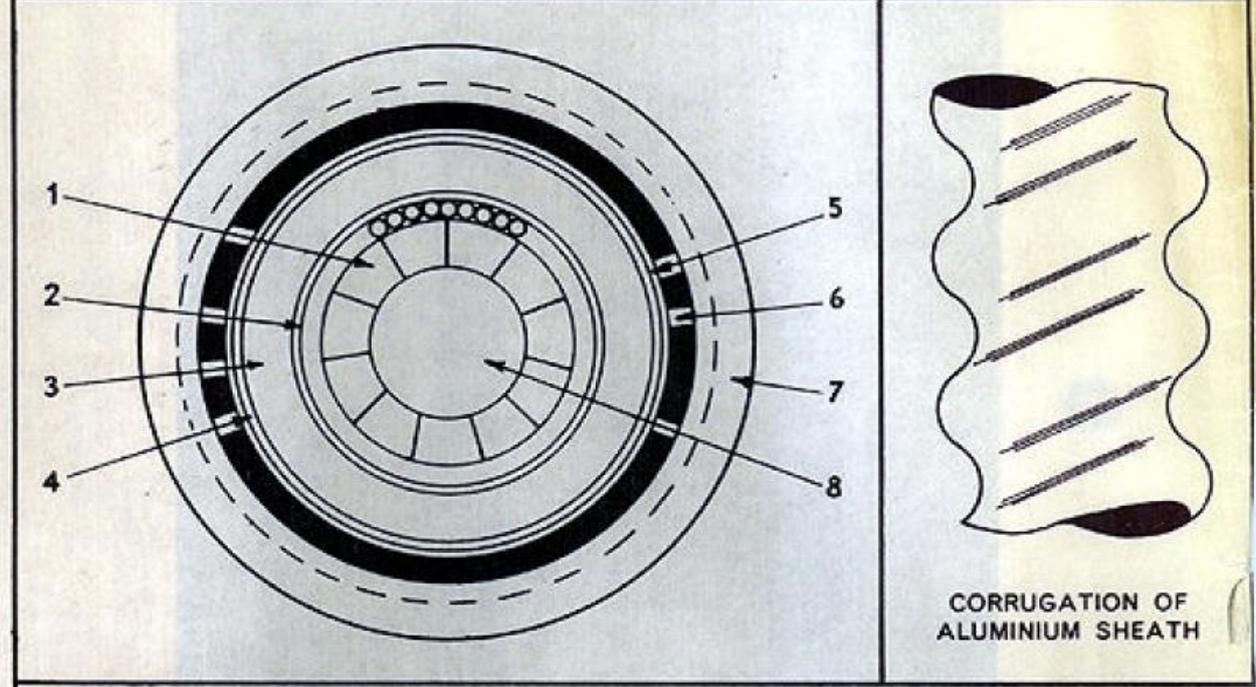
SINGLE CORE HOLLOW SEGMENTAL ALUMINIUM CONDUCTOR, CORRUGATED SEAMLESS ALUMINIUM SHEATHED AND SERVED 132kV OIL FILLED 800mm² CABLE

CITY OF CAPE TOWN ELECTRICITY SERVICES CHIEF DRAUGHTSMAN:	DRAWN	A.E.HALL	14/10/04	SCALE: N.T.S	REV
	COMPILED	A.E.HALL	14/10/04	SHEET 1	
D.E.S:	INFO	V.MEDINSKI		SK 5169	
	CHECKED				

POWER CABLES DIVISION	BICC	SYSTEMS DESIGN DEPARTMENT
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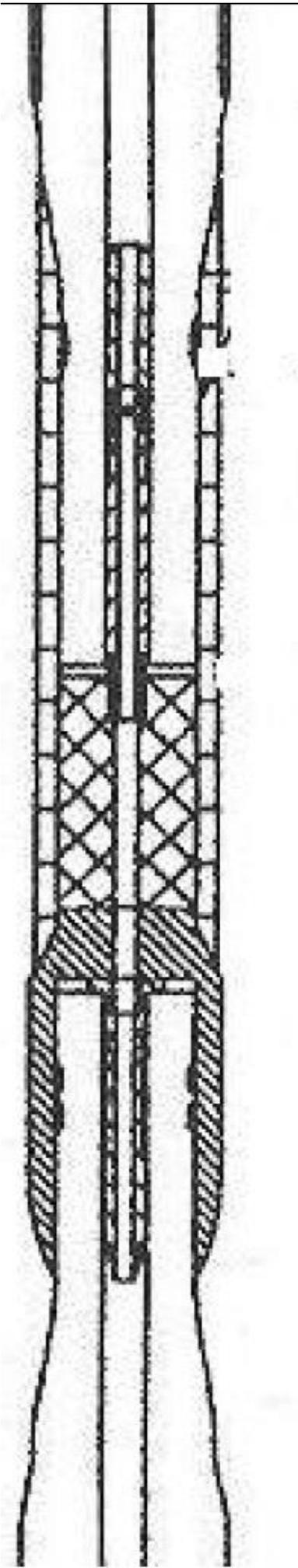
TYPE OF CABLE :- SINGLE CORE HOLLOW CONDUCTOR, CORRUGATED SEAMLESS ALUMINIUM SHEATHED AND SERVED	QF
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SYSTEM VOLTAGE :- 132 kV	DESIGN STRESS :- 115 KV/CM	CONDR. SIZE :- 0.55 SQ. IN.
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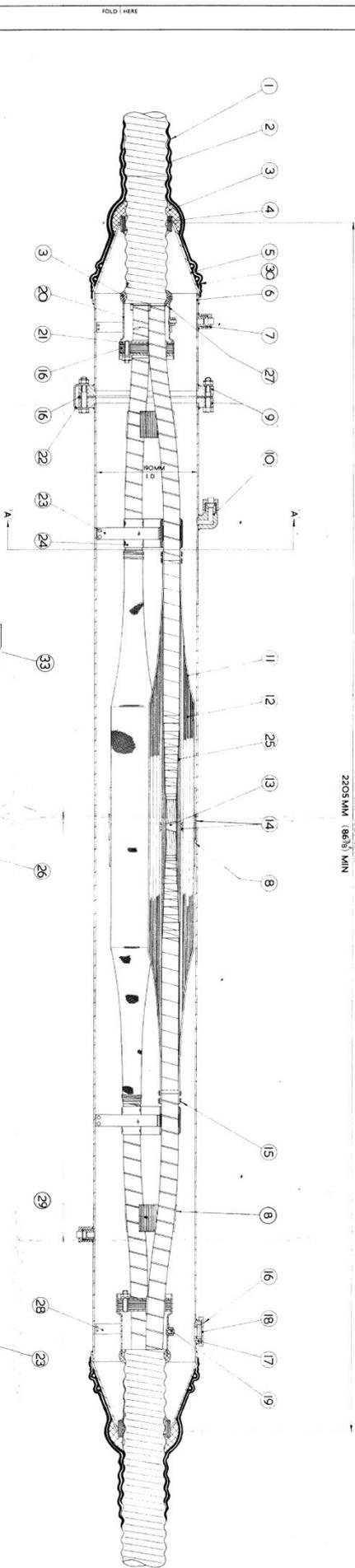
ITEM	DESCRIPTION	DETAILS	MIN. RAD. WALL (INS)	NOMINAL DIAMETER (INS)
1	CONDUCTOR	COPPER	—	1.018
2	SCREEN	M.C.P.	0.010	1.038
3	INSULATION	PAPER	0.340	1.748
4	SCREEN	M.C.P.	0.010	1.768
5	BINDER	C.W.F. TAPE	0.015	1.798
6	SHEATH—TROUGH	ALUMINIUM	0.045	1.92
	RIB HT. LAY	—	—	—
	CREST	—	—	2.14
7	SERVING	EXTRUDED POLYTHENE	0.120 MIN AVE	2.41
8	CENTRAL OIL DUCT	SELF FORMING	12 M.M	—

CABLE SECTION DRAWING	No. 7400-05508-0618-002	DRN. BY NK DATE 12.2.69
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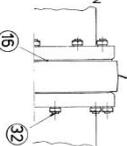
E95343-D4



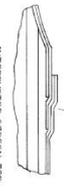
2335 MM (92") MAX.
2205 MM (86 7/8") MIN

- 1 P.V.C. TAPE
- 2 SELF AMALGAMATING POLYTHENE TAPE
- 3 WIPED JOINT
- 4 LEAD PACKING
- 5 COPPER END CONE
- 6 STEEL JOINT SLEEVE
- 7 IMPREGATING UNION
- 8 GLASS FIBRE BINDING TAPES
- 9 STEEL FLANGES
- 10 OIL FEED UNION
- 11 TINSSEL BRAID OVER CARBON CREPE PAPER TAPE
- 12 IMPREGATED PAPER ROLLS
- 13 M.I.G. JOINTED ALUMINIUM CONDUCTORS
- 14 CREPE PAPER TAPES
- 15 LINEN THREAD WHIPPING
- 16 SEALING WASHER (SYNTHETIC RUBBER)
- 17 BRASS BOSS
- 18 BLANKING CAP
- 19 VALVE
- 20 BREECHESS PIECE ASSEMBLY
- 21 CLAMPING PLATE (BRASS)
- 22 BONDING STRAP (COPPER)
- 23 ALUMINIUM SPREADER
- 24 VARNISHED GLASS-FIBRE TAPE
- 25 IMPREGATED PAPER TAPE
- 26 COMPRESSION FERRULE (COPPER)
- 27 TINNED COPPER WIRE BONDING OIL DUCTS TO SHEATH
- 28 3 SUPPORT LEGS FOR BREECHESS PIECE
- 29 IMPREGATED CREPE PAPER TAPE ROLL
- 30 RESIN & GLASS FIBRE TAPE
- 31 INSULATING PLATE
- 32 STUD
- 33 INTERRUPTED SCREEN USED IN CONJUNCTION WITH ITEM 31
- 34 BONDING LUG

INSULATED FLANGE JOINT



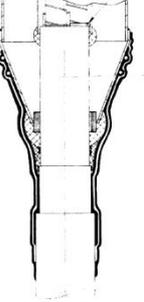
INTERRUPTED SCREEN FOR INSULATED FLANGE JOINTS



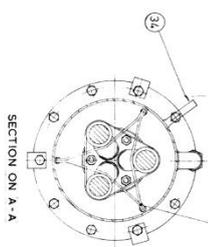
COPPER CONDUCTOR COMPRESSION JOINT FERRULE



TERMINATION OF LEAD SHEATH TYPE CABLE



SECTION ON A-A



N.B THIS DESIGN OF JOINT IS INTENDED FOR USE ONLY IN CONTAINERS
 (± 9 GLASS FIBRE BOX OR CONCRETE) FILLED WITH BITUMINOUS COMPOUND.
 FOR DRAWING SHOWING JOINT IN GLASS FIBRE BOX SEE SKETCH No. 30807
 FOR DESIGN No. COVERED BY THIS Dwg. SEE SKETCH No. 30802

THIRD ANGLE PROJECTION.
 SCALE: 0 1 2 3 4 5 6 INCHES
 0 1 2 3 4 5 6 CM MAX

DO NOT SCALE WORKING DIMENSIONS.

DATE	No.	MODIFICATION	SIG.
1.1.88	1	REVISED DRAWING OF REINFORCEMENT JOINT	S
8.4.85	3	Isolated flange added.	McL
20.11.80	2	RESIN & GLASS FIBRE TAPE ADDED	S

SIG.	DATE
McL	5.7.71

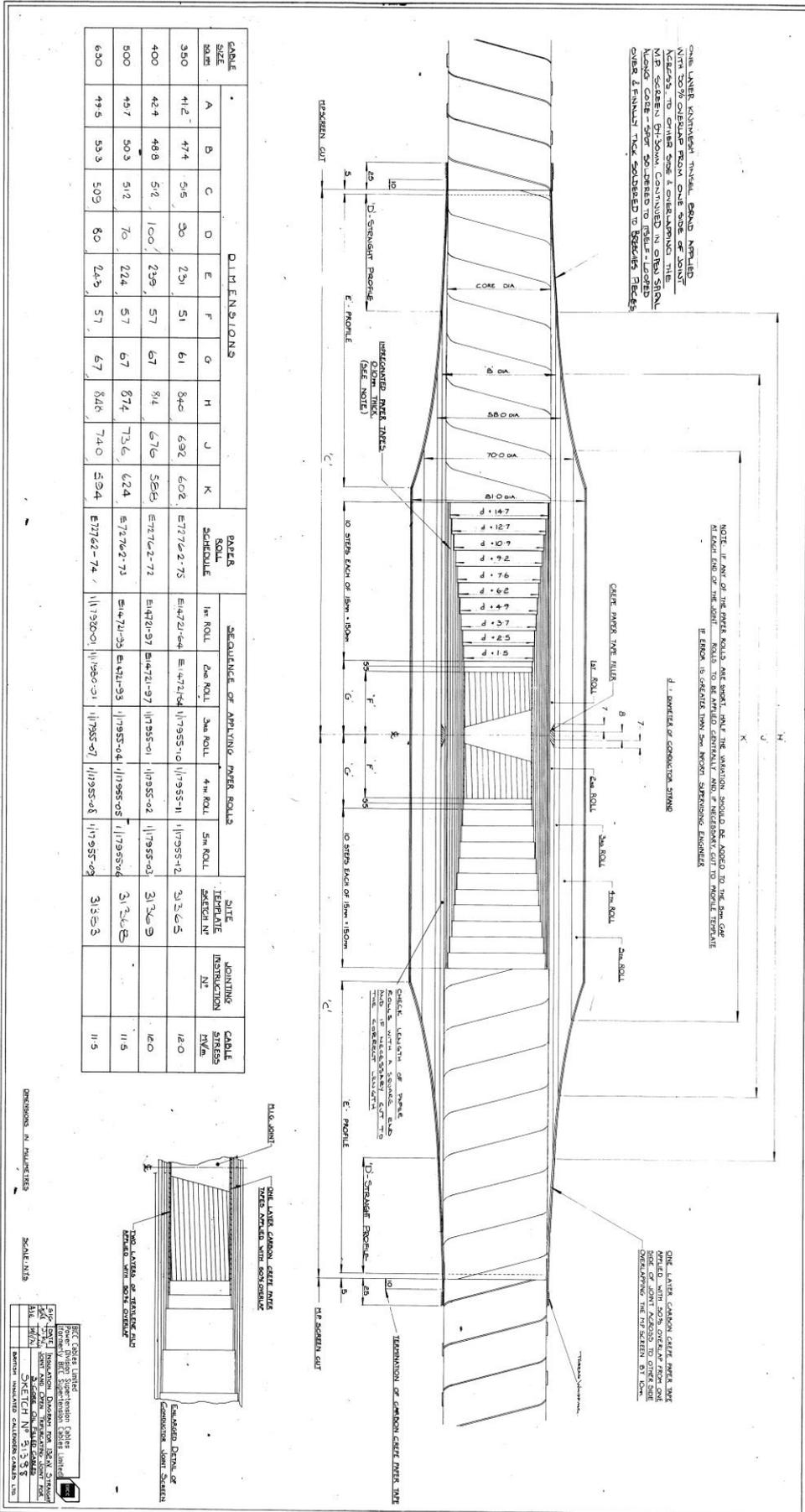
DESIGN NO SUPER-TENSION CABLES DIVISION, BRNH, KENT

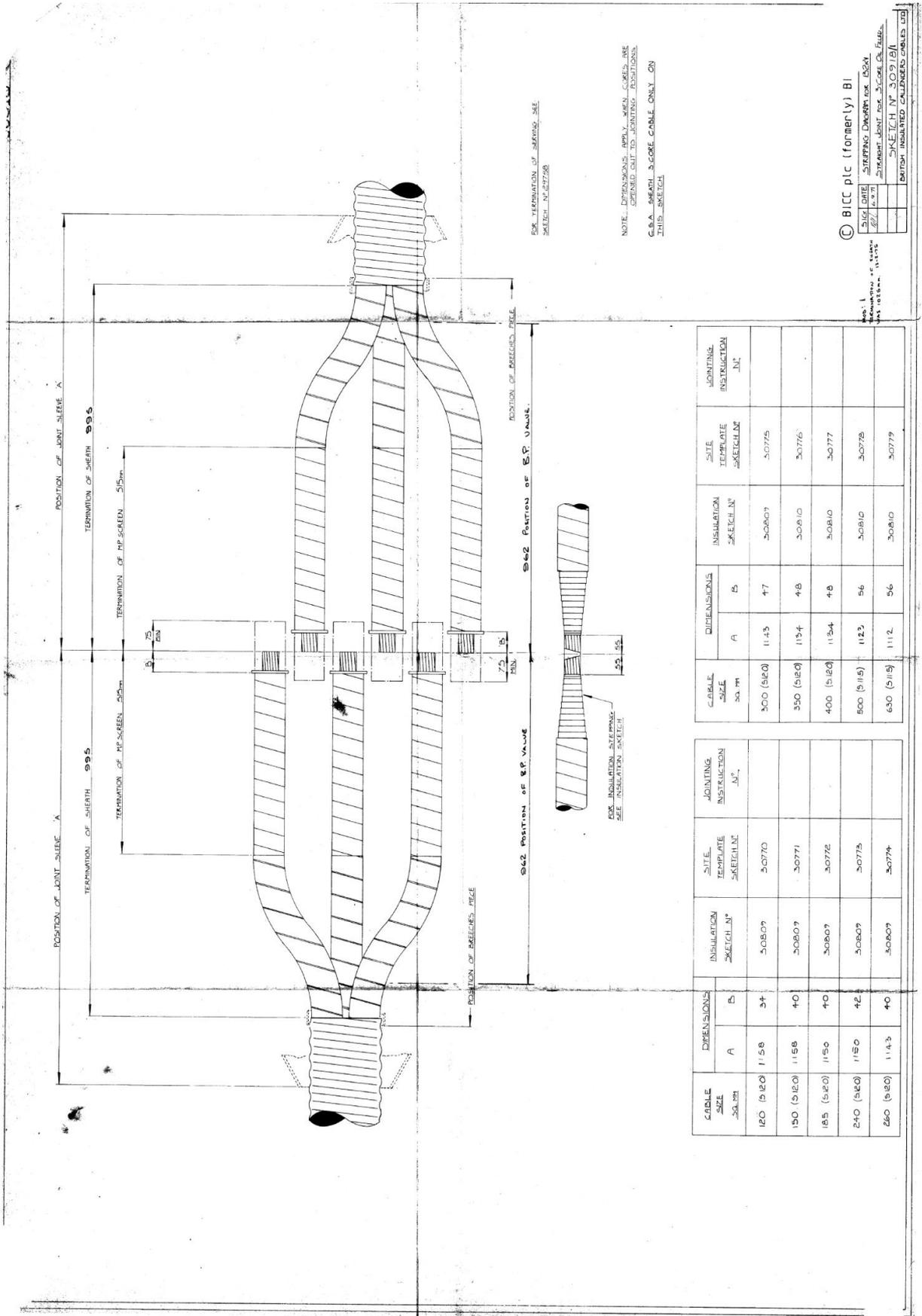
DRG. No. E 95343-D4

BRITISH INSULATED CALLENDER'S CABLES plc.

© BICC plc (formerly BICC LIMITED)

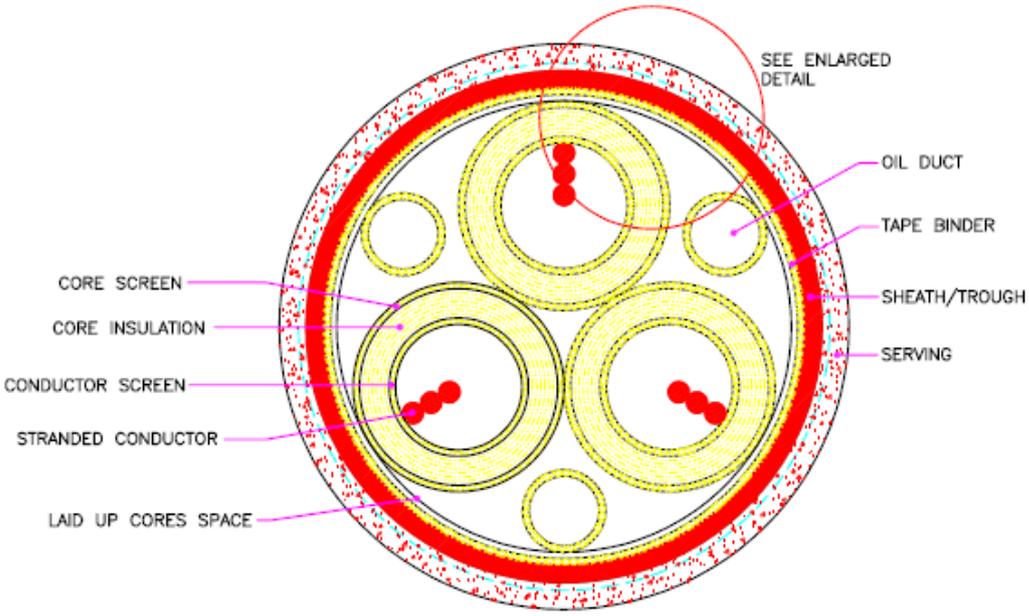
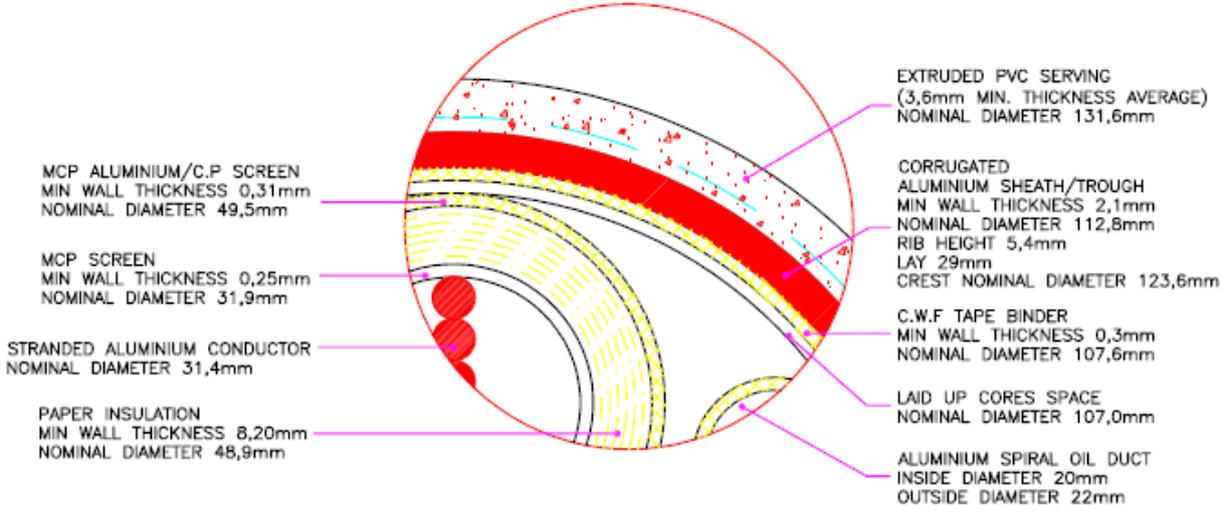
SK/31388





CABLE SIZE (mm)	DIMENSIONS		INSULATION SKETCH N°	SITE TEMPLATE SKETCH N°	JOINING INSTRUCTION N°	INSULATION SKETCH N°	SITE TEMPLATE SKETCH N°	JOINING INSTRUCTION N°
	A	B						
120 (5120)	1158	34	30809	30770		30809	30770	
150 (5120)	1158	40	30809	30771		30809	30771	
185 (5120)	1150	40	30807	30772		30807	30772	
240 (5120)	1150	42	30807	30773		30807	30773	
260 (5120)	1143	40	30807	30774		30807	30774	

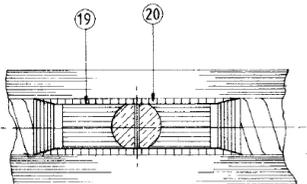
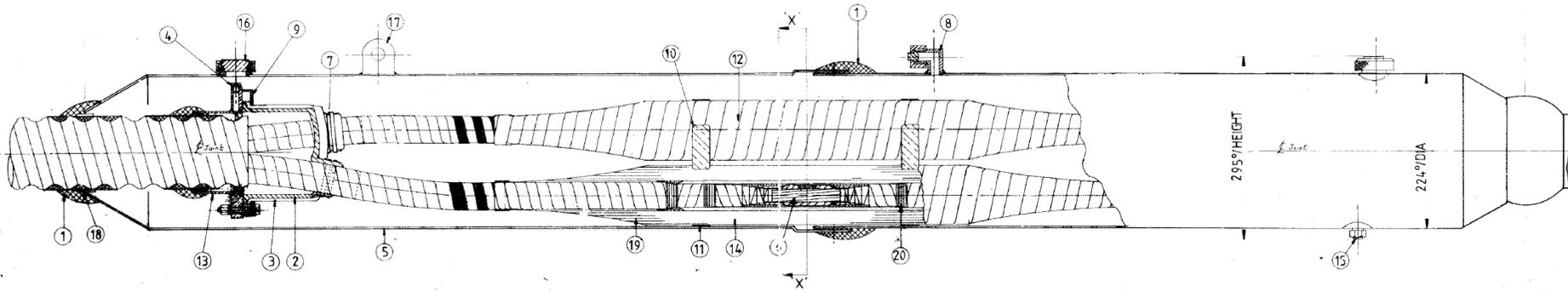
No. 1
 Date: 27/09/24
 For: BICC plc (formerly) BI
 Strapping Diagram for 3-CORRE Cable
 SKETCH N° 309/BI
 SWITCH INSULATED CALIBRATED CABLES LTD



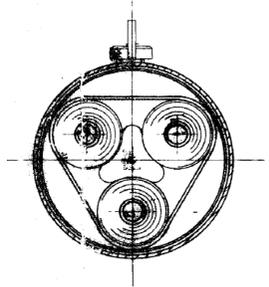
3 CORE CIRCULAR STRANDED ALUMINIUM CONDUCTOR
CORRUGATED SEAMLESS ALUMINIUM SHEATHED &
SERVED 132kV OIL FILLED 630mm² CABLE

CITY OF CAPE TOWN ELECTRICITY SERVICES	DRAWN	A.E.HALL	14/10/04	SCALE: N.T.S	REV
	COMPILED	A.E.HALL	14/10/04	SHEET 1	
CHIEF DRAUGHTSMAN:	INFO	V.MEDINSKI		SK 5166	
	CHECKED				
D.E.S:					

207: 9/ LENGTH



SECTION SHOWING WELDED JOINT FOR ALUMINIUM CONDUCTORS.



SECTION THRO' LINE 'X-X'

20	TAPE FILLER	CREPE PAPER	
19	CARBON LOADED TAPE	CREPE PAPER	
18	STRIP PACKING	COPPER	1432
17	BONDING LUG	COPPER	1432
16	Y RING UNION	PHOS BRONZE	369
15	UNION	PHOS BRONZE	369
14	INSULATION	PAPER TUBE	
13	THROAT & FLANGE	BRASS	
12	EARTH SCREEN (finset braid)	COPPER	
11	TAPE BINDER		
10	SPACER	ALUMINIUM	1490
9	RETAINING SLEEVE	MILD STEEL	
8	OIL CONNECTION	BRASS	2872
7	HOSE TYPE CLIP		
6	SOCKET	COPPER	1433
5	CASING	COPPER	2017
4	VENT SCREW	ST. ST.	
3	REINFORCING CASE	ALUMINIUM	
2	OIL RETAINING GLOVE	RUBBER	
1	WIPED JOINT	PLUMB. METAL	219
	ITEM	DESCRIPTION	MATERIAL BSS.Nº

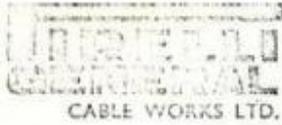
OIL VOLUME 77 LITRES

ARR OF 132KV STRAIGHT JOINT FOR 3/C O/F CABLES UP TO & INCL 400mm²

DIMENSIONS ARE IN MILLIMETRES (INCHES) DO NOT SCALE ANGLE PROJECTION SURFACE FINISH SHOWN FILED 10 TO BS 3114	TOLERANCES FINISH DATE NAME DRAWN CHECKED APPROVED	GENERAL CABLE WORKS LTD SOUTHAMPTON DEPARTMENT ENG. 00.	DRAWING NO. 545303/1520.15 15/01/10 ISSUE 12
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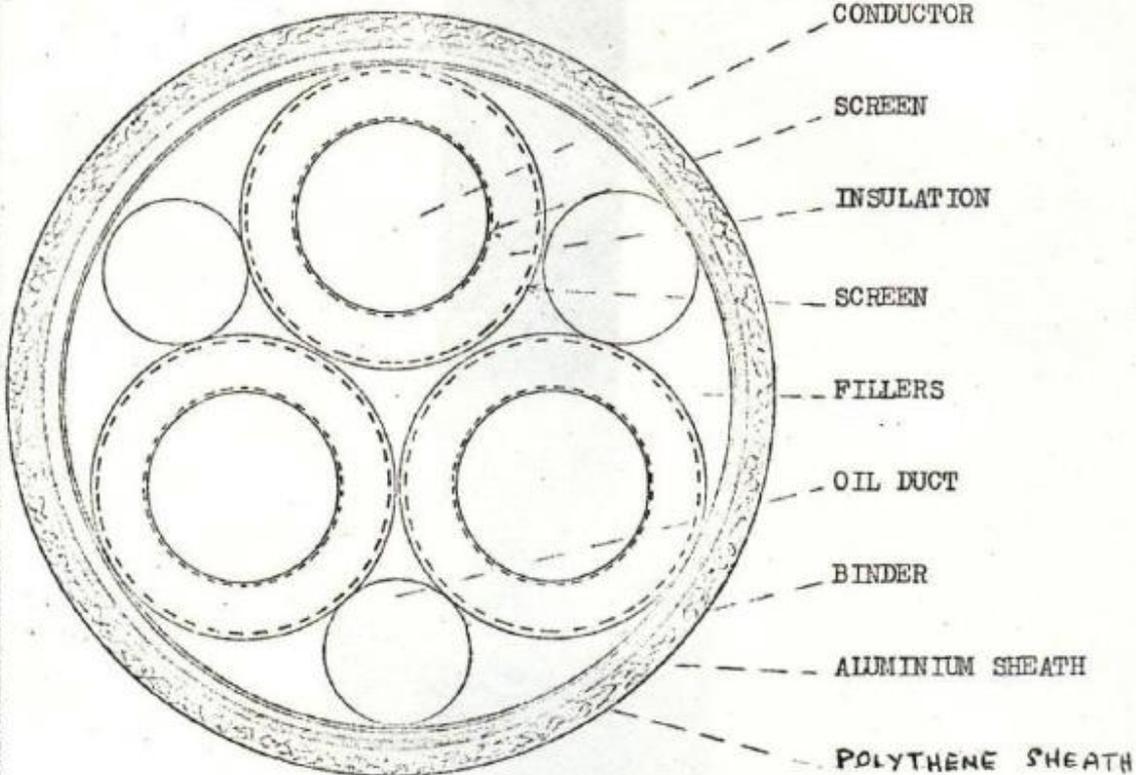
1615
807

1615 PINS
2075
300
2/2375 PVC CUTS
1187



DRAWING NO. CA/E 349
XP 1183

3 CORE 300 MM², COMPACTED CIRCULAR COPPER CONDUCTORS, CARBON PAPER SCREENED, IMPREGNATED PAPER INSULATED, CARBON PAPER INTERLOCKED WITH METALLISED COATED PAPER DIELECTRIC SCREENED, CORES LAID UP WITH PREFORMED ALUMINIUM SPIRAL OIL DUCTS AND IMPREGNATED PAPER FILLERS, COPPER WOVEN FABRIC TAPE BINDER, CORRUGATED ALUMINIUM SHEATHED AND EXTRUDED HIGH DENSITY POLYTHENE SHEATHED OVERALL. 132 kV 12 MV/m STRESS OIL FILLED CABLE

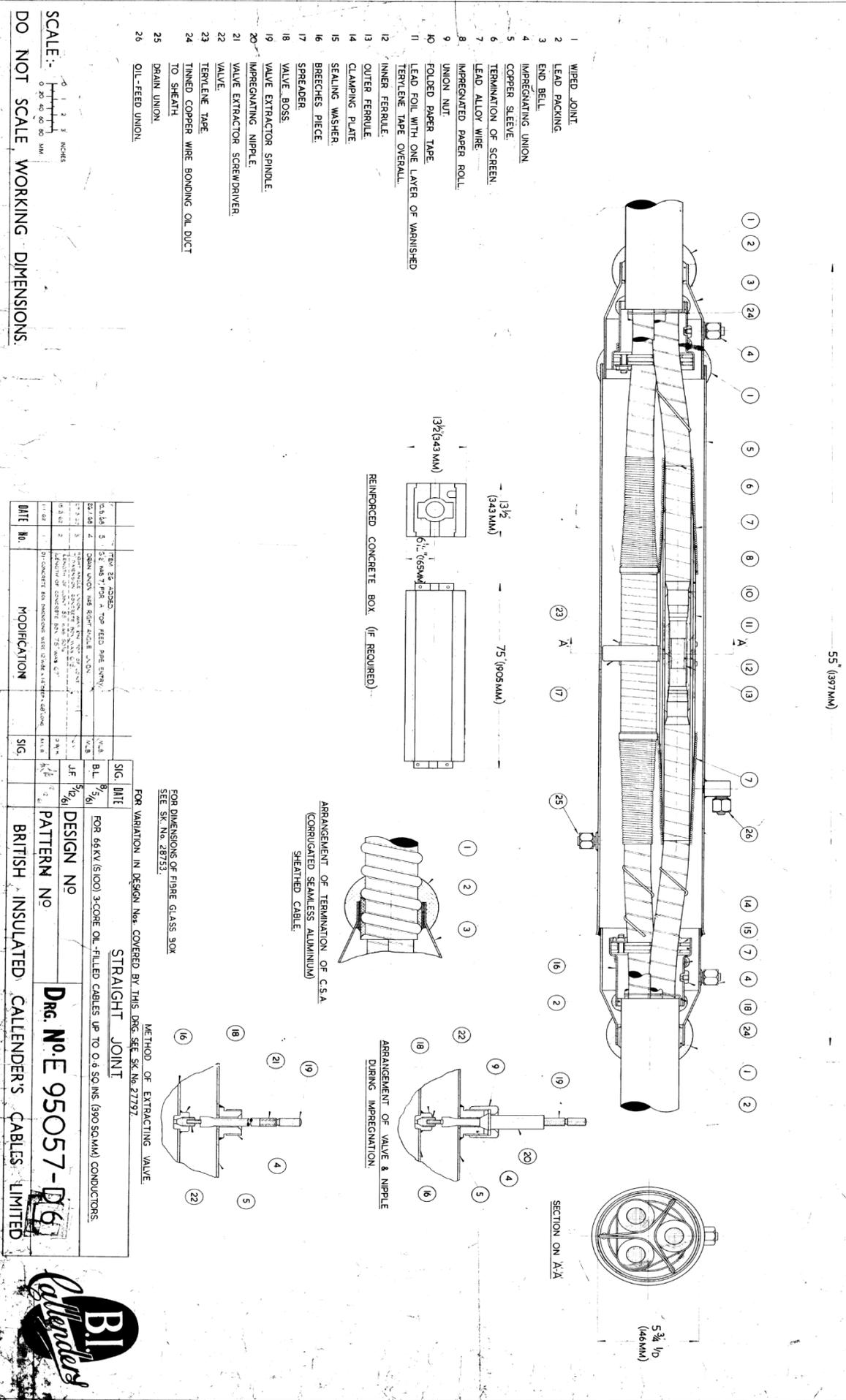


NOT TO SCALE

MINIMUM THICKNESS OF INSULATION	MM	8.8
MINIMUM THICKNESS OF ALUMINIUM	MM	1.85
NOMINAL THICKNESS OF POLYTHENE SHEATH	MM	3.6
NOMINAL DIAMETER OVER ALUMINIUM SHEATH	MM	102.6
NOMINAL DIAMETER OVERALL	MM	111.2

DIMENSIONS ARE THEORETICAL AND SUBJECT TO A MANUFACTURING TOLERANCE

FOLD HERE



- 1 WIPED JOINT
- 2 LEAD PACKING
- 3 END BELL
- 4 IMPREGNATING UNION
- 5 COPPER SLEEVE
- 6 TERMINATION OF SCREEN
- 7 LEAD ALLOY WIRE
- 8 IMPREGNATED PAPER ROLL
- 9 UNION NUT
- 10 FOLDED PAPER TAPE
- 11 LEAD FOIL WITH ONE LAYER OF VARNISHED TERYLENE TAPE OVERALL
- 12 INNER FERRULE
- 13 OUTER FERRULE
- 14 CLAMPING PLATE
- 15 SEALING WASHER
- 16 BREECHE'S PIECE
- 17 SPREADER
- 18 VALVE BOSS
- 19 VALVE EXTRACTOR SPINDLE
- 20 IMPREGNATING NIPPLE
- 21 VALVE EXTRACTOR SCREWDRIIVER
- 22 VALVE
- 23 TERYLENE TAPE
- 24 TINNED COPPER WIRE BONDING OIL DUCT TO SHEATH
- 25 DRAIN UNION
- 26 OIL-FEED UNION

SCALE: 1" = 100'

DO NOT SCALE WORKING DIMENSIONS.

DATE	NO.	MODIFICATION	SIG.
10.5.58	1	REV. 33. 125280	W.B.
10.5.58	2	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	B.L.
10.5.58	3	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	4	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	5	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	6	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	7	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	8	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	9	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	10	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	11	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	12	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	13	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	14	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	15	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	16	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	17	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	18	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	19	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	20	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	21	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	22	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	23	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	24	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	25	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.
10.5.58	26	1.5" AND 7" PIPES IN TOP FIELD, DRIP, SURVEY	J.F.

FOR VARIATION IN DESIGN Nos. COVERED BY THIS DRG. SEE SK. No. 27797.

FOR DIMENSIONS OF FIBRE GLASS BOX SEE SK. No. 28753.

METHOD OF EXTRACTING VALVE

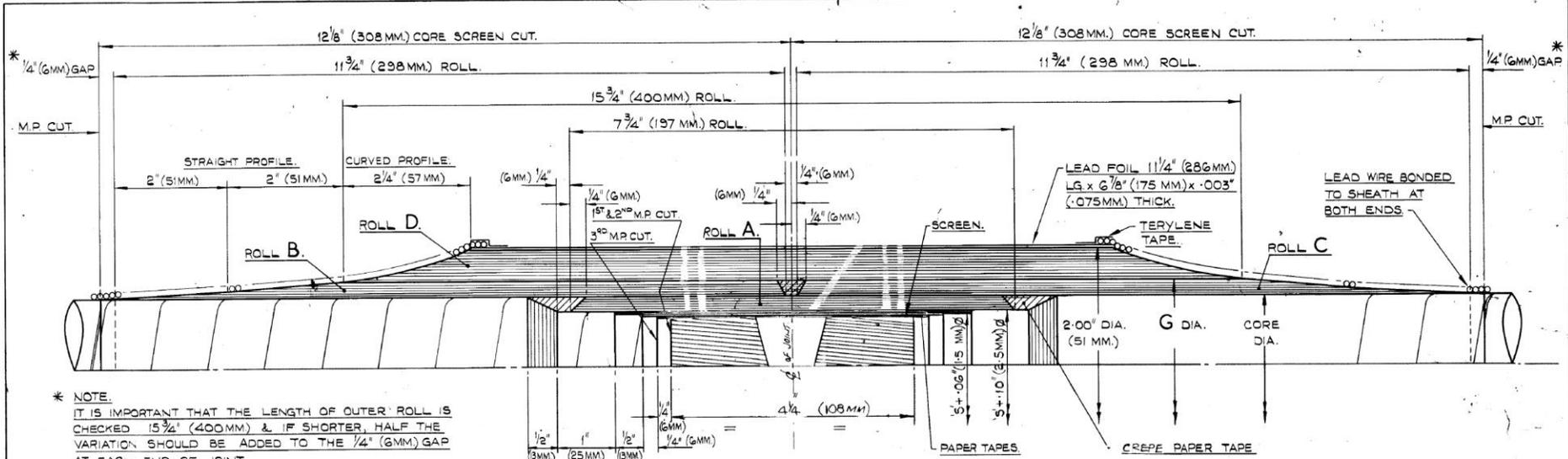
ARRANGEMENT OF TERMINATION OF C.S.A. (CORRUGATED SEAMLESS ALUMINIUM) SHEATHED CABLE.

ARRANGEMENT OF VALVE & NIPPLE DURING IMPREGNATION.

DR. N^o. E 95057-D 6

BRITISH INSULATED CABLES LIMITED

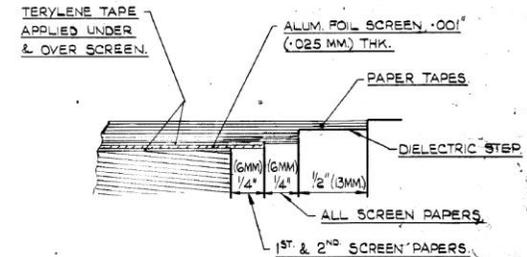
30542



* NOTE.
IT IS IMPORTANT THAT THE LENGTH OF OUTER ROLL IS CHECKED 15 3/4" (400MM) & IF SHORTER, HALF THE VARIATION SHOULD BE ADDED TO THE 1/4" (6MM) GAP AT EACH END OF JOINT.
DIFFERENCE IN LENGTH NOT TO BE GREATER THAN 1/4" FOR ROLLS PROFILED AT EACH END AND 1/8" FOR SINGLE PROFILED ROLLS.

S = STRAND DIA.

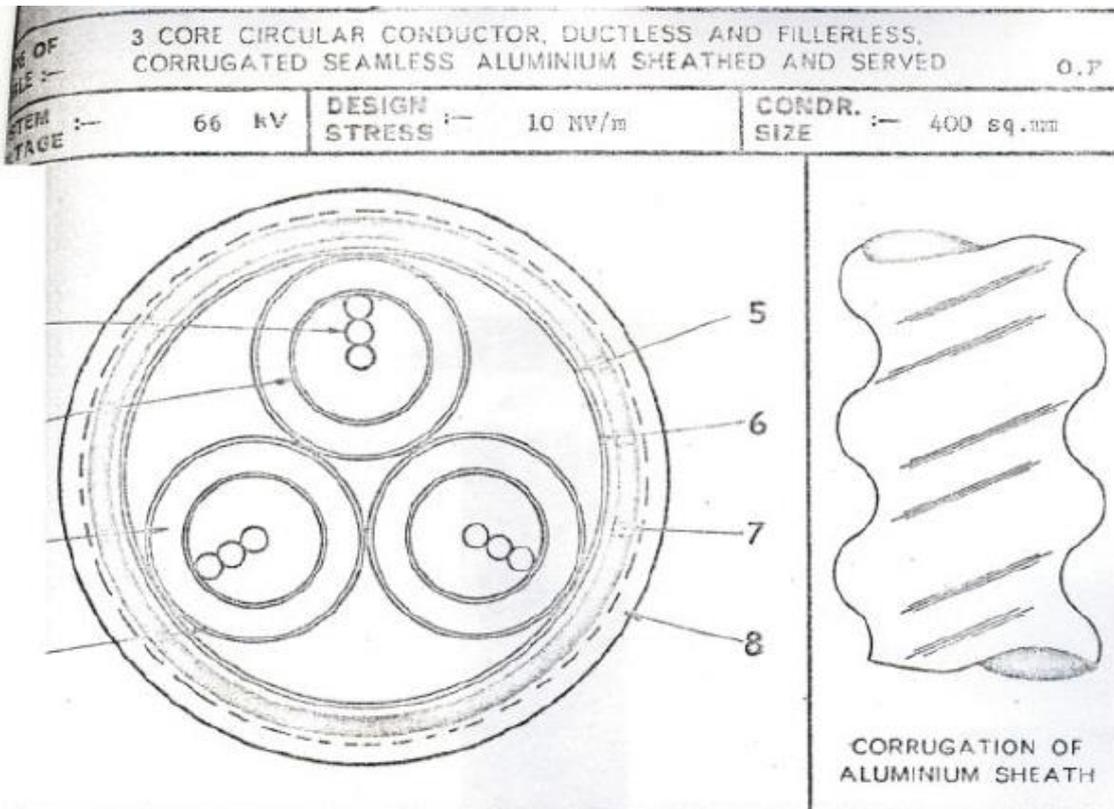
CABLE SIZE	G D.A.		A ROLL	B ROLL	C ROLL	D ROLL	TEMPLATE SK. No.	REMARKS.
	INS	MM						
240 MM	1.411	35.8	E12221-20	E10456-87	E10456-87	E13001-01	28122	60KV & STD 66KV
150 MM	1.305	33.1	E12221-20	E10456-87	E10456-87	E12724-01	27973	60KV & STD 66KV
500 MM	1.472	37.4	E12221-20	E10456-87	E10456-87	E12435-01	27791	66KV
400 MM	1.581	40.2	E12221-20	E10456-87	E10456-87	E12434-01	27795	66KV



ENLARGED VIEW SHOWING CONDUCTOR SCREEN

FOR STRIPPER OF STRAIGHT JOINT SEE SK 30536
FOR STRIPPER OF TRIF JOINT SEE SK 30548

SIG.	DATE.	DETAIL OF INSULATION FOR 66 KV STRAIGHT JOINT TO DRG. E95057-D. & OPEN TRIF JOINTS TO DRG. E95082-D. & E95144-D.
SKETCH No. 30542		
BRITISH INSULATED CABLES LTD.		

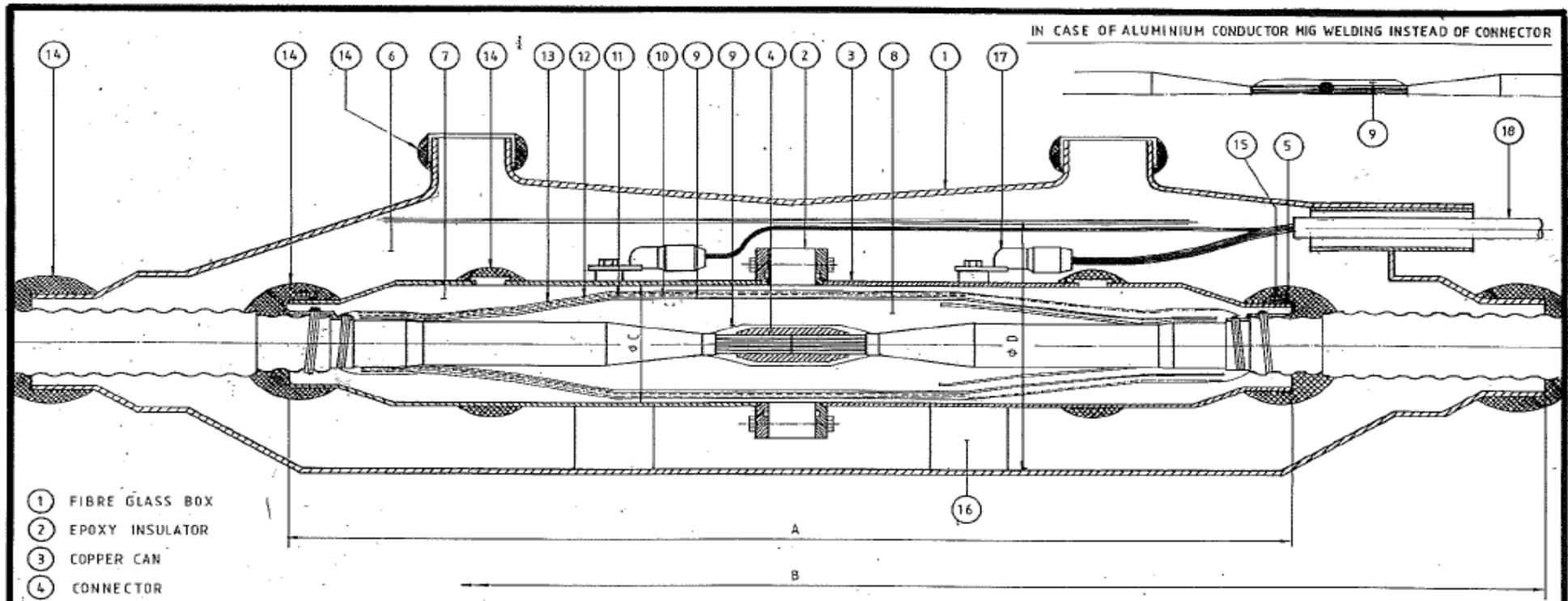


DIAGRAMMATIC ONLY — NOT TO SCALE

	DESCRIPTION	DETAILS		MIN. RAD. WALL (mm)	NOMINAL DIAMETER (mm)
1.	CONDUCTOR	ALUMINIUM	-	—	24.7
2.	SCREEN	2 M.C.P.	-	0.25	25.2
3.	INSULATION	PAPER	-	4.45	34.5
4.	SCREEN	ALUMINIUM PAPER	-	0.19	34.9
5.	LAI D UP CORES	—	—	—	75.3
6.	BINDER	COPPER WOVEN FABRIC TAPE	-	0.32	76.0
7.	SHEATH—TROUGH	C.S.A.	-	1.60	80.2
	RIB HT. LAY.	—	4.4MM 28.0MM	—	—
	CREST	—	—	—	89.0
8.	SERVING	EXTRUDED P.V.C.	-	3.60	97.0

CABLE SECTION DRAWING	No. CSD 66/02926	DRN. BY JIL DATE 30.11.7
-----------------------	------------------	-----------------------------

BRITISH INSULATED CABLES
CABLES (S.A.) (PTY.) LTD.



- ① FIBRE GLASS BOX
- ② EPOXY INSULATOR
- ③ COPPER CAN
- ④ CONNECTOR
- ⑤ EARTH BRAID
- ⑥ BUTIMEN COMPOUND
- ⑦ WATERPROOF COMPOUND
- ⑧ KB TAPE
- ⑨ SC TAPE
- ⑩ LEAD TAPE.
- ⑪ N TAPE
- ⑫ SCOTCH 23 TAPE
- ⑬ C TAPE
- ⑭ WATERPROOF TAPES & EPOXY PUTTY
- ⑮ SOLDER & TINNED ANNEALED COPPER WIRE
- ⑯ SUPPORT ROCKER
- ⑰ EARTHING TERMINAL
- ⑱ CONCENTRIC BONDING LEAD

CABLE SIZE	A	B	φ C	φ D
66 & 88 kV	1260	1900	160	340
132 kV	1860	2350	220	370

REVISIONS	SIGN DATE	SCALE	NTS	AFRICAN CABLES LTD. VEREENIGING.	ISO	REV		
		DRN	SK 94-05-18	 TITLE INSULATING JOINT (taped type) FOR 66, 88 & 132 kV XLPE CABLE. (Cross bonded system)	A2	SHT		
		TCD						
		CKD						
		APPD	<i>[Signature]</i>					

20547

TECHNICAL

High Voltage XLPE Cables

 XLPE
 W/B, CSA, PE

 F2PC... Primary group code
 ...068 Finish code

 Copper 1 Core
 76000/132000V
 AFCAB SPEC

Single Point /Cross Bonded Cable Systems

Size Code	Units	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	21.0	24.5	27.5	30.5	34.5	39.0
Insulation Diameter	mm app.	70.5	70.0	71.0	73.5	78.0	83.5
Outer S/C Screen Diameter	mm app.	74.0	73.5	74.5	76.5	81.0	86.6
CSA Diameter	mm app.	94.0	93.5	94.5	96.5	101.5	107.0
Cable Diameter (D)	mm app.	103.0	102.5	103.0	106.5	111.5	117.5
Cable Mass	kg/m app.	10.74	11.25	12.23	13.78	15.99	18.56
Gross Mass (500 m)	kg app.	6360	6619	7109	7883	8987	10274
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	570	648	735	829	925	1017
In air	Amps	817	956	1110	1276	1450	1626
Trefoil Formation							
In ground	Amps	539	608	683	761	836	904
In air	Amps	731	844	967	1096	1228	1354
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.078	0.062	0.049	0.039	0.032	0.026
Capacitance	μF/km	0.143	0.158	0.176	0.187	0.199	0.212
Reactance (Flat)	Ω/km	0.202	0.193	0.201	0.196	0.192	0.187
Impedance (Flat)	Ω/km	0.217	0.202	0.207	0.200	0.194	0.189
Reactance (Trefoil)	Ω/km	0.144	0.135	0.143	0.138	0.134	0.129
Impedance (Trefoil)	Ω/km	0.164	0.148	0.151	0.144	0.137	0.132
Zero Sequence:							
Resistance	Ω/km	0.121	0.105	0.092	0.080	0.071	0.064
Reactance	Ω/km	0.090	0.080	0.088	0.084	0.079	0.075
Short Circuit Ratings:							
Symmetrical	kA (1sec)	43.1	57.4	71.8	90.4	114.9	143.6
Earth Fault	kA (1sec)	68.7	68.2	69.0	70.7	74.2	78.2

Last update May 2006

Physical dimensions are nominal values.
 When ordering please quote: primary + size + finish code
 e.g. F2PC_1400_068



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

 CBI Electric African Cables
 PO Box 172, Vereeniging 1930 • Tel: +27 16 430 6000 • Fax: +27 16 423 6103
 www.cbi-electric.com • afcab@cbi-electric.com

A member of the REUNERT Group



High Voltage XLPE Cables

XLPE
W/B, CSA, PE

F2PA... Primary group code
...068 Finish code

Aluminium 1 Core
76000/132000V
AFCAB SPEC

Single Point /Cross Bonded Cable Systems

Size Code	Units	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor Size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	21.0	24.0	26.5	30.0	34.5	39.0
Insulation Diameter	mm app.	70.5	70.0	71.0	72.0	78.0	83.5
Outer S/C Screen Diameter	mm app.	74.0	73.5	74.0	75.0	81.0	86.5
CSA Diameter	mm app.	94.0	93.5	94.0	95.0	101.5	107.0
Cable Diameter (D)	mm app.	103.0	102.5	103.0	104.5	111.5	117.5
Cable Mass	kg/m app.	8.920	8.922	9.221	9.647	11.028	12.355
Gross Mass (500 m)	kg app.	5454	5455	5605	5818	6508	7172
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	445	511	581	662	751	840
In air	Amps	635	749	868	1012	1167	1330
Trefoil Formation							
In ground	Amps	425	485	549	620	695	767
In air	Amps	572	667	766	883	1007	1134
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.129	0.101	0.079	0.062	0.049	0.039
Capacitance	μF/km	0.141	0.158	0.170	0.187	0.199	0.212
Reactance (Flat)	Ω/km	0.219	0.193	0.187	0.180	0.192	0.187
Impedance (Flat)	Ω/km	0.255	0.218	0.203	0.191	0.198	0.191
Reactance (Trefoil)	Ω/km	0.162	0.135	0.129	0.122	0.134	0.129
Impedance (Trefoil)	Ω/km	0.207	0.168	0.151	0.137	0.143	0.135
Zero Sequence:							
Resistance	Ω/km	0.172	0.144	0.122	0.104	0.089	0.078
Reactance	Ω/km	0.107	0.080	0.074	0.068	0.079	0.075
Short Circuit Ratings:							
Symmetrical	kA (1sec)	27.8	37.0	46.3	58.3	74.0	92.5
Earth Fault	kA (1sec)	68.7	68.2	68.7	69.6	74.1	78.2

Last updated May 2006

Physical dimensions are nominal values.

When ordering please quote: primary + size + finish code
e.g. F2PA_1400_068



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HV XLPE Cable Data Sheet



Description: COPPER, XLPE, W/B, CSA, LLDPE, HIGH STRESS
Voltage & Specification: 76/132kV, SANS 60840/ NRS 077
Water blocking: Core is standard, conductor on request

Last updated: April 2018

PHYSICAL DIMENSIONS:															
Conductor size	mm ²	300	400	500	630	800	1000								
Conductor diameter	mm	20.7	24.0	27.2	30.4	34.2	38.7								
Diameter over s/c conductor screen	mm	25.5	28.6	31.8	35.0	38.8	43.4								
Diameter over XLPE insulation	mm	58.6	60.0	63.4	67.2	71.4	76.5								
Diameter over s/c core screen	mm	61.3	62.7	66.1	70.1	74.3	79.4								
Diameter over CSA sheath	mm	80.9	82.3	85.8	89.9	94.3	99.7								
Final diameter of cable (D)	mm	94.1	95.5	99.0	103.1	107.5	112.9								
Cable mass (approximate)	kg/m	9.5	10.4	11.8	13.6	15.7	18.2								
Gross mass (500 m) (approximate)	kg	6000	6700	7100	8000	9050	10350								
Minimum installation bending radius	m	1.9	1.9	2.0	2.1	2.2	2.3								
RATINGS:															
		Trefoil	Flat (2D)												
Current rating in ground	Amps	535	572	605	652	678	738	756	833	831	930	899	1022		
Current rating in air	Amps	741	839	855	979	977	1131	1109	1297	1245	1477	1376	1658		
AC Resistance @ 90°C	Ω/km	0.0779	0.0777	0.0616	0.0614	0.0489	0.0485	0.0389	0.0384	0.0318	0.0311	0.0268	0.0260		
Reactance	Ω/km	0.1550	0.2130	0.1466	0.2047	0.1409	0.1989	0.1363	0.1944	0.1315	0.1896	0.1267	0.1848		
Impedance	Ω/km	0.1734	0.2268	0.1590	0.2137	0.1491	0.2048	0.1418	0.1981	0.1353	0.1921	0.1295	0.1866		
Sheath standing voltage (flat - centre phase)	V/km	31.55	58.65	35.48	66.60	39.44	75.07	43.49	84.19	47.34	93.41	50.62	102.02		
ELECTRICAL PARAMETERS:															
DC Resistance @ 20°C	Ω/km	0.0601		0.047		0.0366		0.0283		0.0221		0.0176			
Max Electric stress at conductor screen	kV/mm	7.2		7.2		6.9		6.7		6.4		6.2			
Min Electric stress at insulation screen	kV/mm	3.1		3.4		3.5		3.5		3.5		3.5			
Capacitance	µF/km	0.1671		0.1876		0.2015		0.2132		0.2280		0.2447			
Zero Sequence Resistance	Ω/km	0.1279		0.1106		0.0957		0.0834		0.0739		0.0664			
Zero Sequence Reactance	Ω/km	0.0960		0.0879		0.0827		0.0787		0.0745		0.0704			
Symmetrical fault rating (250°C)	kA (1s)	43.1		57.4		71.8		90.4		114.9		143.6			
Earth fault rating (150°C)	kA (1s)	48.0		48.9		51.0		53.4		56.0		59.2			

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing = Cross bonded or single point bonded

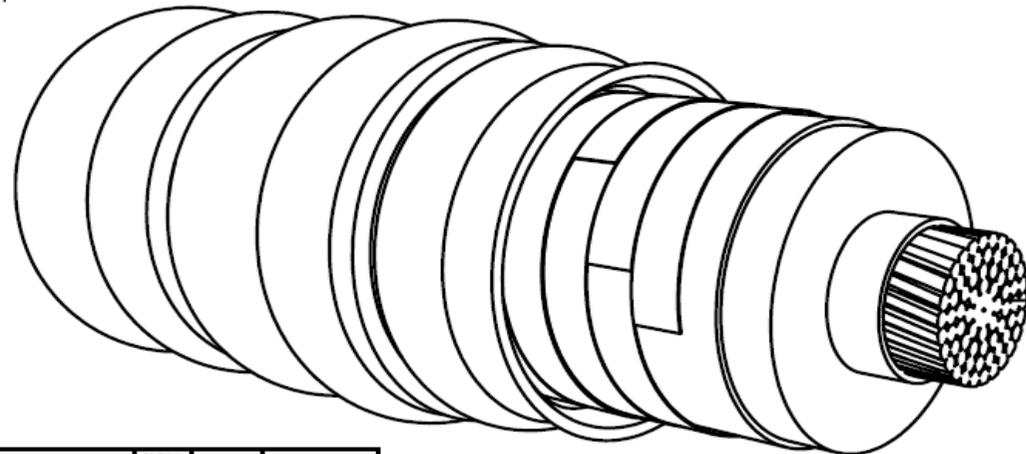
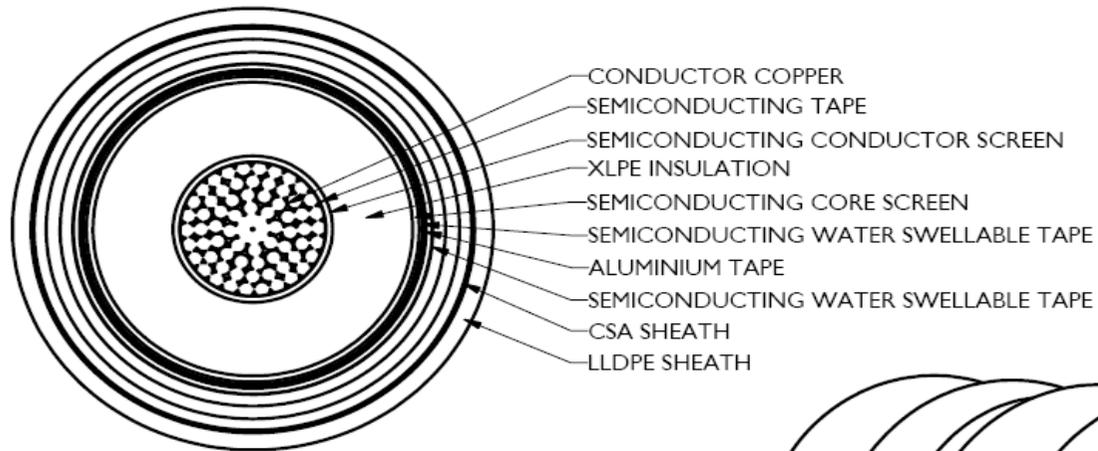
Tolerance on dimensions = +5%



High Voltage XLPE Cables



FOR TENDER PURPOSES ONLY



	VOLTAGE RATING	SIZE RANGE
F2K	24000/42000V	300-1000
F2L	25000/44000V	300-1000
F2M	38000/66000V	300-1000
F2N	51000/88000V	300-1000
F2P	76000/132000V	300/1000

FINISH CODE	
068	CSA, LLDPE SHEATH

REVISIONS		SIGN	DRWN	Iohardt Steyn	
NO	DESCRIPTION	DATE	DATE		
1	CHANGED 2D DWG TO 3D	15/02/03.05	2005/03/14		
				CKD	
				APPD	
				DATE	

HV XLPE INSULATED CSA SHEATH, LLDPE SHEATHED SINGLE CORE CABLE		F2_I_068	D1
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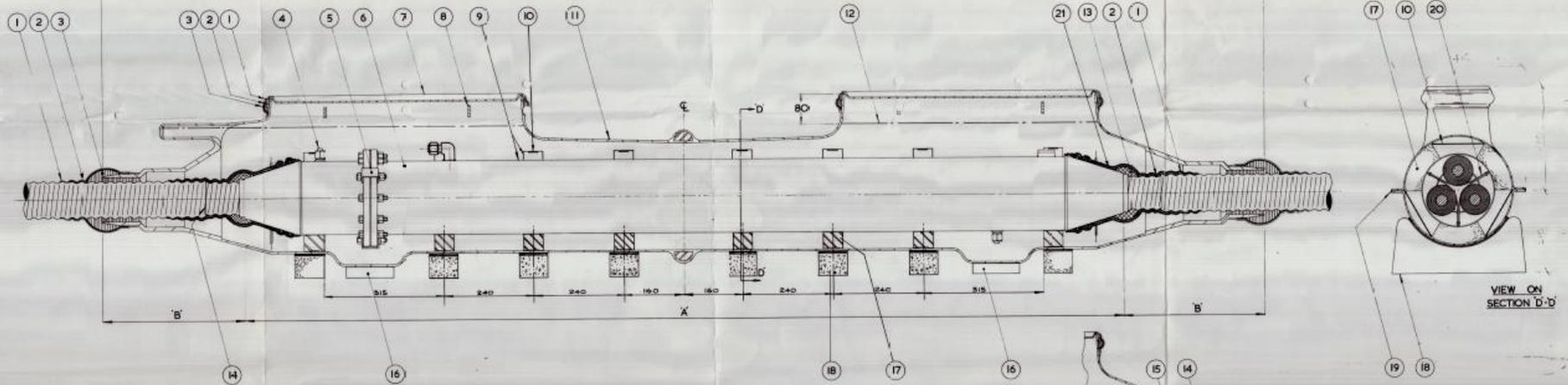


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BICC



- 1 P.V.C. TAPE
- 2 SELF AMALGAMATING POLYTHENE TAPE
- 3 EPOXY RESIN PUTTY
- 4 IMPREGNATING UNION
- 5 COPPER BONDING STRIP
- 6 JOINT GENERALLY TO Drg No E95343-D, E95527-D1 & E95679-D
- 7 GLASS-FIBRE COVER
- 8 GLASS-FIBRE WEDGE
- 9 SPACERS AND EXPOSED METAL OF JOINT PAINTED WITH BITUGEL PAINT
- 10 WOVEN GLASS-FIBRE TAPE
- 11 GLASS-FIBRE BOX
- 12 LEVEL OF BITUMINOUS COMPOUND
- 13 WEPED JOINT
- 14 TERMINATION OF SERVING
- 15 TERMINATION OF REINFORCEMENT TAPES
- 16 SUITABLE PACKING PIECE WITH RESILIENT LINER AT THESE POSITIONS
- 17 CAST RESIN SPACER
- 18 CONCRETE SUPPORT
- 19 SEALING FACE OF FLANGE TO BE COATED WITH EPOXY RESIN PUTTY PRIOR TO BOLTING DOWN
- 20 ALUMINIUM SPREADER
- 21 RESIN & GLASS FIBRE TAPE.

VIEW SHOWING LEAD SHEATHED CABLE IN GLASS-FIBRE BOX

LENGTH OF GF BOX 'X'	'A'	'B'
3080	2334	373
3080	2316	382
3080	2300	390
2850	2266	282
2850	2268	291
2850	2246	302
2850	2224	313

THIRD ANGLE PROJECTION

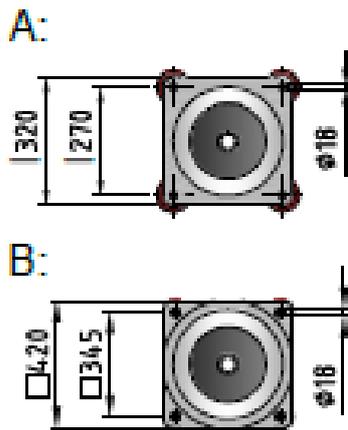
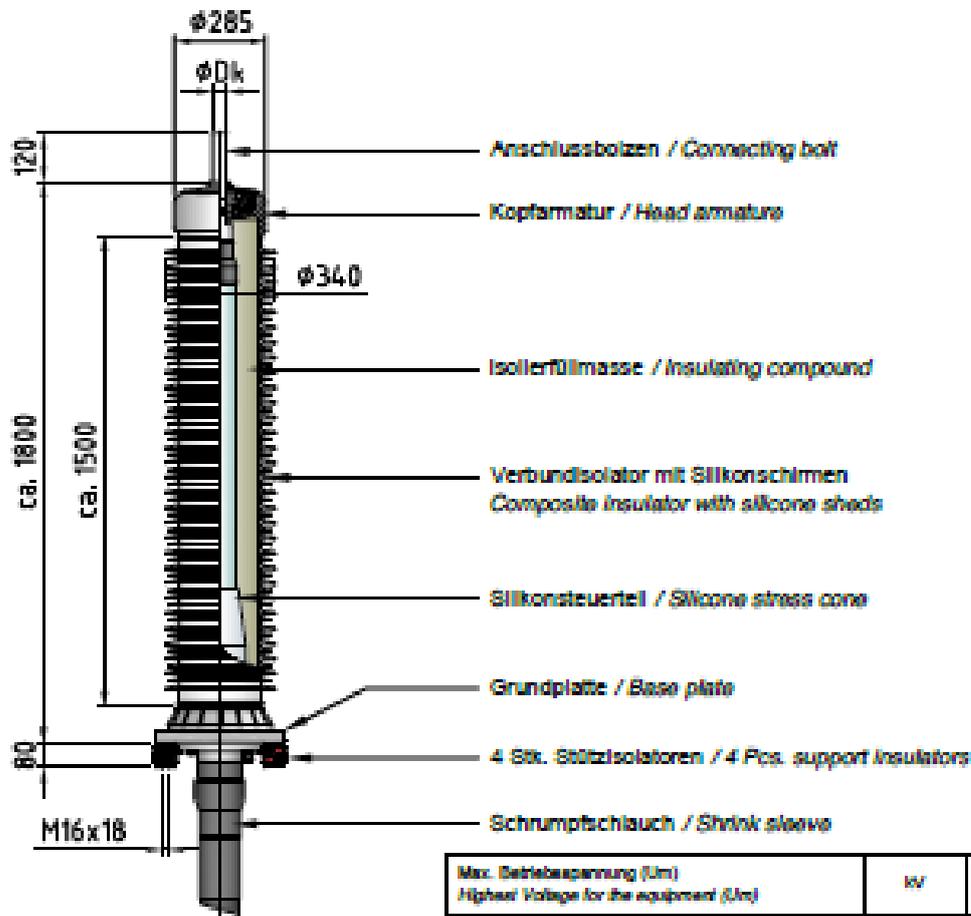
SCALE. 0 100 200 300 400 500 mm

DO NOT SCALE WORKING DIMENSIONS.

JOINT IN GLASS-FIBRE BOX FOR USE WITH 132KV 3-CORE STRAIGHT JOINT TO Drg No E95343-D CONDUCTOR SIZE 120sqmm TO 630sqmm		DESIGN NO SUPERTENSION CABLES DIVISION ERITH KENT	SK. 30807/2
BRITISH INSULATED CALLENDER'S CABLES LIMITED		BICC Cables Limited Formerly BICC Supertension Cables Formerly BICC Supertension Cables Limited	

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Freiluft-Endverschluss FR 1.145-12
Outdoor sealing end FR 1.145-12



Max. Betriebsspannung (Um) Highest Voltage for the equipment (Um)	kV	145
Verschmutzungsstufe Site pollution severity class	IEC 60015	A-C
Einheitlicher spezifischer Kriechweg Unified specific creepage distance	mm/kV	65.0
Spezifischer Kriechweg Specific creepage distance	mm/kV	39.0
Min./Max. Ø über Kabeldeckung geschliff. Min./Max. Ø over cable insulation prepared	mm	80-110
Max. Kabelquerschnitt (ca.) Max. cable cross section (approx.)	mm²	2500
Gewicht mit Isolierfüllmasse Weight with insulating oil	kg	132
Gewicht ohne Isolieröl Weight without insulating oil	kg	84
Grundplatte Base plate	mm	A: 320x320 B: 420x420
Kontaktbolzen ØDk Connecting bolt ØDk	mm	35/30/30 (*)

(*) Anders Durchmesser nach Anfrage / Other diameters upon request

Gezeichnet	10.09.2015	sfb			
Geprüft	31.08.2015	hp	Arzt		
Freigegeben	31.08.2015	hp			



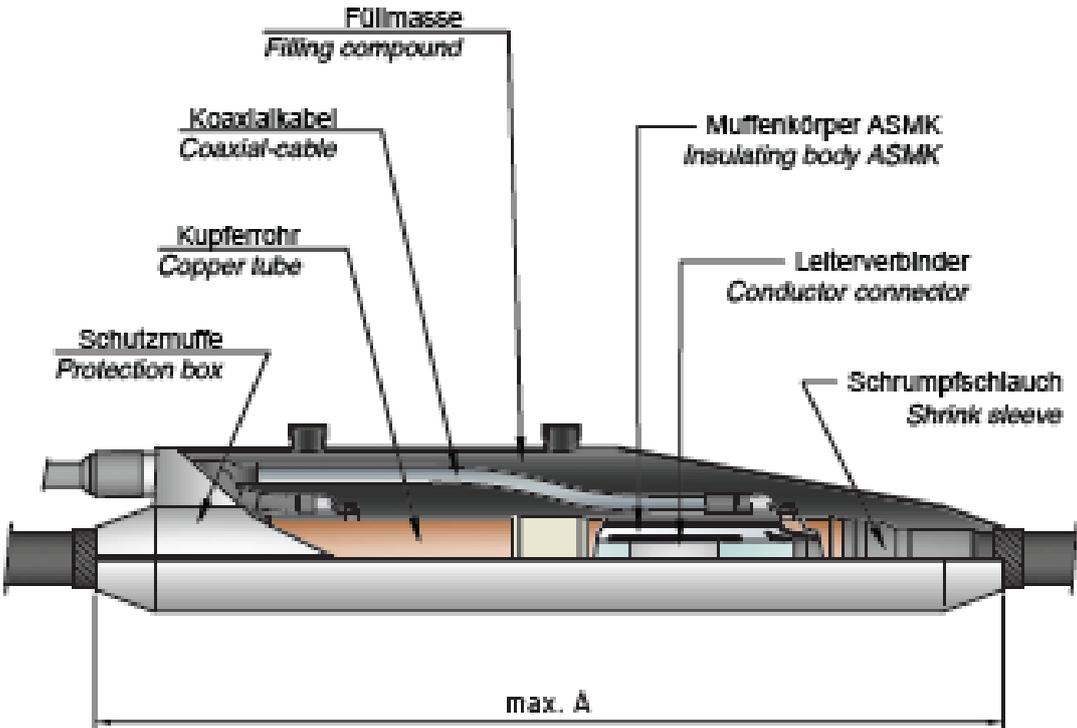
Blatt-Nr.	1	Samml. Blatt	2
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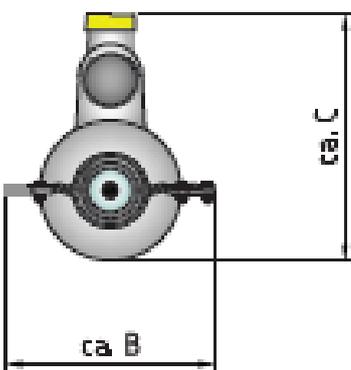
S1925-4

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Cross-Bonding Muffe MPCP 1.145-32
Cross-bonding joint MPCP 1.145-32





Max. Betriebsspannung (Um) Highest Voltage for the equipment (Um)	kV	145
Min./Max. Ø über Kabelisolierung geschliffen Min./Max. Ø over cable insulation prepared	mm	77-80
Max. Kabelquerschnitt (ca.) Max. cable cross section (approx.)	mm ²	2000
Gewicht Weight	kg	75
Max. A	mm	1690
B	mm	355
C	mm	410

Genehmigt	01.07.2015	sfb							
Geprüft			Arzt						
Freigegeben									

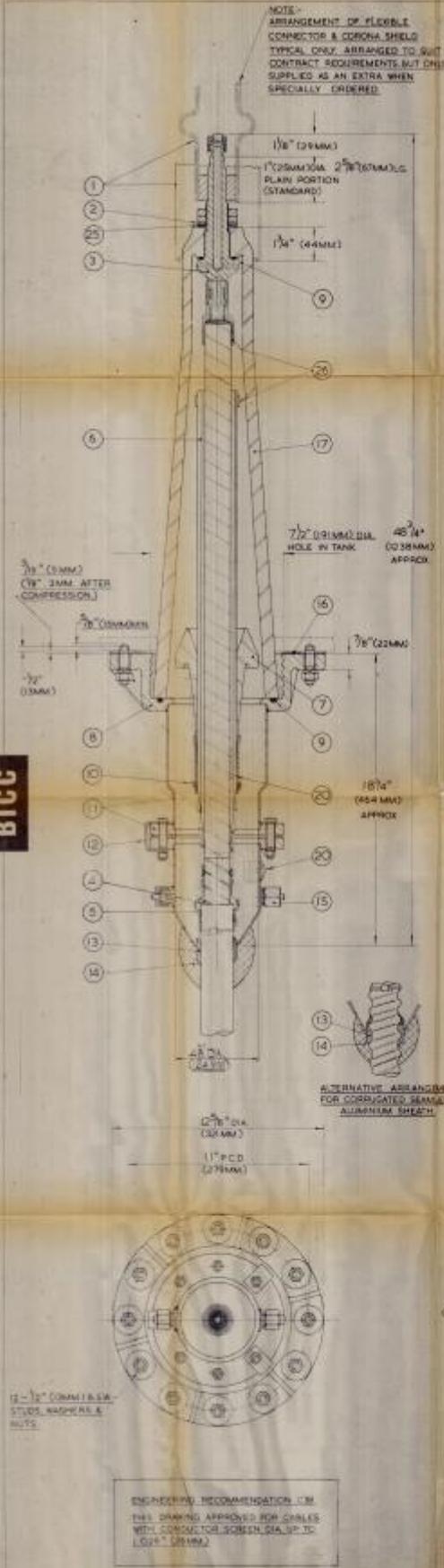


Bsp-Nr.	ASMK-Muffe
1	2

S1964-4

95239

BICC



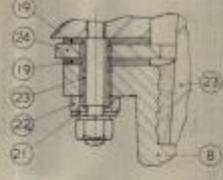
NOTE - ARRANGEMENT OF FLEXIBLE CONNECTOR & CORONA SHIELD TYPICAL ONLY. ARRANGED TO SUIT CONTRACT REQUIREMENTS BUT MUST BE SUPPLIED AS AN EXTRA WHEN SPECIALLY ORDERED.

- 1 FLEXIBLE CONNECTOR & CORONA SHIELD ARRANGEMENT (SEE NOTE)
- 2 BRASS WASHER S.S. 205
- 3 COPPER CONNECTOR STALK BS 1433
- 4 DROP OUT VALVE
- 5 OIL SEAL
- 6 IMPREGATED PAPER ROLLS
- 7 EPOXY RESIN STRESS CONE
- 8 CAST BRASS BARE PLATE BICC METAL 99
- 9 NEOPRENE O-RING BS 1805
- 10 LEAD WIRE
- 11 COPPER SLEEVE ASSY. S.S. 207 & 1072
- 12 COPPER BONDING STRIP BS 1832
- 13 LEAD STRIP PACKING
- 14 WELD JOINT OF GRADE 'H' PLUMBING METAL S.S. 215
- 15 IMPREGATING UNION
- 16 P.C.P. SHEET GASKET
- 17 PORCELAIN INSULATOR
- 18 CAST EPOXY RESIN INSULATING FLAT
- 19 SEALING WASHER
- 20 CAST BRASS BONDING LUG BS 1802
- 21 MILD STEEL WASHER GALV.
- 22 S.R.B.P. INSULATING WASHER
- 23 S.R.B.P. INSULATING TUBE
- 24 S.R.B.P. INSULATING PLATE
- 25 P.C.P. SHEET PACKING WASHER
- 26 VARNISHED TERYLENE TAPE
- 27 COPPER BONDING STRAP (FOR ISLAND INSULATION TEST ONLY)
- 28 INSERT (ALUMINIUM)

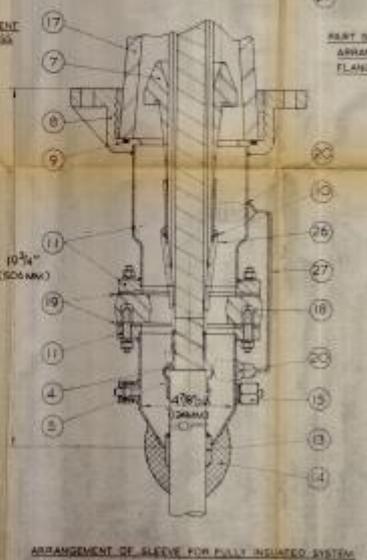
TOTAL WEIGHT = 100 LBS. (45 KGS)
 WEIGHT OF SEALING END = 20 LBS. (9 KGS)
 WEIGHT OF OIL = 20 LBS. (9 KGS)
 VOLUME OF OIL = 12 LITRES



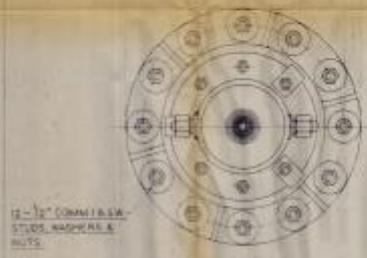
INSET SHOWING M.E.G. JOINTING FOR ALUMINIUM CONDUCTORS



PART SECTION SHOWING TYPICAL ARRANGEMENT OF INSULATED FLANGE FIXING IF REQUIRED



ARRANGEMENT OF SLEEVE FOR FULLY INSULATED SYSTEM



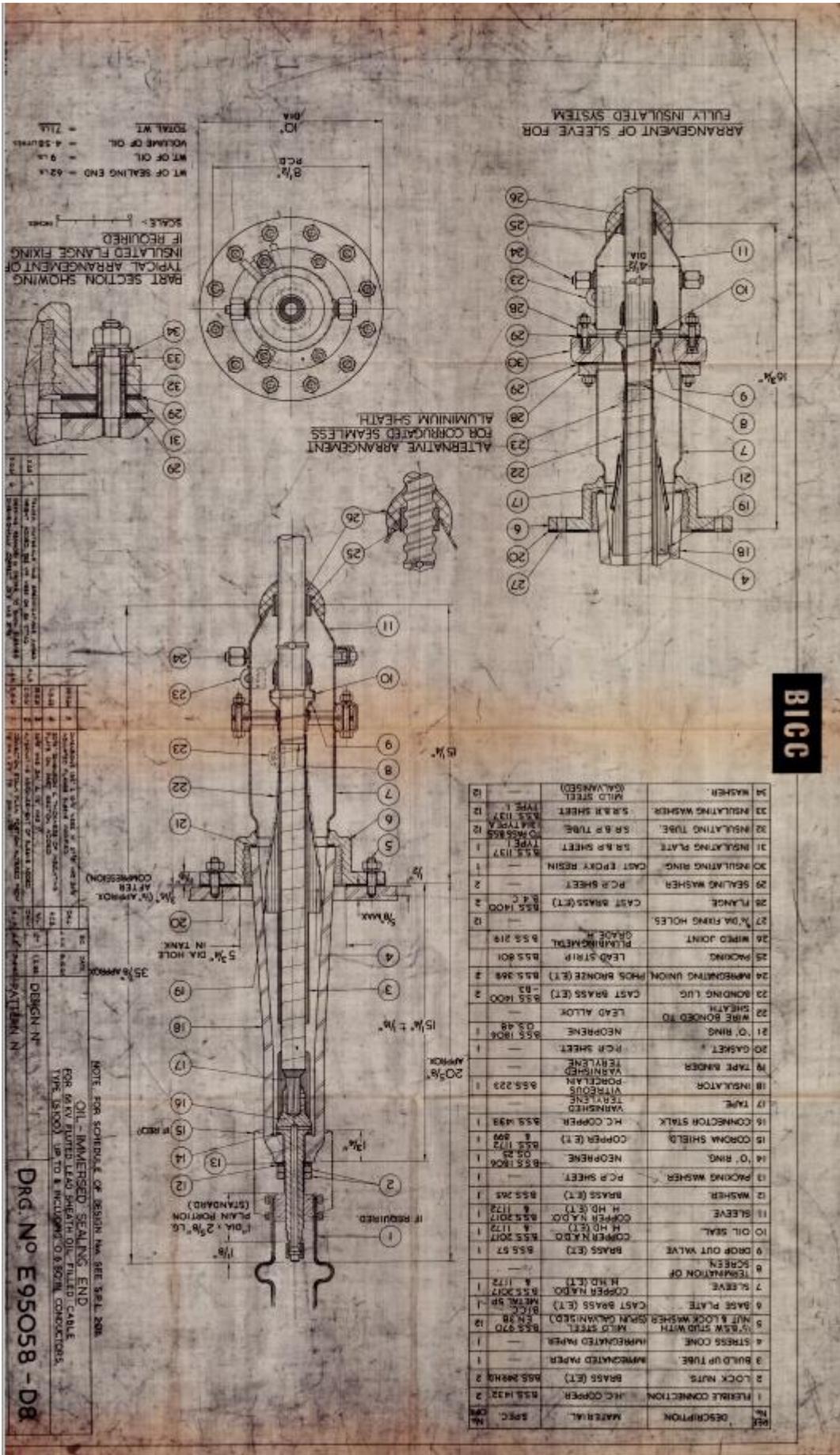
12-1/2\"/>

ENGINEERING RECOMMENDATION - THIS DRAWING APPROVED FOR CABLES WITH CONDUCTOR SCREEN DIA. UP TO 1.075\"/>

DESIGN NO. E 95239 - D2	BRITISH INSULATED CABLES LIMITED
FOR THE DESIGN OF DESIGN NO. SEE IN. NO. 20433	FOR THE DESIGN OF DESIGN NO. SEE IN. NO. 20433
FOR THE DESIGN OF DESIGN NO. SEE IN. NO. 20433	FOR THE DESIGN OF DESIGN NO. SEE IN. NO. 20433

DESIGN NO. E 95239 - D2	BRITISH INSULATED CABLES LIMITED
FOR THE DESIGN OF DESIGN NO. SEE IN. NO. 20433	FOR THE DESIGN OF DESIGN NO. SEE IN. NO. 20433
FOR THE DESIGN OF DESIGN NO. SEE IN. NO. 20433	FOR THE DESIGN OF DESIGN NO. SEE IN. NO. 20433

THIRD ANGLE PROJECTION
 SCALE: N.T.S.
 DO NOT SCALE WORKING DIMENSIONS



BICC

REF. NO.	DESCRIPTION	MATERIAL	SPEC. OR
1	FLEXIBLE CONNECTION	H.C. COPPER	B.S. 1432 2
2	LOCK NUTS	BRASS (ET)	B.S. 2680 2
3	BUILD UP TUBE	UNSPECIFIED PAPER	—
4	STRESS CONE	UNSPECIFIED PAPER	—
5	1/2\"/>		
6	SCREENS	—	—
7	SLEEVE	COPPER PLATED H. HD. (ET)	B.S. 2017 1
8	SEAL	NEOPRENE	B.S. 2026 1
9	CONICAL SHIELD	COPPER (ET)	B.S. 1172 1
10	CONNECTOR STALK	H.C. COPPER	B.S. 1432 1
11	TAPE	VARNISHED GLASS FIBRE	B.S. 223 1
12	INSULATOR	—	—
13	TAPE BANDER	VARNISHED GLASS FIBRE	B.S. 223 1
14	GASKET	H.C. SHEET	—
15	O' RING	NEOPRENE	B.S. 1806 1
16	WIRE BONDED TO SHEATH	LEAD ALLOY	—
17	BONDING LUG	CAST BRASS (ET)	B.S. 1400 2
18	WELDING UNION	PHOS. BRONZE (ET)	B.S. 368 2
19	PACKING	LEAD STRIP	B.S. 801 2
20	WIRE JOINT	PLUMBING METAL	B.S. 218 2
21	DIA. FLANG HOLES	—	—
22	CAST BRASS (ET)	—	B.S. 1400 2
23	SEALING WASHER	P.C.P. SHEET	—
24	INSULATING RING	CAST EPOXY RESIN	—
25	INSULATING PLATE	S.R.P. SHEET	B.S. 1137 1
26	INSULATING TUBE	S.R.P. TUBE	B.S. 1137 12
27	INSULATING WASHER	S.R.P. SHEET	B.S. 1137 12
28	WASHER	MILD STEEL	—

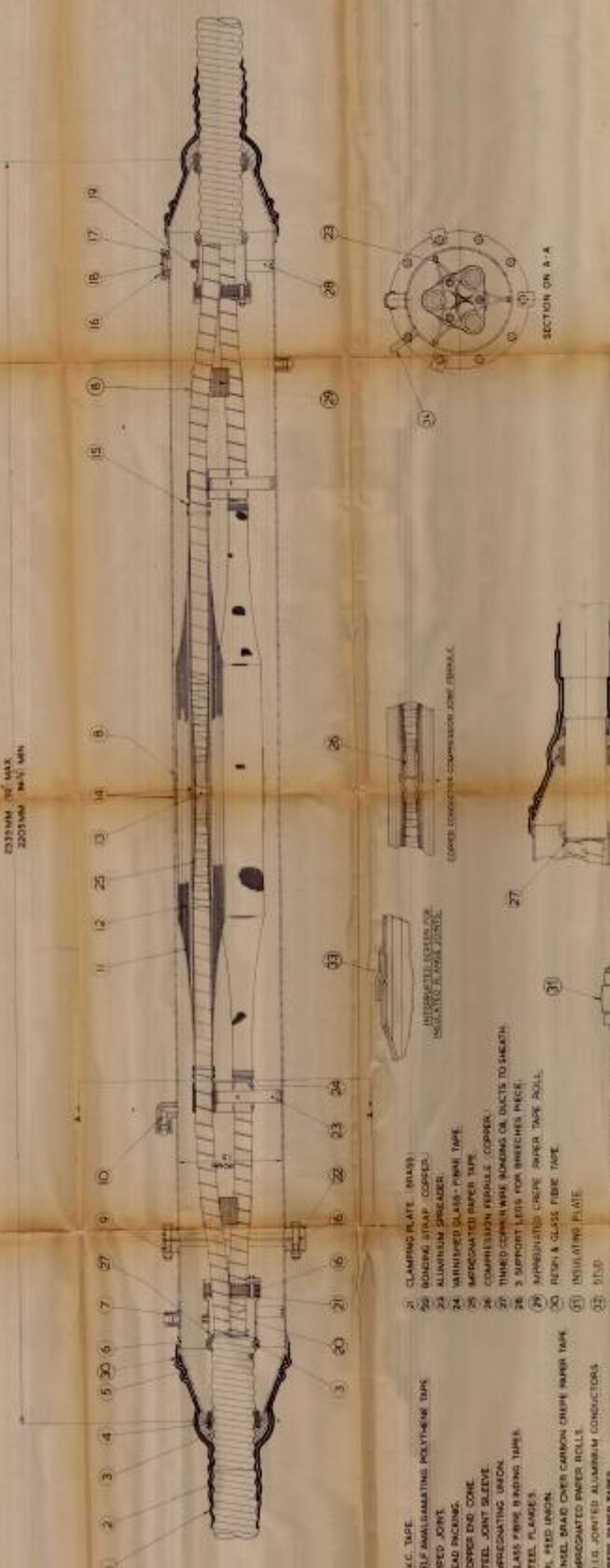
NOTE: FOR SCHEDULE OF DESIGN AND SPEC. SEE SHEET 208.
OIL-IMMERSED SEALING END FOR 66 KV PLATED LEAD SHEATH OIL-FILLED CABLE TYPE (S100) UP TO 8 INCLUDING 0.8 SQCM CONDUCTORS.

DRG. No E95058 - D8

E95343-D4

BICC

2335MM (95") MAX
2205MM (87") MIN



- 1. P.V.C. TUBE
- 2. SELF-ANALYSING POLY-ESTER TAP
- 3. WEPED JOINT
- 4. LEAD INCHING
- 5. COPPER END CONE
- 6. STEEL JOINT SLEEVE
- 7. IMPREGATING UNION
- 8. GLASS FIBRE BONDING TUBE
- 9. STEEL FLANGES
- 10. OIL FEED BANG
- 11. TINNED BRAD OVER CARBON CHIFFE BRAGA TAP
- 12. IMPREGATED PAPER BELLS
- 13. M.I.C. JOINTED ALUMINIUM CONDUCTORS
- 14. CREEP TAPE TAPE
- 15. WREN - TIGROD WRENING
- 16. BRASS BOSS
- 17. BRASS BAR
- 18. WASHING OIL
- 19. VALVE
- 20. BRASS-RESIN PRICE ASSEMBLY
- 21. CLAMPING PLATE (BRASS)
- 22. BONDING STRAP (COPPER)
- 23. ALUMINIUM SPREADER
- 24. WASHED GLASS - PINE TAPE
- 25. IMPREGATED PAPER TAPE
- 26. COMPRESSION FERRULE (COPPER)
- 27. THIRD CONDUCTOR BONDING OIL DUCTS TO BRIGHT
- 28. 3 SUPPORT LEGS FOR BRIDGES PIECE
- 29. IMPREGATED CONCRETE WEAVER TAPE ROLL
- 30. RESIN & GLASS FIBRE TAPE
- 31. INSULATING PLATE
- 32. STAP
- 33. INTERLAPPED SCREEN USED IN CONNECTION WITH ITEM 32
- 34. BRASS JAIL

N.B. THIS DESIGN OF JOINT IS INTENDED FOR USE ONLY IN CONTAINERS OF CLASS FIBRE BOX OR CONCRETE FILLED WITH BITUMINOUS COMPOUND FOR DRAWING SHOWING JOINT IN GLASS FIBRE BOX SEE SKETCH No. 301607 FOR DESIGN No. CONTAINED BY THIS D4. SEE SKETCH No. 301602

DESIGN NO.		DRG. No. E 95343 - D4	
BRITISH INSULATED CABLES DIVISION		BRITISH INSULATED CABLES DIVISION	
LONDON, ENGLAND		LONDON, ENGLAND	

SIG.	MITE	DATE	DESCRIPTION
4/2	4/2		REVISION & GLASS FIBRE TAPE ADDED
5	5		MODIFICATION

STRAIGHT JOINT FOR HEAVY 3-CORE OIL FILLED CABLE UP TO AND INCLUDING 800 SQ. MM (S.I.S. AND 400 SQ. MM (S.I.S.)) WITH ALUMINIUM OR COPPER CONDUCTORS, LEAD OR CORRUGATED SEAMLESS ALUMINIUM SHEATH, BRONZE.

THIRD ANGLE PROJECTION.

SCALE: 1:1

DO NOT SCALE WORKING DIMENSIONS.

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C.5.13 TRADE NAMES OR PROPRIETARY PRODUCTS

Tenderers/Suppliers must note that wherever this document refers to any particular trade mark, name, patent, design, type, specific origin or producer, such reference shall be deemed to be accompanied by the words “or equivalent”.

C.5.14 EMPLOYMENT OF SECURITY PERSONNEL

All security staff employed by the Supplier on behalf of the CCT or at any CCT property must be registered with Private Security Industry Regulatory Authority (PSiRA). Proof of such registration must be made available to the CCT or its agent, upon request.

C.5.15 FORMS FOR CONTRACT ADMINISTRATION

The Supplier shall complete, sign and submit with each invoice, the following:

- a) Monthly Project Labour Report (described below)

The Monthly Project Labour Report must include details of all labour (including that of sub-contractors) that are South African citizens earning less than **R350.00** per day, as adjusted from time to time (excluding any benefits), who are employed on a temporary or contract basis on this contract in the month in question.

In addition to the Monthly Project Labour Report the Supplier shall simultaneously furnish the CCT's Agent with copies of the employment contracts entered into with such labour, together with certified copies of identification documents, proof of attendance in the form of attendance register or timesheets as well as evidence of payments to such labour in the form of copies of payslips or payroll runs. If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it and proof of such acknowledgement shall be furnished to the CCT's Agent.

C.6 SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract, referring to the National Treasury – Conditions of Contract (revised July 2010), are applicable to this agreement.

1. Definitions

Insert new clause 1.1A with the following:

- 1.1A “Commencement Date” means the date the Supplier confirms receipt from the Purchaser of 1 (one) complete, signed copy of the Contract, the *Schedule of Deviations* (if any).
- 1.1B “Conditions of Contract” means the general conditions of contract and special conditions of contract including all other contract data incorporated by reference.

Delete Clause 1.15 and substitute with the following

- 1.15 The word ‘Goods’ is to be replaced everywhere it occurs in the GCC with the phrase ‘Goods and / or Services’ which means all of the equipment, machinery, materials, services, products, consumables, etc. that the Supplier is required to deliver to the Purchaser under the agreement. This definition shall also be applicable, as the context requires, anywhere where the words “supplies” and “services” occurs in the GCC.

Delete Clause 1.19 and substitute with the following

- 1.19 The word ‘Order’ is to be replaced everywhere it occurs in the GCC with the words ‘Purchase Order’ which means the official purchase order authorised and released on the Purchaser’s SAP System.

Delete Clause 1.21 and substitute with the following:

- 1.21 ‘Purchaser’ means the City of Cape Town. The address of the Purchaser is 12 Hertzog Boulevard, Cape Town, 8001 (chosen domicilium citandi et executandi).

Add the following after Clause 1.25:

- 1.26 ‘Supplier’ means the provider of Goods and / or Services with whom the Contract is concluded also referred to as “contractor” in the GCC.
- 1.27 "Intellectual Property" means any and all intellectual property rights of any nature anywhere in the world whether registered, registerable or otherwise, including patents, trademarks, registered designs and domain names, applications for any of the foregoing, trade or business names, copyright and rights in the nature of copyright, design rights, rights in databases, know-how, trade secrets and any other intellectual property rights which subsist in computer software, computer programs, websites, documents, information, techniques, business methods, drawings, logos, instruction manuals, lists and procedures and particulars of customers, marketing methods and procedures and advertising literature, including the "look and feel" of any websites
- 1.28 “Working Day” means Monday to Friday excluding weekends and Public Holidays (in the Republic of Sotuh Africa).

3. General Obligations

Delete Clause 3.2 in its entirety and replace with the following clauses.

- 3.2 The Parties will be liable to each other arising out of or in connection with any breach of the obligations detailed or implied in this contract, subject to clause 28.
- 3.3 If the Supplier is a joint venture, all parties in a joint venture or consortium shall be jointly and severally liable to the Purchaser in terms of the Contract and shall carry individually the minimum levels of insurance stated in the Contract, if any.

- 3.4 The Parties shall comply with all laws, regulations and bylaws of local or other authorities having jurisdiction regarding the Delivery of the Goods and/or Services and give all notices and pay all charges required by such authorities.
- 3.4.1 The Parties agree that this Contract shall also be subject to the CCT's Supply Chain Management Policy ("SCM Policy") that was applicable on the date the bid was advertised as amended from time to time. If the Purchaser adopts a new SCM Policy which contemplates that any clause therein would apply to the Contract emanating from this tender, such clause shall also be applicable to the Contract. Please refer to this document contained on the CCT's website.
- 3.4.2 Abuse of the supply chain management system is not permitted and may result in termination of the Contract, restriction of the Supplier, and/or the exercise by the CCT of any other remedies available to it as described in the SCM Policy or in law.
- 3.5 The Supplier shall:
- 3.5.1 Arrange for the documents listed below to be provided to the Purchaser prior to the issuing of the Purchase Order by the Purchaser and no later than the periods as set out in the Contract:
- a) Proof of Insurance (Refer to Clause 11) or Insurance Broker's Warrantee,
 - b) Letter of good standing from the Compensation Commissioner, or a licensed compensation insurer (Refer to Clause 11),
 - c) Initial delivery programme, and
 - d) Other requirements as detailed in the Contract.
- 3.5.2 Only when notified of the acceptance of the bid on the Date of Commencement of Contract, the Supplier shall commence with and carry out the Delivery of the Goods and/or Services in accordance with the Contract, to the satisfaction, of the Purchaser.
- 3.5.3 Provide all of the necessary materials, labour, plant and equipment required for the delivery of the Goods and/or Services including any temporary services that may be required.
- 3.5.4 Insure his workmen and employees against death or injury arising out of the delivery of the Goods.
- 3.5.5 Be continuously represented during the Delivery of the Goods and/or Services by a competent representative duly authorised to execute instructions.
- 3.5.6 In the event of a loss resulting in a claim against the insurance policies stated in clause 11, pay the first amount (excess) as required by the insurance policy.
- 3.5.7 Comply with all written instructions from the Purchaser subject to clause 18.
- 3.5.8 Complete and Deliver the goods within the period stated in clause 10, or any extensions thereof in terms of clause 21.
- 3.5.9 Make good at his own expense, all incomplete and defective Goods during the warranty period.
- 3.5.10 Pay to the Purchaser any penalty for delay as due on demand by the Purchaser. The Supplier hereby consents to such amounts being deducted from any payment due to the Supplier.
- 3.5.11 Comply with the provisions of the OHAS Act & all relevant regulations.
- 3.5.12 Comply with all laws relating to wages and conditions generally governing the employment of labour in the Cape Town area and any applicable Bargaining Council agreements.
- 3.5.13 Deliver the Goods in accordance with the Contract and with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards.
- 3.6 The Purchaser shall:
- 3.6.1 Issue Purchaser Orders for the Goods and/or Services required under this Contract. No liability for payment will ensue for arising out of the Delivery of the Goods and/or Services, unless a Purchase Order

has been issued to the Supplier.

- 3.6.2 Make payment to the Supplier for the Goods and/or Services as set out herein.
- 3.6.3 Take possession of the Goods and /or Services upon Delivery by the Supplier.
- 3.6.4 Regularly inspect the Goods to establish that it is being delivered in compliance with the Contract.
- 3.6.5 Give any instructions and/or explanations and/or variations to the Supplier including any relevant advice to assist the Supplier to understand the Contract.
- 3.6.6 Grant or refuse any extension of time requested by the Supplier of the period stated in clause 10.
- 3.6.7 Inspect the Goods and/or Services to determine if, in the opinion of the Purchaser, it has been delivered in compliance with the Contract, alternatively in such a state that it can be properly used for the purpose for which it was intended.
- 3.6.8 Brief the Supplier and issue all documents, information, etc. in accordance with the contract.

5. Use of contract documents and information; inspection, copyright, confidentiality, etc.

Add the following after clause 5.4:

- 5.5 Copyright of all documents prepared by the Supplier in accordance with the relevant provisions of the Copyright Act (Act 98 of 1978) relating to the Contract shall be vested in the Purchaser. Where copyright is vested in the Supplier, the Purchaser shall be entitled to use the documents or copy them only for the purposes for which they are intended in regard to the agreement and need not obtain the Supplier's permission to copy it for such use. Where copyright is vested in the Purchaser, the Supplier shall not be liable in any way for the use of any of the information other than as originally intended in terms of the agreement and the Purchaser hereby indemnifies the Supplier against any claim which may be made against it by any person / entity, arising from the use of such documentation for other purposes.

The ownership of data and factual information collected by the Supplier and paid for by the Purchaser shall, after payment, vest with the Purchaser.

- 5.6 **Publicity and publication**
The Supplier shall not release public or media statements or publish material related to the services or agreement within two (2) years of Delivery of the Goods, without the written approval of the Purchaser, which approval shall not be unreasonably withheld.
- 5.7 **Confidentiality**
Both Parties shall keep all information obtained by them in the context of the agreement, confidential and shall not divulge it without the written approval of the other Party.
- 5.8 **Intellectual Property**
 - 5.8.1 The Supplier acknowledges that it shall not acquire any right, title or interest in or to the Intellectual Property of the Purchaser.
 - 5.8.2 The Supplier hereby assigns to the Purchaser, all Intellectual Property created, developed or otherwise brought into existence by it for the purposes of the agreement, unless the Parties expressly agree otherwise in writing.
 - 5.8.3 The Supplier shall, and warrants that it shall:
 - 5.8.3.1 Not be entitled to use the Purchaser's Intellectual Property for any purpose other than as contemplated in the agreement;
 - 5.8.3.2 not modify, add to, change or alter the Purchaser's Intellectual Property, or any information or data related thereto, nor may the Supplier produce any product as a result of, including and/or arising from any such information, data and Intellectual Property, and in the event that it does produce any such product, the product shall be, and be deemed in law to be, owned by the Purchaser;

- 5.8.3.3 Not apply for or obtain registration of any domain name, trademark or design which is similar to any Intellectual Property of the Purchser;
- 5.8.3.4 Comply with all reasonable directions or instructions given to it by the Purchaser in relation to the form and manner of use of the CCT Intellectual Property, including without limitation, any brand guidelines which the Purchaser may provide to the Supplier from time to time;
- 5.8.3.5 Ensure that its employees, directors, members and contractors comply strictly with the provisions of this Clause 5.5.8.4 above unless the Purchaser expressly agrees to the contrary, in writing and only after obtaining due internal authority for such agreement.
- 5.8.4 The Supplier represents and warrants to the Purchaser that, in providing Goods and/or Services for the duration of the agreement it will not infringe or make unauthorised use of the Intellectual Property rights of any third party and hereby indemnifies the Purchaser from any claims, liability, loss, damages, costs, and expenses arising from the infringement or unauthorised use by the Supplier of any third party's Intellectual Property rights.
- 5.8.5 Upon expiry of the contract period and in the event that the Contract is terminated, ended or is declared void, any and all of the Purchaser's Intellectual Property, and any and all information and data related thereto, shall be immediately handed over to the Purchaser by the Supplier and no copies thereof shall be retained by the Supplier unless the Purchaser expressly and in writing, after obtaining due internal authority, agrees otherwise.

Add the following after clause 5.8:

5.9 Protection of Personal Information Act of 2013

By submitting a tender to the Purchaser, (and by concluding any ensuing related agreement with the City of Cape Town, if applicable), the Tenderer thereby acknowledges and unconditionally agrees:

- 5.9.1 that the tenderer has been informed of the purpose of the collection and processing of its personal information as defined in the Protection of Personal Information Act of 2013 ("POPIA"), which, for the avoidance of doubt is for, and in relation to, the tender process and the negotiation, conclusion, performance and enforcement of the ensuing agreement, if applicable, as well as for the City of Cape Town's reporting purposes;
- 5.9.2 to the collection and processing of the tenderer's personal information by the City of Cape Town and agrees to make available to the City of Cape Town, all information reasonably required by the City of Cape Town for the above purposes;
- 5.9.3 that the personal information the City of Cape Town collects from the tenderer or about the tenderer may be further processed for other activities and/or purposes which are lawful, reasonable, relevant and not excessive in relation to the purposes set out above, for which it was originally collected;
- 5.9.4 that, the tenderer indemnifies the City of Cape Town and its officials, employees, and directors and undertakes to keep the City of Cape Town and its officials, employees, and directors indemnified in respect of any claim, loss, demands, liability, costs and expenses of whatsoever nature which may be made against the City of Cape Town (including the costs incurred in defending or contesting any such claim) in relation to the tenderer or the tenderer's employees', representatives' and/or sub-Suppliers' non-compliance with POPIA and/or the City of Cape Town's failure to obtain the tenderer's consent or to notify the tenderer of the reason for the processing of the tenderer's personal information;
- 5.9.5 to the disclosure of the tenderer's personal information by the City of Cape Town to any third party, where the City of Cape Town has a legal or contractual obligation to disclose such personal information to the third party (or a legitimate interest exists therein);
- 5.9.6 that, under POPIA, the tenderer may request to access, confirm, request the correction, destruction, or deletion of, or request a description of, personal information held by the City of Cape Town in relation to you, subject to applicable law; and

that under POPIA, subject to applicable law, the tenderer also has the right to be notified of a personal information breach and the right to object to, or restrict, the City of Cape Town's processing of its personal information.

5.10 **PERFORMANCE MONITORING**

- 5.10.1 As required by section 116(2)(b) of the Local Government: Municipal Financial Management Act 56 of 2003, the CCT shall monitor the performance of the Supplier on at least a monthly basis, and the Supplier agrees to provide the CCT with its full cooperation in this regard.

7. Performance Security

Delete clause 7.1 to 7.4 and replace with the following:

Not Applicable. Tenderers must disregard the **Pro Forma Performance Security/ Guarantee** and are not required to furnish same.

8. Inspections, tests and analyses

Delete Clause 8.2 and substitute with the following:

- 8.2 If it is a bid condition that Goods and/or Services to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or Supplier shall be open, at all reasonable hours, for inspection by a representative of the Purchaser or an organisation acting on behalf of the Purchaser.

10. Delivery and documents

Delete clauses 10.1 and 10.2 and replace with the following:

- 10.1 Delivery of the goods shall be made by the Supplier in accordance with the terms specified in the contract. The time for Delivery of the goods shall be the date as stated on the Purchase Order. In the case of agreements for Delivery of goods in terms of framework or panel agreements, Purchase Orders for the supply and delivery of goods may be raised up until the expiry of a framework or panel agreement, provided that the goods can be delivered within 30 (thirty) days of expiry of the framework or panel agreement. In this context, the "goods" does not include services and carries its ordinary meaning. All Purchase Orders other than for the supply and Delivery of goods (i.e. supply of services, professional services or constructions works), must be completed prior to the expiry of the contract period.
- 10.2 The Purchaser shall determine, in its sole discretion, whether the Goods and/or Services have been delivered in compliance with the Contract, alternatively in such a state that it can be properly used for the purpose for which it was intended. When the Purchaser determines that the Goods and/or Services have been satisfactorily delivered, the Purchaser must issue an appropriate certification, or written approval, to that effect. Invoicing may only occur, and must be dated, on or after the date of such written acceptance of the Goods.

11. Insurance

Add the following after clause 11.1:

- 11.2 Without limiting the obligations of the Supplier in terms of this Contract, the Supplier shall effect and maintain the following additional insurances:
- 11.2.1 Public liability insurances, in the name of the Supplier, covering the Supplier and the Purchaser against liability for the death of or injury to any person, or loss of or damage to any property, arising out of or in the course of this Contract, in an amount not less than **R20 million** for any single claim;
- 11.2.2 Motor Vehicle Liability Insurance, in respect of all vehicles owned and / or leased by the Supplier, comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability Indemnity;
- 11.2.3 Registration / insurance in terms of the Compensation for Occupational Injuries and Disease Act, Act 130 of 1993. This can either take the form of a certified copy of a valid Letter of Good Standing issued by the Compensation Commissioner, or proof of insurance with a licenced compensation insurer, from either the Supplier's broker or the insurance company itself (see the Pro Forma Insurance Broker's Warranty).

- 11.2.4 In the event of under insurance or the insurer’s repudiation of any claim for whatever reason, the Purchaser will retain its right of recourse against the Supplier.
- 11.3 The Supplier shall be obliged to furnish the Purchaser with proof of such insurance as the Purchaser may require from time to time for the duration of this Contract. Evidence that the insurances have been effected in terms of this clause, shall be either in the form of an insurance broker’s warranty worded precisely as per the pro forma version contained in the Pro forma Insurance Broker’s Warranty or copies of the insurance policies.

15. Warranty

Add to Clause 15.2:

- 15.2 The warranty for this Contract shall remain valid for twelve (12) months from date of Delivery of the Goods and/or Services.

16. Payment

Delete Clause 16.1 in its entirety and replace with the following:

- 16.1 Payment of invoices will be made:

16.1.1 Within 30 (thirty) days of receiving the relevant invoice or statement from the Supplier, unless otherwise prescribed for certain categories of expenditure or specific contractual requirements in accordance with any other applicable policies of the Purchaser.

16.1.2 Notwithstanding anything contained above, the Purchaser shall not be liable for payment of any invoice that pre-dates the date of delivery of any Goods and/or Services.

Delete Clause 16.2 in its entirety and replace with the following:

- 16.2 The Supplier shall furnish the purchaser’s Accounts Payable Department with an original tax invoice, clearly showing the amount due in respect of each and every claim for payment.

Add the following after clause 16.4

16.5 Notwithstanding any amount stated on the Purchase Order, the Supplier shall only be entitled to payment for Goods and/or Services actually delivered in terms of the Specification and Drawings, or any variations thereof made in accordance with clause 18. Any contingency sum included shall be for the sole use, and at the discretion, of the Purchaser.

16.6 The Purchaser will only make advanced payments to the Supplier in strict compliance with the terms and conditions as contained in the Pro forma Advanced Payment Guarantee and only once the authenticity of such guarantee has been verified by the Purchaser’s Treasury Department.

16.6.1 The Advance Payment Schedule applicable to this Contract is set out below. The items of plant and materials which have been identified by the Purchaser as being suitable for advance payment in terms of this Contract are listed in the table below, and for which the Purchaser is prepared to make advance payment to the Supplier, subject to the conditions below. Should an item or items be added to the list at tender stage by a tenderer, no obligation to advance payment shall be incurred by the Purchaser, for such items added by the tenderer except as provided for herein.

Plant and materials which have been manufactured and are stored by the supplier	Plant and materials yet to be manufactured and for which a deposit with order is required from the supplier by a third party manufacturer/supplier, and which may be stored by the supplier:
Not applicable	

16.6.2 The Supplier can only rely on advance payment being permitted by the Purchaser in respect of the plant and materials listed in the table above. The Purchaser may, however, permit advance

payment for other plant and materials in exceptional circumstances and at its sole discretion, during the course of the Contract, and upon reasonable request from the Supplier.

- 16.6.3 Advance payment for the purposes of deposits will only be provided up to a limit of **0%** of the value of any one item being claimed.
- 16.6.4 The Supplier shall provide the Purchaser with documentary evidence of the terms and conditions for which a deposit with order is required by a third party manufacturer/supplier, together with the advance payment guarantee.
- 16.6.5 The Supplier will also be permitted to obtain advance payment for the balance of the value of the plant and materials in respect of which he has paid a deposit, for an item which after manufacture is stored by the Supplier. The Supplier shall, in respect of such payment, provide an advance payment guarantee, either for such balance or, if the advance payment guarantee in respect of the deposit is to be returned by the Purchaser upon request, for the whole value of the item.

17. Prices

Add the following after clause 17.1

17.2 If as a result of an award of a contract beyond the original tender validity period, the contract execution will be completed beyond a period of twelve (12) months from the expiry of the original tender validity period, then the contract may be subject to contract price adjustment for that period beyond such twelve (12) months. An appropriate contract price adjustment formula will be determined by the Purchaser delegated authority if such was not included in the bid documents.

17.3 If as a result of any extension of time granted, the contract execution will be completed beyond a period of twelve (12) months from the expiry of the original tender validity period, then contract price adjustment may apply to that period beyond such twelve (12) months. An appropriate contract price adjustment formula will be determined by the Director: Supply Chain Management if such was not included in the bid documents.

17.4 The prices for the goods and/or Services delivered and services performed shall be subject to contract price adjustment in terms of Schedule F.1 Contract Price Adjustment and/or Rate of Exchange Variations.

18. Contract Amendments

Delete the heading of clause 18 and replace with the following:

18. Contract Amendments and Variations

Add the following to clause 18.1:

Variations means changes to the Goods and/or Services, extension of the contract period or increases in the value of the Contract as a result of written instructions issued by the Purchaser to the Supplier. Such changes are subject to prior approval by the Purchaser's delegated authority. Should the Supplier deliver any Goods not described in a written instruction from the Purchaser, the Purchaser's liability for payment shall no arise until such time as the change has been duly approved and such approval communicated to the Purchaser.

20. Subcontracts

Add the following after clause 20.1:

- 20.2 The Supplier shall be liable for the acts, defaults and negligence of any subcontractor, his agents or employees as fully as if they were the acts, defaults or negligence of the Supplier.
- 20.3 Any appointment of a subcontractor shall not amount to a contract between the Purchaser and the subcontractor, or a responsibility or liability on the part of the Purchaser to the subcontractor and shall not relieve the Supplier from any liability or obligation under the Contract.

21. Delays in the supplier's performance

Delete Clause 21.2 in its entirety and replace with the following:

21.2 If at any time during the performance of obligations contained in the Contract the Supplier or its subcontractors should encounter conditions beyond their reasonable control which impede the timely delivery of the Goods and/or Services, the Supplier shall notify the Purchaser in writing, within 7 (seven) days of first having become aware of these conditions, of the facts of the delay, its cause(s) and its probable duration. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation, and may at his discretion extend the time for Delivery.

Where additional time is granted, the Purchaser shall also determine whether or not the Supplier is entitled to payment for additional costs in respect thereof. The principle to be applied in this regard is that where the Purchaser or any of its agents are responsible for the delay, reasonable costs shall be paid. In respect of delays that were beyond the reasonable control of both the Supplier and the Purchaser, additional time only (no costs) will be granted.

The Purchaser shall notify the Supplier in writing of his decision(s) in the above regard.

21.3 No provision in this Contract shall be deemed to prohibit the obtaining of Goods and/or Services from a national department, provincial department, or a local authority.

22. Penalties

Delete clause 22.1 and replace with the following:

22.1 Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods and/or Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from amounts payable, as a penalty, a sum as stated herein for each day of the delay until actual Delivery or performance.

The penalty for this contract shall be **1% of the Purchase Order (PO) price for every week delay as per the delivery period in the pricing schedule, up to a maximum of 5% for 5 weeks of the PO amount.**

22.2 The Purchaser shall, without prejudice to its other remedies under the contract, deduct from amounts payable, financial penalties as contained on the Preference Schedule for breaches of the conditions upon which preference points were awarded.

23. Termination for default

Delete the heading of clause 23 and replace with the following:

23. Termination

Add the following to the end of clause 23.1:

If the Supplier fails to remedy the breach in terms of such notice.

Add the following after clause 23.7:

23.8 In addition to the grounds for termination due to default by the Supplier, the Contract may also be terminated:

23.8.1 Upon the death of the Supplier who was a Sole Proprietor, or a sole member of a Close Corporation, in which case the contract will terminate forthwith.

23.8.2 If the Parties, by mutual agreement, terminate the Contract.

23.8.3 If a material irregularity vitiates the procurement process leading to the conclusion of the Contract, rendering the procurement process and the conclusion of the resulting Contract unfair, inequitable, non-transparent, uncompetitive or not cost-effective the Contract may be terminated by the Purchaser (upon conclusion of applicable processes by the City Manager as described in the Purchaser's SCM Policy).

23.8.4 Reputational risk or harm to the Purchaser

The Purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, may terminate the contract if the implementation of the contract may result in reputational risk or harm to the Purchaser as a result of (inter alia):

- a) reports of poor governance and/or unethical behaviour;
- b) association with known notorious individuals and family of notorious individuals;
- c) poor performance issues, known to the Purchaser
- d) negative social media reports;
- e) adverse assurance (e.g. due diligence) report outcomes; or
- f) circumstances where the relevant vendor has employed, or is directed by, anyone who was previously employed in the service of the state (as defined in clause 1.53), where the person is or was negatively implicated in any SCM irregularity.

By or in relation to the Supplier, the Contract may be terminated by the Purchaser after providing notice to the Supplier.

- 23.9 If the Contract is terminated in terms of clause 23.8, all obligations that were due and enforceable prior to the date of the termination, must be performed by the relevant Party.

26. Termination for insolvency

Delete clause 26.1 and replace with the following:

- 26.1 In the event of the Supplier becoming bankrupt or otherwise insolvent the Purchaser may elect to:

26.1.1 At any time, terminate the Contract by giving written notice to the Supplier; or

26.1.2 Accept a Supplier's proposal (via the liquidator) to render delivery utilising the appropriate contractual mechanisms or takes steps to ensure its rights are protected and any negative impact on service delivery is mitigated.

- 26.2 In the event of the Purchaser electing to cancel the Contract in accordance with clause 26.1.1 above, the Purchaser shall make payment of all verified and signed off invoices. In the event of there being any dispute in respect of any outstanding invoices such dispute shall be dealt with in accordance with the dispute resolution mechanism in the Contract.

27. Settlement of Disputes

Amend clause 27.1 as follows:

- 27.1 If any dispute or difference of any kind whatsoever, with the exception of termination in terms of clause 23 arises between the Purchaser and the Supplier in connection with or arising out of the Contract, the Parties shall make every effort to resolve such dispute or difference amicably, by mutual consultation.

Delete Clause 27.2 in its entirety and replace with the following:

- 27.2 Should the Parties fail to resolve any dispute by way of mutual consultation, either party shall be entitled to refer the matter for mediation before an independent and impartial person appointed by the City Manager in accordance with Regulation 50(1) of the Local Government: Municipal Finance Management Act, 56 of 2003 – Municipal Supply Chain Management Regulations (Notice 868 of 2005). Such referral shall be done by either party giving written notice to the other of its intention to commence with mediation. No mediation may be commenced unless such notice is given to the other party.

Irrespective whether the mediation resolves the dispute, the Parties shall bear their own costs concerning the mediation and share the costs of the mediator and related costs equally.

The mediator shall agree the procedures, representation and dates for the mediation process with the Parties. The mediator may meet the Parties together or individually to enable a settlement.

Where the Parties reach settlement of the dispute or any part thereof, the mediator shall record such agreement and on signing thereof by the Parties the agreement shall be final and binding.

Save for reference to any portion of any settlement or decision which has been agreed to be final and binding on the Parties, no reference shall be made by or on behalf of either party in any subsequent court proceedings, to any outcome of an amicable settlement by mutual consultation, or the fact that any particular evidence was given, or to any submission, statement or admission made in the course of amicable settlement by mutual consultation or mediation.

28. Limitation of Liability

Delete clause 28.1 (a) and (b) and replace with the following:

- (a) notwithstanding any provision to the contrary contained in this contract, neither the supplier nor any of its officers, directors, employees, agents contractors, consultants or other representatives shall be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect, incidental, special or consequential loss or damage of any kind, including without limitation the loss of use, loss of production, or loss of profits or interest costs, loss of goodwill, lost or damaged data or software, costs of substitute products/services and/or loss of business or business opportunities (whether foreseeable or unforeseeable), provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser;
- (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the sums insured in terms of clause 11 in respect of insurable events, or where no such amounts are stated, to an amount equal to twice the Contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

Add the following after clause 28.1:

28.2 Without detracting from, and in addition to, any of the other indemnities in this Contract, the Supplier shall be solely liable for and hereby indemnifies and holds harmless the Purchaser against all claims, charges, damages, costs, actions, liability, demands and/or proceedings and expense in connection with:

- a) personal injury or loss of life to any individual;
- b) loss of or damage to property;

arising from, out of, or in connection with the performance by the Supplier in terms of this Contract, save to the extent caused by the gross negligence or wilful misconduct of the Purchaser.

28.3 The Supplier and/or its employees, agents, concessionaires, suppliers, sub-contractors or customers shall not have any claim of any nature against the purchaser for any loss, damage, injury or death which any of them may directly or indirectly suffer, whether or not such loss, damages, injury or death is caused through negligence of the Purchaser or its agents or employees.

28.4 Notwithstanding anything to the contrary contained in this Contract, under no circumstances whatsoever, including as a result of its negligent (including grossly negligent) acts or omissions or those of its servants, agents or contractors or other persons for whom in law it may be liable, shall any party or its servants (in whose favour this constitutes a *stipulatio alteri*) be liable for any indirect, extrinsic, special, penal, punitive, exemplary or consequential loss or damage of any kind whatsoever, whether or not the loss was actually foreseen or reasonably foreseeable), sustained by the other party, its directors and/or servants, including but not limited to any loss of profits, loss of operation time, corruption or loss of information and/or loss of contracts.

28.5 Each party agrees to waive all claims against the other insofar as the aggregate of compensation which might otherwise be payable exceeds the aforesaid maximum amounts payable.

31. Notices

Delete clauses 31.1 and 31.2 and replace with the following:

31.1 Any notice, request, consent, approvals or other communications made between the Parties pursuant to the Contract shall be in writing and forwarded to the addresses specified in the Contract and may be given as set out hereunder and shall be deemed to have been received when:

- a) hand delivered – on the day delivery of delivery or the next Working Day,
- b) sent by registered mail – five (5) Working Days after mailing,
- c) sent by email or telefax – one (1) Working Day after transmission.

32. Taxes and Duties

Delete the final sentence of 32.3 and replace with the following:

. In this regard, it is the responsibility of the Tenderer to submit evidence in the form of a valid Tax Compliance Status PIN issued by SARS to the CCT at the Supplier Management Unit located within the Supplier Management / Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5), or included with this tender.

Add the following after clause 32.3:

32.4 The VAT registration number of the CCT is 4500193497.

ADDITIONAL CONDITIONS OF CONTRACT

Add the following Clause after Clause 34:

35. Reporting Obligations

35.1 The Supplier shall complete, sign and submit with each delivery note, all the documents as required in the Specifications including Monthly Project Labour Reports (Annexure B). Any failure in this regard may result in a delay in the processing of payments.

C.7 GENERAL CONDITIONS OF CONTRACT

(National Treasury - General Conditions of Contract (revised July 2010))

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1. Definitions

1. The following terms shall be interpreted as indicated:

- 1.1 'Closing time' means the date and hour specified in the bidding documents for the receipt of bids.
- 1.2 '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.
- 1.3 'Contract price' means the price payable to the supplier under the contract for the full and proper performance of his or her contractual obligations.
- 1.4 '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.
- 1.5 'Countervailing duties' are imposed in cases in which an enterprise abroad is subsidised by its government and encouraged to market its products internationally.

- 1.6 '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 recognised new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 1.7 'Day' means calendar day.
- 1.8 'Delivery' means delivery in compliance with the conditions of the contract or order.
- 1.9 'Delivery ex stock' means immediate delivery directly from stock actually on hand.
- 1.10 'Delivery into consignee's 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 supplies are so delivered and a valid receipt is obtained.
- 1.11 'Dumping' occurs when a private enterprise abroad markets its goods on its own initiative in the RSA at lower prices than that of the country of origin, and which action has the potential to harm the local industries in the RSA.
- 1.12 'Force majeure' means an event beyond the control of the supplier, not involving the supplier's fault or negligence, and not foreseeable. Such events may include, but are not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 '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.
- 1.14 'GCC' means the General Conditions of Contract.
- 1.15 'Goods' means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 '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 supplies covered by the bid will be manufactured.
- 1.17 'Local content' means that portion of the bidding price which is not included in the imported content, provided that local manufacture does take place.
- 1.18 'Manufacture' means the production of products in a factory using labour, materials, components and machinery, and includes other, related value-adding activities.
- 1.19 'Order' means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 'Project site', where applicable, means the place indicated in bidding documents.
- 1.21 'Purchaser' means the organisation purchasing the goods.
- 1.22 'Republic' means the Republic of South Africa.
- 1.23 'SCC' means the Special Conditions of Contract.

1.24 '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.

1.25 'Written' or 'in writing' means handwritten 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, 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 supplies, 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 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za.

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 specification, 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 performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for the 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 the use of the goods or any part thereof by the purchaser.

7. Performance Security

7.1 Within 30 (thirty) 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 the 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.
- 1.3 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 30 (thirty) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in the SCC.

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 supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organisation acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention of such 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 supplies 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 supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies 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 supplies may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier, who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal, the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies 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 23 of the 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 and 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, specified in the SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in the SCC.

10.2 Documents to be submitted by the supplier are specified in the SCC.

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 in the SCC.

12. Transportation

12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

13. Incidental Services

13.1 The supplier may be required to provide any or all of the following services, including additional services (if any) specified in the SCC:

- (a) performance or supervision of on-site assembly, and/or commissioning of the supplied goods;
- (b) furnishing of tools required for the 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 in the SCC, 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 12 (twelve) 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 18 (eighteen) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in the SCC.

15.3 The purchaser shall notify the supplier promptly, in writing, of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, within the period specified in the SCC 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 in the SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights 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 in the SCC.

16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of any other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser, but in no case later than 30 (thirty) days after submission of an invoice or claim by the supplier.

16.4 Payment will be made in Rand unless otherwise stipulated in the SCC.

17. Prices

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

18. Contract Amendments

18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the Parties concerned.

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 subcontracts 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 the 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 or her 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 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.
- 21.4 The right is reserved to procure, outside of the contract, small quantities of supplies; or to have minor essential services executed if an emergency arises, or the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.
- 21.5 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 21.2 without the application of penalties.
- 21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling the contract, be entitled to purchase supplies 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 14 (fourteen) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated 14 (fourteen) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.
- 23.5 Any restriction imposed on any person by the Accounting Officer/Authority will, at the discretion of the Accounting Officer/Authority, 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 Accounting Officer/Authority, actively associated.

- 23.6 If a restriction is imposed, the purchaser must, within 5 (five) working days of such imposition, furnish the National Treasury with the following information:
- (i) the name and address of the supplier and/or person restricted by the purchaser;
 - (ii) the date of commencement of the restriction;
 - (iii) the period of restriction; and
 - (iv) 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, Act 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender 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 of 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 a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidised 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 contractor to the State, or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he or she 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 or her.

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 notify the purchaser promptly, 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 such dispute or difference amicably, by mutual consultation.
- 27.2 If, after 30 (thirty) 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 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.

27.5 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 to the supplier.

28. Limitation of Liability

28.1 Except in cases of criminal negligence or wilful 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 in the SCC.

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, licence fees, and other such levies imposed outside the purchaser's country.

32.2 A local supplier shall be entirely responsible for all taxes, duties, licence 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 the Department must be in possession of a tax clearance certificate submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

33. National Industrial Participation (NIP) Programme

33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.

34 Prohibition of Restrictive practices

34.1 In terms of section 4 (1) (b) (iii) of the Competition Act, Act 89 of 1998, as amended, an agreement between or concerted practice by firms, or 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 (or bid rigging).

- 34.2 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 the Competition Act, Act 89 of 1998.
- 34.3 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 10 (ten) years and/or claim damages from the bidder(s) or contractor(s) concerned.

C.8 ANNEXURES

Annexure A – Pro Forma Insurance Broker’s Warranty



Letterhead of supplier’s Insurance Broker

Date _____

CCT
City Manager
Civic Centre
12 Hertzog Boulevard
Cape Town
8000

Dear Sir

TENDER NO.: 300G/2024/25

TENDER DESCRIPTION: SUPPLY AND DELIVERY OF HIGH VOLTAGE STRAIGHT JOINTS AND SPARE MATERIALS

NAME OF SUPPLIER: _____

I, the undersigned, do hereby confirm and warrant that all the insurances required in terms of the abovementioned contract have been issued and/or in the case of blanket/umbrella policies, have been endorsed to reflect the interests of the CCT with regard to the abovementioned contract, and that all the insurances and endorsements, etc., are all in accordance with the requirements of the contract.

I furthermore confirm that all premiums in the above regard have been paid.

Yours faithfully

Signed: _____

For: _____ (Supplier’s Insurance Broker)

MONTHLY PROJECT LABOUR REPORT



BENEFICIARY DETAILS AND WORK INFORMATION

CONTRACT OR WORKS PROJECT NUMBER:
--

Year	Month

Sheet		
1	of	

No.	(8) First name	(8) Surname	(8) ID number	(9) New Beneficiary (Y/N)	Gender (M/F)	Disabled (Y/N)	(10) Job seeker database (Y/N)	Contract start date (DDMMYY)	(11) Contract end date (DDMMYY)	(12) No. days worked this month (excl. training)	(13) Training days	(14) Rate of pay per day (R - c)
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
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16												
17												
18												
19												
20												

0 0 R -

Declared by Contractor or Vendor to be true and correct:	Name	Signature
	Date	

Received by Employer's Agent / Representative:	Name	Signature
	Date	

Annexure C - Pro Forma Performance Security/ Guarantee (Not applicable)

GUARANTEE PERFORMANCE SECURITY

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means:

Physical address of Guarantor:

"Supplier" means:

"Contract Sum" means: The accepted tender amount (INCLUSIVE OF VAT) of R.....

Amount in words:

"Guaranteed Sum" means: The maximum amount of R

Amount in words:

"Contract" means: The agreement made in terms of the Form of Offer and Acceptance for tender no ...and such amendments or additions to the contract as may be agreed in writing between the Parties.

PERFORMANCE GUARANTEE

1. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
2. The Guarantor's period of liability shall be from and including the date of issue of this Guarantee/Performance Security up to and including the termination of the Contract or the date of payment in full of the Guaranteed Sum, whichever occurs first.
3. The Guarantor hereby acknowledges that:
 - 3.1 any reference in this Guarantee/Performance to "Contract" is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;
 - 3.2 Its obligation under this Guarantee/Performance Security is restricted to the payment of money.
4. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the CCT the sum due and payable upon receipt of the documents identified in 4.1 to 4.2:
 - 4.1 A copy of a first written demand issued by the CCT to the Supplier stating that payment of a sum which is due and payable has not been made by the Supplier in terms of the Contract and failing such payment within seven (7) calendar days, the CCT intends to call upon the Guarantor to make payment in terms of 4.2;
 - 4.2 A first written demand issued by the CCT to the Guarantor at the Guarantor's physical address with a copy to the Supplier stating that a period of seven (7) days has elapsed since the first written demand in terms of 4.1 and the sum has still not been paid.
5. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the CCT the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the CCT to the Guarantor at the Guarantor's physical address calling up this Guarantee / Performance Security, such demand stating that:
 - 5.1 The Contract has been terminated due to the Supplier's default and that this Guarantee/Performance Security is called up in terms of 5; or
 - 5.2 a provisional or final sequestration or liquidation court order has been granted against the Supplier and that the Guarantee/Performance Guarantee is called up in terms of 5; and

- 5.3 *The aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.*
- 6. *It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1.*
- 7. *Where the Guarantor has made payment in terms of 5, the CCT shall upon the termination date of the Contract, submit an expense account to the Guarantor showing how all monies received in terms of this Guarantee/Performance Security have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Guarantee/Performance Security shall bear interest at the prime overdraft rate of the CCT's bank compounded monthly and calculated from the date payment was made by the Guarantor to the CCT until the date of refund.*
- 8. *Payment by the Guarantor in terms of 4 or 5 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.*
- 9. *The CCT shall have the absolute right to arrange its affairs with the Supplier in any manner which the CCT may deem fit and the Guarantor shall not have the right to claim his release from this Guarantee /Performance Security on account of any conduct alleged to be prejudicial to the Guarantor.*
- 10. *The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.*
- 11. *This Guarantee/Performance Security is neither negotiable nor transferable and shall expire in terms of 2, where after no claims will be considered by the Guarantor. The original of this Guarantee / Performance Security shall be returned to the Guarantor after it has expired.*
- 12. *This Guarantee/Performance Security, with the required demand notices in terms of 4 or 5, shall be regarded as a liquid document for the purposes of obtaining a court order.*
- 13. *Where this Guarantee/Performance Security is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.*

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)

Annexure D - Pro Forma Advance Payment Guarantee (Not applicable)

ADVANCE PAYMENT GUARANTEE

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means:

Physical address of guarantor:

"Supplier" means:

"Contract Sum" means: *The accepted tender amount (INCLUSIVE of VAT) of R*

Amount in words:

"Contract" means: *The agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the Parties.*

"Plant and materials" means: *The Plant and materials in respect of which an advance payment prior to manufacture is required, which the CCT has agreed may be subject to advance payment, such Plant and materials being listed in the Schedule of Plant and materials.*

"Schedule of Plant and materials" means: *A list of Plant and materials which shows the value thereof to be included in the Guaranteed Advance Payment Sum.*

"Guaranteed Advance Payment Sum" means: *The maximum amount of R.....*

Amount in words:

1. *The Guarantor's liability shall be limited to the amount of the Guaranteed Advance Payment Sum.*
2. *The Guarantor's period of liability shall be from and including the date of issue of this Advance Payment Guarantee and up to and including the termination of the Contract or the date of payment in full of the Guaranteed Advance Payment Sum, whichever occurs first.*
3. *The Guarantor hereby acknowledges that:*
 - 3.1 *any reference in this Advance Payment Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;*
 - 3.2 *Its obligation under this Advance Payment Guarantee is restricted to the payment of money.*
4. *Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the CCT the sum advanced to the Supplier upon receipt of the documents identified in 4.1 to 4.2:*
 - 4.1 *A copy of a first written demand issued by the CCT to the Supplier stating that payment of a sum advanced by the CCT has not been repaid by the Supplier in terms of the Contract ("default") and failing such payment within seven (7) calendar days, the CCT intends to call upon the Guarantor to make payment in terms of 4.2;*
 - 4.2 *A first written demand issued by the CCT to the Guarantor at the Guarantor's physical address with a copy to the Supplier stating that a period of seven (7) calendar days has elapsed since the first written demand in terms of 4.1 and the sum advanced has still not been repaid by the Supplier.*
5. *Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the CCT the Guaranteed Advance Payment Sum or the full outstanding balance not repaid upon receipt of a first written demand from the CCT to the Guarantor at the Guarantor's physical address calling up this Advance Payment Guarantee, such demand stating that:*
 - 5.1 *the Contract has been terminated due to the Supplier's default and that this Advance Payment*

Guarantee is called up in terms of 5; or

- 5.2 a provisional or final sequestration or liquidation court order has been granted against the Supplier and that the Advance Payment Guarantee is called up in terms of 5; and*
- 5.3 The aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.*
- 6. It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1.*
- 7. Payment by the Guarantor in terms of 4 or 5 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.*
- 9. The CCT shall have the absolute right to arrange its affairs with the Supplier in any manner which the CCT may deem fit and the Guarantor shall not have the right to claim his release from this Advance Payment Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.*
- 10. The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.*
- 11. This Advance Payment Guarantee is neither negotiable nor transferable and shall expire in terms of 2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.*
- 12. This Advance Payment Guarantee, with the required demand notices in terms of 4 or 5, shall be regarded as a liquid document for the purposes of obtaining a court order.*
- 13. Where this Guarantee/Performance Security is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.*

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)

Approved Financial Institution as at 28 February 2023:

1.1 National Banks

ABSA Bank Limited
Firststrand Bank Limited
Investec Bank Limited
Nedbank Limited
Standard Bank of South Africa Limited

1.2 International Banks (with branches in South Africa)

Barclays Bank PLC
Citibank NA
Credit Agricole Corporate and Investment Bank
HSBC Bank PLC
JPMorgan Chase Bank
Societe Generale
Standard Chartered Bank

1.3 Insurance Companies

American International Group Inc (AIG)
Bryte Insurance Company Limited
Coface SA
Compass Insurance Company Limited
Credit Guarantee Insurance Corporation of Africa Limited
Guardrisk Insurance Company Limited
Hollard Insurance Company Limited
Infiniti Insurance Limited
Lombard Insurance Company Limited
Mutual and Federal Risk Financing Limited
New National Assurance Company Limited
PSG Konsult Ltd (previously Absa Insurance)
Regent Insurance Company Limited
Renasa Insurance Company Limited
Santam Limited...]

Annexure F - Tender Returnable Documents

F.1: Contract Price Adjustment and/or Rate of Exchange Variation

1. TENDER CONDITIONS

- 1.1 The Contract Price Adjustment (CPA) mechanism and/or provisions relating to Rate of Exchange (RoE) Variation, contained in this schedule is compulsory and binding on all Tenderers/Suppliers and this schedule (the parts relevant to the particular tender) must be completed by all Tenderers / Suppliers.
- 1.2 Tenderers/Suppliers are not permitted to amend, vary, alter or delete this schedule or any part thereof unless otherwise stated in this schedule.
- 1.3 Tenderers are not permitted to offer fixed and firm prices except as provided for in the Price Schedule. The prices for all items offered in the Price Schedule shall remain fixed for the first 12 months of the contract period as per clause 17 of the Special Conditions of Contract.

1st year: **12 months from date of commencement of contract - Firm** – No request for price increases shall be entertained.

2nd year: Subject to adjustment in accordance with the provision selection below.

3rd year: Subject to adjustment in accordance with the provision selection below.

2. CPA PROVISIONS SELECTION

- 2.1 The prices stipulated on the Price Schedule are subject to adjustment as set out below.
- 2.2 Tenderer to indicate the specific CPA and/or RoE provisions applicable to their bid by marking the relevant checkboxes below. Tenderers to note that the CPA and/or RoE provisions are not exclusive and multiple CPA Types can exist if the bid contains both local and foreign exchange based pricing. In such cases the CPA and/or ROE provision applies only to that particular portion of the tendered price.
- 2.3 The CPA and/or RoE provisions applicable to this tender and resulting contract are to be indicated below by checking the relevant boxes (with multiple selections only where indicated permissible):

	<u>Indicate option</u> ↓	<u>CPA Type</u>	<u>Period</u>	<u>Refer to Section</u>
A	N/A	FIRM PRICES as per Pricing Schedule	Annual	<i>Pricing Schedule C.4 and Schedule F.1 (A)</i>
<u>LOCAL (RSA) TENDER CONTENT:</u>				
EITHER				
B	<input type="checkbox"/>	SEIFSA Index based CPA	Quarterly	<i>Schedule F.1 (B)</i>
OR				
C	N/A	Pricelist / Quotation Based CPA	Ad-Hoc	<i>Schedule F.1 (C)</i>
OR				
D	N/A	STATS SA CPI Index Based CPA	Annually	<i>Schedule F.1 (D)</i>
OR/AND				
E	N/A	Sectorial Determination 1:Contract Cleaning Sector	Annually	<i>Schedule F.1 (E)</i>
OR				
E	N/A	Sectorial Determination 6: Private Security Sector	Annually	<i>Schedule F.1 (E)</i>

IMPORTED GOODS AND / OR COMPONENTS (IF APPLICABLE)

F		ROE based CPA	Ad-Hoc	Schedule F.1 (F)
AND (IF REQUIRED), EITHER				
G		Pricelist / Quotation based CPA	Ad-Hoc	Schedule F.1 (G)
OR				
H	N/A	Overseas CPI / PPI index based CPA	Ad-Hoc	Schedule F.1 (H)

2.4 CPA and/or RoE provisions marked as **not applicable** is not relevant and will not apply to this tender and resulting contract.

3. CONTRACT CPA APPLICATIONS AND ADMINISTRATION

3.1 Any claim for variation in the contract price (either CPA or RoE adjustments) must be submitted in writing:

- i. By letter to: Director: Electricity Generation and Distribution, City of Cape Town, P O Box 655, Cape Town, 8000 or
- ii. By email to: **mogamatnoer.martin@capetown.gov.za** and **SCM.Tenders23@capetown.gov.za**

at least 14 days prior to the month upon which the adjustment would become effective in the case of prices being set in advance, and as soon as relevant indices are available and no later than 60 days after the date of delivery of goods or the completion of the project (i.e. date of issue of the Taking-Over Certificate, if applicable) in the case of adjustments being claimed retrospectively for Goods or Services. The latter case is only applicable where specifically provided for in the CPA provisions.

- 3.2 When submitting a request for CPA and/or RoE adjustment the Supplier shall indicate the Rand Value claimed for each item listed on C.4 - Price Schedule, clearly indicating the item number as per C.4 - Price Schedule. Percentage increases will not be considered. A mere notification of a request for CPA without stating the new price claimed for each item shall, for the purpose of this clause, not be regarded as a valid request.
- 3.3 The CCT reserves the right to request the Supplier to submit auditor's certificates or such other documentary proof as it may require in order to verify a claim for CPA or RoE adjustments. Price adjustments will not be processed until such time as the Supplier submits such auditor's certificates or other documentary proof to the CCT. Should the Supplier fail to submit the auditor's certificates or other documentary proof to the CCT within 30 days from the written request, it shall be presumed that the Supplier has abandoned his request.
- 3.4 The CCT reserves the right to withhold payment of any claim for adjustment while only provisional figures are available and until such time as the final (revised) figures are issued by the relevant authority.
- 3.5 The CCT will confirm in writing once processing of the CPA or RoE adjustments have been completed including the effective date of the adjustments.
- 3.6 Where pricelist-based and other non-index based CPA requests are investigated and found to be not reasonable and market related, the CCT reserves the right to reject such requests. Where disputes arise with respect to such rejected requests the CCT reserves the right to procure the Goods from other available Suppliers until such time as the dispute is resolved.
- 3.7 Unless indicated otherwise in the relevant schedule below, all Purchase Orders issued on or after the effective date of the adjustment shall be issued at, and the Goods or Services supplied, invoiced and paid for at the adjusted prices. The relevant adjustment will not be applied to Purchase Orders issued prior to the effective date.

F.1 (A) – FIRM PRICES

NOT APPLICABLE

F.1 (B) LOCAL SOUTH AFRICAN CONTENT – SEIFSA INDICES

1. Tenderers/Suppliers that are manufacturers of the tendered goods and that indicate CPA provision above based on SEIFSA Indices shall comply with the conditions specified below and shall complete Table F.1 (B).1: SEIFSA Base Material and Labour Prices in full.
2. Material, labour and / or road freight price variation shall be calculated based upon the SEIFSA base material, labour and / or road freight prices / indices and the price proportions indicated by the Tenderer/Supplier for the Goods tendered, as detailed in Table F.1 (B).1: SEIFSA Base Material and Labour Prices.
3. For items that are also subject to RoE and / or Overseas Pricelist / Quotation based CPA, the SEIFSA index based CPA **shall apply only to the South African Content portion**.
4. A minimum of 10% of the **South African Content portion** of the tender price shall be fixed and free of variation for the duration of the contract.
5. The contract price per item shall be adjusted **quarterly** in advance of placement of orders, and the adjusted contract price shall be applicable for purchase orders placed during the following full calendar month.
6. Fluctuations in the prices of raw materials, labour and road freight will be acceptable for the item price in C.4 Price Schedule, CPA calculations.
7. The base month for CPA calculations shall be the calendar month prior to the month of the closing date for tenders, and SEIFSA indices published in this month shall be used.
8. Adjusted contract prices per item shall be calculated based upon the SEIFSA indices published in the calendar month of application for the amended item contract prices.
9. Material and labour price variation shall be calculated based upon the SEIFSA base material and labour indices and the stipulated price proportions as detailed in Table F.1 (B).1.
10. The process to be followed by Tenderers/Suppliers for claims for CPA in terms of SEIFSA shall be as follows:
 - a) The Tenderers/Suppliers shall approach the CCT in writing during the week following the third Friday of each of **February, May, August and November** month with an application for the adjustment of the contract prices in C.4 Price Schedule and the amended prices to be applicable to the contract during the following calendar month.
 - b) The application shall be based upon the SEIFSA indices published during the calendar month of application (those published on the Monday following the third Friday of the month and detailing the latest available indices) and shall detail the proposed adjusted unit prices for the Items and include detailed calculations indicating how the adjusted unit prices per item have been established.
 - c) Calculations of the CPA shall use the original tendered unit rates, the base indices, the indices published in the calendar month of application and the SEIFSA formula and shall contain no other factors or adjustments.
 - d) The CCT will check and approve the proposed unit prices for the following three months prior to the last day of the month of application. The CCT will notify the Tenderers/Suppliers in writing of approval of the proposed prices.
 - e) All purchase orders for the contracted Items issued during a month shall be issued, invoiced and paid at the contract unit prices approved for that month and no further SEIFSA based contract price adjustment claims will be considered, irrespective of the actual month of delivery and whether or not deliveries were subject to any manufacturing or delivery delays.
 - f) The required delivery dates for orders placed by the Employer for the contracted Items will be determined based upon the date of issue of the purchase order and the contract delivery period. Delays in the delivery of the Items for orders placed by the CCT shall not entitle the Tenderers /Suppliers to any amendment of the approved contract price adjustment applicable to that order.
 - g) Failure by the Tenderers/Suppliers to submit claims for CPA within the timeframes detailed above will result in the unit rates for the items concerned being determined by the CCT in accordance with the published SEIFSA indices. The CCT however reserves the right in such a case not to amend the unit

rates for the item if it is not to the CCT's advantage.

- h) The successful Tenderers/Suppliers shall immediately upon notification of commencement date of contract (or date of issue of first PO) submit written application for approval of adjustment to the contract prices in C.4 Price Schedule that shall be applicable during the first calendar month of the contract. This application will be assessed in accordance with the process laid out above in order to determine approved contract prices for the first calendar month of the contract.
- i) Failure to submit such application within two working weeks of commencement of contract shall result in the tendered unit prices in C.4 Price Schedule being applied for orders placed during the first calendar month of the contract.
- j) Application for CPA thereafter shall follow the process detailed above.

F.1 (C) LOCAL SOUTH AFRICAN CONTENT - SUPPLIER/ MANUFACTURER PRICE LIST/QUOTATIONS

NOT APPLICABLE

F.1 (D) LOCAL SOUTH AFRICAN CONTENT - STATS SA CONSUMER PRICE INDEX

NOT APPLICABLE

F.1. (E) LOCAL SOUTH AFRICAN CONTENT – SECTORIAL DETERMINATION

NOT APPLICABLE

**F.1. (F) GOODS AND/OR COMPONENTS IMPORTED FROM OUTSIDE OF SOUTH AFRICA
RATE OF EXCHANGE PRICE VARIATIONS**

1. Subject to the above, when tendered prices of certain items in C.4 Price Schedule are subject to adjustment for changes in the cost of goods and/or components imported from outside of South Africa, the Tenderer must (as part of the bid submission) provide a list of such items and other information as required in Table F.1 (F).2 below and include it in the bid submission.
2. Only tenderers who are the direct importer of the goods may claim rate of exchange price variations.

Table F.1 (F).1: Information required for prices subject to Rate of Exchange adjustments

Exchange Rate on which tender is based:	_____ 1 : Rand _____
Exchange Rate on which tender is based: (if more than one currency)	_____ 1 : Rand _____
Exchange Rate on which tender is based: (if more than one currency)	_____ 1 : Rand _____
Name of Bank	
Date of quoted rate of exchange	
Documentation relevant to calculation of adjustments based on Rate of Exchange (Mark with "x")	
Bill of Lading	
Waybill	
Customs invoice	
Other: _____	

TABLE F.1 (F).2: Price Basis for Imported Resources

C.4 Price Schedule Detail		Rand Value Calculation for Foreign Content (FOB)			Customs Surcharge		Customs Duty			Rand Value for South African Content (FOR)	Total Tender Price in Rand of (C) + (D) + (E) + (F) included in Price Schedule C.4
C.4 Price Schedule Item No.	Description of Resources	Value in Foreign Currency denomination (A)	Rate of Exchange as at Base Date* (B)	Value in Rand for Foreign currency content (A) x (B) (C)	%	Rand (D)	%	Rand (E)	Customs Duty Tariff Reference	Value in Rand for South African Content (F)	(G)
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

C.4 Price Schedule Detail		Rand Value Calculation for Foreign Content (FOB)			Customs Surcharge		Customs Duty			Rand Value for South African Content (FOR)	Total Tender Price in Rand of (C) + (D) + (E) + (F) included in Price Schedule C.4
C.4 Price Schedule Item No.	Description of Resources	Value in Foreign Currency denomination	Rate of Exchange as at Base Date*	Value in Rand for Foreign currency content (A) x (B)	%	Rand	%	Rand	Customs Duty Tariff Reference	Value in Rand for South African Content	(G)
		(A)	(B)	(C)		(D)		(E)		(F)	
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27.1											
27.2											
28.1											
28.2											
29.1											
29.2											
30.1											
30.2											
31.1											
31.2											
32.1											
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34.1											
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35.2											
36.1											
36.2											
37.1											
37.2											
38.1											
38.2											
39.1											
39.2											
40											
41											
42											
43											
44											

C.4 Price Schedule Detail		Rand Value Calculation for Foreign Content (FOB)			Customs Surcharge		Customs Duty			Rand Value for South African Content (FOR)	Total Tender Price in Rand of (C) + (D) + (E) + (F) included in Price Schedule C.4
C.4 Price Schedule Item No.	Description of Resources	Value in Foreign Currency denomination	Rate of Exchange as at Base Date*	Value in Rand for Foreign currency content (A) x (B)	%	Rand	%	Rand	Customs Duty Tariff Reference	Value in Rand for South African Content	(G)
		(A)	(B)	(C)		(D)		(E)		(F)	(G)
45											
46											
47											
48.1											
48.2											
48.3											
49											
50											
51											
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64											
65.1											
65.2											
65.3											
66											
67											
68											
69											
70											
71											
72											
73											
74											
75											
76											
77											
78.1											
78.2											
78.3											
79.1											
79.2											

C.4 Price Schedule Detail		Rand Value Calculation for Foreign Content (FOB)			Customs Surcharge		Customs Duty			Rand Value for South African Content (FOR)	Total Tender Price in Rand of (C) + (D) + (E) + (F) included in Price Schedule C.4
C.4 Price Schedule Item No.	Description of Resources	Value in Foreign Currency denomination	Rate of Exchange as at Base Date*	Value in Rand for Foreign currency content (A) x (B)	%	Rand	%	Rand	Customs Duty Tariff Reference	Value in Rand for South African Content	(G)
		(A)	(B)	(C)		(D)		(E)		(F)	(G)
79.3											

* Base Date: 7 (seven) calendar days before tender closing.

3. Any items/resources not inserted in Table F.1 (F).2 above, are deemed to be manufactured / supplied in South Africa and is not subject to adjustment in terms of variation in rate of exchange.
4. The price adjustment for variations in the cost of plant and materials imported from outside of South Africa shall be based on the information contained on the schedule titled "Price Basis for Imported Resources" (Table F.1 (F).2). The Rand value of goods and components comprising entirely or partly imported content that is inserted on the Table F.1(F).2 titled "Price Basis for Imported Resources" (column (G)) shall be the rate tendered in the Pricing Schedule C.4, and shall be the value in foreign currency (column (A)) converted to South African Rand (column (C)) by using the closing spot selling rate on the Base Date (seven calendar days before tender closing date) rounded to the second decimal place (column (B)), to which shall be added any Customs Surcharge and Customs Duty applicable at that date (columns (D) and (E)) and any South African manufactured or added content (column (F)). Any mark-up by the Tenderer or other costs not detailed above shall be entirely contained within the South African Content (Column (F)).
5. Column A of Table F.1 (F).2 shall detail the actual quotation for the imported Goods or components, and shall be substantiated by the original source quotation for such Goods or components. (Source quotation from foreign supplier/manufacturer, see Schedule F.1 (G), Table F.1 (G).1 below). No Supplier mark-up on the foreign currency value of such imported Goods or components is permissible. All Supplier mark-up shall be included in the South African content, Column F of Table F.1 (F).2 above.
6. Based on the evidence provided in Clause 5 above, the value in Rand inserted in column (C) on the schedule titled "Price Basis for Imported Resources" shall be recalculated using the forward cover rate obtained, and any increase or decrease in the Rand value defined in this clause shall be adjusted accordingly, subject to Clause 7 below.
7. The adjustments shall be calculated upon the value in foreign currency in the Supplier's forward cover contract, provided that, should this value exceed the value in foreign currency inserted in column (A) of on the schedule titled "Price Basis for Imported Resources", then the value in column (A) shall be used (or any adjusted value approved in accordance with Schedule F.1 (G) below).
8. Any increase or decrease in the Rand value between the amounts of Customs Surcharge and Customs Duty inserted in on the schedule titled "Price Basis for Imported Resources" and those amounts actually paid to the Customs and Excise Authorities, which are due to changes in the percentage rates applicable or to the foreign exchange rate used by the authorities, shall be adjusted accordingly.
9. The Tenderer shall state the Customs Duty Tariff Reference applicable to each item and the Supplier shall advise the CCT's Agent of any changes which occur.
10. Suppliers shall take out Forward Cover covering the foreign exchange component of the cost of any imported portion of the Goods ordered on each purchase order issued by the Employer.
11. The process to be followed by Suppliers for claims for Rate of Exchange Variations shall be as follows:
 - a) The Supplier shall within seven working days from the date of receipt of the purchase order arrange for cover or recovering forward by way of a contract with a bank which is an authorised foreign exchange dealer, the foreign exchange component of the cost of any imported goods and components inserted by the Tenderer on the scheduled titled "Price Basis for Imported Resources"

(Table F.1 (F).2), and submit such Forward Cover quotation to the City for approval.

- b) Upon receipt of the quotation for Forward Cover from the bank, the Supplier must forward the quote ideally, within 15 minutes of receiving it from their banker to the CCT: CPA.Request@capetown.gov.za and Contract Manager: mogamatnoer.martin@capetown.gov.za. This is to ensure that the time difference from generation of the quotation for Forward Cover to finalising the Forward Cover with the Bank, is kept to a minimum due to the change in the exchange rate throughout the day.
 - c) The Contract Manager will forward the quotation to the CCT Treasury Department immediately for their consideration and approval. The cut-off time for receipt of quotations for Forward Cover will be 14h00. It must be noted that if this deadline will not be achieved, it is recommended that the quotation process be undertaken on the following day which should fall within the 7 days of receipt of the purchase order.
 - d) Only once the Forward Cover quotation rate has been approved by CCT Treasury Department, may the Supplier finalise the Forward Cover contract with their bank at the rate approved by the CCT Treasury Department for that Purchase Order and forward a copy of the contract to the CCT via email: CPA.Request@capetown.gov.za and Contract Manager: mogamatnoer.martin@capetown.gov.za.
 - e) The Forward Cover quotation envisaged above shall have the CCT purchase order number and a Forward Cover Contract (FCC) Value Date that is directly based upon the required delivery date for the imported Goods or components necessary in order to meet the Contract Delivery Period. Future FCC Value Dates beyond the Contract Delivery Period shall not be acceptable.
12. On delivery of the goods to the City the Supplier shall submit the following documentation to the CCT via email: CPA.Request@capetown.gov.za and Contract Manager: mogamatnoer.martin@capetown.gov.za :
- a) The Bill of Lading/Waybill/Customs Invoice (clearly indicating the items as identified on the purchase order).
 - b) Calculations detailing the difference in the rate of exchange at the time of entry and the date of tender. These shall be submitted on a covering letter.
 - c) The invoice / credit note for the Rate of Exchange adjustment applicable to the specific order.
13. In exceptional circumstances, and subject to the Employer's explicit approval, Rate of Exchange variations on Goods or components that are imported in bulk in advance in fulfilment of the contract requirements or to create buffer stocks, but not specifically in response to specific purchase orders placed by the Employer in accordance with the contract, shall be based upon whichever of the following two methodologies is more advantageous to the Employer:
- a) Methodology 1: A spot quotation for the Forward Cover Contract rate for the imported portion of the Goods, based upon the FCC Value Date for the particular purchase order(s), as outlined in clause 11 above.
 - b) Methodology 2: The actual Rate of Exchange cost variations incurred in fulfilment of the purchase order(s), fully substantiated by detailed Bills of Lading and Customs Invoice applicable to the particular Goods delivered. The applicable Rate of Exchange shall be the rate as defined on the Customs Invoice for the imported Goods.
 - c) Determination of the more advantageous methodology shall be conducted and approved following delivery of the imported Goods or components to the Supplier but prior to delivery of the Goods to the Employer.
14. Approval of the process detailed in Clause 13 and sub-clauses above shall be on an order by order basis and application shall be submitted, with required supporting documents, immediately on receipt of the relevant purchase order(s).

F.1. (G) GOODS AND/OR COMPONENTS IMPORTED FROM OUTSIDE OF SOUTH AFRICA - MANUFACTURER/SUPPLIER PRICE/QUOTATION LIST

1. Manufacturer’s / Supplier’s Pricelist / Quotation Based CPA – Imported Goods or Components:

- 1.1 Tenderers with imported Goods or Components may claim contract price adjustment based on the overseas SUPPLIER’S / MANUFACTURER’S PRICE LISTS/ QUOTATION from the supplier or manufacturer of the tendered items.
- 1.2 In such cases the Tenderer is required to submit with his tender a copy of the original overseas Supplier / Manufacturer Pricelist / Quotation upon which his tender prices are based. Such pricelist / Quotation is required to be on the Letterhead of the Supplier / Manufacture, is to be dated, referenced and signed, and is to provide clear reference to the tender number or unambiguously indicate the relevant component.
- 1.3 The Tenderer is required to clearly reference each item quoted to the respective Tender Item Number indicated in C.4 Price Schedule by completing Table F.1 (G).1 below.

Table F.1 (G).1: Price Schedule information for Imported Goods or Components - Manufacturers/Suppliers Price List(s)/Quotation

	Price List Information		
	Manufacturer/ Supplier Name	Price List/Quotation Date.	Price List/Quotation Reference Number
			Pricelist applicable to Items as per C.4 Price Schedule

- 1.4 During the contract period, the Tenderer (now Supplier) must submit the request for price adjustment based on increases in pricelists of manufacturers/suppliers prior to the effective date of the increase in the pricelist.
- 1.5 The effective date of any price adjustment granted will be the first day of the month following the month during which the fully substantiated application for contract price adjustment is submitted or, by agreement between the Tenderer/Supplier and the CCT, a subsequent date on which the price adjustment will become effective.
- 1.6 In instances where the Supplier’s price adjustment claimed is less than entitled, the lesser price will be accepted.
- 1.7 Only the difference in source supplier / manufacturer pricelist (actual cost, not percentage) may be adjusted and under no circumstances may the Tenderer/Supplier increase their profit margin.
- 1.8 The Tenderer/Supplier shall, when submitting claims for contract price adjustment, submit all of the documentation indicated below a minimum of two weeks prior to the effective date of the contract price adjustment:
 - a) Copies of price lists upon which original tender prices were based (refer to Clause 1.2, Table F.1 (G).1 above) clearly indicating the item(s) according to C.4 Price Schedule.
 - b) The new price list (*from the same Supplier / Manufacturer as originally tendered*) on the relevant

manufacturer/suppliers letterhead (with pamphlets, brochures and e-mail communication) clearly indicating the item(s) according to C.4 Price Schedule.

- c) Submit detailed calculations indicating how the “new” price is calculated. The calculations must be submitted in Excel, together with a signed, “PDF” version of the Excel spreadsheet. The example below – Table F.1(G).2, is what is required.
 - d) A covering letter on the Supplier’s letterhead requesting the CPA with the effective date of the claim.
- 1.9 The CCT will consider the request and either refer the request back for correction or additional information or approve the request.
- 1.10 The CCT will assess such pricelist based CPA claims and will only approve such claims that are confirmed to be reasonable and market related with reference to the source pricing information provided with the tender and with the CPA application
- 1.11 Approval of the CPA request including confirmation of the effective date, will be communicated to the Supplier in writing. The effective date will be as per clause 1.3 above.
- 1.12 The successful Tenderer/Supplier shall immediately upon notification of the commencement date of contract submit written application for approval of any adjusted unit prices for the Goods that may have been notified by the Supplier / Manufacturer of the Goods, together with the required supporting documentation. This application will be assessed in accordance with the process laid out above in order to determine approved contract prices at the commencement of the contract.
- 1.13 Failure to submit such application within two working weeks of commencement of contract shall result in the tendered unit prices being applied for initial orders placed following commencement of the contract.
- 1.14 In the event of a Supplier changing their Supplier / Manufacturer during the tenure of the contract, no request for price variations will be considered unless the Supplier has obtained prior approval from the City for the change of Supplier / Manufacturer. Such approval shall include technical approval by the Engineer of the goods supplied by the replacement Supplier / Manufacturer. Technical approval by the Engineer shall be a prerequisite for any change of Supplier / Manufacturer.

Table F.1(G).2 – Pro Forma Table for Adjustments in price for Imported Goods or Components - Manufacturer/Suppliers Price List(s)/Quotation

C.4 Price Schedule Item No.	Original Tender Price	Previous and New Price List Information					New Contract Price (Excl. VAT)
		Manufacturer/Supplier	Material no.	Price as per previous Manufacturer/Supplier Price List (Excl. Vat) Price List Date: _____ (B)	Price as per new Supplier/Manufacturer Price List (Excl. Vat) Price List Date: _____ (C)	Difference between the previous and new manufacturer Price list (C)-(B) (D)	
						(A)+(D)	
1							
2							
3							
4							
5							
6							
7							

C.4 Price Schedule Item No.	Original Tender Price	Previous and New Price List Information					New Contract Price (Excl. VAT)
		Manufacturer/Supplier	Material no.	Price as per previous Manufacturer/Supplier Price List (Excl. Vat) Price List Date:_____	Price as per new Supplier/Manufacturer Price List (Excl. Vat) Price List Date:_____	Difference between the previous and new manufacturer Price list (C)-(B)	
	(A)			(B)	(C)	(D)	(A)+(D)
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
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24							
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27.1							
27.2							
28.1							
28.2							
29.1							
29.2							
30.1							
30.2							
31.1							
31.2							
32.1							
32.2							
33.1							
33.2							
34.1							
34.2							
35.1							
35.2							
36.1							

C.4 Price Schedule Item No.	Original Tender Price	Previous and New Price List Information					New Contract Price (Excl. VAT)
		Manufacturer/Supplier	Material no.	Price as per previous Manufacturer/Supplier Price List (Excl. Vat) Price List Date:_____	Price as per new Supplier/Manufacturer Price List (Excl. Vat) Price List Date:_____	Difference between the previous and new manufacturer Price list (C)-(B)	
	(A)			(B)	(C)	(D)	(A)+(D)
36.2							
37.1							
37.2							
38.1							
38.2							
39.1							
39.2							
40							
41							
42							
43							
44							
45							
46							
47							
48.1							
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55							
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60							
61							
62							
63							
64							
65.1							
65.2							
65.3							
66							

C.4 Price Schedule Item No.	Original Tender Price (A)	Previous and New Price List Information					New Contract Price (Excl. VAT) (A)+(D)
		Manufacturer/ Supplier	Material no.	Price as per previous Manufacturer/ Supplier Price List (Excl. Vat) Price List Date:_____	Price as per new Supplier/ Manufacturer Price List (Excl. Vat) Price List Date:_____	Difference between the previous and new manufacturer Price list (C)-(B)	
67							
68							
69							
70							
71							
72							
73							
74							
75							
76							
77							
78.1							
78.2							
78.3							
79.1							
79.2							
79.3							

OR

2. Supplier Price List Variations for Suppliers Supplying Goods Imported by Another Party

- 2.1 The Tenderers (now Supplier) that are not the director importer of the manufactured goods/components, and intend to purchase the goods from another supplier who in turn is importing the goods, may apply for Supplier / Manufacturer Pricelist / Quotation based CPA imported by a another Party.
- 2.2 In such cases the Tenderer is required to submit with his tender a copy of the original Supplier / Manufacturer Pricelist / Quotation upon which his tender prices are based. Such pricelist / Quotation is required to be on the Letterhead of the Supplier / Manufacture, is to be dated, referenced and signed, and is to provide clear reference to the tender number, exchange rate on which the quote is based and is required to clearly reference each item quoted to the respective Tender Item Number indicated in C.4 Price Schedule.
- 2.3 The tenderer shall further confirm the Manufacturer / supplier, Quotation date, exchange rate at date of quote and reference number and applicable tender Items by completing Table F.1(G).3 below.

Table F.1 (G).3: Price Schedule information for Imported Goods or Components, imported by Another Party Manufacturers/Suppliers Price List(s)/Quotation

	Price List Information
--	------------------------

Manufacturer/ Supplier Name	Price List/Quotation Date.	Price List/Quotation Reference Number	Exchange Rate on which quote is based	Pricelist applicable to Items as per C.4 Price Schedule
			_____ 1 : Rand _____	
			_____ 1 : Rand _____	
			_____ 1 : Rand _____	
			_____ 1 : Rand _____	

- 2.4 During the contract period, the Tenderer (now Supplier) must submit the request for price adjustment based on increases in pricelists of manufacturers/suppliers within seven calendar days of the date of the purchase order date.
- 2.5 The price adjustment claim will be fully substantiated and the approval will be limited to the relevant Purchase Order.
- 2.6 In instances where the Supplier's price adjustment claimed is less than entitled, the lesser price will be accepted.
- 2.7 Only the difference in source supplier / manufacturer pricelist (actual cost, not percentage) may be adjusted and under no circumstances may the Tenderer/Supplier increase their profit margin.
- 2.8 The Tenderer/Supplier shall, when submitting claims for contract price adjustment, submit all of the documentation indicated below a minimum of seven (7) days from date of purchase order:
 - a) Copies of price lists upon which original tender prices were based (refer to Clause 2.2, Table 2 above) clearly indicating the item(s) according to C.4 Price Schedule.
 - b) The new price list (*from the same Supplier / Manufacturer as originally tendered*) on the relevant manufacturer/suppliers letterhead (with pamphlets, brochures and e-mail communication) clearly indicating the item(s) according to C.4 Price Schedule.
 - c) Submit detailed calculations indicating how the "new" price is calculated.
 - d) A covering letter on the Supplier's letterhead requesting the CPA with the effective date of the claim.
- 2.9 The CCT will consider the request and either refer the request back for correction or additional information or approve the request.
- 2.10 The CCT will assess such pricelist based CPA claims and will only approve such claims that are confirmed to be reasonable and market related with reference to the source pricing information provided with the tender and with the CPA application
- 2.11 Approval of the CPA request for the relevant Purchase Order (refer to clause 2.5 above), will be communicated to the Supplier in writing.

**F.1. (H) GOODS AND/OR COMPONENTS IMPORTED FROM OUTSIDE OF SOUTH AFRICA - BASED
ON FOREIGN INDICES**

NOT APPLICABLE

Schedule F.2: Certificate of Authority for Partnerships/ Joint Ventures/ Consortia

This schedule is to be completed if the tender is submitted by a partnership/joint venture/ consortium.

1. We, the undersigned, are submitting this tender offer as a partnership/ joint venture/ consortium and hereby authorize Mr/Ms _____, of the authorised entity _____, acting in the capacity of Lead Partner, to sign all documents in connection with the tender offer and any contract resulting from it on the partnership/joint venture/ consortium’s behalf.
2. By signing this schedule the partners to the partnership/joint venture/ consortium:
 - 2.1 warrant that the tender submitted is in accordance with the main business and objectives of the partnership/joint venture/ consortium;
 - 2.2 agree that the CCT shall make all payments in terms of this Contract into the following bank account of the Lead Partner:
 Account Holder: _____
 Financial Institution: _____
 Branch Code: _____
 Account No.: _____
 - 2.3 agree that in the event that there is a change in the partnership/ joint venture/ consortium and/or should a dispute arise between the partnership/joint venture/ consortium partners, that the CCT shall continue to make any/all payments due and payable in terms of the Contract into the aforesaid bank account until such time as the CCT is presented with a Court Order or an original agreement (signed by each and every partner of the partnership/joint venture/ consortium) notifying the CCT of the details of the new bank account into which it is required to make payment.
 - 2.4 agree that they shall be jointly and severally liable to the CCT for the due and proper fulfilment by the successful tenderer/supplier of its obligations in terms of the Contract as well as any damages suffered by the CCT as a result of breach by the successful tenderer/supplier. The partnership/joint venture/ consortium partners hereby renounce the benefits of excussion and division.

SIGNED BY THE PARTNERS OF THE PARTNERSHIP/ JOINT VENTURE/ CONSORTIUM		
NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner		Signature..... Name..... Designation.....
		Signature..... Name..... Designation.....
		Signature..... Name..... Designation.....
		Signature..... Name..... Designation.....

Note: A copy of the Joint Venture Agreement shall be appended to *List of Other Documents Attached by Tenderer Schedule*.

Schedule F.3: Declaration for Procurement above R10 million

If the value of the transaction is expected to exceed R10 million (VAT included) the tenderer shall complete the following questionnaire, attach the necessary documents and sign this schedule:

1. Are you by law required to prepare annual financial statements for auditing? **(Please mark with X)**

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

If YES, submit audited annual financial statements:

- (i) For the past three years, or
- (ii) Since the date of establishment of the tenderer (if established during the past three years)

By attaching such audited financial statements to **List of Other Documents Attached by Tenderer Schedule**.

2. Do you have any outstanding undisputed commitments for municipal services towards the CCT or other municipality in respect of which payment is overdue for more than 30 (thirty) days? **(Please mark with X)**

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

2.1 If NO, this serves to certify that the tenderer has no undisputed commitments for municipal services towards any municipality for more than three (3) (three) months in respect of which payment is overdue for more than 30 (thirty) days.

2.2 If YES, provide particulars:

3. Has any contract been awarded to you by an organ of state during the past five (5) years? **(Please mark with X)**

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

If YES, insert particulars in the table below including particulars of any material non-compliance or dispute concerning the execution of such contract. Alternatively attach the particulars to **List of Other Documents Attached by Tenderer** schedule in the same format as the table below:

Organ of State	Contract Description	Contract Period	Non-compliance/dispute (if any)

4. Will any portion of the goods or services be sourced from outside the Republic, and if so, what portion and whether any portion of payment from the CCT is expected to be transferred out of the Republic? **(Please mark with X)**

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

If YES, furnish particulars below

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the CCT of any other remedies available to it.

 Signature
 Print name:
 On behalf of the tenderer (duly authorised)

 Date

Schedule F.4: Preference Points Claim Form In Terms Of the Preferential Procurement Regulations 2022

1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to invitations to tender:
- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included);
- 1.2 **To be completed by the organ of state**
The applicable preference point system for this tender is the 80/20 preference point system.
- 1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:
- (a) Price; and
 - (b) Specific Goals.
- 1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

The following definitions shall apply to this schedule:

- (a) "tender" means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) "price" means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) "rand value" means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) "tender for income-generating contracts" means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) "The Act" means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

POINTS AWARDED FOR PRICE

THE 80/20 PREFERENCE POINT SYSTEMS

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

$$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

4. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

Not applicable

5. POINTS AWARDED FOR SPECIFIC GOALS

5.1 In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/documentation stated in the conditions of this tender:

5.2 In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
- (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	To be Completed by the Organ of State	To be Completed by the Tenderer
	Number of points Allocated (80/20 system)	Number of points claimed (80/20 system)
Gender	5	
Race	5	
Disability	3	
Promotion of Micro and Small Enterprises	7	

DECLARATION WITH REGARD TO COMPANY/FIRM

5.3 Name of company/firm.....

5.4 Company registration number:

5.5 TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One-person business/sole propriety

- Close corporation
- Public Company
- Personal Liability Company
- (Pty) Limited
- Non-Profit Company
- State Owned Company

[Tick applicable box]

5.6 I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 4.1 and 4.2, the Supplier may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering 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 tenderer or Supplier, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted 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, if deemed necessary.

<i>Signature of Tenderer</i>	<i>Date</i>	<i>Name and Surname</i>	<i>Address</i>

For official use.		
SIGNATURE OF CCT OFFICIALS AT TENDER OPENING		
1.	2.	3.

Schedule F.5: Declaration of Interest – State Employees (MBD 4 amended)
--

1. No bid will be accepted from:
 - 1.1 persons in the service of the state¹, or
 - 1.2 if the person is not a natural person, of which any director, manager or principal shareholder or stakeholder is in the service of the state, or
 - 1.3 from persons, or entities of which any director, manager or principal shareholder or stakeholder, has been in the service of the City of Cape Town (CCT) during the previous twelve (12) months, or
 - 1.4 from an entity who has employed a former CCT employee who was at a level of T14 of higher at the time of leaving the CCT's employ and involved in any of the CCT's bid committees for the bid submitted, if:
 - 1.4.1 the CCT employee left the CCT's employment voluntarily, during the previous twelve (12) months;
 - 1.5 a person who was a CCT employee, or an entity that employs a CCT employee, if
 - 1.5.1 the CCT employee left the CCT's employment whilst under investigation for alleged misconduct, or
 - 1.5.2 was facing disciplinary action or potential disciplinary action by the CCT, or
 - 1.5.3 was involved in a dispute against the CCT during the previous thirty six (36) months.

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 tenderer or their authorised representative declare their position in 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 tenderer or his or her representative: _____
 - 3.2 Identity Number: _____
 - 3.3 Position occupied in the Company (director, trustee, shareholder²): _____
 - 3.4 Company or Close Corporation 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: _____
 - 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 tenderer 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, principle 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: _____
- 3.15 Have you, or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company been in the service of the CCT in the past twelve months? **YES / NO**
 3.15.1 If yes, furnish particulars: _____
- 3.16 Do you have any employees who was in the service of the CCT at a level of T14 or higher at the time they left the employ of the CCT, and who was involved in any of the CCT's bid committees for this bid? **YES / NO**
 3.16.1 If yes, furnish particulars: _____

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

Full Name	Identity Number	State Employee Number

If the above table does not sufficient to provide the details of all directors / trustees / shareholders, please append full details to the tender submission.

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the CCT of any other remedies available to it.

 Signature
 Print name: _____ Date
 On behalf of the tenderer (duly authorised)

'MSCM 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) **an executive 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.**

Schedule F.6: Conflict of Interest Declaration

1. The tenderer shall declare whether it has any conflict of interest in the transaction for which the tender is submitted. **(Please mark with X)**

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

1.1 If yes, the tenderer is required to set out the particulars in the table below:

2. The tenderer shall declare whether it has directly or through a representative or intermediary promised, offered or granted:

2.1 Any inducement or reward to the CCT for or in connection with the award of this contract; or

2.2 Any reward, gift, favour or hospitality to any official or any other role player involved in the implementation of the supply chain management policy. **(Please mark with X)**

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

If yes, the tenderer is required to set out the particulars in the table below:

Should the tenderer be aware of any corrupt or fraudulent transactions relating to the procurement process of the CCT, please contact the following:

The CCT's anti-corruption hotline at 0800 32 31 30 (toll free)

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the CCT of any other remedies available to it.

 Signature
 Print name:
 On behalf of the tenderer (duly authorised)

 Date

Schedule F.7: Declaration of Tenderer's Past Supply Chain Management Practices (MBD 8)

Where the entity tendering is a partnership/joint venture/consortium, each party to the partnership/joint venture/consortium must sign a declaration in terms of the Municipal Finance Management Act, Act 56 Of 2003, and attach it to this schedule.

- 1 The tender offer of any tenderer may be rejected if that tenderer or any of its directors/members have:
- a) abused the municipality's / municipal entity's supply chain management system or committed any fraudulent 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 Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004) or Database of Restricted Suppliers.
- 2 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
2.1	<p>Is the tenderer or any of its directors/members 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>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.1.1	If so, furnish particulars:		
2.2	<p>Is the tenderer or any of its directors/members listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004) or Database of Restricted Suppliers?</p> <p>The Register for Tender 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>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.2.1	If so, furnish particulars:		
2.3	<p>Was the tenderer or any of its directors/members 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?</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.3.1	If so, furnish particulars:		

Item	Question	Yes	No
2.4	Does the tenderer 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"/>
2.4.1	If so, furnish particulars:		
2.5	Was any contract between the tenderer 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"/>
2.5.1	If so, furnish particulars:		

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract,, restriction of the tenderer or the exercise by the CCT of any other remedies available to it.

 Signature
 Print name:
 On behalf of the tenderer (duly authorised)

 Date

Schedule F.8: Authorisation for the Deduction of Outstanding Amounts Owed to the CCT

To: THE CITY MANAGER, City of Cape Town

From: _____
(Name of tenderer)

RE: AUTHORISATION FOR THE DEDUCTION OF OUTSTANDING AMOUNTS OWED TO THE CCT

The tenderer:

- a) hereby acknowledges that according to SCM Regulation 38(1)(d)(i) the City Manager may reject the tender of the tenderer if any municipal rates and taxes or municipal service charges owed by the tenderer (or any of its directors/members/partners) to the CCT, or to any other municipality or municipal entity, are in arrears for more than 3 (three) months; and
- b) therefore hereby agrees and authorises the CCT to deduct the full amount outstanding by the Tenderer or any of its directors/members/partners from any payment due to the tenderer; and
- c) confirms the information as set out in the tables below for the purpose of giving effect to b) above;

Physical Business address(es) of the tenderer	Municipal Account number(s)	Inside the CCT municipal boundary (Yes/No)

If there is not enough space for all the names, please attach the information to **List of other documents attached by tenderer** schedule in the same format:

Name of Director / Member / Partner	Identity Number	Physical residential address of Director / Member / Partner	Municipal Account number(s)	Inside the CCT municipal boundary (Yes/No)

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the CCT of any other remedies available to it.

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

Schedule F.9: Certificate of Independent Tender Determination
--

I, the undersigned, in submitting this tender number **300G/2024/25** and tender description: **SUPPLY AND DELIVERY OF HIGH VOLTAGE STRAIGHT JOINTS AND SPARE MATERIALS** in response to the tender invitation made by THE CCT, do hereby make the following statements, which I certify to be true and complete in every respect:

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

1. I have read and I understand the contents of this Certificate;
2. I understand that this tender will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorised by the tenderer to sign this Certificate, and to submit this tender, on behalf of the tenderer;
4. Each person whose signature appears on this tender has been authorised by the tenderer to determine the terms of, and to sign, the tender on behalf of the tenderer;
5. For the purposes of this Certificate and this tender, I understand that the word 'competitor' shall include any individual or organisation other than the tenderer, whether or not affiliated with the tenderer, who:
 - (a) has been requested to submit a tender in response to this tender invitation;
 - (b) could potentially submit a tender in response to this tender invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the tenderer and/or is in the same line of business as the tenderer.
6. The tenderer has arrived at this tender independently from and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium¹ will not be construed as collusive price quoting.
7. In particular, without limiting the generality of paragraphs 5 and 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 tender;
 - (e) the submission of a tender which does not meet the specifications and conditions of the tender; or
 - (f) tendering with the intention not to win the contract.
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 tender invitation relates.
9. The terms of this tender have not been and will not be disclosed by the tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender 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 tenders and contracts, tenders 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, Act 89 of 1998, and/o/r 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 10 (ten) years in terms of the Prevention and Combating of Corrupt Activities Act, Act 12 of 2004, or any other applicable legislation.

Signature

Print name:

On behalf of the tenderer (duly authorised)

Date

(¹ Consortium: 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

Schedule F.11: List of Other Documents Attached By Tenderer

The tenderer has attached to this schedule, the following additional documentation:		
	Date of Document	Title of Document or Description (refer to clauses / schedules of this tender document where applicable)
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		

Attach additional pages if more space is required.

 Signature
 Print name:
 On behalf of the tenderer (duly authorised)

 Date

Schedule F.12: Record of Addenda to Tender Documents

We confirm that the following communications received from the CCT before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

 Signature
 Print name:
 On behalf of the tenderer (duly authorised)

 Date

Schedule F.13: Information to Be Provided With the Tender

The following information shall be provided with the Tender:

- a. Proof of accreditation from the OEM (Original Equipment Manufacturer) that the tenderer is an accredited distributor of the products offered in Schedule F.13 (a). Proof in the form of a letter from the OEM must be submitted with the tender submission or on request during evaluation of this tender.
- b. Schedule of type tests completed for each item of equipment (Schedule F.13 (b)). Type Test certificates shall be appended to the tender submission or on request during evaluation of this tender.
- c. Returnable Technical Schedules for cables, joints and terminations (Schedule F.13 (c)).
- d. Quality Assurance plan (Schedule F.13 (d)).
- e. Samples of various items, such as paper tapes, may be requested from responsive tenderers at tender evaluation stage for the purpose of tender evaluation. Samples must be delivered to CCT at the tenderer's cost.
- f. All schedules listed above **MUST BE COMPLETED IN FULL**. Failure to do so may render the tender offer non-responsive

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

Schedule F.13 (a): Proof of accreditation to supply tendered products
--

Item	Manufacturer	Is Tenderer an accredited distributor of the product	Proof of accreditation attached
<p>132 kV straight joints for single hollow core, oil filled cable suitable for connecting 355 mm² Copper hollow conductor to either same size and type of conductor or to the 800 mm² / 1 000 mm² Aluminium hollow conductor. The joint must be manufactured in accordance with BICC or Pirelli or Prysmian design or the OEM approved and certified equivalent, using crepe Paper tapes and paper sheet rolls. The joint must be complete with standard 355 mm² ferrules and glass fibre boxes, in accordance with the attached PRYSMIAN drawings No 707673, 540023 and the City of Cape Town sketch SK 5168 and BICC sketch 7400055080618002 attached;</p>		Y / N	Y / N
<p>132kV insulated sheath taped type joints for single core XLPE cable sized 400 mm² to 630 mm² of Aluminium or Copper stranded conductor, corrugated Aluminium sheath, complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing 20547 attached or OEM approved and certified equivalent.</p>		Y / N	Y / N
<p>66 kV insulated sheath taped type joints for single core XLPE cable sized 300 mm² to 630 mm² with Aluminium or Copper stranded conductor with corrugated Aluminium sheath complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing 20547 attached or OEM approved and certified equivalent.</p>		Y / N	Y / N
<p>132kV insulated sheath type joints / termination for single core XLPE cable sized 2500 mm² of Aluminium conductor, corrugated Aluminium sheath, complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing S1966-4 / S1925-4 attached or OEM approved and certified equivalent;</p>		Y / N	Y / N

Item	Manufacturer	Is Tenderer an accredited distributor of the product	Proof of accreditation attached
<p>132kV insulated sheath type joints / termination for single core XLPE cable sized 1600 mm² of Aluminium conductor, corrugated Aluminium sheath, complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing S1964-4 / S1925-4 attached or OEM approved and certified equivalent.</p>		Y / N	Y / N
<p>132kV insulated sheath type HSCT cable for single core XLPE cable sized 1600 mm² of Aluminium conductor, corrugated Aluminium sheath, depicted on the CBI - African Cables' drawing F2MAM05E068HSWDS attached or OEM approved and certified equivalent.</p>		Y / N	Y / N
<p>132kV insulated sheath type HSCT cable for single core XLPE cable sized 630 mm² of Aluminium conductor, corrugated Aluminium sheath, depicted on the CBI - African Cables' drawing F2PA1630068HS attached or OEM approved and certified equivalent.</p>		Y / N	Y / N
<p>132kV insulated sheath type HSCT cable for single core XLPE cable sized 1000 mm² of Copper conductor, corrugated Aluminium sheath, depicted on the CBI - African Cables' Data Sheet 132kV HV XLPE COPPER HIGH STRESS attached or OEM approved and certified equivalent.</p>		Y / N	Y / N
<p>132kV insulated sheath type joints / termination for single core XLPE cable sized 1000 mm² of Copper conductor, corrugated Aluminium sheath, complete with standard sets of connectors (approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing S1962-4 / attached or OEM approved and certified equivalent.</p>		Y / N	Y / N
<p>Link disconnecting boxes including Sheath Voltage Limiters (SVL. The link disconnecting boxes shall comply with degree of protection IP68 for a 4 m head to SANS 60529. All equipment required shall be included in the tender. The boxes shall have an IP4X rating to SANS 60529 and IK08 rating to SANS 62262 The link disconnecting boxes shall be supplied complete with all glands, earthing rods and other accessories and with the required length of bonding and connecting leads. The size, type and insulation of these leads shall be to approval.</p>		Y / N	Y / N

TENDER NO: 300G/2024/25

Item	Manufacturer	Is Tenderer an accredited distributor of the product	Proof of accreditation attached
19/33 kV PILC cable – 3-core 185mm ² Cu		Y / N	Y / N
19/33 kV PILC cable – 3-core 240mm ² Cu		Y / N	Y / N
Joint: Heatshrink 33kV 3C PILC for cable size 185mm-400mm CU		Y / N	Y / N
Outdoor Heatshrink Termination: 33kV 3C PILC for cable size 120mm-185mm CU including shear off lugs and earthing kit.		Y / N	Y / N
Outdoor Heatshrink Termination: 33kV 3C PILC for cable size 240mm-500mm CU including shear off lugs and earthing kit.		Y / N	Y / N
Outdoor Heatshrink Termination: 33kV 1C PILC for cable size 240mm-500mm CU including shear off lugs and earthing kit.		Y / N	Y / N
Oil-filled 132kV 300mm ² Cable termination (CU)		Y / N	Y / N
Oil-filled 66kV 300mm ² Cable termination (CU)		Y / N	Y / N
Oil-filled 132kV 300mm ² Cable termination (AL)		Y / N	Y / N
Oil-filled 132kV 300mm ² Cable Joints (CU)		Y / N	Y / N
Oil-filled 132kV 300mm ² Cable (CU)		Y / N	Y / N
Oil-filled 66kV 300mm ² Cable (CU)		Y / N	Y / N
33kV 240mm ² XLPE AL cable 1C		Y / N	Y / N
33kV 300mm ² XLPE AL cable 1C		Y / N	Y / N
33kV 400mm ² XLPE AL cable 1C		Y / N	Y / N

TENDER NO: 300G/2024/25

Item	Manufacturer	Is Tenderer an accredited distributor of the product	Proof of accreditation attached
33kV 500mm ² XLPE AL cable 1C		Y / N	Y / N
33kV 630mm ² XLPE AL cable 1C		Y / N	Y / N
33kV PILC 240mm ² Cu cable 3C		Y / N	Y / N
33kV PILC 300mm ² Cu cable 3C		Y / N	Y / N
33kV PILC 400mm ² Cu cable 3C		Y / N	Y / N
33kV PILC 500mm ² Cu cable 3C		Y / N	Y / N
132kV XLPE 500mm ² 1C Al cable		Y / N	Y / N
66kV XLPE 500mm ² 1C Al cable		Y / N	Y / N

SIGNED ON BEHALF OF TENDERER:

Schedule F.13 (b): Schedule of Type Tests completed

Proof of all type test certificates must be attached to this Schedule.

Item	Type Test	Certificate Number	Testing Authority
<p>132 kV straight joints for single hollow core, oil filled cable suitable for connecting 355 mm² Copper hollow conductor to either same size and type of conductor or to the 800 mm² / 1 000 mm² Aluminium hollow conductor. The joint must be manufactured in accordance with BICC or Pirelli or Prysmian design or the equivalent, using crepe Paper tapes and paper sheet rolls. The joint must be complete with standard 355 mm² ferrules and glass fibre boxes, in accordance with the attached PRYSMIAN drawings No 707673, 540023 and the City of Cape Town sketch SK 5168 and BICC sketch 7400055080618002 attached or OEM approved and certified equivalent.</p>			
<p>132kV insulated sheath taped type joints for single core XLPE cable sized 400 mm² to 630 mm² of Aluminium or Copper stranded conductor, corrugated Aluminium sheath, complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing 20547 attached or OEM approved and certified equivalent</p>			
<p>66 kV insulated sheath taped type joints for single core XLPE cable sized 300 mm² to 630 mm² with Aluminium or Copper stranded conductor with corrugated Aluminium sheath complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing 20547 attached or OEM approved and certified equivalent.</p>			
<p>Bi-Metal ferrules suitable for connecting 355 mm² Copper hollow conductor to 800 mm² / 1 000 mm² Aluminium hollow conductor in the joints mentioned in the Item 1 above to the attached PRYSMIAN drawing 707673 (ferrule details) and City of Cape Town sketches SK5168, 5169 or OEM approved and certified equivalent.</p>			
<p>132kV insulated sheath type joints / termination for single core XLPE cable sized 2500 mm² of Aluminium conductor, corrugated Aluminium sheath, complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing S1966-4/ S1925-4 attached or OEM approved and certified equivalent</p>			

Item	Type Test	Certificate Number	Testing Authority
<p>132kV insulated sheath type joints / termination for single core XLPE cable sized 1600 mm² of Aluminium conductor, corrugated Aluminium sheath, complete with standard sets of connectors (CADWELD sets of weld connections for Aluminium and approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing S1964-4 / S1925-4 attached or OEM approved and certified equivalent</p>			
<p>132kV insulated sheath type HSCT cable for single core XLPE cable sized 1600 mm² of Aluminium conductor, corrugated Aluminium sheath, depicted on the CBI - African Cables' drawing F2MAM05E068HSWDS attached or OEM approved and certified equivalent.</p>			
<p>132kV insulated sheath type HSCT cable for single core XLPE cable sized 630 mm² of Aluminium conductor, corrugated Aluminium sheath, depicted on the CBI - African Cables' drawing F2PA1630068HS attached or OEM approved and certified equivalent.</p>			
<p>132kV insulated sheath type HSCT cable for single core XLPE cable sized 1000 mm² of Copper conductor, corrugated Aluminium sheath, depicted on the CBI - African Cables' Data Sheet 132kV HV XLPE COPPER HIGH STRESS attached or OEM approved and certified equivalent.</p>			
<p>132kV insulated sheath type joints / termination for single core XLPE cable sized 1000 mm² of Copper conductor, corrugated Aluminium sheath, complete with standard sets of connectors (approved compression ferrules for Copper conductors), a silicone compound and glass fibre boxes to CBI - African Cables' drawing S1962-4 / S1925-4 attached or OEM approved and certified equivalent.</p>			
<p>19/33 kV PILC cable – 3-core 185mm² Cu</p>			
<p>19/33 kV PILC cable – 3-core 240mm² Cu</p>			
<p>Joint: Heatshrink 33kV 3C PILC for cable size 185mm-400mm CU</p>			
<p>Outdoor Heatshrink Termination: 33kV 3C PILC for cable size 120mm-185mm CU including shear off lugs and earthing kit.</p>			
<p>Outdoor Heatshrink Termination: 33kV 3C PILC for cable size 240mm-500mm CU including shear off lugs and earthing kit.</p>			

Item	Type Test	Certificate Number	Testing Authority
Outdoor Heatshrink Termination: 33kV 1C PILC for cable size 240mm-500mm CU including shear off lugs and earthing kit			
Oil-filled 132kV 300mm ² Cable termination (CU)			
Oil-filled 66kV 300mm ² Cable termination (CU)			
Oil-filled 132kV 300mm ² Cable termination (AL)			
Oil-filled 132kV 300mm ² Cable Joints (CU)			
Oil-filled 132kV 300mm ² Cable (CU)			
Oil-filled 66kV 300mm ² Cable (CU)			
33kV 240mm ² XLPE AL cable 1C			
33kV 300mm ² XLPE AL cable 1C			
33kV 400mm ² XLPE AL cable 1C			
33kV 500mm ² XLPE AL cable 1C			
33kV 630mm ² XLPE AL cable 1C			
33kV PILC 240mm ² Cu cable 3C			
33kV PILC 300mm ² Cu cable 3C			
33kV PILC 400mm ² Cu cable 3C			
33kV PILC 500mm ² Cu cable 3C			
132kV XLPE 500mm ² 1C Al cable			
66kV XLPE 500mm ² 1C Al cable			

SIGNED ON BEHALF OF TENDERER:

Schedule F.13 (c): Technical schedules for Cables, Joints and Terminations

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS

Item 40 and 41 for 33 kV Cables: PILC 3C Cu

Item No.	Description	Requirements		Particulars of equipment offered	
		3-core 185 Cu	3-core 240 Cu	3-core 185 Cu (item 40)	3-core 240 Cu (item 41)
1	Nominal voltage between phases of three-phase circuit, U_0 kV	33			
2	System highest voltage, U_m kV	36			
3	System frequency Hz	50			
4	Feeder current rating under site conditions A	XXX	XXX		
5	Maximum permissible conductor temperature °C	70			
6	Impulse withstand level of cable termination and cable kV_p	200			
7	Power frequency withstand level of cable	To SANS 97			
8	Maximum partial discharge level measured at $1,5 U_0$ (Type and Routine test) pC	-			
9	Conductor short circuit capability:				
9.1	Short circuit current kA.1 sec	To SANS 10198			
9.2	Final conductor temperature °C	XXXXX			

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd**Item 40 and 41 for 33 kV Cables: PILC 3C Cu (Continued)**

Item No.	Description	Requirements		Particulars of equipment offered	
		3-core 185 Cu	3-core 240 Cu	3-core 185 Cu (item 40)	3-core 240 Cu (item 41)
10	Metallic sheath short circuit capability for 1 s				
10.1	Short circuit current kA	13			
10.2	Final sheath temperature °C	XXXXX			
11	Maximum conductor temperature at rated current °C	XXXXX			
12	Type of cable insulation	PILC			
13	Type of sheath	Metallic Lead Alloy E			
13.1	Thickness of sheath mm	XXXXX			
14	Type of cable outer covering	PS2 to SANS 1411			
15	Composition Alloy 'E' (percentage by weight):	SANS 97			
16	Conductor details:				
16.1	Material	XXXXX			
16.2	Shape	XXXXX			

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd**Item 40 and 41 for 33 kV Cables: PILC 3C Cu (Continued)**

Item No.	Description	Requirements		Particulars of equipment offered	
		3-core 185 Cu	3-core 240 Cu	3-core 185 Cu (item 40)	3-core 240 Cu (item 41)
17	Maximum dielectric stress at U_0				
17.1	At the conductor screen kV/mm	XXXXX			
17.2	At the earthed core screen kV/mm	XXXXX			
18	Minimum radial thickness of main Insulation mm	XXXXX			
19	Anti-corrosion covering:				
19.1	Minimum average thickness mm	XXXXX			
19.2	Minimum thickness mm	XXXXX			
19.3	Insulation resistance at 10 kV at Works corrected to 20°C M Ω /km	XXXXX			
20	Minimum radius of bend around which cable can be laid m	XXXXX			
21	Maximum dc resistance of conductor of cable at 20°C Ω /km	XXXXX			

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd

Item 40 and 41 for 33 kV Cables: PILC 3C Cu (Continued)

Item No.	Description	Requirements		Particulars of equipment offered	
		3-core 185 Cu	3-core 240 Cu	3-core 185 Cu (item 40)	3-core 240 Cu (item 41)
22	Maximum ac resistance of:				
22.1	Conductor of cable at maximum working Temperature Ω/km	XXXXXX			
22.2	Combined sheath/reinforcement of cable at maximum working temperature Ω/km	XXXXXX			
23	Screening factor of cable	XXXXXX			
24	Minimum barrel diameter of cable drums m	XXXXXX			
25	Maximum drum length of cable m	XXXXXX			
26	Maximum dimensions of cable drums:				
26.1	Diameter m	XXXXXX			
26.2	Width m	XXXXXX			
26.3	Gross drum mass (approximate) kg	XXXXXX			
27	State whether cable tensioning devices are returnable or not	XXXXXX			

SIGNED ON BEHALF OF TENDERER:

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS

Items 55, 56, 57, 58, and 59 for 33 kV Cables: XLPE 1C AL

Item No.	Description	Requirements					Particulars of equipment offered				
		240mm ²	300mm ²	400mm ²	500mm ²	630mm ²	240mm ²	300mm ²	400mm ²	500mm ²	630mm ²
1	Nominal voltage between phases of three-phase circuit, U _o kV			33							
2	System highest voltage, U _m kV			36							
3	System frequency Hz			50							
4	Feeder current rating under site conditions A			XXX							
5	Maximum permissible conductor temperature °C			90							
6	Impulse withstand level of cable termination and cable kV _p			200							
7	Power frequency withstand level of cable			To SANS 1339							
8	Maximum partial discharge level measured at 1,5 U _o (Type and Routine test) pC			-							
9	Conductor short circuit capability:										
9.1	Short circuit current kA.1 sec			To SANS 1339							
9.2	Final conductor temperature °C			XXXXX							

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd

Items 55, 56, 57, 58, and 59 for 33 kV Cables: XLPE 1C AL (Continued)

Item No.	Description	Requirements					Particulars of equipment offered				
		240mm ²	300mm ²	400mm ²	500mm ²	630mm ²	240mm ²	300mm ²	400mm ²	500mm ²	630mm ²
10	Metallic sheath short circuit capability for 1 s										
10.1	Short circuit current kA			13							
10.2	Final sheath temperature °C			XXXXX							
11	Maximum conductor temperature at rated current °C			XXXXX							
12	Type of cable insulation			XLPE							
13	Type of sheath			Metallic Lead Alloy E							
13.1	Thickness of sheath mm			XXXXX							
14	Type of cable outer covering			PS2 to SANS 1339							
15	Composition Alloy 'E' (percentage by weight):			SANS 1339							
16	Conductor details:										
16.1	Material			XXXXX							
16.2	Shape			XXXXX							

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd

Items 55, 56, 57, 58, and 59 for 33 kV Cables: XLPE 1C AL (Continued)

Item No.	Description	Requirements					Particulars of equipment offered				
		240mm ²	300mm ²	400mm ²	500mm ²	630mm ²	240mm ²	300mm ²	400mm ²	500mm ²	630mm ²
17	Maximum dielectric stress at U ₀										
17.1	At the conductor screen kV/mm			XXXXX							
17.2	At the earthed core screen kV/mm			XXXXX							
18	Minimum radial thickness of main Insulation mm			XXXXX							
19	Anti-corrosion covering:										
19.1	Minimum average thickness mm			XXXXX							
19.2	Minimum thickness mm			XXXXX							
19.3	Insulation resistance at 10 kV at Works corrected to 20°C MΩ/km			XXXXX							
20	Minimum radius of bend around which cable can be laid m			XXXXX							
21	Maximum dc resistance of conductor of cable at 20°C Ω/km			XXXXX							

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd

Items 55, 56, 57, 58, and 59 for 33 kV Cables: XLPE 1C AL (Continued)

Item No.	Description	Requirements					Particulars of equipment offered				
		240mm ²	300mm ²	400mm ²	500mm ²	630mm ²	240mm ²	300mm ²	400mm ²	500mm ²	630mm ²
22	Maximum ac resistance of:										
22.1	Conductor of cable at maximum working Temperature Ω/km			XXXXX							
22.2	Combined sheath/reinforcement of cable at maximum working temperature Ω/km			XXXXX							
23	Screening factor of cable			XXXXX							
24	Minimum barrel diameter of cable drums m			XXXXX							
25	Maximum drum length of cable m			XXXXX							
26	Maximum dimensions of cable drums:										
26.1	Diameter m			XXXXX							
26.2	Width m			XXXXX							
26.3	Gross drum mass (approximate) kg			XXXXX							
27	State whether cable tensioning devices are returnable or not			XXXXX							

SIGNED ON BEHALF OF TENDERER:

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS**Items 60, 61, 62, and 63 for 33 kV Cables: PILC 3C CU**

Item No.	Description	Requirements				Particulars of equipment offered			
		240mm ²	300mm ²	400mm ²	500mm ²	240mm ²	300mm ²	400mm ²	500mm ²
1	Nominal voltage between phases of three-phase circuit, U _o kV		33						
2	System highest voltage, U _m kV		36						
3	System frequency Hz		50						
4	Feeder current rating under site conditions A		XXX						
5	Maximum permissible conductor temperature °C		70						
6	Impulse withstand level of cable termination and cable kV _p		200						
7	Power frequency withstand level of cable		To SANS 97						
8	Maximum partial discharge level measured at 1,5 U _o (Type and Routine test) pC		-						
9	Conductor short circuit capability:								
9.1	Short circuit current kA.1 sec		To SANS 10198						
9.2	Final conductor temperature °C		XXXXX						

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd

Items 60, 61, 62, and 63 for 33 kV Cables: PILC 3C CU (Continued)

Item No.	Description	Requirements				Particulars of equipment offered			
		240mm ²	300mm ²	400mm ²	500mm ²	240mm ²	300mm ²	400mm ²	500mm ²
10	Metallic sheath short circuit capability for 1 s								
10.1	Short circuit current kA		13						
10.2	Final sheath temperature °C		XXXXX						
11	Maximum conductor temperature at rated current °C		XXXXX						
12	Type of cable insulation		PILC						
13	Type of sheath		Metallic Lead Alloy E						
13.1	Thickness of sheath mm		XXXXX						
14	Type of cable outer covering		PS2 to SANS 1411						
15	Composition Alloy 'E' (percentage by weight):		SANS 97						
16	Conductor details:								
16.1	Material		XXXXX						
16.2	Shape		XXXXX						

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd

Items 60, 61, 62, and 63 for 33 kV Cables: PILC 3C CU (Continued)

Item No.	Description	Requirements				Particulars of equipment offered			
		240mm ²	300mm ²	400mm ²	500mm ²	240mm ²	300mm ²	400mm ²	500mm ²
17	Maximum dielectric stress at U ₀								
17.1	At the conductor screen kV/mm		XXXXX						
17.2	At the earthed core screen kV/mm		XXXXX						
18	Minimum radial thickness of main Insulation mm		XXXXX						
19	Anti-corrosion covering:								
19.1	Minimum average thickness mm		XXXXX						
19.2	Minimum thickness mm		XXXXX						
19.3	Insulation resistance at 10 kV at Works corrected to 20°C MΩ/km		XXXXX						
20	Minimum radius of bend around which cable can be laid m		XXXXX						
21	Maximum dc resistance of conductor of cable at 20°C Ω/km		XXXXX						

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd

Items 60, 61, 62, and 63 for 33 kV Cables: PILC 3C CU (Continued)

Item No.	Description	Requirements				Particulars of equipment offered			
		240mm ²	300mm ²	400mm ²	500mm ²	240mm ²	300mm ²	400mm ²	500mm ²
22	Maximum ac resistance of:								
22.1	Conductor of cable at maximum working Temperature Ω/km		XXXXX						
22.2	Combined sheath/reinforcement of cable at maximum working temperature Ω/km		XXXXX						
23	Screening factor of cable		XXXXX						
24	Minimum barrel diameter of cable drums m		XXXXX						
25	Maximum drum length of cable m		XXXXX						
26	Maximum dimensions of cable drums:								
26.1	Diameter m		XXXXX						
26.2	Width m		XXXXX						
26.3	Gross drum mass (approximate) kg		XXXXX						
27	State whether cable tensioning devices are returnable or not		XXXXX						

SIGNED ON BEHALF OF TENDERER:

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS

Items 19, 20, 21, and 66 for 132 kV Cables: XLPE 1C AL/CU

Item No.	Description	Requirements				Particulars of equipment offered			
		1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)	1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)
1	Nominal voltage between phases of three-phase circuit, U _o kV			132					
2	System highest voltage, U _m kV			145					
3	System frequency Hz			50					
4	Earthing of system neutral			Solid					
5	Maximum system symmetrical fault level (single and three phase) which the completed installation, conductor and metallic sheath must be capable of withstanding:								
5.1	Short circuit current kA.1s			40					
5.2	Asymmetrical crest factor			2,5					
6	Maximum dielectric stress at the conductor kV/mm			7,8					
7	Maximum permissible conductor temperature °C			90					
8	Maximum permissible sheath temperature °C			50					
9	Maximum sheath standing voltage at rated current V			65					
10	Impulse withstand level of cable termination and cable kV _p			650					
11	Power frequency withstand level of cable			To IEC 60840					
12	Maximum partial discharge level measured at 1,5 U _o (Type and Routine test) pC			5					
13.1	Circuit configuration and spacing			XXXXX					
13.2	Maximum trench width mm			1 000					

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Item No.	Description	Requirements				Particulars of equipment offered			
		1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)	1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)
14	Feeder power transfer rating under site conditions (Refer to clause 5.1 of the Specification) Maximum design rating with one three-phase feeder only on load								
14.1	In ground MVA		50						
14.2	In ducts MVA		50						
14.3	At the terminations MVA		50						
15	Maximum design rating with two three-phase feeders on load								
15.1	In ground MVA		XXXX						
15.2	In ducts MVA		XXXX						
15.3	At the terminations MVA		XXXX						
16	Conductor short circuit capability for 1 s, with one feeder only on load before short circuit								
16.1	Short circuit current kA		40						
16.2	Final conductor temperature °C		XXXX						
17	Metallic sheath short circuit capability for 1 s, with one feeder only on load at maximum cable design rating								
17.1	Short circuit current kA		40						
17.2	Final sheath temperature °C		XXXX						
18	Maximum conductor temperature with one feeder only on load								
18.1	Specified load transfer °C		XXXX						

TENDER NO: 300G/2024/25

Item No.	Description	Requirements				Particulars of equipment offered			
		1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)	1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)
18.2	Maximum cable design rating °C	XXXX							
19	Maximum sheath temperature with one feeder on load								
19.1	In ground °C	XXXX							
19.2	In ducts °C	XXXX							
19.3	At the terminations °C	XXXX							
20	Maximum sheath temperature with two feeders on load								
20.1	In ground °C	XXXX							
20.2	In ducts °C	XXXX							
20.3	At the terminations °C	XXXX							
21	Type of cable insulation	XLPE							
22	Type of sheath	Metallic:Lead Alloy E, corrugated seamless aluminium, copper or stainless steel							
22.1	Thickness of sheath mm	XXXX							
23	Type of cable outer covering	ST7 to IEC 60229							
24	Composition Alloy 'E' (percentage by weight):								
24.1	Tin %	0,45							
24.2	Antimony %	0,25							
24.3	Tellurium %	0,005							
24.4	Silver %	0,005							

TENDER NO: 300G/2024/25

Item No.	Description	Requirements				Particulars of equipment offered			
		1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)	1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)
24.5	Copper %	0,06							
24.6	Bismuth %	0,05							
24.7	Zinc %	0,002							
24.8	Others (total) %	0,01							
24.9	Lead remainder %	Remainder							
25	Sheath wires required for short-circuit rating:								
25.1	Number and diameter of copper wires	No/mm	XXXX						
25.2	Number and thickness of spiral copper tapes	No/mm	XXXX						
25.3	Total cross-sectional area	mm ²	XXXX						
25.4	Short-circuit rating of sheath wires EXCLUDING metallic sheath	kA	40						
26	Short-circuit rating of metallic sheath EXCLUDING sheath wires	kA	XXXX						
27	Nominal cross-sectional area of conductor	mm ²	XXXX						
28	Conductor details:								
28.1	Material		XXXX						
28.2	Shape		XXXX						
29	Maximum dielectric stress at U ₀								
29.1	At the conductor screen	kV/mm	XXXX						
29.2	At the earthed core screen	kV/mm	XXXX						

TENDER NO: 300G/2024/25

Item No.	Description	Requirements				Particulars of equipment offered			
		1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)	1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)
30	Minimum radial thickness of main insulation mm	XXXX							
31	Maximum sheath standing voltage:								
31.1	at rated load transfer V	XXXX							
31.2	at maximum cable design rating V	65							
32	Minimum radial thickness of metallic sheath mm	XXXX							
33	Nominal diameter over metallic sheath mm	XXXX							
34	Anti-corrosion covering:								
34.1	Minimum average thickness mm	XXXX							
34.2	Minimum thickness mm	XXXX							
34.3	Insulation resistance at 10 kV at Works corrected to 20°C MΩ/km	XXXX							
35	Nominal overall diameter of completed cable mm	XXXX							
36	Nominal mass of completed cable kg/m	XXXX							
37	Minimum radius of bend around which cable can be laid m	XXXX							
38	Minimum internal diameter of pipes or ducts through which cable can be laid mm	XXXX							
39	Maximum dc resistance of conductor of cable at 20°C Ω/km	XXXX							
40	Maximum ac resistance of:								
40.1	Conductor of cable at maximum working Temperature Ω/km	XXXX							

TENDER NO: 300G/2024/25

Item No.	Description	Requirements				Particulars of equipment offered			
		1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)	1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)
40.2	Combined sheath/reinforcement of cable at maximum working temperature Ω/km			XXXX					
41	Equivalent star inductive reactance at 50 Hz per phase of three-phase cable circuit Ω/km			XXXX					
42	Zero phase sequence impedance at 50 Hz of three-phase cable circuit as installed (Ro+jXo) Ω/km			XXXX					
43	Maximum electrostatic capacitance per core of cable μF/km			XXXX					
44	Maximum charging current per phase of completed circuit A/km			XXXX					
45	Maximum power factor of charging kVA of completed cable when laid direct in the ground at nominal voltage and normal frequency at a conductor temperature of:								
45.1	15°C %			XXXX					
45.2	Maximum working temperature %			XXXX					
46	Maximum power factor of charging kVA at normal frequency at a conductor temperature of 20°C:								
46.1	50% Nominal voltage %			XXXX					
46.2	Nominal voltage %			XXXX					
46.3	150% Nominal voltage %			XXXX					
46.4	200% Nominal voltage %			XXXX					
47	Maximum dielectric loss of completed cable of three-phase circuit when laid direct in the ground			XXXX					

TENDER NO: 300G/2024/25

Item No.	Description	Requirements				Particulars of equipment offered			
		1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)	1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)
	at nominal voltage and normal frequency at maximum designed conductor temperature								
48	Sheath loss (including any reinforcement) of completed cable of three-phase circuit at nominal voltage and normal frequency at specified load transfer:								
48.1	Laid direct in ground								
48.2	Drawn into ducts								
49	Impulse withstand level of cable termination and cable:								
49.1	Positive 1,2/50 μs wave								
49.2	Negative 1,2/50 μs wave								
50	Minimum power frequency withstand level								
51	Screening factor of cable								
52	Minimum barrel diameter of cable drums								
53	Maximum drum length of cable								
54	Maximum dimensions of cable drums:								
54.1	Diameter								
54.2	Width								
54.3	Gross drum mass (approximate)								
55	State whether cable tensioning devices are returnable or not								

TENDER NO: 300G/2024/25

Item No.	Description	Requirements				Particulars of equipment offered			
		1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)	1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)
56	If aluminium conductor cable is being offered, state what approvals have been obtained for the conductor jointing process			XXXX					
57	Distance between cable centres after installation mm			XXXX					
58	Bonding and earthing details			XXXX					
59	Sheath voltage limiters:								
59.1	Type of protection unit			XXXX					
59.2	dc Test voltage V			XXXX					
59.3	Current limits at 20 °C kA			XXXX					
59.4	Minimum insulation resistance at 1 kV dc mΩ			XXXX					
60	Link box (impulse test):								
60.1	Withstand voltage between links kV			35					
60.2	Withstand voltage from links to earth kV			17.5					
60.3	Withstand voltage between links and from links to earth kV			25kVdc for 5 minutes					
61	Thermal response of sheath temperature of circuit to stepchange in load from 50% to 100%								
61.1	Thermal equation of cable			XXXX					
61.2	Thermal time constant			XXXX					
61.3	Start temperature of sheath °C			XXXX					
61.4	Final temperature of sheath °C			XXXX					

TENDER NO: 300G/2024/25

Item No.	Description	Requirements				Particulars of equipment offered				
		1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)	1600mm ² Al (Item 19)	630mm ² Al (Item 20)	1000mm ² Cu (Item 21)	500mm ² Al (Item 66)	
61.5	Time to reach final temperature	h	XXXX							

SIGNED ON BEHALF OF TENDERER:

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS

Items 67 and 76 - 66 kV Cables: XLPE 1C AL

Item No.	Description	Requirements	Particulars of equipment offered	
			Item 67	Item 76
1	Nominal voltage between phases of three-phase circuit, U_0 kV	66		
2	System highest voltage, U_m kV	72.5		
3	System frequency Hz	50		
4	Earthing of system neutral	Solid		
5	Maximum system symmetrical fault level (single and three phase) which the completed installation, conductor and metallic sheath must be capable of withstanding:			
5.1	Short circuit current kA.1s	31.5		
5.2	Asymmetrical crest factor	2,5		
6	Maximum dielectric stress at the conductor kV/mm	6,4		
7	Maximum permissible conductor temperature °C	90		
8	Permissible sheath temperature (at Nominal MVA rating) °C	60		
9	Maximum sheath standing voltage at rated current V	65		
10	Impulse withstand level of cable termination and cable kV _p	325		
11	Power frequency withstand level of cable	To IEC 60840		
12	Maximum partial discharge level measured at 1,5 U_0 (Type and Routine test) pC	5		
13.1	Circuit configuration and spacing	XXXXX		
13.2	Maximum trench width mm	2 000		

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS**Items 67 and 76 - 66 kV Cables: XLPE 1C AL (Continued)**

Item No.	Description	Requirements		Particulars of equipment offered			
				Item 67		Item 76	
14	Feeder power transfer rating under site conditions. (Refer to clause 6.1 of the Specification). Nominal and Maximum/ Emergency design ratings with <u>One</u> three-phase feeder only on load	Nominal Rating @ 60 °C Sheath	Max/ Emerg Rating @ 90 °C Conductor	Nominal Rating @ 60 °C Sheath	Max/ Emerg Rating @ 90 °C Conductor	Nominal Rating @ 60 °C Sheath	Max/ Emerg Rating @ 90 °C Conductor
14.1	In ground MVA	60	XXXX				
14.2	In ducts MVA	60	XXXX				
14.3	At the terminations MVA	60	XXXX				
15	Nominal and Maximum design rating with two three-phase feeders on load						
15.1	In ground MVA	XXXX					
15.2	In ducts MVA	XXXX					
15.3	At the terminations MVA	XXXX					
16	Conductor short circuit capability for 1 s, with one feeder only on load before short circuit						
16.1	Short circuit current kA	31.5					
16.2	Final conductor temperature °C	XXXX					
17	Metallic sheath short circuit capability for 1 s, with one feeder only on load at maximum cable design rating						

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS**Items 67 and 76 - 66 kV Cables: XLPE 1C AL (Continued)**

Item No.	Description	Requirements	Particulars of equipment offered	
			Item 67	Item 76
17.1	Short circuit current kA	31.5		
17.2	Final sheath temperature °C	XXXX		
18	Maximum conductor temperature with one feeder only on load			
18.1	Specified load transfer °C	XXXX		
18.2	Maximum cable design rating °C	XXXX		
19	Maximum sheath temperature with one feeder on load			
19.1	In ground °C	XXXX		
19.2	In ducts °C	XXXX		
19.3	At the terminations °C	XXXX		
20	Maximum sheath temperature with two feeders on load			
20.1	In ground °C	XXXX		
20.2	In ducts °C	XXXX		
20.3	At the terminations °C	XXXX		
21	Type of cable insulation	XLPE		
22	Type of sheath	Metallic:Lead Alloy E, corrugated seamless aluminium, copper or stainless steel		
22.1	Thickness of sheath mm	XXXX		
23	Type of cable outer covering	ST7 to IEC 60229		

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS**Items 67 and 76 - 66 kV Cables: XLPE 1C AL (Continued)**

Item No.	Description	Requirements	Particulars of equipment offered	
			Item 67	Item 76
24	Composition Alloy 'E' (percentage by weight):			
24.1	Tin %	0,45		
24.2	Antimony %	0,25		
24.3	Tellurium %	0,005		
24.4	Silver %	0,005		
24.5	Copper %	0,06		
24.6	Bismuth %	0,05		
24.7	Zinc %	0,002		
24.8	Others (total) %	0,01		
24.9	Lead remainder %	Remainder		
25	Sheath wires required for short-circuit rating:			
25.1	Number and diameter of copper wires No/mm	XXXX		
25.2	Number and thickness of spiral copper tapes No/mm	XXXX		
25.3	Total cross-sectional area mm ²	XXXX		
25.4	Short-circuit rating of sheath wires EXCLUDING metallic sheath kA	40		

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS**Items 67 and 76 - 66 kV Cables: XLPE 1C AL (Continued)**

Item No.	Description	Requirements	Particulars of equipment offered	
			Item 67	Item 76
26	Short-circuit rating of metallic sheath EXCLUDING sheath wires kA	XXXX		
27	Nominal cross-sectional area of conductor mm ²	XXXX		
28	Conductor details:			
28.1	Material	XXXX		
28.2	Shape	XXXX		
29	Maximum dielectric stress at U ₀			
29.1	At the conductor screen kV/mm	XXXX		
29.2	At the earthed core screen kV/mm	XXXX		
30	Minimum radial thickness of main insulation mm	XXXX		
31	Maximum sheath standing voltage:			
31.1.1	at rated load transfer V	XXXX		
31.1.2	at maximum cable design rating V	65		
32	Minimum radial thickness of metallic sheath mm	XXXX		

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS**Items 67 and 76 - 66 kV Cables: XLPE 1C AL (Continued)**

Item No.	Description	Requirements	Particulars of equipment offered	
			Item 67	Item 76
33	Nominal diameter over metallic sheath mm	XXXX		
34	Anti-corrosion covering:			
34.1	Minimum average thickness mm	XXXX		
34.2	Minimum thickness mm	XXXX		
34.3	Insulation resistance at 10 kV at Works corrected to 20°C MΩ/km	XXXX		
35	Nominal overall diameter of completed cable mm	XXXX		
36	Nominal mass of completed cable kg/m	XXXX		
37	Minimum radius of bend around which cable can be laid m	XXXX		
38	Minimum internal diameter of pipes or ducts through which cable can be laid mm	XXXX		
39	Maximum dc resistance of conductor of cable at 20°C Ω/km	XXXX		
40	Maximum ac resistance of:			
40.1	Conductor of cable at maximum working Temperature Ω/km	XXXX		
40.2	Combined sheath/reinforcement of cable at maximum working temperature Ω/km	XXXX		

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS**Items 67 and 76 - 66 kV Cables: XLPE 1C AL (Continued)**

Item No.	Description	Requirements	Particulars of equipment offered	
			Item 67	Item 76
41	Equivalent star inductive reactance at 50 Hz per phase of three-phase cable circuit Ω/km	XXXX		
42	Zero phase sequence impedance at 50 Hz of three-phase cable circuit as installed (R_0+jX_0) Ω/km	XXXX		
43	Maximum electrostatic capacitance per core of cable $\mu\text{F}/\text{km}$	XXXX		
44	Maximum charging current per phase of completed circuit A/km	XXXX		
45	Maximum power factor of charging kVA of completed cable when laid direct in the ground at nominal voltage and normal frequency at a conductor temperature of:			
45.1.	15°C %	XXXX		
45.2	Maximum working temperature %	XXXX		
46	Maximum power factor of charging kVA at normal frequency at a conductor temperature of 20°C:			
46.1	50% Nominal voltage %	XXXX		
46.2	Nominal voltage %	XXXX		
46.3	150% Nominal voltage %	XXXX		
46.4	200% Nominal voltage %	XXXX		

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS**Items 67 and 76 - 66 kV Cables: XLPE 1C AL (Continued)**

Item No.	Description	Requirements	Particulars of equipment offered	
			Item 67	Item 76
47	Maximum dielectric loss of completed cable of three-phase circuit when laid direct in the ground at nominal voltage and normal frequency at maximum designed conductor temperature kW/km	XXXX		
48	Sheath loss (including any reinforcement) of completed cable of three-phase circuit at nominal voltage and normal frequency at specified load transfer:			
48.1	Laid direct in ground kW/km	XXXX		
48.2	Drawn into ducts kW/km	XXXX		
49	Impulse withstand level of cable termination and cable:			
49.1	Positive 1,2/50 μ s wave kV	XXXX		
49.2	Negative 1,2/50 μ s wave kV	XXXX		
50	Minimum power frequency withstand level kV	XXXX		
51	Screening factor of cable	XXXX		
52	Minimum barrel diameter of cable drums m	XXXX		
53	Maximum drum length of cable m	XXXX		
54	Maximum dimensions of cable drums:			
54.1	Diameter m	XXXX		
54.2	Width m	XXXX		
54.3	Gross drum mass (approximate) kg	XXXX		
55	State whether cable tensioning devices are returnable or not	XXXX		

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS**Items 67 and 76 - 66 kV Cables: XLPE 1C AL (Continued)**

Item No.	Description	Requirements	Particulars of equipment offered	
			Item 67	Item 76
56	If aluminium conductor cable is being offered, state what approvals have been obtained for the conductor jointing process	XXXX		
57	Distance between cable centres after installation mm	XXXX		
58	Bonding and earthing details	XXXX		
59	Sheath voltage limiters:			
59.1	Type of protection unit	XXXX		
59.2	dc Test voltage V	XXXX		
59.3	Current limits at 20 °C kA	XXXX		
59.4	Minimum insulation resistance at 1 kV dc mΩ	XXXX		
60	Link box (impulse test):			
60.1	Withstand voltage between links kV	35		
60.2	Withstand voltage from links to earth kV	17.5		
60.3	Withstand voltage between links and from links to earth kV	25kVdc for 5 minutes		

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS

Items 67 and 76 - 66 kV Cables: XLPE 1C AL (Continued)

Item No.	Description	Requirements		Particulars of equipment offered			
				Item 67		Item 76	
61	Thermal response of sheath temperature of circuit to stepchange for various load changes	From 50% Nominal load to 100% Nominal rated load	From 100% Nominal rated load to Max/ Emerg rated load	From 50% Nominal load to 100% Nominal rated load	From 100% Nominal rated load to Max/ Emerg rated load	From 50% Nominal load to 100% Nominal rated load	From 100% Nominal rated load to Max/ Emerg rated load
61.1	Thermal equation of cable	XXXX					
61.2	Thermal time constant	XXXX	XXXX				
61.3	Start temperature of sheath	°C	XXXX	XXXX			
61.4	Final temperature of sheath	°C	XXXX	XXXX			
61.5	Time to reach final temperature	h	XXXX	XXXX			

SIGNED ON BEHALF OF TENDERER:

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd

Item 42 - 33 kV Joints – Direct burial in ground

Item No.	Description	Requirements	Particulars of equipment offered
			Transition type (3-core to 3-core)
1	Rated service voltage kV	33	
2	Type of joint:	XXXX	PILC to PILC
2.1	Overall length mm	XXXX	
2.2	Total mass kg	XXXX	
3	Principal insulation	XXXX	
4	Method of stress control	XXXX	
5	Maximum insulation stress kV/mm	XXXX	
6	Method of jointing cable conductor	XXXX	
7	Material of fittings:		
7.1	Outer shell	XXXX	
7.2	Conductor socket	XXXX	
7.3	Water barrier	Metallic or epoxy resin	
8	Details of jointing metallic sheath and outer covering	XXXX	
9	Type of jointing box to be provided	XXXX	
10	Type tested on cable specified	Yes	

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd

Item 40 - 33 kV Joints – Direct burial in ground (Continued)

Item No.	Description	Requirements	Particulars of equipment offered
			Transition type PILC to PILC
			3-core trifurcator
11	Underground transition straight-through joints for use on 185 - 400 mm ² screened copper conductor, 33 kV PILC cable to 185 - 400 mm ² screened copper conductor, 33 kV PILC cable and mechanical torque shear ferrules. Each joint shall comprise the following MINIMUM components:		3-core PILC to 3-core PILC
11.1	Composite joint sleeve enclosure	1	
11.2	Lead sleeve quantity of suitable diameter or approved alternative mm	1 XXXX	
11.3	Insulating and waterproofing compounds	Lot	
11.4	Additional components included by Manufacturer (Full details to be provided): Eg: (Tenderer to complete)	Detail:	
	Moulded crutch filler wedge	XXXX	
	Tinned copper braid earth lead	XXXX	
	Black mastic filler profile	XXXX	
	Core separator profile	XXXX	
	Cable lubricating grease	XXXX	
	Earth continuity lead quantity mm ²	XXXX XXXX	
	Core insulating tubing quantity	XXXX	
	Mastic tape sealant quantity	XXXX	
	Stress control void filler quantity	XXXX	
	Clear thin wall oil barrier tubing quantity	XXXX	
	Black medium wall joint sealing tubing quantity	XXXX	
	Installation instruction quantity	XXXX	
	Cleaning kit quantity	XXXX	
	Earthing modules consisting of:		
	Constant force spring size quantity	XXXX	
	Tinned copper mesh tape quantity	XXXX	
	Black mastic tape sealant quantity	XXXX	
	Mechanical torque sheer ferrules quantity	XXXX	
	Other:		

SIGNED ON BEHALF OF TENDERER:

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd**Item 43, 44 - Outdoor 3C Terminations for 33kV PILC**

	Description	Particulars of equipment offered	
		Item 43	Item 44
1. Outdoor Terminations, PILC Cable: Parameters			
1.1	Manufacturer		
1.2	Suitable for 3c Cu PILC DSTA 33kV cable to SANS 97 (Wet)		
1.3	Conductor size range: Specified mm ²	120 - 185	240 - 500
1.4	Conductor size range: Offered mm ²		
1.5	Termination tail length: Specified mm ²	1200	1200
1.6	Termination tail length: Offered mm ²		
1.7	Mechanical earthing kit required	Yes	Yes
1.8	Mechanical earthing kit: Offered		
1.9	Torque shear lugs required?	Yes	Yes
1.10	Torque shear lugs: Offered		
1.11	Torque shear lug make / model		
1.12	Torque shear lug conductor size range		
1.13	AC withstand voltage (85kV)		
1.14	Impulse (Peak) withstand voltage (200kV)		
1.15	Thermal short-circuit (earth fault) rating: Fault rating kA		
1.16	Rated duration s		
1.17	Anti-track tubing Tracking Index		
1.18	Terminations fully Type Tested?		
1.19	Schedule of Type Tests provided?		
1.20	Sample Installation Instructions included with Tender?		
1.21	Shelf life - Complete kit Months		
1.22	Manufacturer SANS/ISO 9001 accredited?		
1.23	SANS / ISO 9001 Accreditation No		

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd**Item 43, 44 - Outdoor 3C Terminations for 33kV PILC (Continued)**

	Description	Particulars of equipment offered (Detail Actual Quantity and Description / Size)	
		Item 43	Item 44
1. Outdoor Terminations, PILC Cable: Parameters			
1.24	Heat shrink clear oil barrier tubing		
1.25	Heat shrink conductive tubing for cable screen		
1.26	Void filling stress relieving mastic / tape for screen cut		
1.27	Heat shrink stress control tubing		
1.28	Profiled wedge for cable crutch		
1.29	Void filling and profiling mastic / tape for breakout boot		
1.30	Heat shrink conductive breakout boot		
1.31	Void filling mastic / tape for lug barrel base		
1.32	Heat shrink high voltage anti-track tubing		
1.33	Heat shrink anti-track rain sheds		
1.34	Further binders and tapes as required		
1.35	Installation Instruction		
1.36	Additional components included by Manufacturer (Provide full details)		
1.37	Mechanical Earthing Kit:		
1.38	Water blocked main earth braid		
1.39	Tinned copper mesh and constant force roll spring for lead sheath		
1.40	Constant force roll spring for connection to armour		
1.41	Waterblocking sealant tape for cable outersheath		
1.44	Insulating heat shrink cover tubing		
1.45	Further components, binders and tapes as required		

SIGNED ON BEHALF OF TENDERER:

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd**Item 45 - Outdoor 1C Terminations for 33kV PILC**

	Description	Particulars of equipment offered
	2. Outdoor Terminations, PILC Cable: Parameters	Item 45
2.1	Manufacturer	
2.2	Suitable for 1c Cu PILC DSTA 33kV cable to SANS 97 (Wet)	
2.3	Conductor size range: Specified mm ²	240 - 500
2.4	Conductor size range: Offered mm ²	
2.5	Termination tail length: Specified mm ²	1200
2.6	Termination tail length: Offered mm ²	
2.7	Mechanical earthing kit required	Yes
2.8	Mechanical earthing kit: Offered	
2.9	Torque shear lugs required?	Yes
2.10	Torque shear lugs: Offered	
2.11	Torque shear lug make / model	
2.12	Torque shear lug conductor size range	
2.13	AC withstand voltage (85kV)	
2.14	Impulse (Peak) withstand voltage (200kV)	
2.15	Thermal short-circuit (earth fault) rating: Fault rating kA	
2.16	Rated duration s	
2.17	Anti-track tubing Tracking Index	
2.18	Terminations fully Type Tested?	
2.19	Schedule of Type Tests provided?	
2.20	Sample Installation Instructions included with Tender?	
2.21	Shelf life - Complete kit Months	
2.22	Manufacturer SANS/ISO 9001 accredited?	
2.23	SANS / ISO 9001 Accreditation No	

SCHEDULE F.13(c): TECHNICAL REQUIREMENTS AND DATA SHEETS Cont'd**Item 45 - Outdoor 1C Terminations for 33kV PILC (Continued)**

	Description	Particulars of equipment offered (Detail Actual Quantity and Description / Size)
	2. Outdoor Terminations, PILC Cable: Parameters	Item 45
2.24	Heat shrink clear oil barrier tubing	
2.25	Heat shrink conductive tubing for cable screen	
2.26	Void filling stress relieving mastic / tape for screen cut	
2.27	Heat shrink stress control tubing	
2.28	Void filling mastic / tape for lug barrel base	
2.29	Heat shrink high voltage anti-track tubing	
2.30	Heat shrink anti-track rain sheds	
2.31	Further binders and tapes as required	
2.32	Installation Instruction	
2.33	Additional components included by Manufacturer (Provide full details)	
2.34	Mechanical Earthing Kit:	
2.35	Water blocked main earth braid	
2.36	Tinned copper mesh and constant force roll spring for lead sheath	
2.37	Constant force roll spring for connection to armour	
2.38	Waterblocking sealant tape for cable outersheath	
2.39	Insulating heat shrink cover tubing	
2.40	Further components, binders and tapes as required	

SIGNED ON BEHALF OF TENDERER:

Schedule F.13 (d): Quality Assurance Plan

QUALITY ASSURANCE

The Tenderer should submit with the tender evidence of compliance with the Quality Assurance requirements of this specification.

The following minimum information is to be provided with the tender:

1	Do you have a quality assurance system in place?	Yes / No
2	If the answer to question 1 is NO, is an alternative quality assurance implementation plan submitted with this tender?	Yes / No
3	State your Supplier Assessment Scheme Certificate reference number	
4	State your Quality Assurance Certificate reference number	
5	State the name of the organisation that issued the Quality Assurance Certificate	
6	Are any of the following documents submitted with this tender?	
	(a) a Company Quality Manual	Yes / No
	(b) a recent Contract Quality Manual	Yes / No
	(c) documented Quality System Element Procedures	Yes / No
	(d) a sample Inspection and Test Plan	Yes / No
	(e) a recent Internal Quality Audit Report	Yes / No
	(f) a recent External Quality Audit Report	Yes / No

SIGNED ON BEHALF OF TENDERER:

