DEPARTMENT OF WATER AND SANITATION
REPUBLIC OF SOUTH AFRICA

DUE AT 11:00 ON

CLOSING DATE: 8 DECEMBER 2026

BID: WTE-0614 CS

SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH.

SUBMIT BID DOCUMENTS TO:

THE BID BOX: ENTRANCE OF TRAINING CENTRE
DEPARTMENT OF WATER AND SANITATION
CONSTRUCTION SOUTH
CLANWILLIAM DAM SITE: OLD N7 ROUTE
CO-ORDINATES: 32°11'47.99''S and 18°52'34.96''E

BIDDER: **(Company address and stamp)**

COMPILED BY: SCM CONSTRUCTION SOUTH MANAGEMENT

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0614 CS

SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH.

INVITATION TO BID (SBD 1)

PART A
INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (*NAME OF DEPARTMENT/ PUBLIC ENTITY*)					
BID NUMBER:	**WTE-0614 CS**	CLOSING DATE:	**8 DECEMBER 2026**	CLOSING TIME:	**11H00**
DESCRIPTION	**SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH.**				

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT *(STREET ADDRESS)*
THE BID BOX: ENTRANCE OF TRAINING CENTRE
DEPARTMENT OF WATER AND SANITATION
CONSTRUCTION SOUTH
CLANWILLIAM DAM SITE: OLD N7 ROUTE
CO-ORDINATES: 32°11'47.99''S and 18°52'34.96''E

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO		TECHNICAL ENQUIRIES MAY BE DIRECTED TO:	
CONTACT PERSON	**F. Groenewald/R. de Wee**	CONTACT PERSON	**G. Liebenberg**
E-MAIL ADDRESS	**groenewaldf@dws.gov.za/ deweer@dws.gov.za**	E-MAIL ADDRESS	**liebenbergg@dws.gov.za**

SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		**OR**	CENTRAL SUPPLIER DATABASE No:	MAAA

ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐Yes ☐No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	☐Yes ☐No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]

QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	☐ YES ☐ NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	☐ YES ☐ NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	☐ YES ☐ NO

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

PART B
TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.**
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. **THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).**
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER: ……

CAPACITY UNDER WHICH THIS BID IS SIGNED: ……
(Proof of authority must be submitted e.g. company resolution)

DATE: ……...

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0614 CS

SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH.

SECTION 1: LEGALITIES

CONTENTS

- INSTRUCTIONS TO BIDDERS
- DECLARATION OF INTEREST (SBD 4)
- TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION, 2022 (SBD 6.1)

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0614 CS

SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH.

1. INSTRUCTIONS TO BIDDERS

CONTENTS

1. ISSUING OF DOCUMENTS
2. QUERIES WITH RESPECT TO THIS BID
3. COMPLETION OF BIDS
4. SUBMISSION OF BIDS
5. SIGNATURE ON BIDS
6. GENERAL CONDITIONS OF CONTRACT
7. BIDS TO COMPLY WITH DOCUMENTS
8. TELEGRAPHIC BIDS
9. THE DEPARTMENT'S RIGHT TO DECLINE ANY BID
10. DEPARTMENT IS NOT LIABLE FOR BIDDER'S EXPENSES
11. PAYMENTS MADE UNDER THIS CONTRACT
12. EVALUATION CRITERIA
13. REJECTION OF BIDS
14. RESULTS OF BIDS

INSTRUCTIONS TO BIDDERS

1. ISSUING OF DOCUMENTS

(a) A complete set of bid documents can be downloaded from the e-tender portal.

(b) Bidders must satisfy themselves that the document is complete and conform to the index of this document. Should any figures or writing be indistinct, or should any pages be missing from this document or should this document or the drawing(s) contain any obvious errors, the Bidders must immediately notify the Department in order to have any discrepancy rectified or clarified before submitting his bid. Such clarification will be valid only if made by the Department by means of formal amendment as described hereunder prior to the date of submission of bids. The Department may issue amendments to clarify or modify the Bid Documents. A copy of each amendment will be issued to each bidder and shall be acknowledged on the form issued with the amendments. No claim whatsoever will be entertained for faults in the bid price resulting from the above-mentioned discrepancies.

(c) No alterations, omissions or additions shall be made to this document, but should it be deemed necessary to do so, the Bidder is at liberty to qualify his bid.

(d) All Bidders shall be deemed to have waived, renounced and abandoned any conditions printed or written upon any stationery used by them for the purpose of or in connection with the submission of bids which are in conflict with the conditions laid down in this document.

2. QUERIES WITH RESPECT TO THIS BID

Each communication between the Department and a tenderer shall be to or from the Department's contact person only, and in a form that can be read, copied and recorded. Writing shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the Department's contact person are:

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:		**TECHNICAL INFORMATION MAY BE DIRECTED TO:**	
DEPARTMENT/ PUBLIC ENTITY	**Water and Sanitation**	DEPARTMENT	**Construction South**
CONTACT PERSON	**F. Groenewald/ R. de Wee**	CONTACT PERSON	**G. Liebenberg**
E-MAIL ADDRESS	**groenewaldf@dws.gov.za deweer@dws.gov.za**	E-MAIL ADDRESS	**liebenbergg@dws.gov.za**

3. COMPLETION OF BIDS

(a) The bid must be signed on the Invitation to Bid form (SBD 1) annexed hereto with all blanks in the bid and the appendix filled in.

(b) All spaces in the bid forms and other annexures shall be completed in full.

(c) Section 4 in the bid document and the Pricing Schedule must be fully completed and priced out by the bidder. Failure to do so will deem your bid invalid.

(d) The bid documents shall not be separated in any way, nor must any pages be detached from the original documents**.**

4. SUBMISSION OF BIDS

The Bid Document shall be completed, signed and submitted as follows:

(a) The original Bid, together with a covering letter and supporting documents, shall be sealed in an envelope endorsed:

ORIGINAL BID FOR BID**: WTE-0614 CS**: **SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH.**

and the name of the Bidder shall be clearly shown.

(b) Bids, sealed and endorsed as above, will be received by: The Supply Chain Management Office or may be deposit in the bid box at **the entrance of Training Centre. Department of Water and Sanitation**, **Construction South, Clanwilliam dam site: Old N7 route**, **Co-Ordinates: 32°11'47.99''S and 18°52'34.96''E** not later than 11:00 on the date stipulated on the front cover of this document.

5. SIGNATURE ON BIDS

The Bid, if by an individual, must be signed by that individual or by someone on his behalf duly authorised thereto and proof of such authority must be produced. If the bid is by a company, it must be signed by a person duly authorised thereto by a Resolution of a Board of Directors a copy of which Resolution, duly certified by the Chairman of the Company is to be submitted with the bid.

If the bid is submitted by joint venture of more than one person and/or Companies and/or firms it shall be accompanied by the following:

(a) The original or a notarially certified copy of the original document under which such joint venture was constituted which must define precisely inter alia the conditions under which the joint venture will function, its period of duration and the participation of the several constituent persons and/or companies and/or firms.

(b) A certificate signed by or on behalf of each participating person and/or company and/or firm authorising the person who signed the bid to do so.

6. GENERAL CONDITIONS OF CONTRACT

The National Treasury General Conditions of Contract shall be regarded as an integral part of the contract documents.

7. FORM SBD 1

The copy of Form SBD 1 (Invitation to Bid), annexed to these documents, must be completed and signed by the Bidder. **Failure to do so will deem your bid invalid.**

8. BIDDERS TO COMPLY WITH DOCUMENTS

Where applicable, Bidders must allow in their Bids for all labour, material, machinery and everything necessary for the execution and completion of the Contract in accordance with the bid documents. No alterations may be made in the Invitation to Bid, Schedule of Quantities or other documents and the bid will be deemed to comply entirely with the terms of the documents.

9. THE DEPARTMENTS RIGHT TO DECLINE ANY BID

The Department does not bind itself to accept the lowest or any bid.

10. DEPARTMENT NOT LIABLE FOR BIDDER'S EXPENSES

The Department will not be held liable for any expenses incurred in preparing and submitting bids.

11. PAYMENTS UNDER THE CONTRACT

All payments due to the Bidder in terms of the contract will be done by means of Electronic Fund Transfer.

12. EVALUATION CRITERIA

The evaluation of bids will be conducted in four (4) phases as follows:

- **Phase 1: Mandatory Requirements**
- **Phase 2: Administrative Requirements**
- **Phase 3: Technical Evaluation and Specification Compliance**
- **Phase 4: Preference Points system**

Phase 1:

Mandatory Requirements

Failure to submit any of the documents as listed and detailed in Table 1 below will render your bid non-responsive and will be disqualified.

Table 1

No	Detail of Document to be submitted	Does the document submitted comply or not-comply?	
		Comply	Not-Comply
1	SBD 4 form should be completed and signed, and all other interest must be declared		

Phase 2:

Administrative Compliance:

Bidders are required to comply with the following listed below:

Table 2

No	Criteria	Comply	Not-Comply
1	Companies must be registered with National Treasury's Central Supplier Database must submit CSD report.		
2	Tax compliant with SARS (to be verified through CSD and SARS). Attach a copy of SARS Tax Clearance letter and PIN.		
3	Active registration with Company Intellectual Property Commission (to be verified through CSD and CIPC). Attach copy of CIPC / CIPRO certificate.		
4	An original or certified copy of B-BBEE Status Level Verification Certificate (**failure to submit B-BBEE Certificate the Bidder will forfeit the preferential points to be claimed**)		

No	Criteria	Comply	Not-Comply
5	Letter of appointment of duly authorized person to sign bid. Proof of such authority must be submitted with the bid. If by an individual, must be signed by that individual or by someone on his behalf duly authorised thereto and proof of such authority must be produced. If the bid is by a Company, it must be signed by a person duly authorised thereto by a Resolution of a Board of Directors a copy of which Resolution, duly certified by the Chairman of the Company is to be submitted with the bid.		
6	Complete, sign, submit SBD1, SBD3.1, SBD 6.1		
7	The stipulated minimum threshold percentage for local production and content, **Steel Products** as per stipulated by the Department of Trade and Industry (DTi) is applicable. Please make yourself aware of the stipulated minimum threshold percentage of the specific item(s) as per the specifications. Annexure C need to be complete and is available on the Department: Trade and Industry website. (http://www.thedtic.gov.za/sectors-and-services-2/industrial-development/industrial-procurement/).		
8	**Technical Datasheet/s for Items:** • **1: Flux Cored SelectAlloy 316L-AP BF** • **2: Flux Cored SelectAlloy 316L-AP BF** Technical Datasheets/Brochures shall: • Clearly indicate what item is to be supplied if there is multiple items on the Datasheet/Brochure or if there is more than one datasheet for the item. (i.e., HP washer might have separate data sheet for the pump, motor, nozzle, lance, etc) Clearly indicate the Qualifying specification as set out in *Technical Information section 3.2.14* on the Datasheet/Brochure		

Phase 3:

Technical Evaluation and Specification Compliance

Only Bidders that passed Phase 1 and 2 shall be considered for this phase of the evaluation process.

The bid will be evaluated using the criteria as indicated in *Technical Information section 3.2.14* by comparing it to the information submitted in Phase 2.

Failure to comply with all the technical specifications will render your bid as not to specification and non-responsive.

The Bid Evaluation Committee will also confirm that the Bidders has indicated compliance with the technical specification in *Technical Information, Section 3.2.14.*

Table 3

Item	Requirement	Did the bidder comply with the requirement?	
		Comply	Not-Comply
All items	Did the bidder indicate compliance in *Technical Information, Section 3.2.14* and sign the declaration under Section 3?		
1 & 2	Did the information submitted in Phase 2 meet the requirements set out in *Technical Information section 3.2.14?*		

Phase 4:

Preference Points system

The bid will be awarded in terms of Regulation 4: Preferential Procurement Regulations, 2022 pertaining to the Preferential Procurement Policy Framework Act, 2000 (Act 5 of 2000).

Bid proposals will be evaluated based on the 80/20 preference points where a maximum of 80 points will be awarded in respect of price and a maximum of 20 points will be awarded for goals.

Points claimed will be according to a bidder's specific goals claimed as indicated in Table 4 below.

The specific goals allocated points in terms of this tender	Number of maximum points allocated (80/20 system)	Bidder's points claimed for specific goals (To be completed by Bidder)
Women	**5**	
People with disability	**5**	
Youth (35 and below)	**5**	
Location of enterprise Western Cape Province	**2**	
B-BBEE status level contribution from levels 1 to 2 which are QSE or EME	**3**	
Total points for SPECIFIC GOALS	**20**	

Table 4: Specific goals for the tender and points claimed:

Specific goals" means specific goals as contemplated in section 2(1)*(d)* of the PPPFA Act which may include contracting with persons, or categories of persons, historically disadvantaged by unfair discrimination on the basis of race, gender and disability including the implementation of programmes of the Reconstruction of Development Programme as published in *Government Gazette* No. 16085 date 23 November 1994.

"Ownership" means the percentage of ownership and control, exercised by individuals within an enterprise.

"Disability" means, in respect of a person, a permanent impairment of a physical, intellectual, or sensory function, which results in restricted, or lack of, ability to perform an activity in the manner, or within the range, considered normal for a human being.

i. A blind person (in terms of the Blind Persons Act, 1968 (Act no.26 of 1968);

ii. A deaf person, whose hearing is impaired to such an extent that he/she cannot use it as a primary means of communication;
iii. A person who, as a result of permanent disability, requires a wheelchair, caliper or crutch to assist him/her to move from one place or another;
iv. A person who requires an artificial limb; or
v. A person who suffers from a mental illness (in terms of the Mental Health Act, 1973 (Act no. 18 of 1973).

"Youth" means, in respect a person younger than 35 years of age.

"Location of enterprise" Local equals province. Where a project cuts across more than one province, the bidder may be located in any of the relevant provinces to claim and be allocated the points.

Women, disability, and youth will be measured by calculating the pro-rata percentage of ownership of the bidding company which meets the criterion. E.g., Company A has five shareholders each of whom owns 20% of the company. Three of the five shareholders meet the criterion, i.e., they are women/disabled/youth. Therefore, this bidder will obtain 60% of the points allowable for this goal.

Table 5: Documents required for verification of Bidder's claimed points

Table 5

Specific Goal	Requires Proof Documents
Ownership by Women	Completed Percentage Ownership Affidavit (Annexure 1)
Ownership by people with disabilities	
Ownership by Youth	
Location of enterprise – Western Cape	Completed Location of Enterprise Affidavit (Annexure 2) and proof of such premises
B-BBEE status level1 or level 2 contributor who are Exempted Mico Enterprise or Qualifying Small Enterprise	B-BBEE verification certificate issued by a verification agency accredited by South African National Accreditation Agency (SANAS0 or in the case of an EME or a QSE, if permitted in terms of the relevant cade, a duly completed sworn affidavit on the relevant and appropriate form.

Failure on the part of a bidder to submit proof of documentation required in terms of this tender to claim for specific goals with the bid, will be interpreted to mean that preference points for specific goals are not claimed and will not be allocate

13. REJECTION OF BID

Bids not complying with the above-mentioned requirements and specifications may be regarded as incomplete and may not be considered.

14. RESULTS OF BIDS

Results of non-acceptance of bids will be sent to individual unsuccessful bidders.

COMPULSORY DOCUMENTS TO BE COMPLETED BY THE BIDDER:

- DECLARATION OF INTEREST (SBD 4)
- TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION, 2022 (SBD 6.1)
- LOCAL PRODUCTION AND CONTENT (ANNEXURE C)

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

1.1 Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa, 1996 (Constitution), and further expressed in the various applicable legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

1.2 If a person is listed in the Register for Tender Defaulters and/or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. DECLARATION ON EMPLOYMENT BY ORGAN OF STATE

2.1 Is the bidder, or any of the directors / trustees / shareholders / members / partners of the bidder employed by an organ of state, as defined in section 239 of the Constitution? **YES/NO**

2.2 If YES, furnish particulars of the names, individual identity numbers, in the table below:

Full Name	**Identity Number**	**Name of organ of state**

2.3 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.3.1 If so, furnish particulars:

……
……
……

2.4 Does the bidder or any of its directors/trustees/shareholders members/partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise, whether or not they are bidding for this contract?

YES/NO

2.4.1 If so, indicate all companies registered in the CSD in the table below:

Supplier registration number (MAAA)	**Status (active/inactive/deleted)**

Failure to disclose all CSD-registered active companies linked to all Directors will lead to disqualification**.**

3 GENERAL DECLARATION

I, ……....., the undersigned, in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

3.1 I have read and I understand the contents of this disclosure.

3.2 I understand that the accompanying bid will be disqualified if this disclosure is found to be false.

3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor.

3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.

3.5 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

3.6 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide

clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

3.7 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act, 1998 (Act No. 89 of 1998) and or may be referred to law enforcement agencies for criminal investigation and or may be restricted from conducting business with the state for a period not exceeding 10 years in terms of the Prevention and Combating of Corrupt Activities Act, 2004 (Act No. 12 of 2004) or any other applicable legislation.

I CERTIFY THAT THE ABOVE IS CORRECT.

I ACCEPT THAT THE PROCURING INSTITUTION MAY REJECT THE BID OR TAKE APPROPRIATE ACTION AGAINST ME IF THIS DECLARATION IS FALSE.

…… ……
Signature Date

…… ……...
Designation Name of bidder

SBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

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

1.2 **To be completed by the organ of state**

(*delete whichever is not applicable for this tender*).

a) The applicable preference point system for this tender is the 80/20 preference point system.

b) The 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

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

(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

3.1. POINTS AWARDED FOR PRICE

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

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

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

$$Ps = 80\left(1 - \frac{Pt - P\,min}{P\,min}\right) \text{ or } \quad Ps = 90\left(1 - \frac{Pt - P\,min}{P\,min}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

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

3.2.1. **POINTS AWARDED FOR PRICE**

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

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

$$Ps = 80\left(1 + \frac{Pt - P\,max}{P\,max}\right) \text{ or } \quad Ps = 90\left(1 + \frac{Pt - P\,max}{Pmax}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1. 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:

4.2. 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	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Women Ownership	**5**	
Disability Ownership	**5**	
Youth Ownership	**5**	
Location of enterprise (local equals province) Western Cape	**2**	
B-BBEE status level contribution from level 1 to 2 which are QSE or EME	**3**	
TOTAL SCORED POINTS	**20**	

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm…….

4.4. Company registration number: ……...

4.5. TYPE OF COMPANY/ FIRM

- ϒ Partnership/Joint Venture / Consortium
- ϒ One-person business/sole propriety
- ϒ Close corporation
- ϒ Public Company
- ϒ Personal Liability Company
- ϒ (Pty) Limited
- ϒ Non-Profit Company
- ϒ State Owned Company

[TICK APPLICABLE BOX]

, 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 1.4 and 4.2, the contractor 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 contractor, 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.

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME: .....
DATE: .....

ADDRESS: .....

.....

.....

.....

PREFERENCING SCHEDULE IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

NB: BEFORE COMPLETING THIS FORMS, TENDERERS MUST STUDY THE GENERAL CONDITIONS, BIDDERS MUST STUDY THE CONDITIONS: DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1 Preference

Preferences shall be granted in respect of the following:

1.1 Ownership by women, people with disabilities and youth

The percentage shareholding of an enterprise as at the closing time for submissions of natural persons who are women, people with disabilities or youth as evidenced by:

a) voting rights that are not subject to any limitation; and

b) economic interest.

where
people with disabilities are people who have a long-term or recurring physical or, mental, intellectual or sensory impairment which, in interaction with various barriers, may substantially limit their prospects of entry into, or advancement in, employment

youth are people aged between 14 and 35

1.2 Local enterprise

An enterprise which operates from a building together with its land and outbuildings located within the boundaries of the. Western Cape Province as at the closing time for submissions.

1.2 B-BBEE status level contributors from level 1 or level 2 who are Exempted Micro Enterprises or Qualifying Small Enterprises

The status of an enterprise is measured in accordance with the provisions of **an applicable code of good practice** issued in terms of Section 9(1) of the B-BBEE Act of 2003 at the closing time for submissions.

Note: The Construction Sector Code applies to the B-BBEE compliance measurement of all entities that fall within the Construction Sector i.e. all enterprises that derive more than 50% of their annual Revenue from Construction Related Activities.

2 Conditions associated with the granting of preferences

Tenderers who claim a preference shall provide in support of their claim the following in relation to their claim, failing which their claims for preferences will be rejected:

Preference applied for	**Verification document**
Ownership by women	Completed Percentage Ownership Affidavit (Annexure 1)
Ownership by people with disabilities	
Ownership by youth	
Location of enterprise	Completed Location of enterprise affidavit (Annexure 2) and proof of ownership of premises or a valid rental agreement with the owner of such premises
B-BBEE status level of contributor	B-BBEE Verification Certificates issued by a verification agency accredited by the South African National Accreditation System (SANAS) (see www.sanas.co.za/Pages/index.aspx) or, in the case of an Exempted Micro Enterprise or a Qualifying Small Enterprise, if permitted in terms of the relevant code, a duly completed sworn affidavit on the relevant and appropriate form obtained from one the following websites: ○ www.thedtic.gov.za/wp-content/uploads/BEE_Affidavit-QSE-Gen.pdf ○ www.thedtic.gov.za/wp-content/uploads/BEE_Affidavit-EME-Gen.pdf ○ www.abp.org.za/wp-content/uploads/2018/03/Final-CSC-EME-Affidavit-March-2018-2.pdf

3 Preferences points offered and claimed

The preference points offered by the Employer in accordance with the provisions of the Preferential Procurement Policy Framework Act of 2022 and claimed by the tenderer are as follows:

Preference claimed		**Number of preference points allocation**		**Preference claimed** (tick relevant block)
		90/10 preference points system	**80/20 preference points system**	
Ownership	by women	Up to 2	Up to 5	
	by people with disabilities	Up to 2	Up to 5	
	by youth	Up to 2	Up to 5	
Location of enterprise	*[Western Cape Province]*		2	
B-BBEE status	Level 1 or level 2 contributors who are Exempted Micro Enterprises or Qualifying Small Enterprises	3	3	

where points claimed for ownership are calculated separately for each type of ownership in terms of the following formula:

90 / 10 preference points system: NO = 2 x PS / 100
80 / 20 preference points system: NO = 5 x PS / 100

were

NO = number of points awarded to tenderer claiming a preference for ownership by women, people with disabilities or youth

PS = percentage shareholding by women, people with disabilities or youth as declared in the Percentage Ownership Affidavit

4 Declaration

The undersigned, who warrants that he/she is duly authorised to do so on behalf of the tenderer, confirms that he/she understands the conditions under which such preferences are granted and confirms that the tenderer satisfies the conditions pertaining to the granting of tender preferences which are claimed.

Signature: .....

Name: .....

Duly authorised to sign on behalf of: .....

Telephone: ..... Date: .....

Name of witness: ..... Signature of witness: .....

Note: Failure to complete the declaration will lead to the rejection of a claim for a preference.

ANNEXURE 1: Percentage Ownership Affidavit

I, the undersigned,

full name and surname . . . . . .

identity number . . . .

hereby declare under oath that

1) I am a member / director / owner of the enterprise:

name: . . . .

trading name, if applicable . . . . . .

registration number: . . . .

physical address: . . . .

. . . . . .

in which the following natural persons who are women, people with disabilities or youth at the time of the tender submission have

a) voting rights that are not subject to any limitation; and

b) economic interest.

as indicated below

Name	Economic interest (%)			Identity number
	Women	People with disabilities	Youth	

Where:

people with disabilities are people who have a long-term or recurring physical or, mental, intellectual or sensory impairment which, in interaction with various barriers, may substantially limit their prospects of entry into, or advancement in, employment

Note: The Code of Good Practice on Employment of Persons with Disabilities (2015) considers "substantially limit" as "*if in its nature, duration or effects it substantially limits the person's ability to perform the essential functions of the job for which they are being considered"* and points out that *"some impairments"* are so easily controlled, corrected or lessened that they have no limiting effects.

youth are people aged between 14 and 35

2) the contents of this statement are to the best of my knowledge a true reflection of the facts;

3) I know and understand the contents of the affidavit, and I have no objection to take the prescribed oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.

Deponent signature: **Date:**

Commissioner of oaths
Signature and stamp

Annexure 2: Location of enterprise affidavit

I, the undersigned,

full name and surname . . . . . .

identity number . . . .

hereby declare under oath that

1) I am a member / director / owner of the enterprise:

   name : . . . .

   trading name, if applicable . . . .

   registration number: . . . . . .

   physical address: . . . . . .

   . . . . . .

   which is an enterprise which operates from a building together with its land and outbuildings located within the boundaries of the Western Cape Province as at the closing time for submissions;

2) the contents of this statement are to the best of my knowledge a true reflection of the facts;

3) I know and understand the contents of the affidavit and I have no objection to take the prescribed oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.

Attach proof of ownership of premises or a valid rental agreement with the owner of such premises

Deponent signature: **Date:**

Commissioner of oaths
Signature and stamp

Annex C

Local Content Declaration - Summary Schedule

(C1)	Tender No.
(C2)	Tender description:
(C3)	Designated product(s)
(C4)	Tender Authority:
(C5)	Tendering Entity name:
(C6)	Tender Exchange Rate:
(C7)	Specified local content %

Note: VAT to be excluded from all calculations

Pula EU GBP

Calculation of local content								Tender summary			
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)

(C20) Total tender value	R 0	
(C21) Total Exempt imported content		R 0
(C22) Total Tender value net of exempt imported content		R 0
(C23) Total Imported content		R 0
(C24) Total local content		R 0
(C25) Average local content % of tender		

Signature of tenderer from Annex B

Date: _____

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0614 CS

SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH.

SECTION 2: CONDITIONS OF CONTRACT

CONTENTS

1. THE NATIONAL TREASURY - GENERAL CONDITIONS OF CONTRACT (NT GCC)
2. SPECIAL CONDITIONS OF CONTRACT

CONDITIONS OF CONTRACT

1. NATIONAL TREASUARY - GENERAL CONDITIONS OF CONTRACT (NTGCC)

The Contract shall be governed by: “National Treasury - General Conditions of Contract”, which is attached to this bid document.

The only variations from these National Treasury - General Conditions of Contract (NTGCC) shall be given in the Special conditions of Contract below.

THE NATIONAL TREASURY

Republic of South Africa



GOVERNMENT PROCUREMENT:

GENERAL CONDITIONS OF CONTRACT

July 2010

GOVERNMENT PROCUREMENT

GENERAL CONDITIONS OF CONTRACT
July 2010

NOTES

The purpose of this document is to:

(i) Draw special attention to certain general conditions applicable to government bids, contracts and orders; and
(ii) To ensure that clients be familiar with regard to the rights and obligations of all parties involved in doing business with government.

In this document words in the singular also mean in the plural and vice versa and words in the masculine also mean in the feminine and neuter.

- The General Conditions of Contract will form part of all bid documents and may not be amended.

- Special Conditions of Contract (SCC) relevant to a specific bid, should be compiled separately for every bid (if (applicable) and will supplement the General Conditions of Contract. Whenever there is a conflict, the provisions in the SCC shall prevail.

TABLE OF CLAUSES

1. Definitions
2. Application
3. General
4. Standards
5. Use of contract documents and information; inspection
6. Patent rights
7. Performance security
8. Inspections, tests and analysis
9. Packing
10. Delivery and documents
11. Insurance
12. Transportation
13. Incidental services
14. Spare parts
15. Warranty
16. Payment
17. Prices
18. Contract amendments
19. Assignment
20. Subcontracts
21. Delays in the supplier’s performance
22. Penalties
23. Termination for default
24. Dumping and countervailing duties
25. Force Majeure
26. Termination for insolvency
27. Settlement of disputes
28. Limitation of liability
29. Governing language
30. Applicable law
31. Notices
32. Taxes and duties
33. National Industrial Participation Programme (NIPP)
34. Prohibition of restrictive practices

General Conditions of Contract

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 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 where an enterprise abroad is subsidized 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 recognized 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 of 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 consignees store or to his site” means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.

1.11. "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.

1.12. ”Force majeure” means an event beyond the control of the supplier and not involving the supplier’s fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

1.13. “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 organization 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 purposes of such performance.

5.2. The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.

5.3. Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.

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

6. Patent rights

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

7. Performance security

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

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

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

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

(b) a cashier's or certified cheque

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

8.3. If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.

8.4. If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the 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 analyzed 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 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 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 SCC.

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

(a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;

(b) furnishing of tools required for assembly and/or maintenance of the supplied goods;

(c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;

(d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and

(e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2. Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

14.1. As specified in 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 twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the

contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

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

15.4. Upon receipt of such notice, the supplier shall, within the period specified in 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 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 SCC.

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

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

16.4. Payment will be made in Rand unless otherwise stipulated in 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 quoted by the supplier in his bid, with the exception of any price adjustments authorized in 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 these contracts if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

21.1. Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.

21.2. If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, it's likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.

21.3. 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 or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the 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 fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the 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 five (5) 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, No. 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 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 antidumping 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 subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the 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 delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him

25. Force Majeure

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

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

26. Termination for insolvency

26.1. The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

27.1. If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

27.2. If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.

27.3. Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.

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

32.2. A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.

32.3. No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid 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 No. 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 No. 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 ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

2. SPECIAL CONDITIONS OF CONTRACT

Item	Sub-Clause	Data
Application	2.2	Additional specifications follow from clause 35 below.
Performance Security	7.1 7.4	No performance security is required.
Packing	9.2	The material will be transported in suitable vehicles.
Delivery and documents	10.1	Each consignment will be delivered to the designated store yard at the site, accompanied by the necessary data sheets and delivery documents, stating the tender number, item description and quantity delivered.
	10.2	These documents will be signed on delivery by a designated person. A copy of the delivery note will be provided to the designated person.
Insurance	11.1	It is the supplier's responsibility to be fully insured against loss or damage incidental to manufacture or acquisition and transportation till it is delivered to site.
Transportation	12.1	Delivery is priced separately.
Incidental services	13.1	Client will assist with personnel and hydraulic crane to offload material if required (to be considered by bidder when pricing).
Spare parts	14.1	Not applicable.
Payment	16.1	Payment will be made once every month. An original Tax Invoice clearly stating the items and quantities delivered will be provided to the client. Payment will be done within 30 days of receipt of the approved Tax Invoice by depositing the payment directly into the bank account of the successful bidder. No cash payment will be done.
	16.4	Payment will be made in Rand.
Prices	17.1	No price adjustments will be considered.
Settlement of Disputes	27.4	Mediation proceedings shall be conducted in accordance with the rules of arbitration.
Additional Special conditions	35	Refer to Section 3 - Specification

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0614 CS

SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH.

SECTION 3: SPECIFICATIONS

CONTENTS

3.1 STANDARD SPECIFICATIONS

3.2 PROJECT SPECIFICATION

3.2.1 DESCRIPTION OF THE PROJECT

3.2.2 LOCATION AND ACCESS TO SITE

3.2.3 ROAD CONDITIONS AND DISTANCE

3.2.4 SERVICE REQUIRED

3.2.5 QUANTITIES

3.2.6 DELIVERY

3.2.7 PENALTY FOR LATE DELIVERY

3.2.8 PACKAGING

3.2.9 TRANSPORTATION

3.2.10 BIDDER'S VEHICLES

3.2.11 PAYMENTS

3.2.12 COSTS

3.2.13 SAFETY, HEALTH AND ENVIRONMENTAL

3.2.14 TECHNICAL INFORMATION

3.1 **3.2STANDARD SPECIFICATIONS**

APPLICABLE STANDARD SPECIFICATIONS

In the event of any discrepancy between a part or parts of the National Treasury General Conditions of Contract or Standard specifications and the Project Specifications, the Project Specifications shall take precedence.

The applicable standard specifications are mentioned in the Project Specification.

3.2 PROJECT SPECIFICATION

3.2.1 DESCRIPTION OF THE PROJECT

The Department of Water and Sanitation's Construction South Division has been appointed to undertake the raising of the Clanwilliam Dam.

The raised dam wall will be approximately 370 m in length and 49 m in maximum height. At full supply level the reservoir will cover a surface area of approximately 2 022 ha and capacity of 344,3 million cubic metre

The works include addition of concrete on the downstream side, extending the apron, construction of a free-standing intake tower, river outlet control house, various valve chambers, short tunnel and coffer dam works on the upstream side, as well as various other pipe outlet structures on the downstream side. This work must be done without interfering with the day-to-day operation of the dam.

Stainless steel pipes will be installed to convey water from upstream to downstream. These pipes will be welded. This tender is for the procurement gas to conduct the welding as per welding procedure.

3.2.2 LOCATION AND ACCESS TO SITE

The dam site is situated on the Olifants River, in the Western Cape, approximately 2 km South- West of Clanwilliam town in the Western Cape Province.

The site is immediately next to the N7 and accessed through a controlled gate. The gravel site roads will be regularly maintained but could get challenging under abnormal rainfall conditions.

Directions to Site:

- From Cape Town International Airport: Take N2 freeway towards Cape Town
- Take exit 14 for M7/ Vanguard Drive
- Turn right onto Vanguard Dr
- Continue onto N7 for about 230 km
- The dam will be on the right about 2 km south of the town of Clanwilliam Dam in the Olifants River

Bidders are advised to acquaint themselves with roads, road conditions, distances, etc. on and to the site, before bidding.

3.2.3 ROAD CONDITIONS

Bidders are advised to acquaint themselves with roads, road conditions, distances, etc. on and to the site, before bidding.

3.2.4 SERVICE REQUIRED

The service required is for the **SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH** up to a threshold of R999 999.99 Incl. vat.

3.2.5 QUANTITIES

The quantities are estimates only and subject to change on re-measuring during the execution of the work. Orders will be placed as and when requirements become known. No price adjustments or claims will be allowed for or entertained due to a change in total quantities.

Note: The Department reserves the right to purchase only one or more items as required.

3.2.6 DELIVERY

The successful bidder to provide the Department with a delivery schedule within 5 working days of accepting the BID. The delivery of the material must commence within 10 working days of placement of the first order issued by DWS.

Note: All communication, requests and instructions to and from the Bidder will be managed by a designated person.

The delivery point is at the DWS Construction South - Clanwilliam Dam Construction Site Offices.

Deliveries may be made during working hours: 08h00 to 15h00, but not on the following days or periods:

(i) Saturdays and Sundays.

(ii) All public holidays.

(iii) The period 11 December to 9 January.

(iv) The last Friday of every month, unless otherwise agreed before delivery.

The Successful Bidder shall make available a designated contact person with whom the Department will arrange and schedule supply and delivery of the material.

The Department will decline products that do not comply with the specification and load(s) will not be accepted and will not be paid for. The declined load(s) must be removed from site ASAP for the Successful Bidders own cost.

3.2.7 PENALTY FOR LATE DELIVERY

If the Bidder fails to supply the goods or render the service within the period stipulated in the contract, the Department shall have the right, in its sole discretion to deduct as a penalty as described in paragraph 22 of National Treasury General Conditions of Contract (NTGCC).

3.2.8 PACKAGING

All materials will be safely packed for transportation.

3.2.9 TRANSPORTATION

All transportation cost of materials to be included in the delivery pricing

3.2.10 BIDDER'S VEHICLES

The delivery vehicles will be roadworthy, in a good condition and fit for purpose.

The Department will have the right to instruct the Successful Bidder to repair or replace a vehicle which is considered unsuitable for the transporting of the material.

3.2.11 PAYMENT

Payments will be made monthly on receipt of specified approved tax invoices.

Payment will not be made for consignment unless supported by delivery notes duly signed by the designated official checking the delivery.

No escalation will be considered.

Payment will be done within 30 days of receipt and approval of original invoice by depositing the payment directly into the bank account of the Successful Bidder. No cash payment or cheque payment will be done.

3.2.12 COSTS

All-inclusive bid prices are required including any other cost mentioned in the specification for the Bidders account must be included in the unit price. Delivery is priced separately and all bid prices should be market related.

Bidders shall provide in their bid for all labour, plant, material, implements and vehicles necessary for the execution of the contract and all operating and maintenance costs in accordance with the bid documents.

3.2.13 SAFETY, HEALTH AND ENVIRONMENTAL

The successful bidder will be required to adhere to the site-specific Health, Safety and Environmental requirements while on site.

3.2.14 TECHNICAL INFORMATION

The below table details the technical requirements for the materials required for this bid. The Bidder shall confirm that he has familiarized himself with the specification and complies with said requirements by indicating as such for each item in the table below by **initialling in the relevant column**.

Item	Short Description	Specification / Requirements	Do the items priced in the pricing schedule comply with the indicated specification/requirement?	
			Comply	Not Comply
1	**Flux Cored Select Alloy 308L-AP**	Must comply to the attached welding procedures DWAS-004 and DWAS-005. See annexture A. Welding Process: Flux core arch welding (FCAC) Material to be welded: Stainless Steel 304L Wire diameter: 1.2mm Packaging size: 15 to 16kg Classification: • AWS A5.22 – E308LT1-1 • AWS A5.22 – E308LT1-4 • AWS A5.22 – E308T1-1 • AWS A5.22 – E308T1-4 • ASME SFA 5.22 – E308LT1-1 • ASME SFA 5.22 – E308LT1-4 • ASME SFA 5.22 – E308T1-1 • ASME SFA 5.22 – E308T1-4 Must be deigned to weld in all positions Polarity: Direct current electrode positive (DCRP) Mechanical properties (with shield gas of 75% Ar / 25% CO2): • Tensile strength: greater than 575 MPa • Yield strength: greater than 395 MPa		

Item	Short Description	Specification / Requirements	Do the items priced in the pricing schedule comply with the indicated specification/requirement?	
			Comply	Not Comply
2	**Flux Cored SelectAlloy 316L-AP BF**	Must comply to the attached welding procedures DWAS-008 and DWAS-009. See annexture A. Welding Process: Flux core arch welding (FCAC) Material to be welded: Stainless Steel 316L Wire diameter: 1.2mm Packaging size: 15 to 16kg Classification: • AWS A5.22 – E316LT1-1 • AWS A5.22 – E316LT1-4 • AWS A5.22 – E316T1-1 • AWS A5.22 – E316T1-4 • ASME SFA 5.22 – E316LT1-1 • ASME SFA 5.22 – E316LT1-4 • ASME SFA 5.22 – E316T1-1 • ASME SFA 5.22 – E316T1-4 Must be deigned to weld in all positions Polarity: Direct current electrode positive (DCRP) Mechanical properties (with shield gas of 75% Ar / 25% CO2): • Tensile strength: greater than 595 MPa • Yield strength: greater than 425 MPa		
3	**Afrox or equivalent, Stainless Steel 316L, 2.5mm**	Must comply to the attached welding procedure DWAS-006. See annexture A. Welding Process: Shielded Metal Arch Welding (SMAC) or Manual Metal Arch Welding (MMA) Material to be welded: Stainless Steel 316L or 304L Low carbon 19% chromium 12% nickel and 3% molybdenum rutile basic coated electrode. Diameter: 2.5mm Packaging size: 1 to 4kg		

Item	Short Description	Specification / Requirements	Do the items priced in the pricing schedule comply with the indicated specification/requirement?	
			Comply	Not Comply
4	**Afrox or equivalent, Stainless Steel 316L, 3.2mm**	Must comply to the attached welding procedure DWAS-006. See annexture A. Welding Process: Shielded Metal Arch Welding (SMAC) or Manual Metal Arch Welding (MMA) Material to be welded: Stainless Steel 316L or 304L Low carbon 19% chromium 12% nickel and 3% molybdenum rutile basic coated electrode. Diameter: 2.5mm Packaging size: 1 to 4kg		
5	**Afrox or equivalent, TIG 316L, 1.6mm**	Must comply to the attached welding procedures DWAS-006, DWAS-007 and DWAS-009. See annexture A. Welding Process: Gas Tungsten Arch Welding (GTAC) or Tungsten Inherit Gas (TIG) Material to be welded: Stainless Steel 316L Classification AWS A5.9 ER316L Diameter: 1.6mm Packaging size: 5kg		
6	**Afrox or equivalent, TIG 316L, 2.4mm**	Must comply to the attached welding procedures DWAS-006, DWAS-007 and DWAS-009. See annexture A. Welding Process: Gas Tungsten Arch Welding (GTAC) or Tungsten Inherit Gas (TIG) Material to be welded: Stainless Steel 316L Classification AWS A5.9 ER316L Diameter: 1.6mm Packaging size: 5kg		

Item	Short Description	Specification / Requirements	Do the items priced in the pricing schedule comply with the indicated specification/requirement?	
			Comply	Not Comply
7	**Afrox or equivalent, Fluxofil 14 HD, Flux-cored wire, seamless, copper coated, mild steel, rutile**	Must comply to the attached welding procedures DWAS-001 and DWAS-002. See annexture A. Type: Seamless, rutile-cored wire for unalloyed and carbon-manganese (C-Mn) steels Welding Process: Flux Core Arch Welding (FCAC) Material to be welded: Mild Steel Wire diameter: 1.2mm Packaging size: 15 to 16kg Must be deigned to be able to weld in all positions Classifications: • EN ISO 17632-A • EN ISO 17632-B: • AWS A5.20		
8	**Afrox or equivalent, Transarc 7018-1, 2.5mm**	Welding Process: Shielded Metal Arch Welding (SMAC) or Manual Metal Arch Welding (MMA) Material to be welded: Mild Steel Iron-powder low hydrogen type electrode Must be deigned to weld in all positions of 490 MPa high tensile steel. Must be designed for single and multiple pass applications. Must produce a stable arc with low spatter generation. Diameter: 2.5mm Packaging size: 4 to 5kg		
9	**Afrox or equivalent, Transarc 7018-1, 3.2mm**	Must comply to the attached welding procedure DWAS-003. See annexture A. Welding Process: Shielded Metal Arch Welding (SMAC) or Manual Metal Arch Welding (MMA) Material to be welded: Mild Steel Iron-powder low hydrogen type electrode Must be deigned to weld in all positions of 490 MPa high tensile steel. Must be designed for single and multiple pass applications. Must produce a stable arc with low spatter generation. Diameter: 3.2mm Packaging size: 4 to 5kg		

Item	Short Description	Specification / Requirements	Do the items priced in the pricing schedule comply with the indicated specification/requirement?	
			Comply	Not Comply
10	**Afrox or equivalent, Transarc 7018-1, 4mm**	Must comply to the attached welding procedure DWAS-003. See annexture A. Welding Process: Shielded Metal Arch Welding (SMAC) or Manual Metal Arch Welding (MMA) Material to be welded: Mild Steel Iron-powder low hydrogen type electrode Must be deigned to weld in all positions of 490 MPa high tensile steel. Must be designed for single and multiple pass applications. Must produce a stable arc with low spatter generation. Diameter: 4mm Packaging size: 4 to 5kg		
11	**Afrox or equivalent, TIG 70S-6, 1.6mm**	Welding Process: Gas Tungsten Arch Welding (GTAC) or Tungsten Inherit Gas (TIG) Material to be welded: Mild Steel Copper coated deoxidised rod. Diameter: 1.6mm Packaging size: 5kg		
12	**Afrox or equivalent, TIG 70S-6, 2.4mm**	Must comply to the attached welding procedures DWAS-002 and DWAS-003. See annexture A. Welding Process: Gas Tungsten Arch Welding (GTAC) or Tungsten Inherit Gas (TIG) Material to be welded: Mild Steel Copper coated deoxidised rod. Diameter: 2.4mm Packaging size: 5kg		
13	**Gullca, Katbak, Ceramic weld backing, 1G42-R**	Must comply to the attached welding procedures DWAS-005 and DWAS-008. See annexture A. Ceramic weld backing will be used on the inside of pipes as weld backing. The Ceramic weld backing must be able to conform to the curve of the pipe. Must be designed for flux core welding, MIG and TIG welding processes. Ceramic weld backing must be cantered on 90-110mm wide heat receptive pressure sensitive coated aluminium foil.		

Item	Short Description	Specification / Requirements	Do the items priced in the pricing schedule comply with the indicated specification/requirement?	
			Comply	Not Comply
14	**MIG Wire 70S-6 ER70S, 1mm**	Welding Process: Gas Metal Arch Welding (GMAC) or Metal Inherit Gas (MIG) Material to be welded: Mild Steel Classification: AWS A5.18 Welding positions: All position Material welded: mild steel welding wire Shielding gas: Co2 and/or Argon/Co2 mix Diameter: 1mm Packaging size: 14-18kg		
15	**MIG Wire 70S-6 ER70S, 1.2mm**	Welding Process: Gas Metal Arch Welding (GMAC) or Metal Inherit Gas (MIG) Material to be welded: Mild Steel Classification: AWS A5.18 Welding positions: All position Material welded: mild steel welding wire Shielding gas: Co2 and/or Argon/Co2 mix Diameter: 1.2mm Packaging size: 14-18kg		
16	**Bronze Brazing Bare, 2mm**	Welding Process: Oxy-Acetylene Welding (OAW) AWS A5.27 R CuZn-C Diameter: 2mm Packaging size: 5kg		
17	**Cast Iron Electrode 55 ENiFE-Cl, 3.2mm**	Welding Process: Shielded Metal Arch Welding (SMAC) or Manual Metal Arch Welding (MMA) Material to be welded: Cast Iron Diameter: 3.2mm Packaging size: 1kg		

Item	Short Description	Specification / Requirements	Do the items priced in the pricing schedule comply with the indicated specification/requirement?	
			Comply	Not Comply
18	**TIG tungsten electrodes - Lanthanated (Blue tip)**	Classification ISO 6848 - EWLa-2/WLa 20 Diameter: 2.4mm Tungsten electrode designed for TIG welding applications. 2% lanthanated composition		
19	**TIG tungsten electrodes - Thoriated (Red tip)**	Classification ISO 6848 - EWTh-2/WT20 Diameter: 2.4mm Packaging size: 10 units per pack Tungsten electrode designed for TIG welding applications. Enhanced with 2% thorium		
20	**Stainless Steel Cutting Disc for Angle Grinder, 115x1.0x22.2mm**	Must be INOX rated. High Performance		
21	**Stainless Steel Cutting Disc for Angle Grinder, 115x3.0x22.2mm**	Must be INOX rated. High Performance		
22	**Stainless Steel Cutting Disc for Angle Grinder, 230x1.0x22.2mm**	Must be INOX rated. High Performance		
23	**Carbon steel (Industrial) cutting discs, 115mm x 2.5 x 22.2mm**	Use with angle grinder. Heavy-duty industrial metal cutting or professional-grade abrasive cutting engineered for high-performance edge cutting		
24	**Carbon steel (Industrial) cutting discs, 230mm x 3.0 x 22.2mm**	Use with angle grinder. Heavy-duty industrial metal cutting or professional-grade abrasive cutting engineered for high-performance edge cutting		
25	**Carbon steel (Industrial) cutting discs, 350mm x 3.0 x 25.4mm**	Use with stationery machine. Heavy-duty industrial metal cutting or professional-grade abrasive cutting engineered for high-performance edge cutting		

Item	Short Description	Specification / Requirements	Do the items priced in the pricing schedule comply with the indicated specification/requirement?	
			Comply	Not Comply
26	**Carbon steel industrial grinding discs, 115mm x 6 x 22.2mm**	Use with angle grinder. Heavy-duty industrial metal grinding or professional-grade abrasive grinding		
27	**Carbon steel industrial grinding discs, 230mm x 6 x 22.2mm**	Use with angle grinder. Heavy-duty industrial metal grinding or professional-grade abrasive grinding		
28	**Allowance for welding material (cost price)**	A fixed provisional amount has been allocated in the tender for the procurement of welding materials. The exact type, specification and quantities of all welding materials required are not known at the time of tender. The Supplier shall only procure welding materials once the specific requirements have been confirmed and instructed by the Client. Prior to procurement, the Supplier shall obtain and submit three (3) competitive quotations from suppliers for the required welding materials for the Client's consideration. Procurement shall only proceed upon receipt of the Client's prior written approval of one of the submitted quotations. The Supplier shall be reimbursed for the actual approved cost price of the welding materials procured, upon submission of the relevant supplier invoices and supporting documentation.		

Item	Short Description	Specification / Requirements	Do the items priced in the pricing schedule comply with the indicated specification/requirement?	
			Comply	Not Comply
28	**Allowance for welding material (cost price) – (Continued)**	The cost price shall be based on the net invoiced amount, after deduction of all applicable discounts, rebates and credits, and shall exclude VAT. VAT shall be treated separately in accordance with applicable legislation. No additional mark-up, profit, handling fees or other procurement-related charges shall be included in the amount claimed under this item. The Supplier's mark-up shall be calculated and claimed separately under Item 29. Claims under this item shall be limited to the allocated provisional allowance. Any expenditure exceeding the allocated amount shall require the Client's prior written approval before the Supplier commits to such expenditure. Client reserves the right to reject all three quotations if they are considered unreasonable or not commercially competitive.		
29	**Fixed percentage mark-up (item 28)**	The Bidder shall enter a fixed percentage mark-up (%) to be applied to the actual approved net cost price of welding materials procured under Item 28. The percentage mark-up entered by the Bidder shall remain fixed for the duration of the contract and shall not be subject to escalation or adjustment.		

Item	Short Description	Specification / Requirements	Do the items priced in the pricing schedule comply with the indicated specification/requirement?	
			Comply	Not Comply
29	**Fixed percentage mark-up (item 28)**	The mark-up shall be calculated on the actual approved net cost price of the materials, excluding VAT and after deduction of all applicable discounts, rebates and credits. The percentage mark-up shall be deemed to include all overheads, handling, administration, procurement and other costs associated with the sourcing and procurement of the materials. No additional profit, mark-up, handling fees or procurement-related charges shall be payable over and above the percentage mark-up tendered under this item. The mark-up shall be claimed separately from the material cost under Item 28 and shall only be payable in respect of materials actually procured, delivered and accepted by the Client.		
30	**Delivery to site**	Include all costs associated with delivery, including but not limited to: • Packing. • Loading • Transport • Unloading; the *Client* can make a crane / forklift available on a 3-day (prior to planned delivery) notification from the *Supplier*. Please take note that the *Supplier* is responsible for the items up to delivery and signature by the *Client* on delivery note from the *Supplier* on site. Any damage during delivery to site is for the *Supplier's* account. No payment will be made without including a singed delivery note with the invoice. The *Client* will not be held liable for any handling damage.		

BIDDERS MUST INITIAL ALL PAGES UNDER SECTION 3 SPECIFICATIONS AND SIGN THE DECLARATION BELOW.

Therewith I, _____ (Bidder's Name) declare that I have read, completed and understood the above specifications and that I comply.

Furthermore, I declare that the Technical Datasheets/Brochures submitted under the administrative requirements (Phase 2) of this bid will be the items that the bidder will deliver.

_____
BIDDER'S SIGNATURE

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0614 CS

SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH.

SECTION 4: SBD 3.1 – PRICING SCHEDULE

CONTENTS

PRICING INSTRUCTIONS

SBD 3.1 – PRICING SCHEDULE

PREAMBLE TO THE SBD 3.1 – PRICING SCHEDULE

1. GENERAL

The Schedule of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all the other documents comprising the Contract Documents which include the Conditions of Tender, Conditions of Contract, the Specifications (including the Project Specification) and the Drawings.

2. DESCRIPTION OF ITEMS IN THE SCHEDULE

The Schedule of Quantities has been drawn up generally in accordance with Civil Engineering Quantities 1990 issued by the SA Institution of Civil Engineers.

The short descriptions of the items in the Schedule of Quantities are for identification purposes only and the measurement and payment clause of the Standardised Specifications and each Particular Specification, read together with the relevant clauses of the Project Specification and directives on the drawings, set out what ancillary or associated work and activities are included in the rates for the operations specified.

3. QUANTITIES REFLECTED IN THE SCHEDULE

The quantities given in the Schedule of Quantities are estimates only, and subject to remeasuring during the execution of the work. Where quantities or sums are indicated as "Provisional, the Employer reserves the right to adjust the quantity or sum upwards or downwards as necessary, or the item can be omitted altogether. The Contractor shall obtain the Engineer's detailed instructions for all work before ordering any materials or executing work or making arrangements for it.

The Works as finally completed in accordance with the Contract shall be measured and paid for as specified in the Schedule of Quantities and in accordance with the General and Special Conditions of Contract, the Specifications and Project Specifications and the Drawings. Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste.

The validity of the contract will in no way be affected by differences between the quantities in the Schedule of Quantities and the quantities finally certified for payment.

4. PRICING OF THE SCHEDULE

The prices and rates to be inserted in the Schedule of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the several items, and shall include full compensation for all costs and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based.

Each item shall be priced and extended to the "Total" column by the Tenderer. If the Contractor omits to price any items in the Schedule of Quantities, then these items will be Considered to have a nil rate or price.

All items for which terminology such as "inclusive" or "not applicable" have been added by the Tenderer will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

All rates and amounts quoted in the Schedule of Quantities shall be in Rand and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Schedule of Quantities.

5. CORRECTION OF ENTRIES

Incorrect entries shall not be erased or obliterated with correction fluid, use of correction fluid will invalidate your bid, but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialled by the Bidder, failure to initial where the correction was done will invalidate your bid.

6. MONTHLY PAYMENTS

Unless otherwise specified in the Specifications and Project Specifications, progress payments in Interim Certificates, referred to in Clause 16 of the National Treasury General Conditions of Contract, July 2010, in respect of "sum" items in the Schedule of Quantities shall be by means of interim progress instalments assessed by the Employers Agent and based on the measure in which the work actually carried out relates to the extent of the work to be done by the Contractor.

7. UNITS OF MEASUREMENT

The units of measurement described in the Schedule of Quantities are metric units for which the standard international abbreviations are used. Non-standard abbreviations which may appear in the Schedule of Quantities are as follows:

Non-Standard Abbreviations	
Abbreviation	Unit
%	Percent
No.	Number
Prov sum ; PS	Provisional sum
R/only ; R/o	Rate only
Sum, Lump sum	sum
W/day	Work day
h	Hour
wk	Week
d	Day
Standard Abbreviations	
kPa	kilopascal
mm	millimetre
m	metre
km	kilometre
m²	square metre
ha	hectare
m³	cubic metre
kN	Kilonewton
MN	meganewton
MN.m	meganewton-metre
MPa	megapascal
kg	kilogram
t	ton (1000 kg)

8. ARITHMETICAL ERRORS

Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.

Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with the evaluation criteria:

a) the gross misplacement of the decimal point in any unit rate,

b) omissions made in completing the pricing schedule or bill of quantities, or
c) arithmetical errors in

1) line item totals resulting from the product of a unit rate and a quantity in bill of quantities or schedules of prices, or
2) the summation of the prices.
Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.

Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:

d) If a bill of quantities or 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 quoted shall govern, and the unit rate shall be corrected.
e) 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 shall be asked to revise selected item prices (and their rates if bill of quantities apply) to achieve the tendered total of the prices.

A tender offer will be rejected if the tenderer does not correct or accept the correction of errors in the required manner stipulated above.

PRICING SCHEDULE
(Firm Price)

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0614 CS

SUPPLY AND DELIVERY OF WELDING CONSUMABLES FOR CLANWILLIAM DAM IN THE WESTERN CAPE FOR DWS CONSTRUCTION SOUTH.

THIS BILL OF QUANTITIES MUST BE COMPLETED IN FULL – FAILURE TO COMPLY WILL INVALIDATE YOUR BID.

OFFER TO BE VALID FOR 120 DAYS FROM CLOSING DATE OF BID

NOTE: NO PRICE ADJUSTMENTS WILL BE ALLOWED

NAME OF BIDDER: ……. **BID NO: WTE-0614 CS**

CLOSING DATE: 8 DECEMBER 2026 **CLOSING TIME: 11H00**

	Short Description	Unit	Provisional Qty	Bid Price (Excl. VAT)	Bid Amount (Excl. VAT)
1.	Flux Core, 308L, 1.2mm	kg	450	R……	R……
2.	Flux Core, 316L, 1.2mm	kg	30	R……	R……
3.	MMA Electrodes (Stick), 316L, 2.5mm	kg	20	R……	R……
4.	MMA Electrodes (Stick), 316L, 3.2mm	kg	20	R……	R……
5.	TIG Filler, 316L, 1.6mm	kg	20	R……	R……
6.	TIG Filler, 316L, 2.4mm	kg	15	R……	R……
7.	Flux Core, Mild Steel, 1.2mm	kg	48	R……	R……
8.	MMA Electrodes (Stick), Mild Steel, 2.5mm	kg	90	R……	R……
9.	MMA Electrodes (Stick), Mild Steel, 3.2mm	kg	90	R……	R……
10.	MMA Electrodes (Stick), Mild Steel, 4mm	kg	90	R……	R……
11.	TIG Filler, Mild Steel, 1.6mm	kg	10	R……	R……
12.	TIG Filler, Mild Steel, 2.4mm	kg	10	R……	R……
13.	Ceramic Backing	m	950	R……	R……
14.	Uniarcer 70S-6 ER70S 1mm	kg	90	R……	R……
15.	Uniarcer 70S-6 ER70S 1.2mm	kg	90	R……	R……
				Sub-Total	**R……**

	Short Description	Unit	Provisional Qty	Unit Price (Excl. VAT)	Bid Amount (Excl. VAT)
				Carried over	R……
16.	Bronze Brazing Bare	kg	5	R……	R……
17.	Cast Iron Electrode	kg	5	R……	R……
18.	TIG electrodes (Blue tip), 2.4mm	each	10	R……	R……
19.	TIG electrodes (Red tip), 2.4mm	each	10	R……	R……
20.	Stainless steel Cutting disc 115x1x22.2mm	each	100	R……	R……
21.	Stainless steel Cutting disc 115x2.4x22.2mm	each	100	R……	R……
22.	Stainless steel Cutting disc 230x3x22.2mm	each	100	R……	R……
23.	Steel Cutting disc 115x2.5x22.2mm	each	100	R……	R……
24.	Steel Cutting disc 230x3x22.2mm	each	100	R……	R……
25.	Steel Cutting disc 350x3x25.2mm	each	20	R……	R……
26.	Steel Grinding disc 115x6x22.2mm	each	100	R……	R……
27.	Steel Grinding disc 230x6x22.2mm	each	100	R……	R……
28.	Provisional Sum for welding consumables	Sum	1	R 80 000.00	R 80 000.00
29.	Fixed percentage mark-up (Item 28)	%	……%	R……	R……
30.	Delivery	Each	4	R……	R……
				TOTAL BID AMOUNT (Excluding VAT)	**R……**
				15% VAT	**R……**
				TOTAL BID AMOUNT (Including VAT)	**R……**

NOTE: ALL FIELDS ON THIS FORM SHOULD BE COMPLETED IN FULL. IF A FIELD IS NOT APPLICABLE, THE FIELD SHOULD BE INDICATED AS "NOT APPLICABLE".

THE DEPARTMENT OF WATER AND SANITATION WILL NOT ENTERTAIN ANY CLAIMS FOR NON-FIRM PRICES INCREASES CLAIMED AT A LATER DATE, UNLESS SUCH NON-FIRM PRICE ADJUSTMENTS ARE CLEARLY MOTIVATED IN THIS FORM.

- Required by: Construction South
- At (Place where service is required): Clanwilliam Dam

  Delivery basis. See note hereunder To Site

- **Period required for delivery after receipt of order**: **14 Days**……

- Delivery period: * FIRM / **(12 MONTHS)**

AND / OR

Are you a manufacturer of the items offered by you? *YES / NO

- Name and addresses of the factories where the goods will be manufactures and may be inspected, if required? ……..

Does the item offered comply with any recognise Standards body (e.g. SANS) * YES / NO

- If so, furnish valid certificate to this end *ATTACHED / NOT ATTACHED

Is offer strictly to specification? *** YES / NO**

- If not to specification, state deviation(s) ……...……

……

****" All Applicable Taxes" includes value-added tax, pay as you earn, income tax, unemployment insurance fund, Contributions and skills development levies.**

NOTE: All delivery and/or transport costs must be included in the bid price.

****" All Applicable Taxes" includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.**

Any enquiries regarding bidding procedures may be directed to the –

For administrative information
F. Groenewald / R. de Wee
groenewaldf@dws.gov.za/deweerr@dws.gov.za

Or

For technical or site information
Mr. G Liebenberg
liebenbergg@dws.gov.za

Annexture A

ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

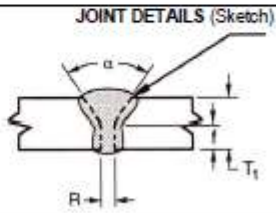
Company Name	Department of Water Affairs and Sanitation – Construction South	By	Anton Badenhorst (IWE/GB/00162)		
WPS No.	DWAS-001	Date	12/08/2026	Support PQR No.	C1060-1 in progress
Rev No.	draft	Date			
Welding Process(es)	FCAW	Type(s)	Semi-Automatic (Automatic, Manual, Machine, or Semi-Automatic)		

JOINTS (QW-402)

Joint Design / Angle	Single-V Groove / α = 60°±5°
Root Spacing / Landing	R = 2-4mm / f = 0-2mm
Backing	☒ Yes ☐ No
Backing Material (Type)	Weld metal (2nd side) (Refer to both backing and retainers)

☒ Metal ☐ Nonfusing Metal
☐ Nonmetallic ☐ Other

JOINT DETAILS (Sketch)



BASE METALS (QW-403)

P-No. Unassigned Group No. n/a To P-No. Unassigned Group No. n/a
OR
Specification and type/grade or UNS Number SANS 719 mild steel / EN 10025-2 S355
to Specification and type/grade or UNS Number SANS 719 mild steel / EN 10025-2 S355
OR
Chem. Analysis and Mech. Prop. n/a
to Chem. Analysis and Mech. Prop. n/a
Thickness Range:
Base Metal: Groove 5mm-20mm Fillet See comment at "Other"
Maximum Pass Thickness ≤ ½ in. (13 mm) (Yes) X (No)
Other All fillet sizes on all base metal thicknesses and all diameters.

*FILLER METALS (QW-404)	1	2
Spec No. (SFA)	A5.20	
AWS No. (Class)	E71T-1M-JH4	
F-No.	6	
A-No.	1	
Size of Filler Metals	1.2mm	
Filler Metal Product Form	Flux Cored Rod	
Supplemental Filler Metal	n/a	
Weld Metal		
Deposited Thickness:		
Groove	20mm maximum	
Fillet	All leg lengths, throat thickness	
Electrode-Flux (Class)	n/a	
Flux Type	n/a	
Flux Trade Name	n/a	
Consumable Insert	n/a	
Other	AFROX Fluxofil 14 HD	

*Each base metal-filler metal combination should be specified individually.

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

WPS No. DWAS-001 Rev. draft

POSITION (QW-405)
Position(s) of Groove: All positions
Welding Progression: ☒ Up ☐ Down
Position(s) of Fillet: All positions
Other: n/a

PREHEAT (QW-406)
Preheat Temperature, Minimum: 10°C
Interpass Temperature, Maximum: 250°C
Preheat Maintenance: 10°C
Other: n/a
(Continuous or special heating, where applicable, should be specified)

POSTWELD HEAT TREATMENT (QW-407)
Temperature Range: n/a
Time Range: n/a
Other: n/a

GAS (QW-408)

	Gas(es)	Percent Composition (Mixture)	Flow Rate
Shielding	Argon/CO_2	75%/25%	18-22 lpm
Backing	n/a	-	-
Trailing	n/a	-	-
Other	AFROX Fluxshield	-	-

ELECTRICAL CHARACTERISTICS (QW-409)

Weld Pass(es)	Process	Filler Metal Classification	Filler Metal Dia. mm	Current Type and Polarity	Amps	Volts	WFS m/min	Travel Speed mm/min	Notes
All	FCAW	E71T-1M-JH4	1.2mm	DC+	200-260	26-32	8-10	100-300	Flat & Horizontal
All	FCAW	E71T-1M-JH4	1.2mm	DC+	150-200	23-25	7-9	100-300	Vertical & Overhead

Amps and volts, or power or energy range, should be specified for each electrode size, position, and thickness, etc.

Pulsing Current: none
Heat Input (max.): n/a
Tungsten Electrode Size and Type: n/a
(Pure Tungsten, 2% Thoriated, etc)
Mode of Metal Transfer for GMAW (FCAW): spray
(Spray Arc, Short Circuiting Arc, etc)
Other: **Second side welding required after either back gouging and/or back grinding to bright sound metal. A minimum of two weld runs to be deposited on the second side and preferably two layers minimum.**

TECHNIQUE (QW-410)
String or Weave Bead: Both
Orifice, Nozzle, or Gas Cup Size: 20mm
Initial and Interpass Cleaning (Brushing, Grinding, etc.): Grind, File, Wire brush
Method of Back Gouging: Air Carbon Arc or Grinding
Oscillation: None
Contact Tube to Work Distance: Approx. 15-20mm
Multiple or Single Pass (Per Side): Both
Multiple or Single Electrodes: Single
Electrode Spacing: n/a
Peening: None
Other: n/a
Use of thermal process: n/a

IWE

ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

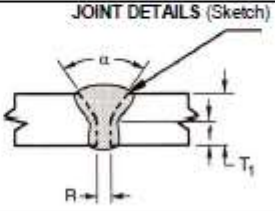
Company Name	Department of Water Affairs and Sanitation – Construction South	By	Anton Badenhorst (IWE/GB/00162)		
WPS No.	DWAS-002	Date	112/08/2026	Support PQR No.	C1060-2 in progress
Rev No.	draft	Date			
Welding Process(es)	GTAW & FCAW	Type(s)	Manual & Semi-Automatic (Automatic, Manual, Machine, or Semi-Automatic)		

JOINTS (QW-402)

Joint Design / Angle	Single-V Groove / α = 60°±5°
Root Spacing / Landing	R = 2-4mm / f = 0-2mm
Backing	☒ Yes ☐ No
Backing Material (Type)	GTAW – none, FCAW – weld metal (Refer to both backing and retainers)

☒ Metal ☐ Nonfusing Metal
☐ Nonmetallic ☐ Other

JOINT DETAILS (Sketch)



BASE METALS (QW-403)

P-No. Unassigned Group No. n/a To P-No. Unassigned Group No. n/a
OR
Specification and type/grade or UNS Number SANS 719 mild steel / EN 10025-2 S355
to Specification and type/grade or UNS Number SANS 719 mild steel / EN 10025-2 S355
OR
Chem. Analysis and Mech. Prop. n/a
to Chem. Analysis and Mech. Prop. n/a
Thickness Range:
Base Metal: Groove 5mm-20mm Fillet See comment at "Other"
Maximum Pass Thickness ≤ ½ in. (13 mm) (Yes) X (No)
Other All fillet sizes on all base metal thicknesses and all diameters.

***FILLER METALS (QW-404)**

	1	2
Spec No. (SFA)	A5.18	A5.20
AWS No. (Class)	ER70S-6	E71T-1M-JH4
F-No.	6	6
A-No.	1	1
Size of Filler Metals	2.4mm	1.2mm
Filler Metal Product Form	Solid Rod	Flux Cored Rod
Supplemental Filler Metal	n/a	n/a
Weld Metal		
Deposited Thickness:		
Groove	8mm maximum	12mm maximum
Fillet	All leg lengths, throat thickness	All leg lengths, throat thickness
Electrode-Flux (Class)	n/a	n/a
Flux Type	n/a	n/a
Flux Trade Name	n/a	n/a
Consumable Insert	n/a	n/a
Other	AFROX TIG 70S-6	AFROX Fluxofil 14 HD

*Each base metal-filler metal combination should be specified individually.

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

WPS No. DWAS-002 Rev. draft

POSITION (QW-405)
Position(s) of Groove All positions
Welding Progression: ☒ Up ☐ Down
Position(s) of Fillet All positions
Other n/a

PREHEAT (QW-406)
Preheat Temperature, Minimum 10°C
Interpass Temperature, Maximum 250°C
Preheat Maintenance 10°C
Other n/a
(Continuous or special heating, where applicable, should be specified)

POSTWELD HEAT TREATMENT (QW-407)
Temperature Range n/a
Time Range n/a
Other n/a

GAS (QW-408)

	Gas(es)	Percent Composition (Mixture)	Flow Rate
Shielding 1 (GTAW)	Argon	99,9%	5-20 lpm
Shielding 2 (FCAW)	Argon/CO_2	75%/25%	18-22 lpm
Backing	n/a	-	-
Other	AFROX Argon Tec & AFROX Fluxshield		

ELECTRICAL CHARACTERISTICS (QW-409)

Weld Pass(es)	Process	Filler Metal Classification	Filler Metal Dia. mm	Current Type and Polarity	Amps	Volts	WFS m/min	Travel Speed mm/min	Positions
Root & Hot Pass	GTAW	ER70S-6	2.4	DC-	120-220	8-14	n/a	50-200	All
Fill & cap	FCAW	E71T-1M-JH4	1.2	DC+	200-260	26-32	8-10	100-300	Flat & Horizontal
Fill & cap	FCAW	E71T-1M-JH4	1.2	DC+	150-200	23-25	7-9	100-300	Vertical & Overhead

Amps and volts, or power or energy range, should be specified for each electrode size, position, and thickness, etc.

Pulsing Current none Heat Input (max.) n/a
Tungsten Electrode Size and Type 2.4mm 2% Thoriated (red tip) EWTh-2
(Pure Tungsten, 2% Thoriated, etc)
Mode of Metal Transfer for GMAW (FCAW) spray
(Spray Arc, Short Circuiting Arc, etc)
Other n/a

TECHNIQUE (QW-410)
String or Weave Bead Both
Orifice, Nozzle, or Gas Cup Size 8-10mm (GTAW) & 20mm (FCAW)
Initial and Interpass Cleaning (Brushing, Grinding, etc.) Grind, File, Wire brush
Method of Back Gouging n/a
Oscillation None
Contact Tube to Work Distance Approx. 15-20mm
Multiple or Single Pass (Per Side) Both
Multiple or Single Electrodes Single
Electrode Spacing n/a
Peening None
Other n/a
Use of thermal process: n/a

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ASME Boiler and Pressure Vessel Code Section IX (2025)

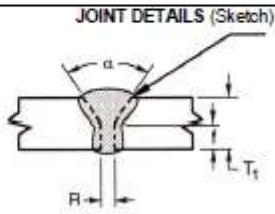
WELDING PROCEDURE SPECIFICATION (WPS)

Company Name	Department of Water Affairs and Sanitation – Construction South	By	Anton Badenhorst (IWE/GB/00162)		
WPS No.	DWAS-003	Date	12/08/2026	Support PQR No.	C1060-3 in progress
Rev No.	draft	Date			
Welding Process(es)	GTAW & SMAW	Type(s)	Manual *(Automatic, Manual, Machine, or Semi-Automatic)*		

JOINTS (QW-402)

Joint Design / Angle	Single-V Groove / α = 60°±5°
Root Spacing / Landing	R = 2-4mm / f = 0-2mm
Backing	☒ Yes ☐ No
Backing Material *(Type)*	GTAW – none, SMAW – weld metal *(Refer to both backing and retainers)*
☒ Metal	☐ Nonfusing Metal
☐ Nonmetallic	☐ Other

JOINT DETAILS (Sketch)



BASE METALS (QW-403)

P-No.	Unassigned	Group No.	n/a	To P-No. Unassigned	Group No. n/a
OR					
Specification and type/grade or UNS Number	SANS 719 mild steel / EN 10025-2 S355				
to Specification and type/grade or UNS Number	SANS 719 mild steel / EN 10025-2 S355				
OR					
Chem. Analysis and Mech. Prop.	n/a				
to Chem. Analysis and Mech. Prop.	n/a				
Thickness Range:					
Base Metal:	Groove 5mm-20mm			Fillet See comment at "Other"	
Maximum Pass Thickness ≤ ½ in. (13 mm)		(Yes) X		(No)	
Other	All fillet sizes on all base metal thicknesses and all diameters.				

***FILLER METALS (QW-404)**

	1	2
Spec No. (SFA)	A5.18	A5.1
AWS No. (Class)	ER70S-6	E7018-1
F-No.	6	4
A-No.	1	1
Size of Filler Metals	2.4mm	3.2-4.0mm
Filler Metal Product Form	Solid Rod	Basic Electrode
Supplemental Filler Metal	n/a	n/a
Weld Metal		
Deposited Thickness:		
Groove	8mm maximum	12mm maximum
Fillet	All leg lengths, throat thickness	All leg lengths, throat thickness
Electrode-Flux (Class)	n/a	n/a
Flux Type	n/a	n/a
Flux Trade Name	n/a	n/a
Consumable Insert	n/a	n/a
Other	**AFROX TIG 70S-6**	**AFROX 7018-1**

*Each base metal-filler metal combination should be specified individually.

IWE

ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

WPS No. DWAS-003 Rev. draft

POSITION (QW-405)
Position(s) of Groove: All positions
Welding Progression: ☒ Up ☐ Down
Position(s) of Fillet: All positions
Other: n/a

PREHEAT (QW-406)
Preheat Temperature, Minimum: 10°C
Interpass Temperature, Maximum: 250°C
Preheat Maintenance: 10°C
Other: n/a
(Continuous or special heating, where applicable, should be specified)

POSTWELD HEAT TREATMENT (QW-407)
Temperature Range: n/a
Time Range: n/a
Other: n/a

GAS (QW-408)

	Percent Composition		
	Gas(es)	*(Mixture)*	*Flow Rate*
Shielding 1 (GTAW)	Argon	99,9%	5-20 lpm
Backing	n/a	-	-
Trailing	n/a	-	-

Other: AFROX Argon Tec

ELECTRICAL CHARACTERISTICS (QW-409)

Weld Pass(es)	Process	Filler Metal Classification	Filler Metal Dia. mm	Current Type and Polarity	Amps	Volts	WFS m/min	Travel Speed mm/min	Positions
Root & Hot Pass	GTAW	ER70S-6	2.4	DC-	120-220	8-14	n/a	50-200	All
Fill	SMAW	E7018-1	3.2-4.0	DC+	110-180	20-30	n/a	70-200	All
Cap	SMAW	E7018-1	3.2	DC+	110-135	20-30	n/a	70-250	All

Amps and volts, or power or energy range, should be specified for each electrode size, position, and thickness, etc.

Pulsing Current: none
Heat Input (max.): n/a
Tungsten Electrode Size and Type: 2.4mm 2% Thoriated (red tip) EWTh-2
(Pure Tungsten, 2% Thoriated, etc)
Mode of Metal Transfer for GMAW (FCAW): n/a
(Spray Arc, Short Circuiting Arc, etc)
Other: n/a

TECHNIQUE (QW-410)
String or Weave Bead: Both
Orifice, Nozzle, or Gas Cup Size: 8-10mm (GTAW)
Initial and Interpass Cleaning (Brushing, Grinding, etc.): Grind, File, Wire brush
Method of Back Gouging: n/a
Oscillation: None
Contact Tube to Work Distance: n/a
Multiple or Single Pass (Per Side): Both
Multiple or Single Electrodes: Single
Electrode Spacing: n/a
Peening: None
Other: n/a
Use of thermal process: n/a

IWE

ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

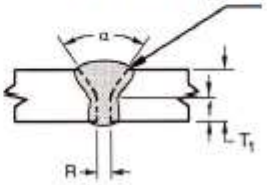
Company Name	Department of Water Affairs and Sanitation – Construction South	By	Anton Badenhorst (IWE/GB/00162)		
WPS No.	DWAS-004	Date	28/09/2026	Support PQR No.	C1060-4 in progress
Rev No.	draft	Date			
Welding Process(es)	FCAW	Type(s)	Semi-Automatic (Automatic, Manual, Machine, or Semi-Automatic)		

JOINTS (QW-402)

Joint Design / Angle	Single-V Groove / α = 60°±5°
Root Spacing / Landing	R = 2-4mm / f = 0-2mm
Backing	☒ Yes ☐ No
Backing Material (Type)	Weld metal (2nd side) (Refer to both backing and retainers)

☒ Metal ☐ Nonfusing Metal
☐ Nonmetallic ☐ Other

JOINT DETAILS (Sketch)



BASE METALS (QW-403)

P-No. 8 Group No. 1 To P-No. 8 Group No. 1
OR
Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 304(L)
to Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 304(L)
OR
Chem. Analysis and Mech. Prop.: n/a
to Chem. Analysis and Mech. Prop.: n/a
Thickness Range:
Base Metal: Groove 5mm-20mm Fillet See comment at "Other"
Maximum Pass Thickness ≤ ½ in. (13 mm) (Yes) X (No)
Other: All fillet sizes on all base metal thicknesses and all diameters.

*FILLER METALS (QW-404)	1	2
Spec No. (SFA)	A5.22	
AWS No. (Class)	E308LT1-1	
F-No.	6	
A-No.	8	
Size of Filler Metals	1.2mm	
Filler Metal Product Form	Solid Wire	
Supplemental Filler Metal	n/a	
Weld Metal		
Deposited Thickness:		
Groove	20mm maximum	
Fillet	All leg lengths, throat thickness	
Electrode-Flux (Class)	n/a	
Flux Type	n/a	
Flux Trade Name	n/a	
Consumable Insert	n/a	
Other	Select Alloy 308L-AP	

*Each base metal-filler metal combination should be specified individually.

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

WPS No. DWAS-004 Rev. draft

POSITION (QW-405)
Position(s) of Groove: All positions
Welding Progression: ☒ Up ☐ Down
Position(s) of Fillet: All positions
Other: n/a

PREHEAT (QW-406)
Preheat Temperature, Minimum: 10°C
Interpass Temperature, Maximum: 175°C
Preheat Maintenance: 10°C
Other: n/a
(Continuous or special heating, where applicable, should be specified)

POSTWELD HEAT TREATMENT (QW-407)
Temperature Range: n/a
Time Range: n/a
Other: n/a

GAS (QW-408)

	Gas(es)	Percent Composition (Mixture)	Flow Rate
Shielding	Argon/CO_2	75%/25%	18-22 lpm
Backing	-	-	-
Trailing	n/a	-	-
Other	AFROX Fluxshield	-	-

ELECTRICAL CHARACTERISTICS (QW-409)

Weld Pass(es)	Process	Filler Metal Classification	Filler Metal Dia. mm	Current Type and Polarity	Amps	Volts	WFS m/min	Travel Speed mm/min	Notes
All	FCAW	E308LT1-1	1.2mm	DC+	180-200	27-29	10-11	100-300	Flat & Horizontal
All	FCAW	E308LT1-1	1.2mm	DC+	145-160	24-26	6-8	100-300	Vertical & Overhead

Amps and volts, or power or energy range, should be specified for each electrode size, position, and thickness, etc.

Pulsing Current: none
Heat Input (max.): n/a
Tungsten Electrode Size and Type: n/a
(Pure Tungsten, 2% Thoriated, etc)
Mode of Metal Transfer for GMAW (FCAW): spray
(Spray Arc, Short Circuiting Arc, etc)
Other: **Second side welding required after back grinding to bright sound metal. A minimum of two weld runs to be deposited on the second side and preferably two layers minimum.**

TECHNIQUE (QW-410)
String or Weave Bead: Both
Orifice, Nozzle, or Gas Cup Size: 20mm
Initial and Interpass Cleaning (Brushing, Grinding, etc.): Grind, File, Wire brush
Method of Back Gouging: Grinding
Oscillation: None
Contact Tube to Work Distance: Approx. 15-20mm
Multiple or Single Pass (Per Side): Both
Multiple or Single Electrodes: Single
Electrode Spacing: n/a
Peening: None
Other: n/a
Use of thermal process: n/a

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

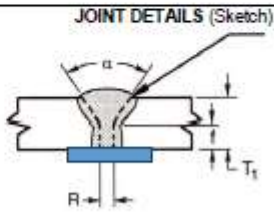
Company Name	Department of Water Affairs and Sanitation – Construction South	By	Anton Badenhorst (IWE/GB/00162)		
WPS No.	DWAS-005	Date	28/09/2026	Support PQR No.	C1060-5 in progress
Rev No.	draft	Date			
Welding Process(es)	FCAW	Type(s)	Semi-Automatic (Automatic, Manual, Machine, or Semi-Automatic)		

JOINTS (QW-402)

Joint Design / Angle	Single-V Groove / α = 60°±5°
Root Spacing / Landing	R = 3-6mm / f = 0-2mm
Backing	☒ Yes ☐ No
Backing Material (Type)	Ceramic removable backing (Refer to both backing and retainers)

☐ Metal ☐ Nonfusing Metal
☒ Nonmetallic ☐ Other

JOINT DETAILS (Sketch)



BASE METALS (QW-403)

P-No. 8 Group No. 1 To P-No. 8 Group No. 1
OR
Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 304(L)
to Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 304(L)
OR
Chem. Analysis and Mech. Prop.: n/a
to Chem. Analysis and Mech. Prop.: n/a
Thickness Range:
Base Metal: Groove 5mm-20mm Fillet See comment at "Other"
Maximum Pass Thickness ≤ ½ in. (13 mm) (Yes) X (No)
Other: All fillet sizes on all base metal thicknesses and all diameters.

***FILLER METALS (QW-404)**

	1	2
Spec No. (SFA)	A5.22	
AWS No. (Class)	E308LT1-1	
F-No.	8	
A-No.	6	
Size of Filler Metals	1.2mm	
Filler Metal Product Form	Solid Wire	
Supplemental Filler Metal	n/a	
Weld Metal		
Deposited Thickness:		
Groove	20mm maximum	
Fillet	All leg lengths, throat thickness	
Electrode-Flux (Class)	n/a	
Flux Type	n/a	
Flux Trade Name	n/a	
Consumable Insert	n/a	
Other	Select Alloy 308L-AP	

*Each base metal-filler metal combination should be specified individually.

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

WPS No. **DWAS-005** Rev. **draft**

POSITION (QW-405)
Position(s) of Groove: All positions
Welding Progression: ☒ Up ☐ Down
Position(s) of Fillet: All positions
Other: n/a

PREHEAT (QW-406)
Preheat Temperature, Minimum: 10°C
Interpass Temperature, Maximum: 175°C
Preheat Maintenance: 10°C
Other: n/a
(Continuous or special heating, where applicable, should be specified)

POSTWELD HEAT TREATMENT (QW-407)
Temperature Range: n/a
Time Range: n/a
Other: n/a

GAS (QW-408)

	Percent Composition		
	Gas(es)	*(Mixture)*	*Flow Rate*
Shielding	Argon/CO_2	75%/25%	18-22 lpm
Backing	-	-	-
Trailing	n/a	-	-
Other	**AFROX Fluxshield**	-	-

ELECTRICAL CHARACTERISTICS (QW-409)

Weld Pass(es)	Process	Filler Metal Classification	Filler Metal Dia. mm	Current Type and Polarity	Amps	Volts	WFS m/min	Travel Speed mm/min	Notes
All	FCAW	E308LT1-1	1.2mm	DC+	180-200	27-29	9-12	100-300	Flat & Horizontal
All	FCAW	E308LT1-1	1.2mm	DC+	130-160	23-26	6-8	100-300	Vertical & Overhead

Amps and volts, or power or energy range, should be specified for each electrode size, position, and thickness, etc.

Pulsing Current: none
Heat Input (max.): n/a
Tungsten Electrode Size and Type: n/a
(Pure Tungsten, 2% Thoriated, etc)
Mode of Metal Transfer for GMAW (FCAW): spray
(Spray Arc, Short Circuiting Arc, etc)
Other:

TECHNIQUE (QW-410)
String or Weave Bead: Both
Orifice, Nozzle, or Gas Cup Size: 20mm
Initial and Interpass Cleaning (Brushing, Grinding, etc.): Grind, File, Wire brush
Method of Back Gouging: Grinding
Oscillation: None
Contact Tube to Work Distance: Approx. 15-20mm
Multiple or Single Pass (Per Side): Both
Multiple or Single Electrodes: Single
Electrode Spacing: n/a
Peening: None
Other: n/a
Use of thermal process: n/a

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

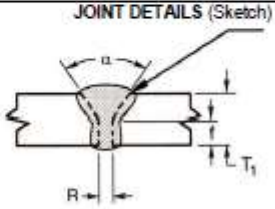
Company Name	Department of Water Affairs and Sanitation – Construction South	By	Anton Badenhorst (IWE/GB/00162)		
WPS No.	DWAS-006	Date	12/08/2026	Support PQR No.	C1060-6 in progress
Rev No.	draft	Date			
Welding Process(es)	GTAW & SMAW	Type(s)	Manual *(Automatic, Manual, Machine, or Semi-Automatic)*		

JOINTS (QW-402)

Joint Design / Angle	Single-V Groove / α = 60°±5°
Root Spacing / Landing	R = 3-5mm / f = 0-2mm
Backing	☒ Yes ☐ No
Backing Material *(Type)*	GTAW – none, SMAW – weld metal *(Refer to both backing and retainers)*

☒ Metal ☐ Nonfusing Metal
☐ Nonmetallic ☐ Other

JOINT DETAILS (Sketch)



BASE METALS (QW-403)

P-No. 8 Group No. 1 To P-No. 8 Group No. 1
OR
Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 304(L) or 316(L)
to Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 304(L) or 316(L)
OR
Chem. Analysis and Mech. Prop.: n/a
to Chem. Analysis and Mech. Prop.: n/a
Thickness Range:
Base Metal: Groove 5mm-22mm Fillet See comment at "Other"
Maximum Pass Thickness ≤ ½ in. (13 mm) (Yes) X (No)
Other: All fillet sizes on all base metal thicknesses and all diameters.

***FILLER METALS (QW-404)**

	1	2
Spec No. (SFA)	A5.9	A5.4
AWS No. (Class)	ER316L	E316L-16 or -17
F-No.	8	5
A-No.	8	8
Size of Filler Metals	2.4mm	2.5-3.2mm
Filler Metal Product Form	Solid Rod	Rutile Basic Electrode
Supplemental Filler Metal	n/a	n/a
Weld Metal		
Deposited Thickness:		
Groove	8mm maximum	14mm maximum
Fillet	All leg lengths, throat thickness	All leg lengths, throat thickness
Electrode-Flux (Class)	n/a	n/a
Flux Type	n/a	n/a
Flux Trade Name	n/a	n/a
Consumable Insert	n/a	n/a
Other	AFROX TIG 316L	AFROX 316L

*Each base metal-filler metal combination should be specified individually.

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

WPS No. DWAS-006 Rev. draft

POSITION (QW-405)
Position(s) of Groove: All positions
Welding Progression: ☒ Up ☐ Down
Position(s) of Fillet: All positions
Other: n/a

PREHEAT (QW-406)
Preheat Temperature, Minimum: 10°C
Interpass Temperature, Maximum: 175°C
Preheat Maintenance: 10°C
Other: n/a
(Continuous or special heating, where applicable, should be specified)

POSTWELD HEAT TREATMENT (QW-407)
Temperature Range: n/a
Time Range: n/a
Other: n/a

GAS (QW-408)

	Percent Composition		
	Gas(es)	*(Mixture)*	*Flow Rate*
Shielding	Argon	99,9%	5-20 lpm
Backing	Argon	99,9%	5-20 lpm
Trailing	n/a	-	-
Other	AFROX Argon Tec		

ELECTRICAL CHARACTERISTICS (QW-409)

Weld Pass(es)	Process	Filler Metal Classification	Filler Metal Dia. mm	Current Type and Polarity	Amps	Volts	WFS m/min	Travel Speed mm/min	Positions
Root & Hot Pass	GTAW	ER316L	2.4	DC-	80-190	8-14	n/a	50-200	All
Fill	SMAW	E316L-16/17	2.5-3.2	DC+	40-105	20-30	n/a	70-200	All
Cap	SMAW	E316L-16/17	2.5	DC+	40-80	20-30	n/a	70-250	All

Amps and volts, or power or energy range, should be specified for each electrode size, position, and thickness, etc.

Pulsing Current: none
Heat Input (max.): 2.0 kJ/mm
Tungsten Electrode Size and Type: 2.4mm 2% Thoriated (red tip) EWTh-2
(Pure Tungsten, 2% Thoriated, etc)
Mode of Metal Transfer for GMAW (FCAW): n/a
(Spray Arc, Short Circuiting Arc, etc)
Other: n/a

TECHNIQUE (QW-410)
String or Weave Bead: Both
Orifice, Nozzle, or Gas Cup Size: 8-10mm (GTAW)
Initial and Interpass Cleaning (Brushing, Grinding, etc.): Grind, File, Wire brush
Method of Back Gouging: n/a
Oscillation: None
Contact Tube to Work Distance: n/a
Multiple or Single Pass (Per Side): Both
Multiple or Single Electrodes: Single
Electrode Spacing: n/a
Peening: None
Other: n/a
Use of thermal process: n/a

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

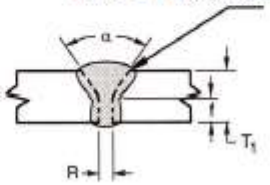
Company Name	Department of Water Affairs and Sanitation – Construction South	By	Anton Badenhorst (IWE/GB/00162)		
WPS No.	DWAS-007	Date	12/08/2026	Support PQR No.	C1060-7 in progress
Rev No.	draft	Date			
Welding Process(es)	GTAW	Type(s)	Manual (Automatic, Manual, Machine, or Semi-Automatic)		

JOINTS (QW-402)

Joint Design / Angle	Single-V Groove / α = 60°±5°
Root Spacing / Landing	R = 3-5mm / f = 0-2mm
Backing	☐ Yes ☒ No
Backing Material (Type)	none (Refer to both backing and retainers)

☐ Metal ☐ Nonfusing Metal
☐ Nonmetallic ☐ Other

JOINT DETAILS (Sketch)



BASE METALS (QW-403)

P-No. 8 Group No. 1 To P-No. 8 Group No. 1

OR

Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 304(L) or 316(L)
to Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 304(L) or 316(L)

OR

Chem. Analysis and Mech. Prop.: n/a
to Chem. Analysis and Mech. Prop.: n/a

Thickness Range:
Base Metal: Groove 1.5mm-11mm Fillet See comment at "Other"
Maximum Pass Thickness ≤ ½ in. (13 mm) (Yes) X (No)
Other All fillet sizes on all base metal thicknesses and all diameters.

*FILLER METALS (QW-404)	1	2
Spec No. (SFA)	A5.9	
AWS No. (Class)	ER316L	
F-No.	8	
A-No.	8	
Size of Filler Metals	1.6-2.4mm	
Filler Metal Product Form	Solid Rod	
Supplemental Filler Metal	n/a	
Weld Metal		
Deposited Thickness:		
Groove	11mm maximum	
Fillet	All leg lengths, throat thickness	
Electrode-Flux (Class)	n/a	
Flux Type	n/a	
Flux Trade Name	n/a	
Consumable Insert	n/a	
Other	AFROX TIG 316L	

*Each base metal-filler metal combination should be specified individually.

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

WPS No. DWAS-007 Rev. draft

POSITION (QW-405)
Position(s) of Groove: All positions
Welding Progression: ☒ Up ☐ Down
Position(s) of Fillet: All positions
Other: n/a

PREHEAT (QW-406)
Preheat Temperature, Minimum: 10°C
Interpass Temperature, Maximum: 175°C
Preheat Maintenance: 10°C
Other: n/a
(Continuous or special heating, where applicable, should be specified)

POSTWELD HEAT TREATMENT (QW-407)
Temperature Range: n/a
Time Range: n/a
Other: n/a

GAS (QW-408)

	Gas(es)	Percent Composition (Mixture)	Flow Rate
Shielding	Argon	99,9%	5-20 lpm
Backing	Argon	99,9%	5-20 lpm
Trailing	n/a	-	-
Other	AFROX Argon Tec		

ELECTRICAL CHARACTERISTICS (QW-409)

Weld Pass(es)	Process	Filler Metal Classification	Filler Metal Dia. mm	Current Type and Polarity	Amps	Volts	WFS m/min	Travel Speed mm/min	Positions
Root & Hot Pass	GTAW	ER316L	1.6-2.4	DC-	60-220	8-14	n/a	50-200	All
Fill	GTAW	ER316L	1.6-2.4	DC-	60-220	8-14	n/a	50-200	All
Cap	GTAW	ER316L	1.6-2.4	DC-	60-220	8-14	n/a	50-200	All

Amps and volts, or power or energy range, should be specified for each electrode size, position, and thickness, etc.

Pulsing Current: none
Heat Input (max.): 2.0 kJ/mm
Tungsten Electrode Size and Type: 1.6-2.4mm 2% Thoriated (red tip) EWTh-2
(Pure Tungsten, 2% Thoriated, etc)
Mode of Metal Transfer for GMAW (FCAW): n/a
(Spray Arc, Short Circuiting Arc, etc)
Other: n/a

TECHNIQUE (QW-410)
String or Weave Bead: Both
Orifice, Nozzle, or Gas Cup Size: 6-10mm
Initial and Interpass Cleaning (Brushing, Grinding, etc.): Grind, File, Wire brush
Method of Back Gouging: n/a
Oscillation: None
Contact Tube to Work Distance: n/a
Multiple or Single Pass (Per Side): Both
Multiple or Single Electrodes: Single
Electrode Spacing: n/a
Peening: None
Other: n/a
Use of thermal process: n/a

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

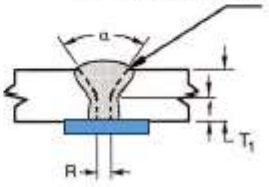
Company Name	Department of Water Affairs and Sanitation – Construction South	By	Anton Badenhorst (IWE/GB/00162)		
WPS No.	DWAS-008	Date	30/09/2026	Support PQR No.	C1060-8 in progress
Rev No.	draft	Date			
Welding Process(es)	FCAW	Type(s)	Semi-Automatic (Automatic, Manual, Machine, or Semi-Automatic)		

JOINTS (QW-402)

Joint Design / Angle	Single-V Groove / α = 60°±5°
Root Spacing / Landing	R = 3-6mm / f = 0-2mm
Backing	☒ Yes ☐ No
Backing Material (Type)	Ceramic removable backing (Refer to both backing and retainers)

☐ Metal ☐ Nonfusing Metal
☒ Nonmetallic ☐ Other

JOINT DETAILS (Sketch)



BASE METALS (QW-403)

P-No. 8 Group No. 1 To P-No. 8 Group No. 1
OR
Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 316(L)
to Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 316(L)
OR
Chem. Analysis and Mech. Prop.: n/a
to Chem. Analysis and Mech. Prop.: n/a
Thickness Range:
Base Metal: Groove 5mm-20mm Fillet See comment at "Other"
Maximum Pass Thickness ≤ ½ in. (13 mm) (Yes) X (No)
Other: All fillet sizes on all base metal thicknesses and all diameters.

*FILLER METALS (QW-404)	1	2
Spec No. (SFA)	A5.22	
AWS No. (Class)	E316LT1-1	
F-No.	8	
A-No.	6	
Size of Filler Metals	1.2mm	
Filler Metal Product Form	Solid Wire	
Supplemental Filler Metal	n/a	
Weld Metal		
Deposited Thickness:		
Groove	20mm maximum	
Fillet	All leg lengths, throat thickness	
Electrode-Flux (Class)	n/a	
Flux Type	n/a	
Flux Trade Name	n/a	
Consumable Insert	n/a	
Other	Select Alloy 316L-AP BF	

*Each base metal-filler metal combination should be specified individually.

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

WPS No. DWAS-008 Rev. draft

POSITION (QW-405)
Position(s) of Groove: All positions
Welding Progression: ☒ Up ☐ Down
Position(s) of Fillet: All positions
Other: n/a

PREHEAT (QW-406)
Preheat Temperature, Minimum: 10°C
Interpass Temperature, Maximum: 175°C
Preheat Maintenance: 10°C
Other: n/a
(Continuous or special heating, where applicable, should be specified)

POSTWELD HEAT TREATMENT (QW-407)
Temperature Range: n/a
Time Range: n/a
Other: n/a

GAS (QW-408)

	Percent Composition		
	Gas(es)	*(Mixture)*	*Flow Rate*
Shielding	Argon/CO_2	75%/25%	18-22 lpm
Backing	-	-	-
Trailing	n/a	-	-
Other	AFROX Fluxshield	-	-

ELECTRICAL CHARACTERISTICS (QW-409)

Weld Pass(es)	Process	Filler Metal Classification	Filler Metal Dia. mm	Current Type and Polarity	Amps	Volts	WFS m/min	Travel Speed mm/min	Notes
All	FCAW	E316LT1-1	1.2mm	DC+	180-200	27-29	10-12	100-300	Flat & Horizontal
All	FCAW	E316LT1-1	1.2mm	DC+	130-160	23-26	6-8	100-300	Vertical & Overhead

Amps and volts, or power or energy range, should be specified for each electrode size, position, and thickness, etc.

Pulsing Current: none
Heat Input (max.): n/a
Tungsten Electrode Size and Type: n/a
(Pure Tungsten, 2% Thoriated, etc)
Mode of Metal Transfer for GMAW (FCAW): spray
(Spray Arc, Short Circuiting Arc, etc)
Other:

TECHNIQUE (QW-410)
String or Weave Bead: Both
Orifice, Nozzle, or Gas Cup Size: 20mm
Initial and Interpass Cleaning (Brushing, Grinding, etc.): Grind, File, Wire brush
Method of Back Gouging: Grinding
Oscillation: None
Contact Tube to Work Distance: Approx. 15-20mm
Multiple or Single Pass (Per Side): Both
Multiple or Single Electrodes: Single
Electrode Spacing: n/a
Peening: None
Other: n/a
Use of thermal process: n/a

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ASME Boiler and Pressure Vessel Code Section IX (2025)

WELDING PROCEDURE SPECIFICATION (WPS)

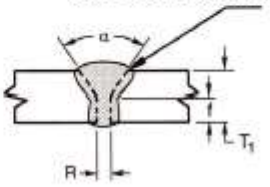
Company Name	Department of Water Affairs and Sanitation – Construction South	By	Anton Badenhorst (IWE/GB/00162)		
WPS No.	DWAS-009	Date	30/09/2026	Support PQR No.	C1060-9 in progress
Rev No.	draft	Date			
Welding Process(es)	GTAW & FCAW	Type(s)	Manual & Semi-Automatic (Automatic, Manual, Machine, or Semi-Automatic)		

JOINTS (QW-402)

Joint Design / Angle	Single-V Groove / α = 60°±5°
Root Spacing / Landing	R = 3-5mm / f = 0-2mm
Backing	☒ Yes ☐ No
Backing Material (Type)	GTAW – none, FCAW – weld metal (Refer to both backing and retainers)

☒ Metal ☐ Nonfusing Metal
☐ Nonmetallic ☐ Other

JOINT DETAILS (Sketch)



BASE METALS (QW-403)

P-No. 8 Group No. 1 To P-No. 8 Group No. 1
OR
Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 316(L)
to Specification and type/grade or UNS Number: Austenitic Stainless Steel Type 316(L)
OR
Chem. Analysis and Mech. Prop.: n/a
to Chem. Analysis and Mech. Prop.: n/a
Thickness Range:
Base Metal: Groove 5mm-22mm Fillet See comment at "Other"
Maximum Pass Thickness ≤ ½ in. (13 mm) (Yes) X (No)
Other: All fillet sizes on all base metal thicknesses and all diameters.

***FILLER METALS (QW-404)**

	1	2
Spec No. (SFA)	A5.9	A5.22
AWS No. (Class)	ER316L	E316LT1-1
F-No.	8	8
A-No.	8	8
Size of Filler Metals	2.4mm	1.2mm
Filler Metal Product Form	Solid Rod	Solid Wire
Supplemental Filler Metal	n/a	n/a
Weld Metal		
Deposited Thickness:		
Groove	8mm maximum	14mm maximum
Fillet	All leg lengths, throat thickness	All leg lengths, throat thickness
Electrode-Flux (Class)	n/a	n/a
Flux Type	n/a	n/a
Flux Trade Name	n/a	n/a
Consumable Insert	n/a	n/a
Other	**AFROX TIG 316L**	**Select Alloy 316L-AP BF**

*Each base metal-filler metal combination should be specified individually.

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WPS No. DWAS-009 Rev. draft

POSITION (QW-405)
Position(s) of Groove: All positions
Welding Progression: ☒ Up ☐ Down
Position(s) of Fillet: All positions
Other: n/a

PREHEAT (QW-406)
Preheat Temperature, Minimum: 10°C
Interpass Temperature, Maximum: 175°C
Preheat Maintenance: 10°C
Other: n/a
(Continuous or special heating, where applicable, should be specified)

POSTWELD HEAT TREATMENT (QW-407)
Temperature Range: n/a
Time Range: n/a
Other: n/a

GAS (QW-408)

	Percent Composition Gas(es)	(Mixture)	Flow Rate
Shielding	Argon	99,9%	5-20 lpm
Backing	Argon	99,9%	5-20 lpm
Trailing	n/a	-	-
Other	AFROX Argon Tec		

ELECTRICAL CHARACTERISTICS (QW-409)

Weld Pass(es)	Process	Filler Metal Classification	Filler Metal Dia. mm	Current Type and Polarity	Amps	Volts	WFS m/min	Travel Speed mm/min	Positions
Root & Hot Pass	GTAW	ER316L	2.4	DC-	80-190	8-14	n/a	50-200	All
Fill & Cap	FCAW	E316LT1-1	1.2	DC+	180-200	27-29	10-12	100-300	Flat & Horizontal
Fill & Cap	FCAW	E316LT1-1	1.2	DC+	130-160	23-26	6-8	100-300	Vertical & Overhead

Amps and volts, or power or energy range, should be specified for each electrode size, position, and thickness, etc.

Pulsing Current: none
Heat Input (max.): n/a
Tungsten Electrode Size and Type: 2.4mm 2% Thoriated (red tip) EWTh-2
(Pure Tungsten, 2% Thoriated, etc)
Mode of Metal Transfer for GMAW (FCAW): spray
(Spray Arc, Short Circuiting Arc, etc)
Other: n/a

TECHNIQUE (QW-410)
String or Weave Bead: Both
Orifice, Nozzle, or Gas Cup Size: 8-10mm (GTAW) / 20mm (FACW)
Initial and Interpass Cleaning (Brushing, Grinding, etc.): Grind, File, Wire brush
Method of Back Gouging: n/a
Oscillation: None
Contact Tube to Work Distance: 15-20mm (FCAW)
Multiple or Single Pass (Per Side): Both
Multiple or Single Electrodes: Single
Electrode Spacing: n/a
Peening: None
Other: n/a
Use of thermal process: n/a

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