



**DEPARTMENT OF WATER AND SANITATION
REPUBLIC OF SOUTH AFRICA**

DUE AT 11:00 ON

CLOSING DATE: 20 AUGUST 2026

BID: WTE-0569 CS

**THE DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO
THE DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE
WESTERN CAPE FOR A PERIOD OF 9 MONTHS.**

SUBMIT BID DOCUMENTS TO:

POSTAL ADDRESS:
DIRECTOR-GENERAL:
WATER AND SANITATION
PRIVATE BAG X3042
PAARL
7620

OR

TO BE DEPOSITED IN:
THE BID BOX AT THE ENTRANCE
OF 4-6 ALKMAAR STREET
DALJOSAPHAT
PAARL
7646

BIDDER: (Company address and stamp)

COMPILED BY: SCM CONSTRUCTION SOUTH MANAGEMENT

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0569 CS

THE DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO THE DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE WESTERN CAPE FOR A PERIOD OF 9 MONTHS.

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-0569 CS	CLOSING DATE:	20 AUGUST 2026	CLOSING TIME:	11H00
DESCRIPTION	THE DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO THE DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE WESTERN CAPE FOR A PERIOD OF 9 MONTHS.				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
THE TENDER BOX AT THE ENTRANCE OF:					
DEPARTMENT OF WATER AND SANITATION					
4-6 ALKMAAR STREET					
DAL JOSAPHAT					
PAARL 7476					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	F. GROENEWALD/ R.DE WEE		CONTACT PERSON	J .W VAN DER HEEVER	
E-MAIL ADDRESS	groenwaldf@dws.gov.za/ deweer@dws.gov.za		E-MAIL ADDRESS	vanderheeverj@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, 2017, 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-0569 CS

THE DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO THE DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE WESTERN CAPE FOR A PERIOD OF 9 MONTHS.

SECTION 1: LEGALITIES

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- INSTRUCTIONS TO BIDDERS
- DECLARATION OF INTEREST (SBD 4)
- TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION, 2011 (SBD 6.1)

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0569 CS

THE DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO THE DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE WESTERN CAPE FOR A PERIOD OF 9 MONTHS.

1. INSTRUCTIONS TO BIDDERS

CONTENTS

1. ISSUING OF DOCUMENTS
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13. REJECTION OF BIDS
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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	J. W van der Heever
E-MAIL ADDRESS	groenewaldf@dws.gov.za / deweer@dws.gov.za	E-MAIL ADDRESS	vanderheeverj@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-0569 CS: THE DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO THE DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE WESTERN CAPE FOR A PERIOD OF 9 MONTHS.

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 4-6 Alkmaar Street, Dal Josaphat, Paarl and 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 Compliance**
- **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 complete 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 and complete SBD 6.1, the Bidder will forfeit the preferential points to be claimed)		
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	"Letter from the Manufacturer/ Company" confirming the supply and account arrangement with bidder.		

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	Description of Services	Did the bidder comply with the requirement?	
		Comply	Not-Comply
All Items	Did the bidder indicate compliance in <i>Technical Information, Section 3.2.14</i> and sign the declaration under Section 3?		

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.

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

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	

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 Province	Completed Location of Enterprise Affidavit (Annexure 2) and proof of such premises
B-BBEE status level1 or level 2 contributors who are Exempted Micro Enterprise or Qualifying Small Enterprise	B-BBEE verification certificate issued by a verification agency accredited by South African National Accreditation Agency (SANAS) or in the case of an EME or a QSE, if permitted in terms of the relevant code, 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 allocated

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)

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

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

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	
$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$	or	$Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$	

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:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ \mathbf{Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)} & \mathbf{or} & \mathbf{Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)} \end{array}$$

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

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

[TICK APPLICABLE BOX]

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

- i) The information furnished is true and correct.
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 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 or 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: - o www.thedtic.gov.za/wp-content/uploads/BEE_Affidavit-QSE-Gen.pdf - o www.thedtic.gov.za/wp-content/uploads/BEE_Affidavit-EME-Gen.pdf - o 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
--------------------	--	------------

		90/10 prefer ence point s syste m	80/2 0 pref eren ce poin ts syst em	ce clai med (tick relev ant block)
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	<i>[insert provinces where project is located]</i>	1	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: $NO = 2 \times PS / 100$
80 / 20 preference points system: $NO = 5 \times PS / 100$

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**

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0569 CS

THE DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO THE DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE WESTERN CAPE FOR A PERIOD OF 9 MONTHS.

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 TREASURY - 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
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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, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.
- 21.3. 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.

Js General Conditions of Contract (revised July 2010)

2. SPECIAL CONDITIONS OF CONTRACT

Item	Sub-Clause	Data
Application	2.2	No additional specifications is applicable
Performance Security	7.1 7.4	No performance security is required.
Delivery and documents	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	An all-inclusive delivered price is required.
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	Not applicable.

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0569 CS

THE DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO THE DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE WESTERN CAPE FOR A PERIOD OF 9 MONTHS.

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 AND OR REQUIREMENTS
 - 3.2.14.1 TECHNICAL CRITERIA
 - 3.2.14.2 LIST OF DRAWINGS
 - 3.2.14.3 DOCUMENTS TO BE SUBMITTED
 - 3.2.14.4 ACCEPTANCE CRITERIA

3.1 STANDARD 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.

In the event of a discrepancy between the Specifications, (including the Project Specifications) and the drawings and / or the Bill of Quantities, the discrepancy shall be resolved by the Engineer before the execution of the work under the relevant item.

The applicable standard specifications are mentioned in the Project Specification.

- SANS 2001-CC1: 2007 Edition 1: Construction Works Part CC1: Concrete works (Structural). Section 4.3 Formwork as amended
- SANS 10085-1: 2004 Ed 1.1: The South African National Standard “The Design, Erection, Use and Inspection of Access Scaffolding”; as amended
- BS EN 1808:2015 Standard Specification entitled: “Safety requirements on suspended access equipment – Design calculations, stability criteria, construction-tests” as amended;
- SANS 1903: Standard Front-end Specification entitled: “Safety requirements on suspended access equipment – Design calculations, stability criteria, construction-tests” as amended

3.2 PROJECT SPECIFICATION

3.2.1 DESCRIPTION OF THE PROJECT

The Sub-Directorate: Dam Safety Surveillance (DSS) within the Directorate: Strategic Asset Infrastructure Management (SAIM) of the Department of Water and Sanitation (DWS) is doing rehabilitation works on the Kwaggaskloof Dam to improve the redundancy of the water supply at the dam and to create a safe environment.

As a result of these planned rehabilitation works, this project is summarised into the following main parts:

Site establishment, maintenance, and clearance

Part A includes all the works related to the civil works for the rehabilitation of the downstream drainage works, the placement of upstream erosion protection and the rehabilitation of the outlet works at the dam. Maintaining the operational condition at the dam

3.2.2 LOCATION AND ACCESS TO SITE



Figure 3: Plan view of Kwaggaskloof embankment (Google Earth, 2013)

As illustrated in the Figure 3, access to the downstream toe of the dam wall, the right downstream side of the outlet works, and the pump station is gained via a short section of existing gravel road which runs from the R43 road (Worcester/Villiersdorp) turn-off (**route 1**). Access to the left side of the outlet works, Non-Overspill Crest (NOC) and inlet works can be provided through an access bridge over the outlet works canal (**route 2**) or an alternative gravel road which can also be accessed from the R43 road (**route 3**). Access to the right downstream toe or the Dam for recreational purposes is controlled by means of the Kwaggaskloof Waterski Club.

Kwaggaskloof Dam / Coordinates

33.7711° S, 19.4400° E

The Bidder shall nominate a contact person with whom the Department will arrange and schedule deliveries.

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 **DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO THE DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE WESTERN CAPE FOR A PERIOD OF 9 MONTHS.**

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

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

The equipment will be safely loaded for transportation.

3.2.9 TRANSPORTATION

All transportation cost to be included in the 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, delivery and any other cost mentioned in the specification for the Bidders account must be included in the unit price.

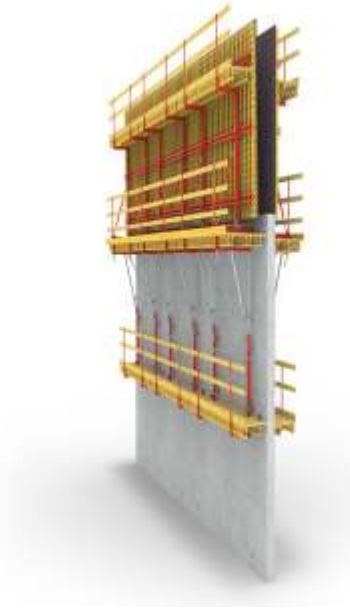
Bidders shall provide in their bid for all labour, plant, material, implements and vehicles necessary for the execution of the contract and all operating and maintenance costs in accordance with the bid documents.

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 services 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?		Photo
			Comply	Not Comply	
A	Design, Hire, supply and delivery of formwork and scaffolding to the Department of Water and Sanitation, Kwaggaskloof dam in the Western Cape for a period of 9 months.	NEW OUTLET STRUCTURE, RAISING OF CANAL WALLS, STRAINER ROOM & THE FLOW METER CHAMBER The new structures mentioned above are to be constructed with single side formwork on the inside and outside where applicable. OUTSIDE AND INSIDE PERIMETER WALLS (Refer to Drawings 174858/16 TO 174870/16) One-sided climbing formwork to accommodate 3.0 m concrete lifts for outlet structure The formwork proposed must consist of sections and adhere to the following standards: ▪ The section must consist of standard formwork items, and the number of items must be kept to the minimum. ▪ The standard width and length of the section will be according to the Engineers Design unless otherwise indicated. ▪ The formwork must be easy to erect, to join and adjustable in height as well as verticality. ▪ The formwork must be able to tilt backwards in order to install climbing cone/brackets. ▪ The formwork must be supported on two support brackets with a hanging platform with railings and flooring with stiffeners as required for retrieving climbing cone/bracket and making concrete repairs as required. ▪ The formwork section must be able to be lifted as a whole by crane. ▪ The formwork section must have a top access platform with railings and flooring. ▪ The formwork must be able to join effectively and efficiently on all corners. ▪ The formwork must be able to produce a smooth concrete finish. <u>RECESSES (BOX OUTS)</u> Different size recesses will be required for the different lifts. The recesses (box outs) will be manufactured from wood. The vertical recesses will be provided with a lifting-hook on top, in order to be pulled up by crane. The horizontal recesses will be of such lengths, that it could be manhandled and supplied with a screw in eye bolt to enable the attachment of a chain block to assist with removal if required. The recess box outs will be screwed to the formwork in such a way that after the screws are removed there will be no protruding elements preventing the formwork to be lifted upwards. The recesses (box outs) will be of such a nature that they will prevent ingress of mortar into the recess (box outs) by filling each box with a hard industrial foam or similar <u>DRAWINGS</u> The drawings issued as part of the bid documents must be regarded as provisional and preliminary for the bidder's benefit to generally assess the scope of work. The work shall be carried out in accordance with the latest available revision of the drawings approved for construction (AFC).			

Formwork Related Load, Pressure and Force Types

1. Load Types related to Formwork designs:

- 1.1. Dead Load from reinforced concrete density (DIN 1055):
 - 1.1.1. For slab thickness less than 1m = 25 kN/m³
 - 1.1.2. For slab thickness greater than 1m and beams = 26 kN/m³
 - 1.1.3. Allowance for fresh concrete (heaping) = 1 kN/m³
- 1.2. Live Loads:
 - 1.2.1. Construction Live Loads assumed as 20% of fresh concrete dead load, but not less than 1.5 kN/m² and not more than 5 kN/m². Self Weight of formwork is included in allowable Construction Live Load (DIN4421).
 - 1.2.2. Access Live Loads for heavy human traffic and tools assumed as 1,6 kN/m².
 - 1.2.3. Platform Live Loads assumed as 1 kN/m² where work is done without heavy tools and equipment.
- 1.3. Dynamic Live Loads:
 - 1.3.1. Imposed Plant Loads, if such loads are expected load values must be supplied by manufacturer,
 - 1.3.2. Concrete Skip impact Loads,
 - 1.3.3. Concrete pipe dynamic movement during pumping,
 - 1.3.4. Excessive heaping of concrete during concrete placement.
- 1.4. Horizontal Loads:
 - 1.4.1. Minimum horizontal stability force (containment force), for example 15% for Sta-Flex.
- 1.5. Environmental Loads:
 - 1.5.1. Snow and Ice loads (not applicable in South Africa),
 - 1.5.2. Wind Loads;
 - 1.5.2.1. Generally 0.5kN/m² for h<8m and 0.8kN/m² for 8<h<20m,
 - 1.5.2.2. If more accurate of greater heights formwork wind loads are required, refer to the Wind Pressure Section of this manual.
 - 1.5.2.3. The aerodynamic coefficient, C_p, for formwork will be simplified to 1.3 due to the geometry.
- 1.6. Hydrostatic Concrete Pressure:
 - 1.6.1. 3 international methods are used for determining concrete pressure in vertical formwork;
 - 1.6.1.1. CIRIA report 108 (United Kingdom), (used by Pre-Form),
 - 1.6.1.2. ACI 347R (USA),
 - 1.6.1.3. DIN 18218 (Germany).
- 1.7. Formwork Self Weight:
 - 1.7.1. Under normal construction conditions Formwork Weight Loads are included in the construction live loads, but special conditions require additional load consideration;
 - 1.7.1.1. where large imposed loads have to be supported, resulting in above average amount of support,
 - 1.7.1.2. great heights of support or access scaffolding,
 - 1.7.1.3. climbers on walls and cores,
 - 1.7.1.4. loading platforms,
 - 1.7.1.5. specialized formwork, etc.

2. Back Propping Loads

- 2.1. Two common types of loads are normally given, refer to the Back Propping section of this manual for more information and calculations:
 - 2.1.1. Slab resistance as a percentage of initial dead and live loads, imposed by the fresh concrete pour,
 - 2.1.2. Design Live Loads for what the slab was designed for.

Vertical Formwork Related Slab and Beam Loads

1. Units and symbols:

- 1.1. F = total vertical load for an area due to the combined dead and live loads in kN;
- 1.2. F_d = dead load of the concrete and reinforcing for an area in kN;
- 1.3. F_l = live loads imposed by construction activities and form work for an area in kN;
- 1.4. ω = total load per unit length in kN/m;
- 1.5. P = total area load that the concrete will impose in kN/m²;
- 1.6. P_d = dead area load of concrete in kN/m²;
- 1.7. P_L = construction live area load in kN/m²;
- 1.8. ρ = density in kN/m³;
- 1.9. A = area of interest in kN/m²;
- 1.10. d = thickness or depth of slab in m;

2. Vertical loads imposed by fresh slab on support formwork during normal construction conditions casting:

2.1. Formulas:

- 2.1.1. F = dead load + live load = $p.d.A + P_L.A$ (kN) - Load in kN for $d < 250\text{mm}$ and $d > 1000$
- 2.1.2. or F = dead load x 20% = $p.d.A \times 1.2$ (kN) - Load in kN for $250 < d < 1000\text{mm}$
- 2.1.3. P = $p.d + P_L$ (kN/m²) - Pressure in kN/m²

2.2. Dead Load:

- 2.2.1. $F_d = p.d.A$ (kN)
- 2.2.2. $P_d = p.d$ (kN/m²)
- 2.2.3. $p = 26\text{kN/m}^3$, ($25\text{kN/m}^3 + 1\text{kN/m}^3$) if $d < 1\text{m}$... 1kN/m^3 for heaping
- 2.2.4. $p = 27\text{kN/m}^3$, ($26\text{kN/m}^3 + 1\text{kN/m}^3$) if $d > 1\text{m}$... 1kN/m^3 for heaping

2.3. Live Load:

- 2.3.1. $P_L = 1.2.P_d$ but $1.5 < P_L < 5$ kN/m²
- 2.3.2. Refer to "Construction Live Loads vs. slab thickness graph" at bottom right side of page.

2.4. Other Loads:

- 2.4.1. The formulas stated and table is for normal construction conditions without excessive heaping during concrete placement. If dynamic or other type of loads are expected, it must be added.

3. Tabulated concrete loads for slab thickness:

Vertical Wet Concrete Loads (kN/m ²)			
Slab Thickness (m)	Dead Load (kN/m ²)	Live Load (kN/m ²)	Total Load (kN/m ²)
0.17	4.4	1.5	5.9
0.2	5.2	1.5	6.7
0.25	6.5	1.5	8
0.3	7.8	1.6	9.4
0.35	9.1	1.8	10.9
0.4	10.4	2.1	12.5
0.45	11.7	2.3	14
0.5	13	2.6	15.6
0.55	14.3	2.9	17.2
0.6	15.6	3.1	18.7
0.65	16.9	3.4	20.3
0.7	18.2	3.6	21.8
0.75	19.5	3.9	23.4
0.8	20.8	4.2	25
0.85	22.1	4.4	26.5
0.9	23.4	4.7	28.1
0.95	24.7	4.9	29.6
1	26	5	31
DIN 1055 and DIN 4421			

Concrete weight alternative formula:

To calculate the force or weight of an area wet concrete, use the table to determine Total Load for a corresponding slab thickness.

1. Formula

- 1.1. $F = P.A$ (kN)
- 1.2. eg. the weight of a 2 x 2m, and 400mm slab will be : $F = 12.5 \times (2 \times 2) = 50$ kN

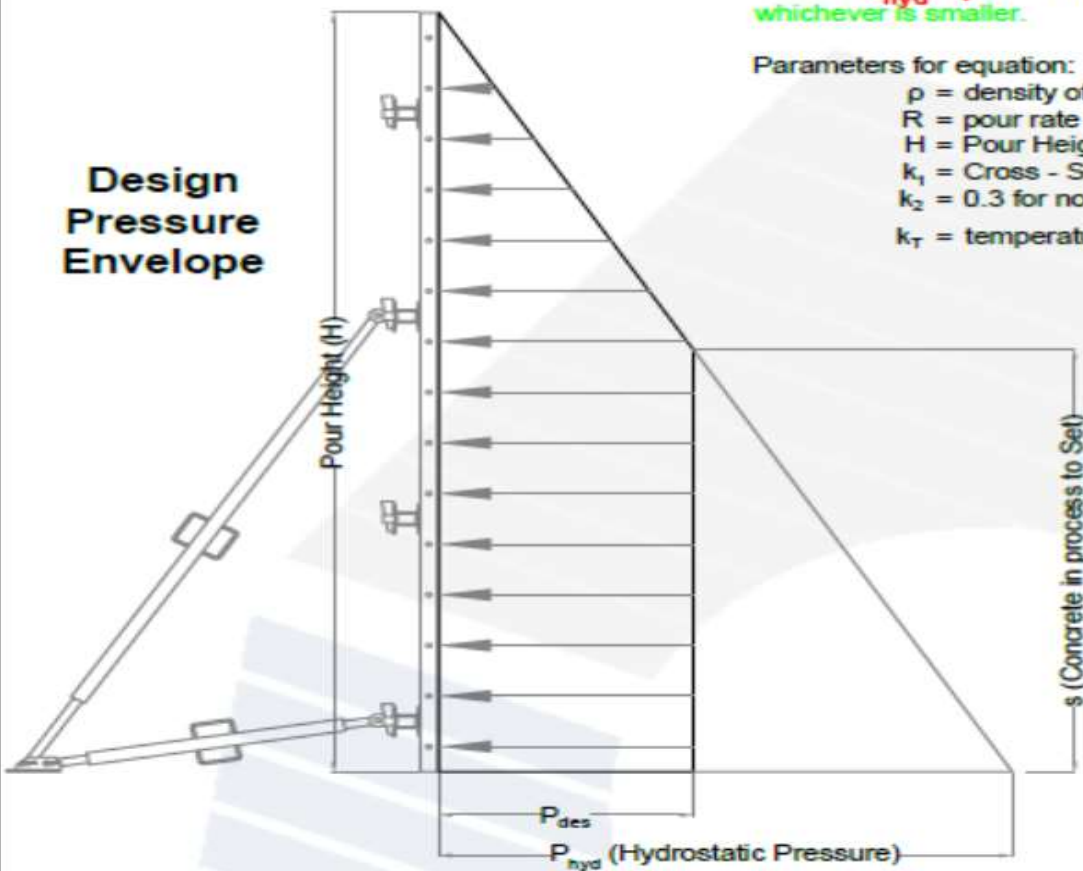
2. Uses:

- 2.1. Leg load,
- 2.2. Prop Load,
- 2.3. Total weight to be back propped,
- 2.4. Counter balance block weight, etc.



Hydrostatic Formwork Concrete Pressures

CIRIA Report 108



$$P_{des} = \rho(k_1\sqrt{R} + k_2 \cdot k_T \sqrt{H - k_1\sqrt{R}}) \quad \dots \text{lateral design pressure}$$

or

$$P_{hyd} = \rho H \quad \dots \text{full hydrostatic pressure}$$

whichever is smaller.

Parameters for equation:

- ρ = density of concrete (kN/m^3);
- R = pour rate (m/h);
- H = Pour Height (m);
- k_1 = Cross - Section Coefficient*, (1 for walls and 1.5 for columns);
- k_2 = 0.3 for normal concrete, and 0.45 for concrete with setting retarders;
- k_T = temperature coefficient where: $k_T = \left(\frac{36}{T+16}\right)^2$ °C.

***Note:**

k_1 = Cross-Section Coefficient.
 k_1 in the CIRIA Report 108 is 1 for walls and 1.5 for columns.
 If both edge lengths in plan are smaller than 2m, the cross-section are designated as a column.

Example:

Assume normal concrete of density 25kN/m^3 , wall section, 3m shutters, with a pour rate of 2m/h at 10°C .

$$P_{des} = 25(1\sqrt{2} + 0.3 \times 1.349\sqrt{3 - 1\sqrt{2}}) = 48 \text{ kPa}$$

or

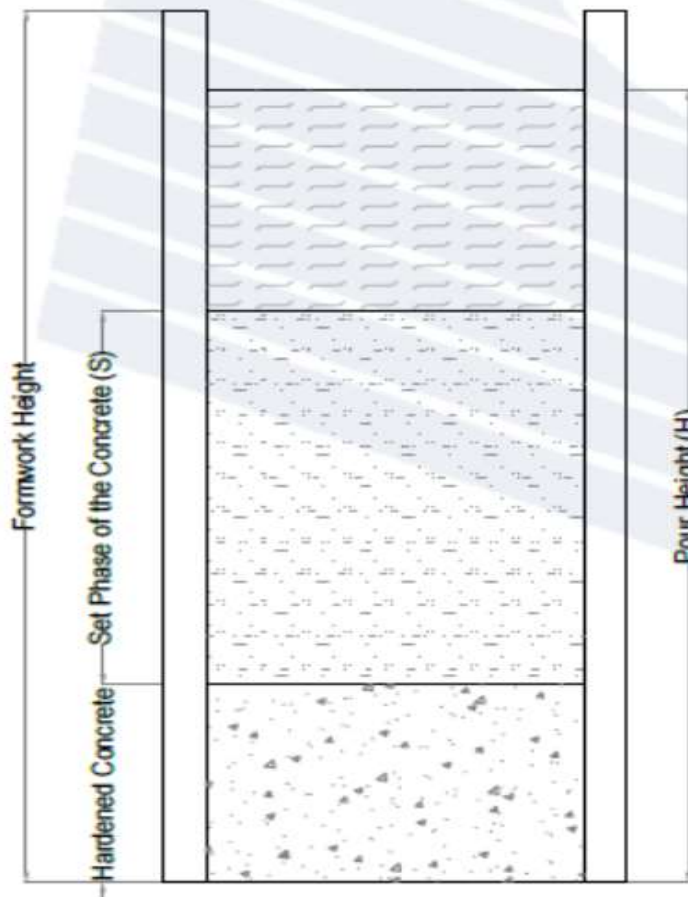
$$P_{hyd} = \rho H = 25 \times 3 = 75 \text{ kPa}$$

Pressure will be approximate 48 kPa.

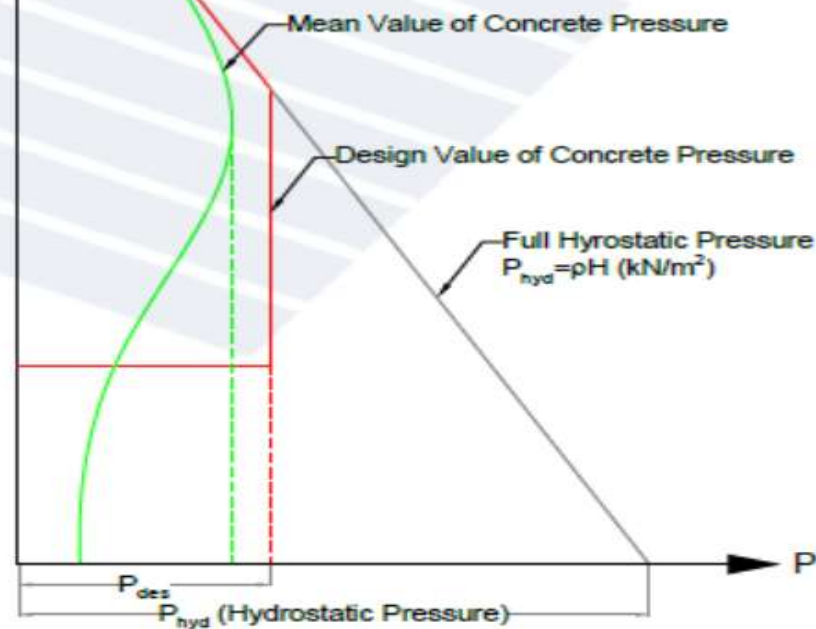
How to determine s:

$$\text{Formula: } s = \frac{(\rho H - P_{des})}{\rho}$$

$$\text{Example: } s = \frac{(25 \times 3 - 48)}{25} = 1.08 \text{ m}$$

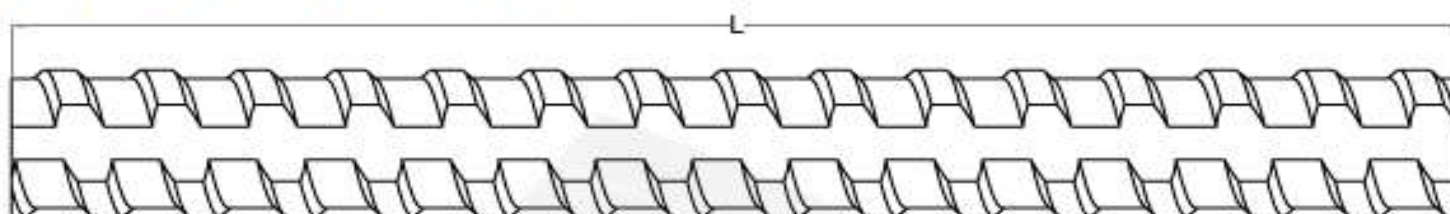


Distribution of Mean Lateral Pressure Imposed by Fresh Concrete on Formwork compared to Design Pressure with Low Pour Rates.



Tie Rods

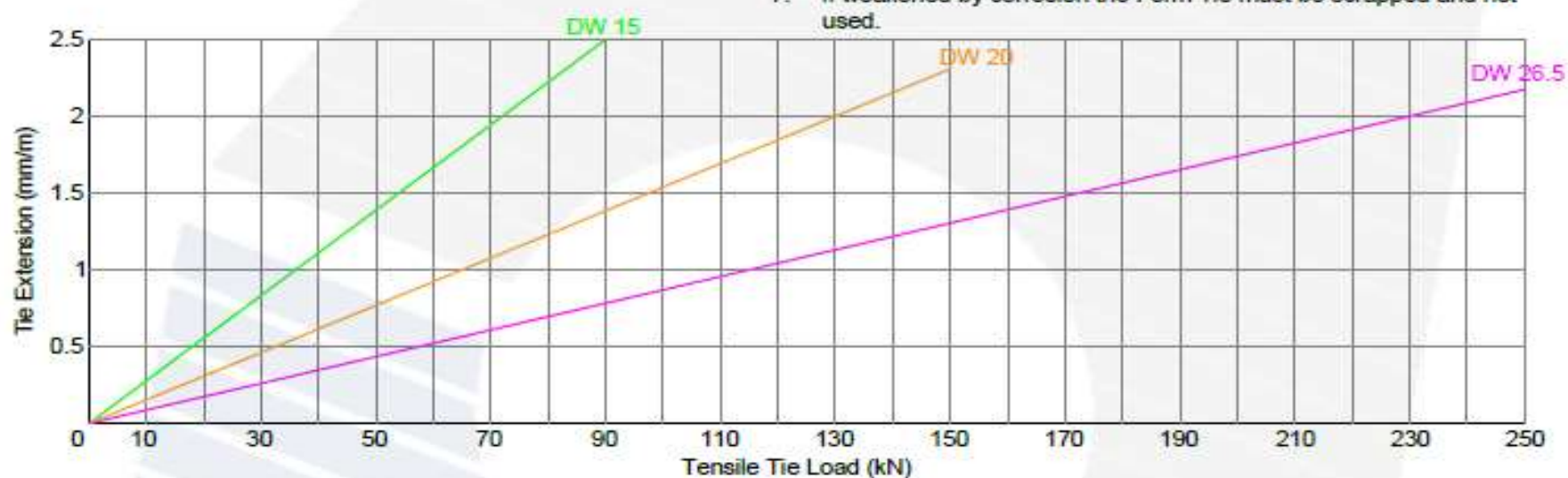
Diwidag tie rods (DW 15; DW 20; DW 26.5)



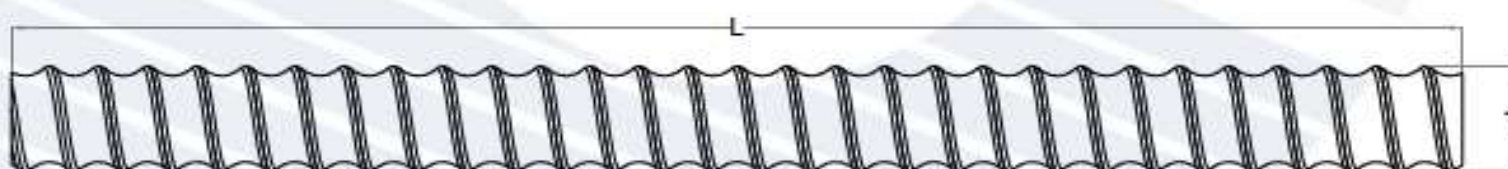
	DW 15	DW 20	DW 26.5
Nominal cross-section area (mm ²)	177	314	551
Weight (kg/m)	1.5	2.6	4.5
Safe working load (kN)	90	150	250
Maximum diameter (mm)	18	23	31
Maximum shear (kN)	5	10	15

Note:

1. Shear force to a small extent allowed on Diwidag Bars.
2. Concrete strength must be at a minimum of 10MPa for the shear values.
3. If Diwidag rod is in shear, no large tensile forces are allowed.
4. If larger shear force are required use climbing anchor.
5. No welding or heat allowed.
6. Weldable Diwidag bar can be supplied on request.
7. If weakened by corrosion the Form Tie must be scrapped and not used.



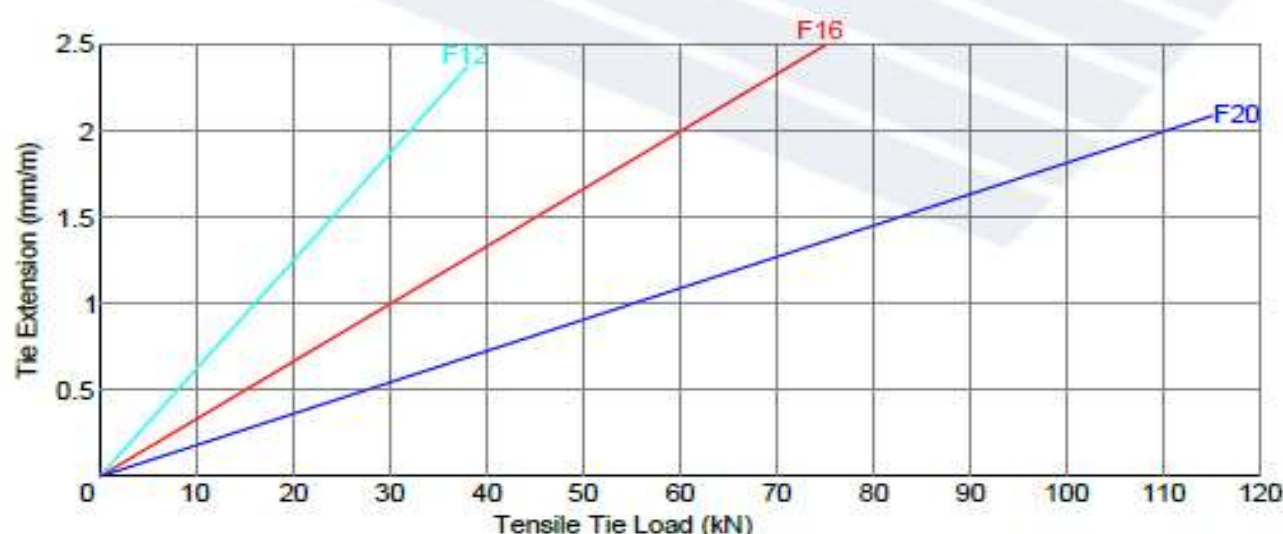
Form tie rods (F12; F16; F20)



	F12	F16	F20
Actual diameter (mm)	12.2	16.1	21.1
Weight (kg/m)	0.8	1.6	2.5
Safe working load (kN)	38	80	114
Nominal cross-section area (mm ²)	78.5	145	269

Note:

1. No shear force permitted on Form Ties.
2. No welding or heat allowed.
3. If weakened by corrosion the Form Tie must be scrapped and not used.



Wind pressure in South Africa

1. Regions:

Wind pressure calculations according to SANS 10160 section 5.5.

Values in the Wind Pressure Table were calculated for Zone 1 on the map.

Pressures for sites in Zone 2, and other regions, can be supplied by Preform Design Office.

Refer to Wind Classifications and values for more information.

2. Design requirements:

The simplified wind forces set out below may be adapted for design purposes, provided that the shutter complies with the following requirements:

2.1. it is rectangular in shape, and

2.2. its overall height does not exceed 200m above ground level, and

2.3. the ratio of its overall height to its lesser plan dimension does not exceed

If all 3 requirements are not met, refer to the Wind Pressure in South Africa Table.



Pressure and wind speed for a 10 year return period on wall formwork

Site Altitude (m)	Height above ground, z (m)	Terrain Category 1			Terrain Category 2			Terrain Category 3			Terrain Category 4		
		v_z (km/h)	q_z (kN/m ²)	P_w (kN/m ²)	v_z (km/h)	q_z (kN/m ²)	P_w (kN/m ²)	v_z (km/h)	q_z (kN/m ²)	P_w (kN/m ²)	v_z (km/h)	q_z (kN/m ²)	P_w (kN/m ²)
0	5	133.49	0.82	1.07	121.82	0.69	0.89	86.83	0.35	0.45	84.24	0.33	0.43
	10	141.26	0.92	1.20	129.60	0.78	1.01	95.90	0.43	0.55	84.24	0.33	0.43
	15	145.15	0.98	1.27	134.78	0.84	1.09	104.98	0.51	0.66	84.24	0.33	0.43
	20	147.74	1.01	1.31	138.67	0.89	1.16	111.46	0.58	0.75	84.24	0.33	0.43
	50	158.11	1.16	1.50	150.34	1.05	1.36	129.60	0.78	1.01	111.46	0.58	0.75
	100	165.89	1.27	1.66	159.41	1.18	1.53	143.86	0.96	1.25	129.60	0.78	1.01
	150	169.78	1.33	1.73	165.89	1.27	1.66	152.93	1.08	1.41	139.97	0.91	1.18
	200	173.66	1.40	1.82	169.78	1.33	1.73	159.41	1.18	1.53	158.11	1.16	1.50
500	5	133.49	0.77	1.00	121.82	0.64	0.83	86.83	0.33	0.42	84.24	0.31	0.40
	10	141.26	0.86	1.12	129.60	0.73	0.94	95.90	0.40	0.52	84.24	0.31	0.40
	15	145.15	0.91	1.18	134.78	0.78	1.02	104.98	0.48	0.62	84.24	0.31	0.40
	20	147.74	0.94	1.23	138.67	0.83	1.08	111.46	0.54	0.70	84.24	0.31	0.40
	50	158.11	1.08	1.40	150.34	0.98	1.27	129.60	0.73	0.94	111.46	0.54	0.70
	100	165.89	1.19	1.55	159.41	1.10	1.43	143.86	0.89	1.16	129.60	0.73	0.94
	150	169.78	1.25	1.62	165.89	1.19	1.55	152.93	1.01	1.31	139.97	0.85	1.10
	200	173.66	1.30	1.69	169.78	1.25	1.62	159.41	1.10	1.43	158.11	1.08	1.40
1000	5	133.49	0.73	0.95	121.82	0.61	0.79	86.83	0.31	0.40	84.24	0.29	0.38
	10	141.26	0.82	1.06	129.60	0.69	0.89	95.90	0.38	0.49	84.24	0.29	0.38
	15	145.15	0.86	1.12	134.78	0.74	0.97	104.98	0.45	0.59	84.24	0.29	0.38
	20	147.74	0.89	1.16	138.67	0.79	1.02	111.46	0.51	0.66	84.24	0.29	0.38
	50	158.11	1.02	1.33	150.34	0.92	1.20	129.60	0.69	0.89	111.46	0.51	0.66
	100	165.89	1.13	1.46	159.41	1.04	1.35	143.86	0.85	1.10	129.60	0.69	0.89
	150	169.78	1.18	1.53	165.89	1.13	1.46	152.93	0.96	1.24	139.97	0.80	1.04
	200	173.66	1.23	1.60	169.78	1.18	1.53	159.41	1.04	1.35	158.11	1.02	1.33
1500	5	133.49	0.69	0.89	121.82	0.57	0.74	86.83	0.29	0.38	84.24	0.27	0.36
	10	141.26	0.77	1.00	129.60	0.65	0.84	95.90	0.35	0.46	84.24	0.27	0.36
	15	145.15	0.81	1.06	134.78	0.70	0.91	104.98	0.43	0.55	84.24	0.27	0.36
	20	147.74	0.84	1.09	138.67	0.74	0.96	111.46	0.48	0.62	84.24	0.27	0.36
	50	158.11	0.96	1.25	150.34	0.87	1.13	129.60	0.65	0.84	111.46	0.48	0.62
	100	165.89	1.06	1.38	159.41	0.98	1.27	143.86	0.80	1.04	129.60	0.65	0.84
	150	169.78	1.11	1.45	165.89	1.06	1.38	152.93	0.90	1.17	139.97	0.76	0.98
	200	173.66	1.16	1.51	169.78	1.11	1.45	159.41	0.98	1.27	158.11	0.96	1.25
2000	5	133.49	0.65	0.84	121.82	0.54	0.70	86.83	0.27	0.36	84.24	0.26	0.33
	10	141.26	0.72	0.94	129.60	0.61	0.79	95.90	0.33	0.43	84.24	0.26	0.33
	15	145.15	0.76	0.99	134.78	0.66	0.86	104.98	0.40	0.52	84.24	0.26	0.33
	20	147.74	0.79	1.03	138.67	0.70	0.91	111.46	0.45	0.59	84.24	0.26	0.33
	50	158.11	0.91	1.18	150.34	0.82	1.07	129.60	0.61	0.79	111.46	0.45	0.59
	100	165.89	1.00	1.30	159.41	0.91	1.20	143.86	0.75	0.89	129.60	0.61	0.79
	150	169.78	1.05	1.36	165.89	1.00	1.30	152.93	0.85	1.10	139.97	0.71	0.92
	200	173.66	1.09	1.42	169.78	1.05	1.36	159.41	0.92	1.20	158.11	0.91	1.18

Wind Terrain Classification

3. Terrain Categories:

3.1. Terrain Category 1:

Exposed smooth terrain with no obstructions and in which the height of any obstruction is less than 1,5m. This category includes open sea coasts, lake shores, treeless plains with little vegetation other than short grass.

3.2. Terrain Category 2:

Open terrain with widely spaced obstructions (more than 100m apart) having heights and plan dimensions generally between 1,5m and 10m. This category includes large airfields, open parklands, farmlands and undeveloped outskirts of towns and suburbs, with trees. This is the category on which the regional basic wind speed V is based.

3.3. Terrain Category 3:

Terrain having numerous closely spaced obstructions generally having the size of domestic houses. This category includes suburbs, towns and industrial areas, fully or substantially developed.

3.4. Terrain Category 4:

Terrain with numerous large, tall, closely-spaced obstructions. This category includes large city centres.

4. Local topography:

Where the local topography, and large buildings, is such that increases in wind speeds may occur as a result of funneling or other effects, adjust the design wind speed accordingly, on the basis of appropriate metrological advice or tests.

Values:

V_z	from SABS 0160 Drg. 11701-EC/00-07
K_r	from SABS 0160 Drg. 11703-EC/00-07
k_z	from SANS10160 Table 5
k_p	from SANS 10160 section 5.5.3.1
C_p	generally 1,3 for wall formwork

Formulae:

- $V_z = k_z K_r V$...m/s
- $q_z = k_p V_z^2$...kN/m²
- $P_w = q_z C_p$...kN/m²

Note:

1 m/s = 3.6 km/h

Timber Platforms, Handrail Holders and Railing Posts

Timber Scaffold Plank/Board Span Spacing

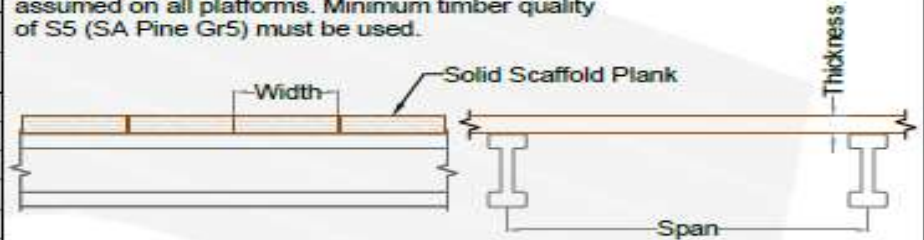
Scaffold Groups as per DIN 4420-1:2006

Scaffold Group	Min. platform width (m)	Live load (kN/m ²)	Description and areas of application
1	0.5	0.75	Inspection activities with light weight tools. No storage of materials. Walkways with light traffic. Retrieve platforms.
2	0.6	1.5	Work activities that do not require storage of material or heavy tools. Access platforms.
3	0.6	2	Platforms for persons and tools. Tools and materials must not be put on platform with lifting device. Climber platforms.
4	0.9	3	Platforms for persons and materials loaded with lifting device. Klik-Klak platforms.
5	0.9	4.5	Same use as Scaffold Group 4 but with higher load permitted.
6	0.9	6	Same use as Scaffold Group 4 but with higher load permitted.

Max spans for scaffold plank as platforms (m) - DIN 4420-3:2006-01

Scaffold Group	Plank Width (mm)	Plank Thickness (mm)				
		30	35	40	45	50
1, 2, 3	200	1.25	1.5	1.75	2.25	2.5
	240, 280	1.25	1.75	2.25	2.5	2.75
4	200	1.25	1.5	1.75	2.25	2.5
	240, 280	1.25	1.75	2	2.25	2.5
5	200, 240, 280	1.25	1.25	1.5	1.75	2
6	200, 240, 280	1	1.25	1.25	1.5	1.75

A minimum service load of 0.75kN/m² should be assumed on all platforms. Minimum timber quality of S5 (SA Pine Gr5) must be used.



Upright Post Support Spacing

1. Timber railing design as per SABS 0136-2001.
2. Minimum timber quality of S5 (SA Pine Gr5) must be used.
3. Ø48.3mm Scaffold tube design as per SANS 10162-2005.
4. C_p of 1.3 will be used in wind pressure.
5. Wind pressure, P_w , will be assumed 1.7kPa.
6. A horizontal load of $F = 0.3kN$ will be used in calculations.
7. For other railing material not shown in table, the allowable spans and cantilever must be calculated.

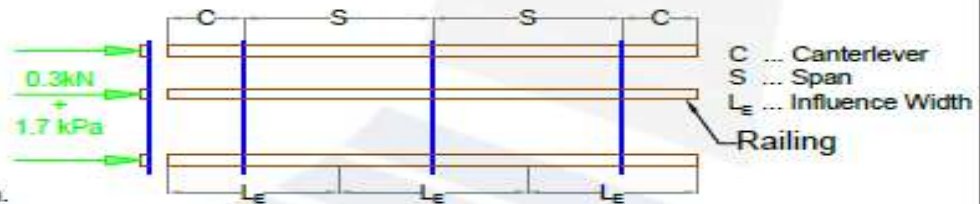
Railing

This table is not for closed up (no-gap) configurations. Where the railings are closed up with plyboard, sheeting or mesh that will increase the wind loadings on the railings.

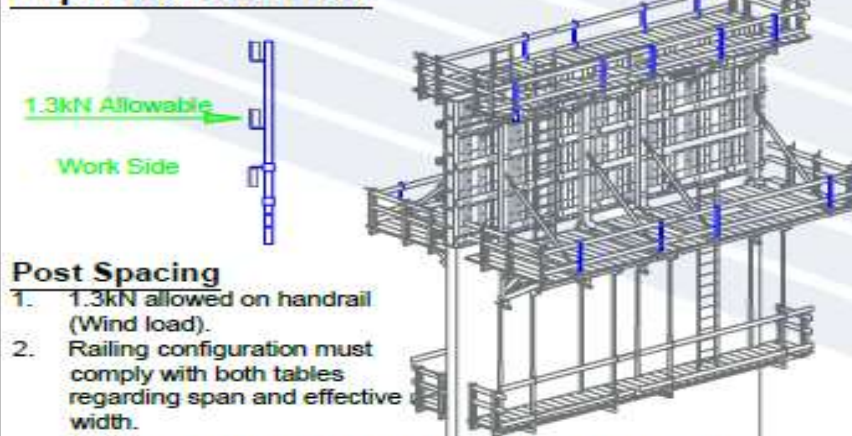
Influence Width and Span

It is important to distinguish between Span and Influence Width. The table show the maximum Influence Width and Maximum Span.

Railing material	Maximum Span (m)	Maximum Cantilever (m)	Influence Width (m)
114 x 38mm S5 Structural Grade SA Timber	3.6	1.2	3.6
280 x 32mm Scaffold Board	2.7	0.9	2.7
280 x 50mm Scaffold Board	4.7	1.7	4.7
Ø48.3 x 2.5mm S355 Scaffold Tube	5	1.3	5



Rapid Handrail Post



Post Spacing

1. 1.3kN allowed on handrail (Wind load).
2. Railing configuration must comply with both tables regarding span and effective width.

Maximum Effective Widths L_E (m) of Handrail Post

Railing material	Maximum Effective Widths L_E (m) of Handrail Post	
	0-50m above ground ($q_z=1kN/m^2$)	50-100m above ground ($q_z=1.3kN/m^2$)
114 x 38mm S5 Structural Grade SA Timber	3.6	2.9
280 x 32/50mm Scaffold Board	1.6	1.2
Closed up (no gap) configuration	1	0.8
Ø48.3 x 2.5mm S355 Scaffold Tube	5	5

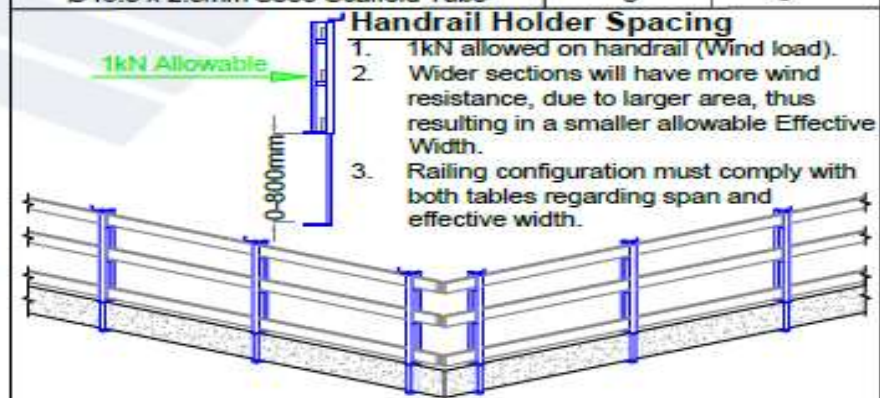
Adjustable Handrail Holder

Maximum Effective Widths L_E (m) of Handrail Holders

Railing material	Maximum Effective Widths L_E (m) of Handrail Holders	
	0-50m above ground ($q_z=1kN/m^2$)	50-100m above ground ($q_z=1.3kN/m^2$)
114 x 38mm S5 Structural Grade SA Timber	2.9	2.3
280 x 32/50mm Scaffold Board	1.2	0.9
Closed up (no gap) configuration	1	0.8
Ø48.3 x 2.5mm S355 Scaffold Tube	5	5

Handrail Holder Spacing

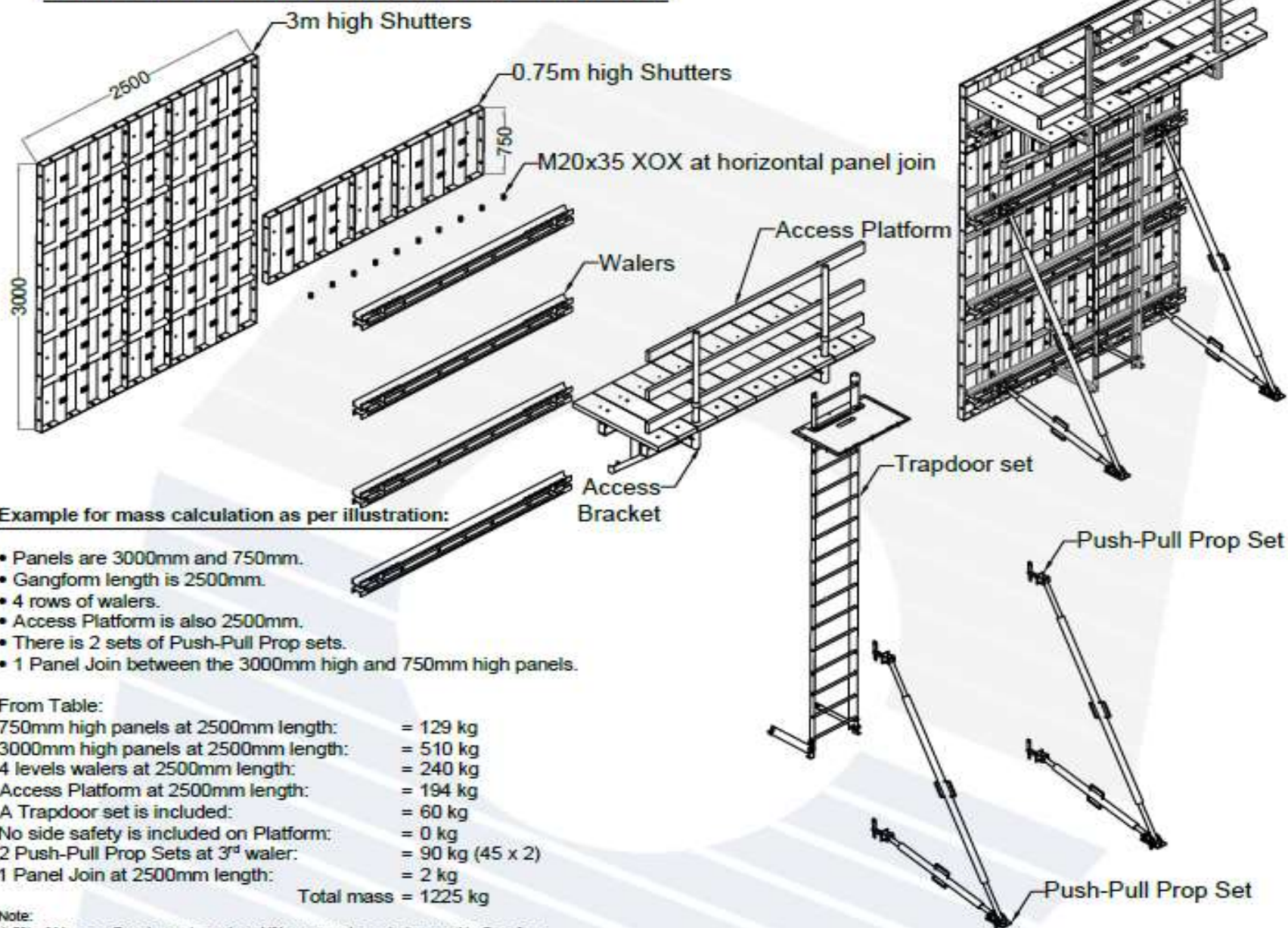
1. 1kN allowed on handrail (Wind load).
2. Wider sections will have more wind resistance, due to larger area, thus resulting in a smaller allowable Effective Width.
3. Railing configuration must comply with both tables regarding span and effective width.



HD Panels configured as Wall Gangform - Masses

2.5m x 3.75m High Gangform setup

2.5m x 3.75m High Gangform setup - Exploded



Example for mass calculation as per illustration:

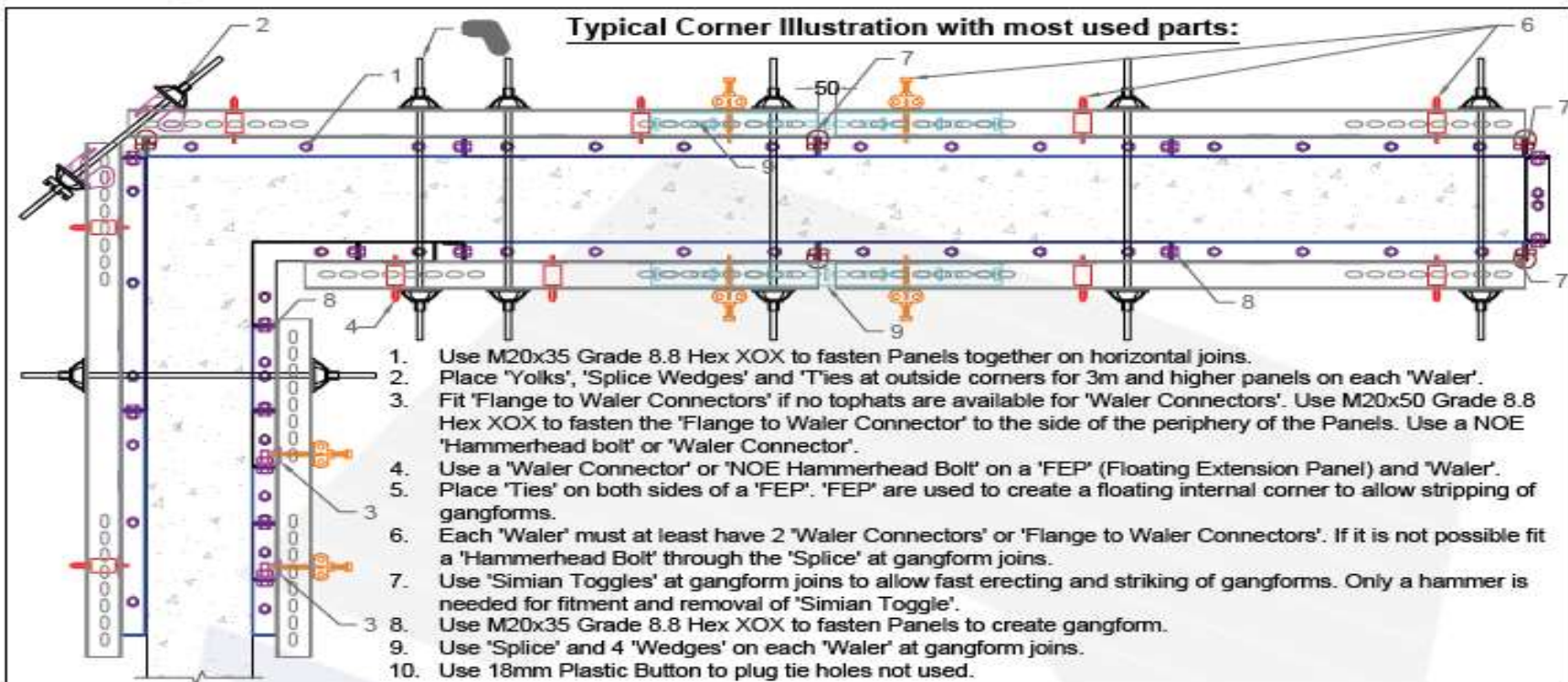
- Panels are 3000mm and 750mm.
- Gangform length is 2500mm.
- 4 rows of walers.
- Access Platform is also 2500mm.
- There is 2 sets of Push-Pull Prop sets.
- 1 Panel Join between the 3000mm high and 750mm high panels.

From Table:
 750mm high panels at 2500mm length: = 129 kg
 3000mm high panels at 2500mm length: = 510 kg
 4 levels walers at 2500mm length: = 240 kg
 Access Platform at 2500mm length: = 194 kg
 A Trapdoor set is included: = 60 kg
 No side safety is included on Platform: = 0 kg
 2 Push-Pull Prop Sets at 3rd waler: = 90 kg (45 x 2)
 1 Panel Join at 2500mm length: = 2 kg
Total mass = 1225 kg

Note:
 4-5% of Mass on Panels can be reduced if large panels are being used in Gangform.

Estimated mass calculator per HD Gangform in kg (5% factored)		Length of Gangform (mm)											
Panel height series (includes fasteners)	500mm high	18	36	55	73	92	110	128	147	165	184	202	220
	750mm high	25	51	77	103	129	155	181	207	233	259	285	311
	1000mm high	34	70	105	140	175	211	246	281	317	352	387	422
	3000mm high	100	202	305	408	510	613	716	818	921	1024	1126	1229
Walers (includes Waler to Panel Clamps)	1 level	12	24	36	48	60	72	84	96	108	120	132	144
	2 levels	24	48	72	96	120	144	168	192	216	240	264	288
	3 levels	36	72	108	144	180	216	252	288	324	360	396	432
	4 levels	48	96	144	192	240	288	336	384	432	480	528	576
	5 levels	60	120	180	240	300	360	420	480	540	600	660	720
	6 levels	72	144	216	288	360	432	504	576	648	720	792	864
Access Platform (3 brackets from 3.5m wide)	Access Platform	-	104	134	164	194	224	276	328	380	432	484	536
	Trapdoor set	-	60	60	60	60	60	60	60	60	60	60	60
	One end safety	-	44	44	44	44	44	44	44	44	44	44	44
	Both ends safety	-	88	88	88	88	88	88	88	88	88	88	88
Push-Pull Props (Per Set)	3rd waler (Type A)	45	45	45	45	45	45	45	45	45	45	45	45
	4th waler (Type B)	50	50	50	50	50	50	50	50	50	50	50	50
Horizontal Panel Joints (no Soldiers)	1 Panel Join	0	1	1	2	2	3	3	4	4	5	5	6
	2 Panel Joins	1	2	3	4	5	6	7	8	8	9	10	11
	3 Panel Joins	1	3	4	6	7	8	10	11	13	14	16	17
Add for Total added mass (kg)													

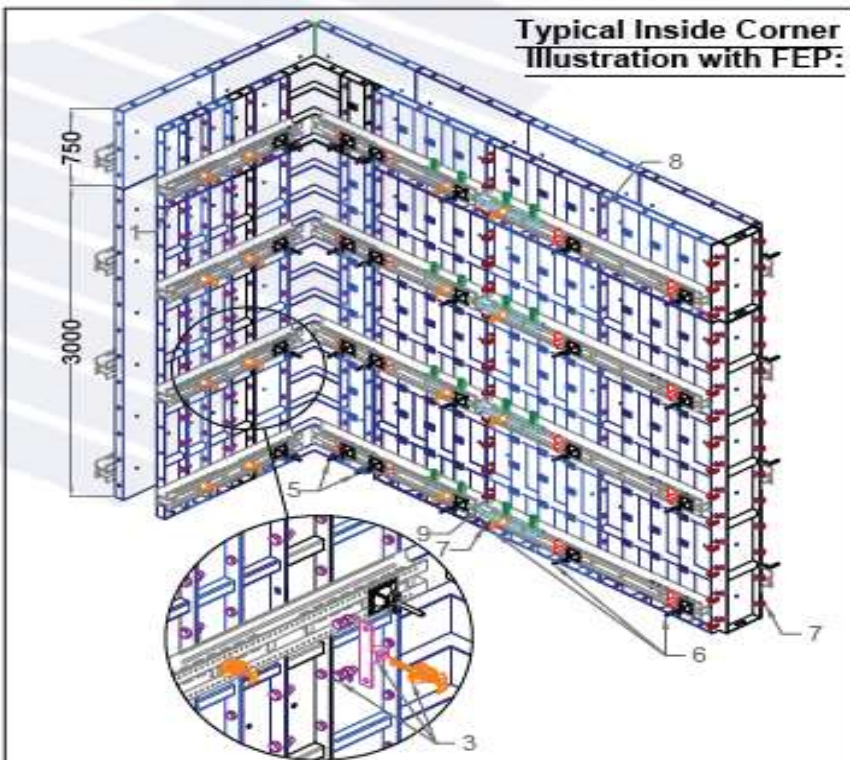
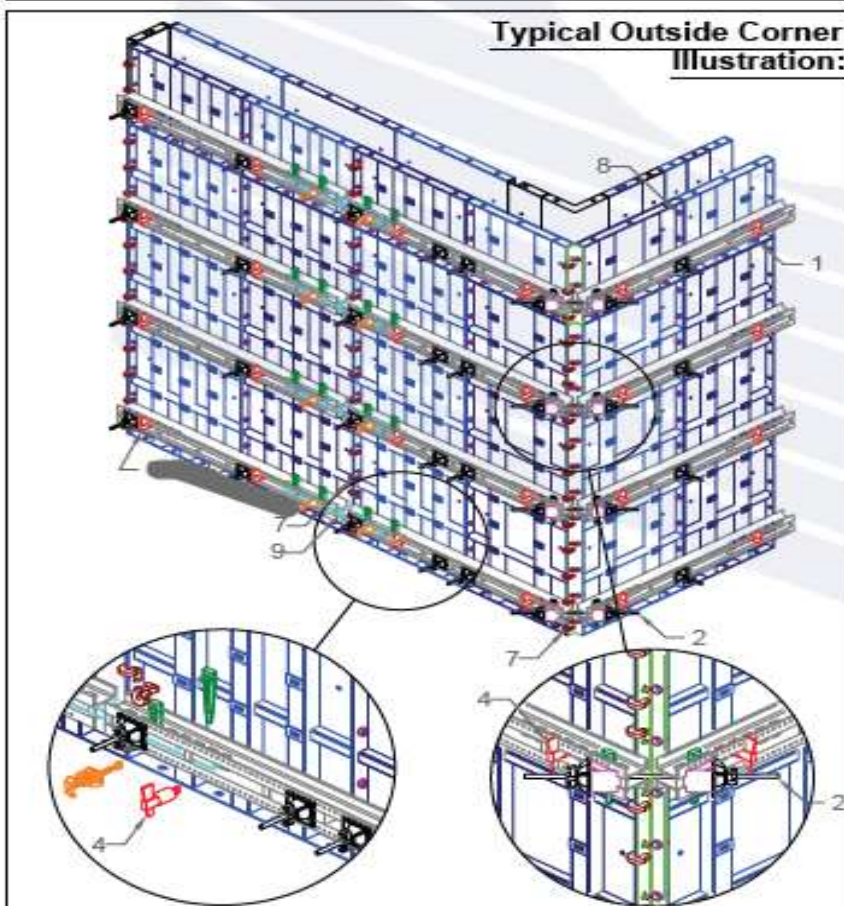
HD Wall Recommended Design Parameters



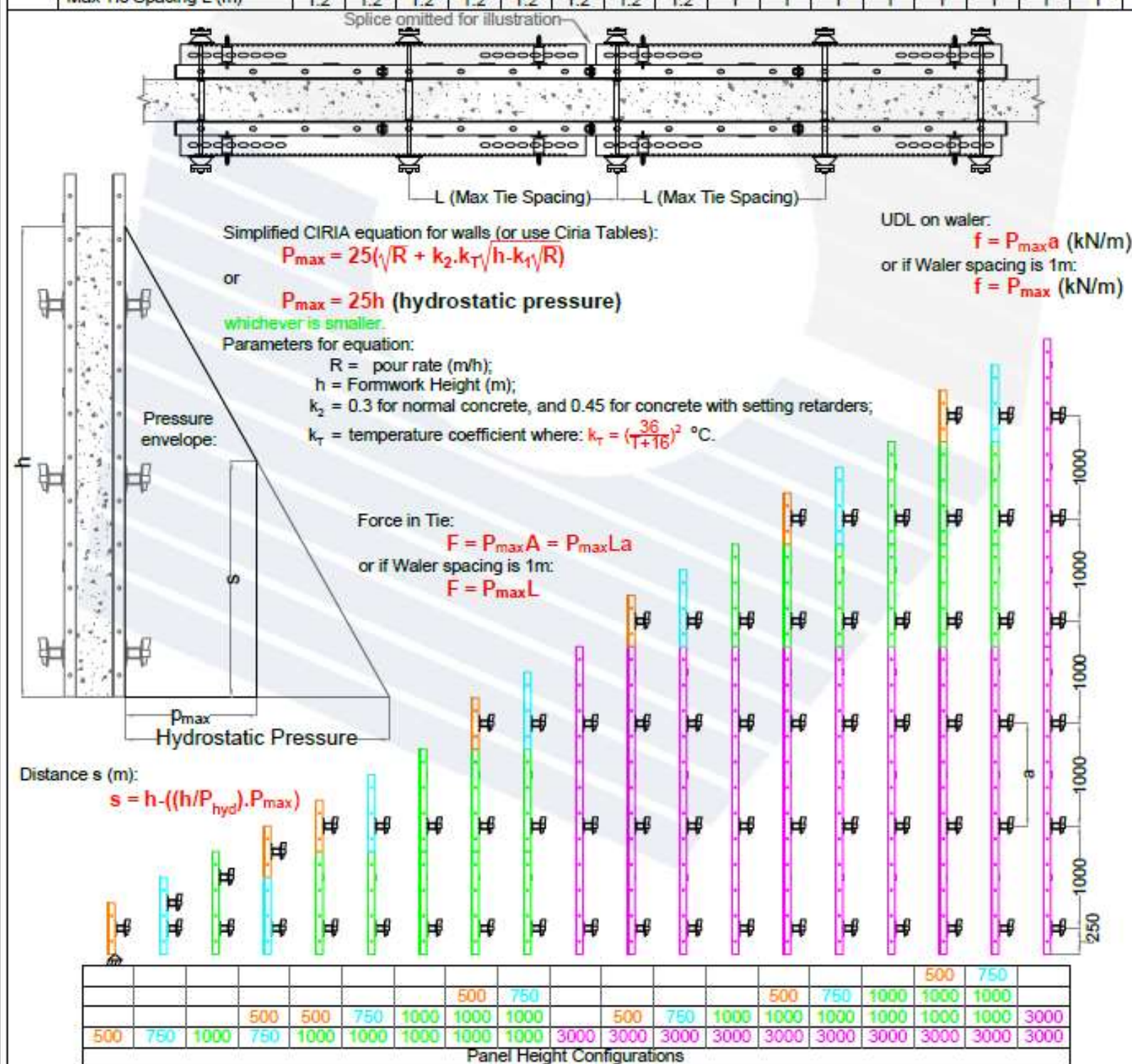
HD (Heavy Duty) System:

A crane handled, all steel system with 4mm faceplate, enforced with tophats in both the vertical and horizontal direction. Ideal for off-shutter finish and repetitive elements, eg. cores and retaining walls. The system is designed for 100 kN/m².

Components:

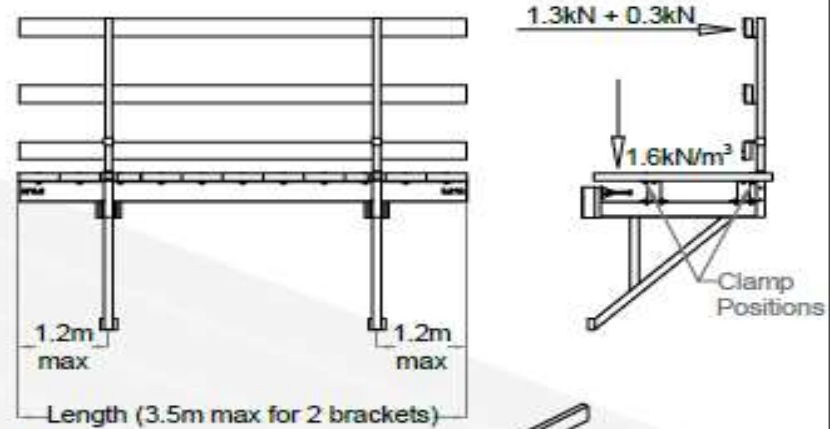
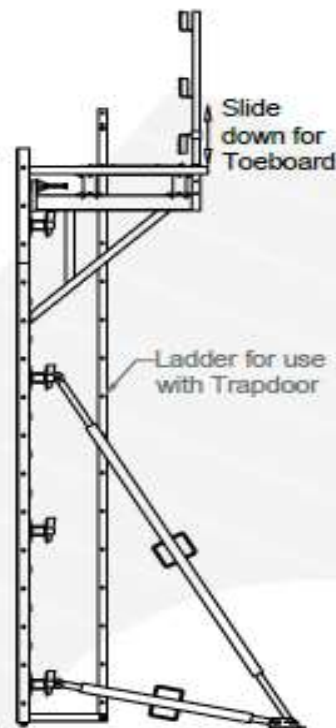
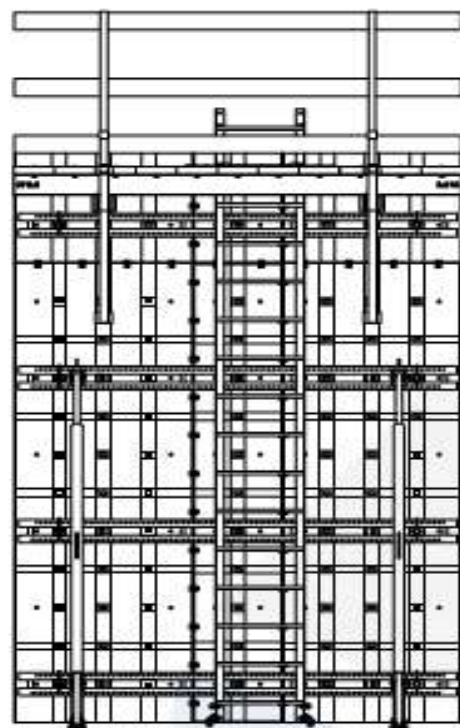


HD Wall Gangform Tie and Waler Spacing

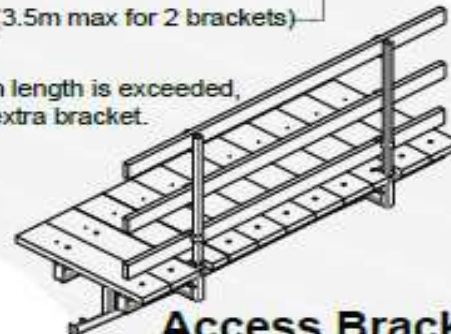
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HD Access Platforms

114 x 38mm S5 Structural Grade SA Timber shown for handrail.



Note:
If the 3.5m length is exceeded, place an extra bracket.

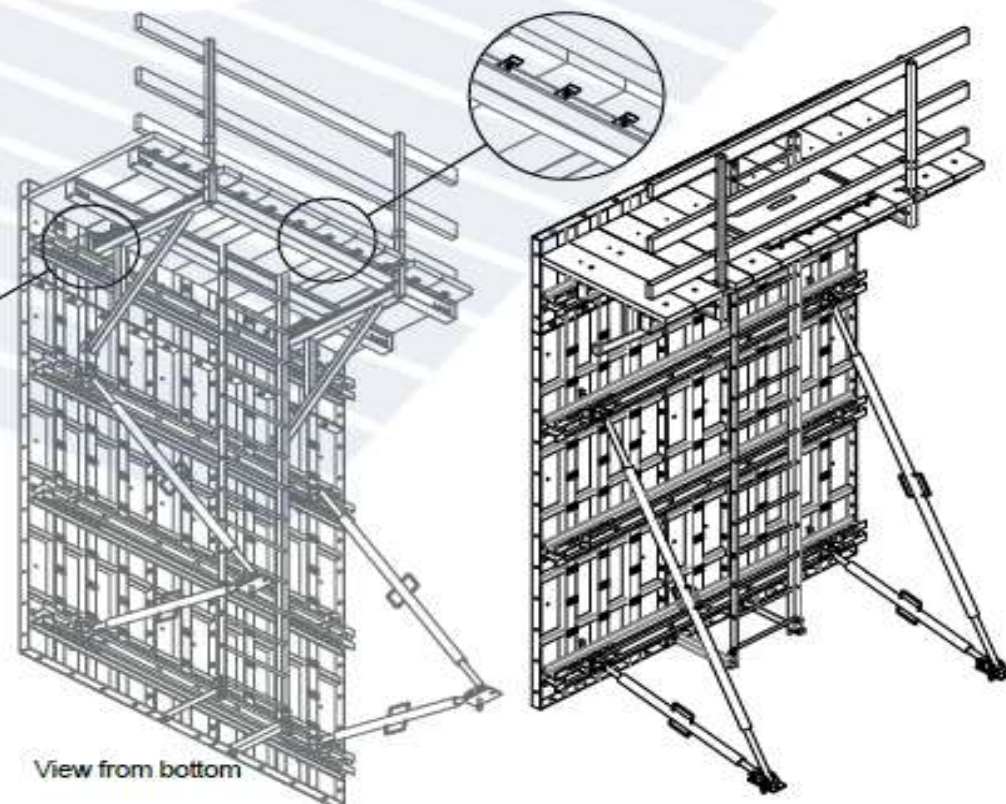
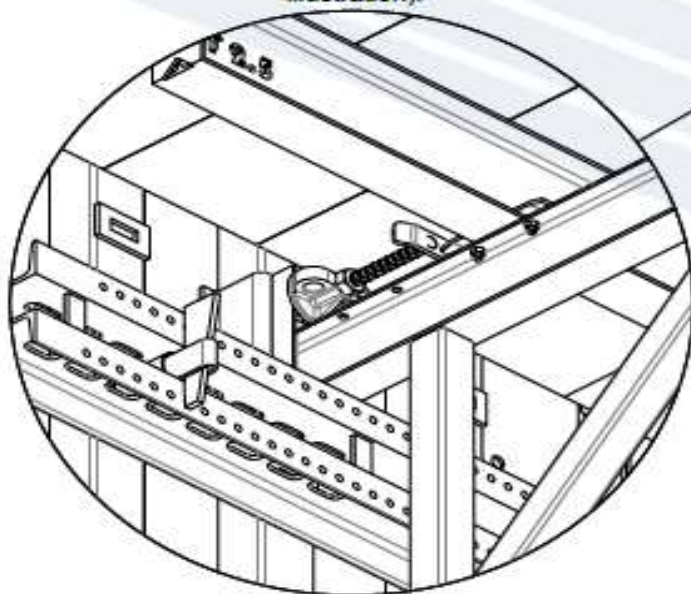


Access Bracket Design

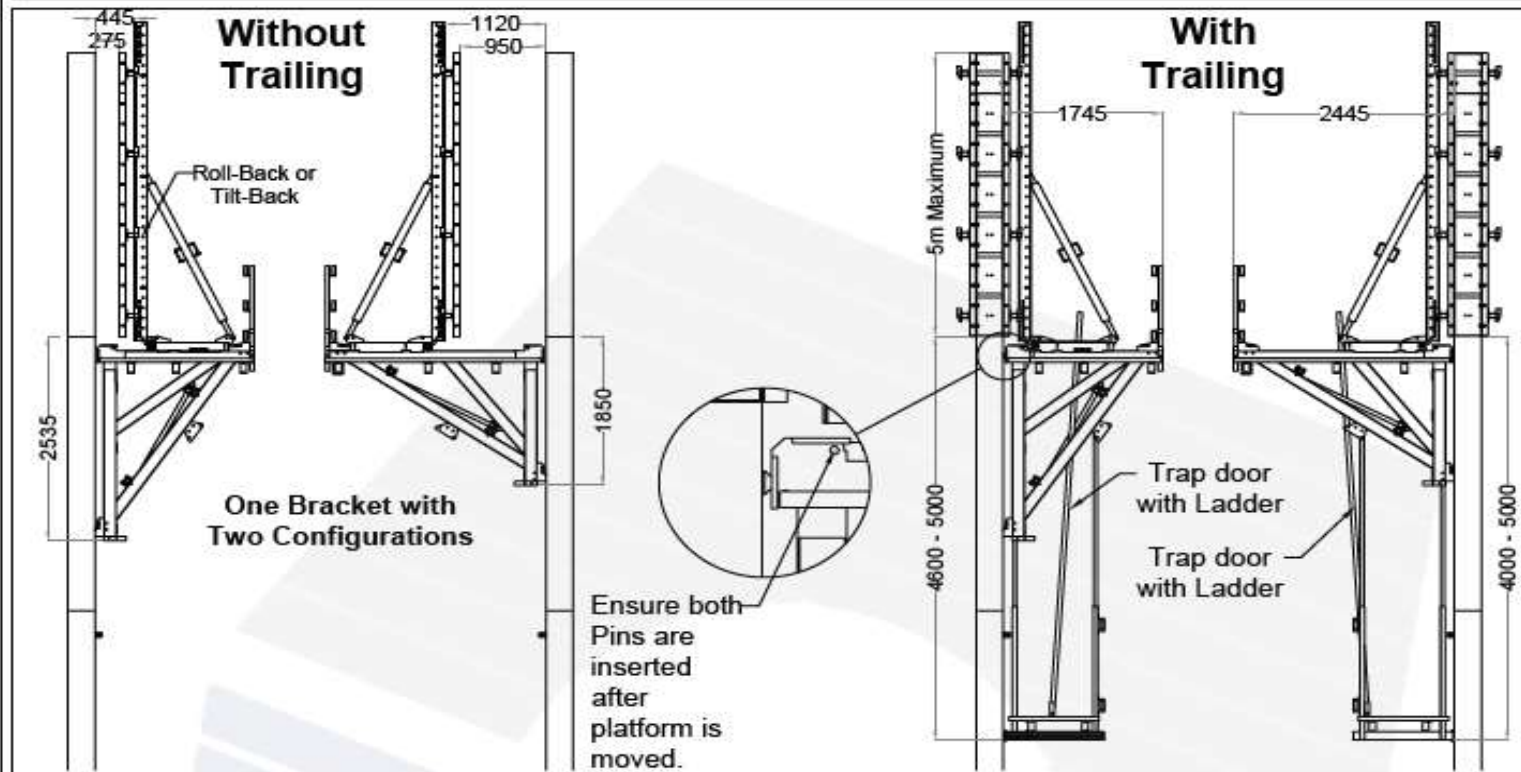
1. Timber railing design as per SABS 0136-2001.
2. Minimum timber quality of S5 (SA Pine Gr5) must be used.
3. Ø48.3mm Scaffold tube and bracket design as per SANS 10162-2005.
4. C_p of 1.3 will be used in wind pressure.
5. Wind pressure, P_w , will be assumed 1.7kN/m².
6. A horizontal load of $F = 0.3kN$ will be used in calculations.

Estimated mass calculator per Access platform (5% factored) kg		Length of Access Platform (mm)											
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
Access Platform (3 brackets from 3.5m wide)	Access Platform	-	104	134	164	194	224	276	328	380	432	484	536
	Trapdoor set	-	60	60	60	60	60	60	60	60	60	60	60
	One end safety	-	44	44	44	44	44	44	44	44	44	44	44
	Both ends safety	-	88	88	88	88	88	88	88	88	88	88	88

View on the connections of the brackets and secondary platform beams. HT20 can be screwed and not clamped like IPE (as per illustration).



Climber Configurations

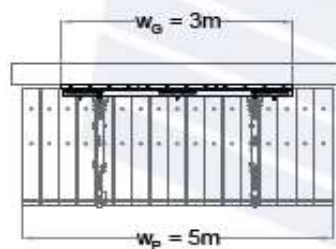


Climber Mass Estimation

Example:

- $w_g = 3m$ Gangform
- $h_g = 4m$ Gangform (Shutter) Height
- $w_p = 5m$ Platform Width
- Climber in 2400mm Configuration with Trailing
- 4m Soldier

* Mass of slings or spreaders must be added.



Crane Requirement:

Table 1 =	= 0 kg
Table 2 = 5m Wide and 4m Soldier	= 1200kg
Table 3 = 5m Wide Trailing	= 343 kg
Table 4 = 3m Wide and 4m High	= 1556 kg
Total = 0 + 1200 + 343 + 1556	= 3100kg

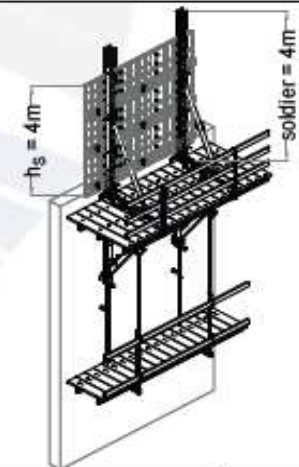
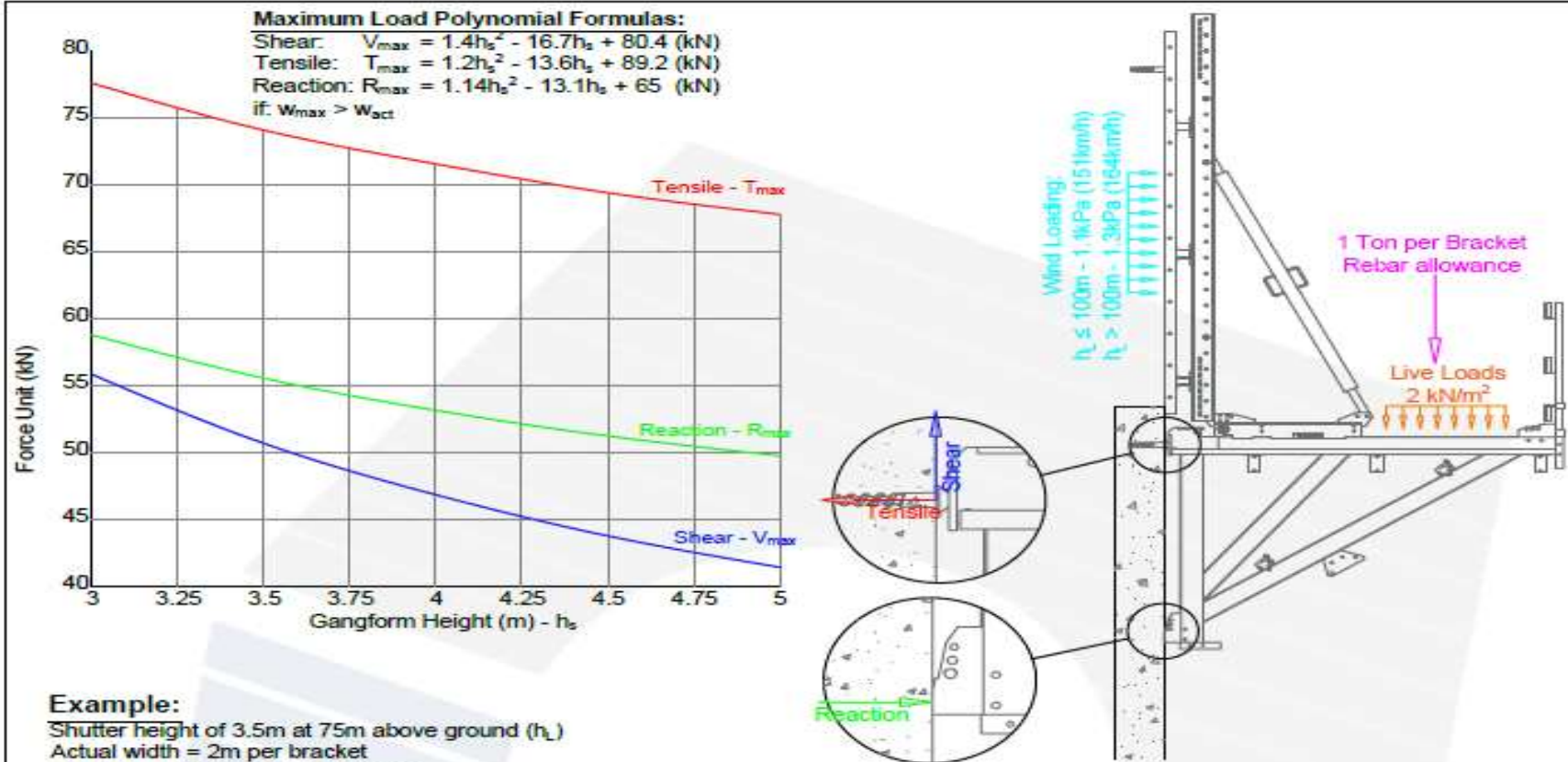


Table 1 1600mm Configuration				Table 2 2400mm Configuration				Table 3 Trailing System		Table 4 Estimated HD Gangform Mass						Add to Estimate Total Mass (kg)
Platform Width (m)	No Soldier	3m Soldier	4m Soldier	Platform Width (m)	No Soldier	3m Soldier	4m Soldier	Platform Width (m)	Mass (kg)	Gangform Width (m)	3m High	3.5m High	4m High	4.5m High	5m High	
	Mass (kg)				Mass (kg)						Mass (kg)					
1	352	691	763	1	365	704	776	1	136	1	526	587	644	704	762	
1.5	395	734	806	1.5	417	456	828	1.5	163	1.5	695	786	872	963	1049	
2	440	779	851	2	471	810	882	2	188	2	864	985	1100	1221	1336	
2.5	483	822	894	2.5	524	863	935	2.5	215	2.5	1032	1184	1328	1479	1623	
3	527	866	938	3	577	916	988	3	240	3	1201	1383	1556	1738	1911	
3.5	571	910	982	3.5	630	969	1041	3.5	266	3.5	1392	1604	1806	2018	2220	
4	616	955	1027	4	684	1023	1095	4	290	4	1582	1825	2056	2298	2529	
4.5	659	998	1070	4.5	736	1075	1147	4.5	317	4.5	1773	2046	2306	2579	2838	
5	703	1042	1114	5	789	1128	1200	5	343	5	1964	2267	2555	2859	3147	
5.5	748	1087	1159	5.5	843	1182	1254	5.5	368	5.5	2145	2488	2805	3139	3457	
6	793	1132	1204	6	897	1236	1308	6	394	6	2345	2709	3055	3420	3776	
Add 70kg for platforms with Trapdoor and 5m Ladder.										Access included. For Large panels reduce with 6%						

Add 70kg for platforms with Trapdoor and 5m Ladder.

Access included. For Large panels reduce with 6%

Climber Anchor Loads and Reactions



Example:

Shutter height of 3.5m at 75m above ground (h_s)
 Actual width = 2m per bracket
 Allowable width = 4.3m per bracket
 M24x200 Anchor wit Grade 8.8 to be used

Actual $V = (W_{act}/W_{max}) \cdot V_{max} + 2.4 = (2/4.3) \times 51 + 2.4 \approx 26.5$ kN
 Actual $T = (W_{act}/W_{max}) \cdot T_{max} + 2.4 = (2/4.3) \times 74 + 2.4 \approx 37.5$ kN
 Actual $R = (W_{act}/W_{max}) \cdot R_{max} + 2.4 = (2/4.3) \times 56 + 2.4 \approx 28.5$ kN

Anchor bolt check:

$V_u/V_r + T_u/T_r \leq 1.4$

$26.5/131.5 + 37.5/148.6 = 0.45 \dots < 1.4 \dots \text{OK}$

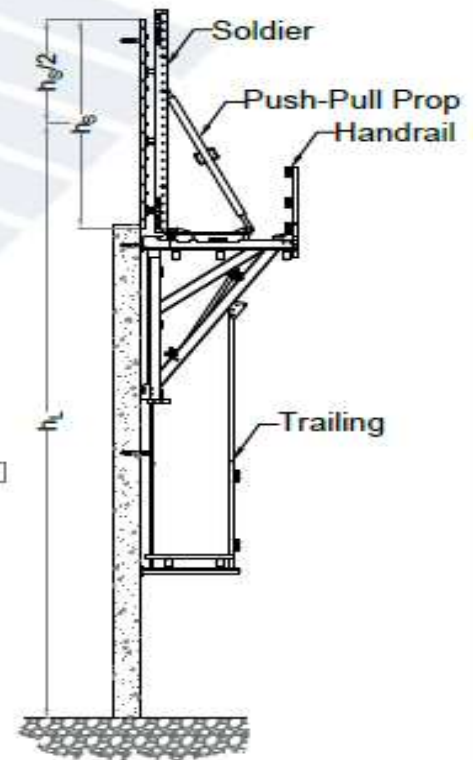
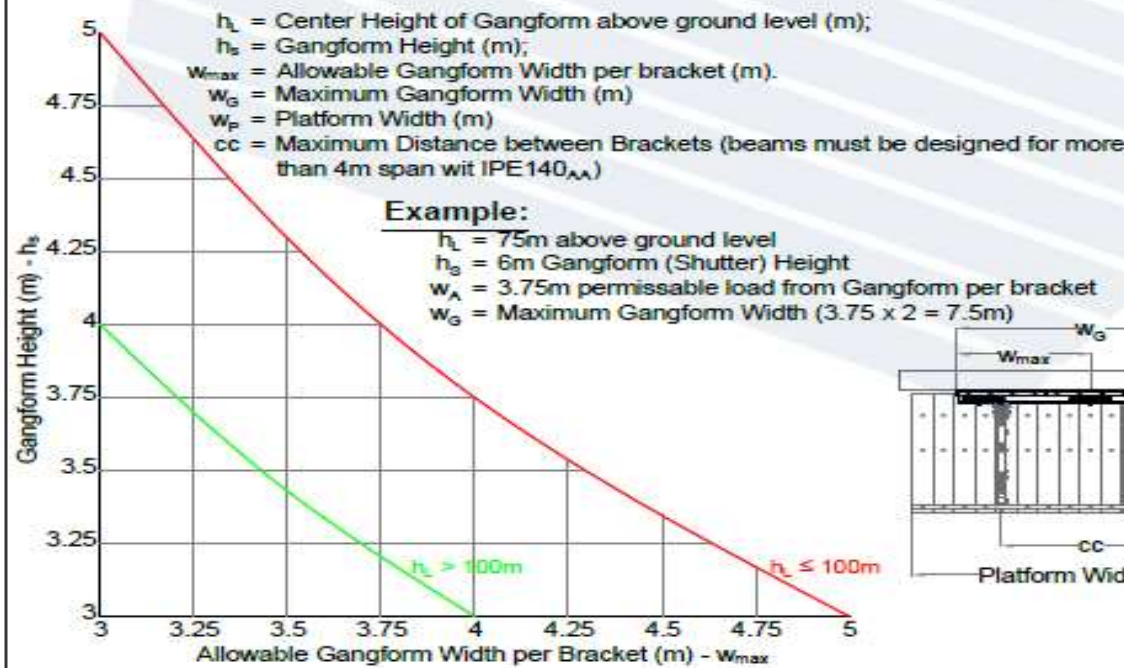
Actual Loads vs. Maximum Loads:

Actual $V = (W_{act}/W_{max}) \cdot V_{max} + 2.4$

Actual $T = (W_{act}/W_{max}) \cdot T_{max} + 2.4$

Actual $R = (W_{act}/W_{max}) \cdot R_{max} + 2.4$

Allowable Gangform Widths



Retrievable Anchor Screws Limits

Recommended Nominal Embedment Clearance (mm)	
M20x120	136
M20x200	163
M24x140	188
M24x200	215
M24x280	240
M30x360	290
M36x430	290

T_a = Ultimate Tensile of Anchor (kN), T_r taken into account
 T_r = Ultimate Tensile Capacity of the internal bolt (ISO 6g)
 T_u = Ultimate Tensile Design Load
 V_r = Ultimate Shear Capacity of the internal bolt (ISO 6g)
 V_u = Ultimate Shear Design Load
 f_{cu} = Compressive Concrete Strength (MPa)
 ϕ_s = Safety Factor of the Anchor in Tension, taken as 0.67

Anchor Maximum Limitations			
Anchor	Force	Bolt Grade	
		4.8	8.8
M20x120	T_r (kN)	53	81.4
	V_r (kN)	45.9	90.8
M20x200	T_r (kN)	53	104.8
	V_r (kN)	45.9	90.8
M24x140	T_r (kN)	76.8	84.6
	V_r (kN)	66.5	131.5
M24x200	T_r (kN)	76.8	148.6
	V_r (kN)	66.5	131.5
M24x280	T_r (kN)	76.8	151.9
	V_r (kN)	66.5	131.5
M24x280 H/D	T_r (kN)	76.8	151.9
	V_r (kN)	66.5	131.5
M30x361	T_r (kN)	123	243.2
	V_r (kN)	104.5	206.6
M36x431	T_r (kN)	180.1	355.9
	V_r (kN)	151.1	298.6

Load Reduction Factors for Spacing and Edge Distance on Anchors

Anchor Designation	Tension Only Loads				Shear Loads			
	Anchor Spacing (mm)	Load Reduction Factor	Edge Distance (mm)	Load Reduction Factor	Anchor Spacing (mm)	Load Reduction Factor	Edge Distance (mm)	Load Reduction Factor
M20x120	240	0.7	107	0.7	286	0.6	53	0.5
	480	1	120	1	480	1	45.9	1
M20x200	275	0.7	100	0.7	300	0.6	53	0.5
	550	1	200	1	550	1	45.9	1
M24x140	245	0.7	106	0.7	283	0.6	76.8	0.5
	490	1	140	1	525	1	66.5	1
M24x200	275	0.7	100	0.7	300	0.6	76.8	0.5
	550	1	200	1	550	1	66.5	1
M24x280	231	0.7	107	0.7	280	0.6	76.8	0.5
	462	1	213	1	493	1	66.5	1
M30x361	263	0.7	116	0.7	360	0.6	123	0.5
	526	1	210	1	587	1	104.5	1
M36x431	322	0.7	140	0.7	430	0.6	180.1	0.5
	643	1	257	1	712	1	151.1	1

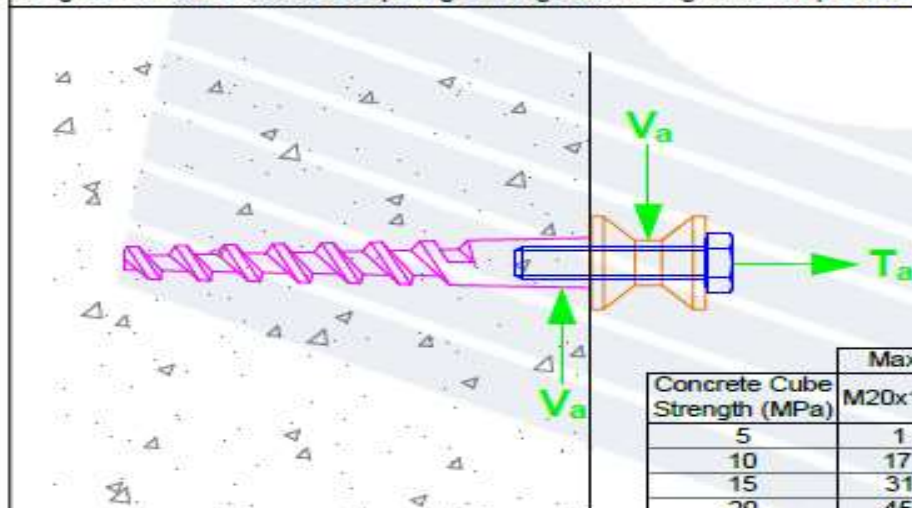
Linear interpolation can conservatively be applied to the above values as per the discretion of the designer. Recommended to use spacing and edge distances greater or equal to a reduction of 1.

Anchor Tensile Load Capacity Polynomial Formulas:

M20x120: $T_a = \phi_s [-1.57 \times 10^{-2} \cdot (f_{cu})^2 + 3.296 \cdot f_{cu} - 14.619]$
 M20x200: $T_a = \phi_s [-7.34 \times 10^{-2} \cdot (f_{cu})^2 + 8.9426 \cdot f_{cu} - 61.192]$
 M24x140: $T_a = \phi_s [-1.52 \times 10^{-2} \cdot (f_{cu})^2 + 3.2896 \cdot f_{cu} - 10.564]$
 M24x200: $T_a = \phi_s [-6.27 \times 10^{-2} \cdot (f_{cu})^2 + 8.3748 \cdot f_{cu} - 53.447]$
 M24x280: $T_a = \phi_s [-7.95 \times 10^{-2} \cdot (f_{cu})^2 + 10.611 \cdot f_{cu} - 55.269]$
 M30x360: $T_a = \phi_s [-7.54 \times 10^{-2} \cdot (f_{cu})^2 + 12.711 \cdot f_{cu} - 11.101]$
 M36x430: $T_a = \phi_s [-1.171 \times 10^{-1} \cdot (f_{cu})^2 + 18.491 \cdot f_{cu} - 15.932]$

This formulas can be used to design the tensile load application for anchors as long as the shear- and tensile steel failure load limitations presented in above table is not exceeded.

The maximum concrete vale to substitute f_{cu} in the polynomial formulas should not exceed 56.7MPa.



Formula for Combined Tension and Shear:
As per SANS 0162-1:Part 13.11.4

$$V_u/V_r + T_u/T_r \leq 1.4$$

Notes on Maximum Tensile Load Vs Concrete Strength Tables and Limit Graphs:

The Tabulated values presented herein include the material safety factors.
 These factors are applied to the Anchors tested or calculated failure values and not the maximum elastic limit of the Anchor itself, the designer should apply the necessary load factors to the ULS (ultimate design loads).
 The ULS calculated by designer should be below values presented herein.

Maximum Tensile Load vs Concrete Cube Strength for Grade 4.8 Bolts (kN)								
Concrete Cube Strength (MPa)	M20x120	M20x200	M24x140	M24x200	M24x280	M24x280 H/D	M30x361	M36x431
5	1	1	1	1	1	1	51	74
10	17	21	21	21	43	58	108	157
15	31	56	35	56	86	106	163	235
20	45	88	49	89	125	149	213	307
25	58	116	62	117	160	189	260	373
30	70	131	74	141	164	190	302	433
35	81	131	85	149	164	190	305	446

Maximum Tensile Load vs Concrete Cube Strength for Grade 8.8 Bolts (kN)								
Concrete Cube Strength (MPa)	M20x120	M20x200	M24x140	M24x200	M24x280	M24x280 H/D	M30x361	M36x431
5	1	1	1	1	1	1	51	74
10	17	21	21	21	43	58	108	157
15	31	56	35	56	86	106	163	235
20	45	88	49	89	125	149	213	307
25	58	116	62	117	160	189	260	373
30	70	131	74	141	164	190	302	433
35	81	131	85	149	164	190	305	446

3.2.14.2

LIST OF DRAWINGS (See Attachment)

DRAWING NO.	DESCRIPTION OF DRAWINGS
174851/ 16-174860/16	NEW OUTLET STRUCTURE
174874/16 - 174875/16	RAISING CANAL WALLS
174887/16-174889/16	FLOW METER
174894/16-174895/16	STRAINER ROOM

3.2.14.3 **DOCUMENTS TO BE SUBMITTED WHEN MATERIAL IS DELIVERED ON SITE**

- The following documents must be submitted when material is delivered on site:
 - A drawing for each type of formwork with full details and design
 - A table listing all the components of the proposed formwork
 - Clear indication on what is a standard item; special items and what must be supplied by the contractor.
 - The required delivery period for each type/section from receipt of official order to delivery to site.
- The types will be priced as a whole per unit as per the Bill of Quantities for a purchase price and a rental rate. **It must be noted that the supplier must include any delivery and or collection cost with the price.**
- It is a requirement of this bid that the successful bidder/supplier shall submit a detail list of items with prices of each type/section that will be used in the case of replacement or augmentation.

3.2.14.4 **ACCEPTANCE CRITERIA**

The formwork will only be accepted if the design calculation(s) and drawing(s) signed by a registered professional engineer was submitted and approved by the contractor prior to delivery.

The formwork must adhere to the drawing dimensions and standards and is not damaged.

The formwork must accompany a list of items and quantities per type/structure

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.

BIDDER'S SIGNATURE

DEPARTMENT OF WATER AND SANITATION

BID: WTE-0569 CS

**THE DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO THE
DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE WESTERN CAPE FOR A
PERIOD OF 9 MONTHS.**

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 initialed 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
m ²	square metre
ha	hectare
m ³	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 rejection 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- 0569 CS

THE DESIGN, HIRE, SUPPLY AND DELIVERY OF FORMWORK AND SCAFFOLDING TO THE DEPARTMENT OF WATER AND SANITATION, KWAGGASKLOOF DAM IN THE WESTERN CAPE FOR A PERIOD OF 9 MONTHS.

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-0569 CS	
CLOSING DATE: 20 AUGUST 2026				CLOSING TIME: 11H00	
ITEM	DESCRIPTION	UNIT	QTY	BID PRICE (Excluding. VAT)	BID AMOUNT (Excluding. VAT)
	New Outlet Structure Drawing 174849/16 to 174860/16 (Formwork design, supply and deliver including anchors and accessories for)				
1	Outside perimeter walls of New Outlet Structure per 3.0m Lift for 9 months	m ²	143	R.....	R.....
2	Inside perimeter walls of New Outlet Structure per 3.0 m Lift for 9 months	m ²	135	R.....	R.....
3	Decking for New Outlet Structure	m ²	124	R.....	R.....
4	Access scaffolding and Roof support	Sum	1	R.....	R.....
	NEW STRAINER ROOM (Refer Drawing 174894/16 TO 174895/16) (Formwork design, supply and deliver including anchors and accessories for)				
5	Outside perimeter walls of New Strainer Room for two months	m ²	93	R.....	R.....
6	Inside perimeter walls of New Strainer Room, for two months	m ²	114	R.....	R.....
	NEW FLOW METER CHAMBER (Refer Drawing 174887/16 TO 174889/16) (Formwork design, supply and deliver				

	including anchors and accessories for)				
7	Outside perimeter walls of New Flow Meter Chamber for one month	m ²	32	R.....	R.....
8	Inside perimeter walls of New Flow Meter Chamber for one month	m ²	26	R.....	R.....
	RECONSTRUCTION AND RAISING OF CANAL WALLS (Refer Drawing 174874/16 TO 174875/16) (Formwork design, supply and deliver including anchors and accessories for)				
9	Outside and inside perimeter walls for two months.	m ²	40	R.....	R.....
				TOTAL BID AMOUNT (Excluding VAT)	R.....
				15% VAT	R.....
				TOTAL BID AMOUNT (Including VAT)	R.....

NB: IN TERMS OF THE DWS SCM POLICY, THE TENDER PRICE MAY BE SUBJECTED TO PRICE NEGOTIATION WITH THE PREFERRED BIDDER, PRIOR THE SIGNING OF THE CONTRACT.

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):	Kwaggaskloof Dam Rehabilitation Project
Delivery basis. See note hereunder	To Site
- Period required for delivery after receipt of order:	7 Days
- Delivery period: *	FIRM / (9 MONTHS)
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 <u>not</u> 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.

Any enquiries regarding bidding procedures may be directed to:

For administrative enquiries
F. Groenewald or R. de Wee
groenewaldf@dws.gov.za or deweer@dws.gov.za

Or

For Technical or Site information
Mr. J. W van der Heever
vanderheeverj@dws.gov.za