

O. R. TAMBO DISTRICT MUNICIPALITY



O.R. TAMBO
DISTRICT MUNICIPALITY

CONTRACT NO.: ORTDM SCMU 15-26/27

KSD PRESIDENTIAL INTERVENTION BULK WATER SUPPLY

COMPLETION OF THORNHILL WTW Ph3 UPGRADE
(80MI/d to 115MI/d): CIVIL WORKS

VOLUME 1: RETURNABLES

SEPTEMBER 2026

NAME OF TENDERER:

TENDER AMOUNT:

CSD SUPPLIER NUMBER:

CLOSING DATE & TIME: 30 October 2026 @ 12h00

Prepared for:

The Municipal Manager
O. R. Tambo District Municipality
Private Bag X6043
MTHATHA
5099

Tel. No. (047) 501 6400

Prepared by:

The District Engineering Services
O. R. Tambo District Municipality
Private Bag X6043
MTHATHA
5099

Tel. No. (047) 501 6400
Extn 6750

GENERAL TENDER INFORMATION

TENDER ADVERTISED	:	17 September 2026
ESTIMATED CIDB CONTRACTOR GRADING	:	8CE or Higher
COMPULSORY CLARIFICATION MEETING	:	10h00 on 02 October 2026
VENUE FOR CLARIFICATION MEETING	:	O. R. Tambo District Municipal Offices: Myezo
CLOSING DATE	:	30 October 2026
CLOSING TIME	:	12h00
CLOSING VENUE	:	Tender Box O. R. Tambo District Municipality MTHATHA

INSTRUCTIONS

Insert large envelope or parcel containing Volume 1 of the Tender Document only (not Volume 2 or drawings) and accompanying returnable documents file into the tender box on or before the closing date and time.

TENDERER'S REPRESENTATIVE CONTACT INFORMATION:

NAME OF TENDERER:

CONTACT PERSON:

TELEPHONE NUMBER: CODE.....NUMBER.....

CELL PHONE NUMBER:.....

E MAIL ADDRESS:.....

PLEASE CHECK

x / √

1. That you have read all the pages of the tender document.
2. That you have completed ALL the forms required to be completed
in NON-ERASEABLE INK.
3. That your arithmetic calculation in the pricing schedule is correct.
4. That you have attached ALL necessary documentation relating to the
Composition of the tendering entity, i.e.
 - (a) Company registration documents naming the shareholders and
Directors / members of the company, close corporation etc.
 - (b) Joint venture agreement, if tendering entity is a joint venture.
5. That only the **required** tender documents are submitted (Volume 1 and file with supporting documents,
but not Volume 2 or the Tender Drawings)
.....
6. That the **FORM OF OFFER** is completed in full and signed.
7. That ALL returnable documents are submitted.
8. That ALL returnable schedules are completed and signed.
9. Ensure that your tender is submitted by **12h00** on the closing date of the tender.

O. R. TAMBO DISTRICT MUNICIPALITY

BID NO: ORTDM SCMU 15- 26/27

KING SABATA DALINDYEBO PRESIDENTIAL INTERVENTION - BULK WATER SUPPLY
INFRASTRUCTURE

COMPLETION OF THORNHILL WTW Ph3 UPGRADE (80MI/d to 115MI/d): CIVIL WORKS

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T1: Tendering Procedures

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T1.1 TENDER NOTICE AND INVITATION TO TENDER



O.R. TAMBO
DISTRICT MUNICIPALITY

O. R. TAMBO DISTRICT MUNICIPALITY

BID NO: ORTDM SCMU 15 26/27

**KING SABATA DALINDYEBO PRESIDENTIAL INTERVENTION
BULK WATER SUPPLY INFRASTRUCTURE
COMPLETION OF THORNHILL WTW Ph3 UPGRADE (80MI/d to 115MI/d):
CIVIL WORKS**

TENDER NOTICE AND INVITATION TO TENDER

Tenders are hereby invited from suitably qualified and experienced contractors who are registered with CIDB for the Water Services Infrastructure Grant under the O. R. Tambo District Municipality.

Project Number	Name and Description	CIDB Grading
ORTDM SCMU 15-26/27	CONSTRUCTION OF THORNHILL WTW Ph3 UPGRADE (80MI/d to 115MI/d): CIVIL WORKS • Restricted excavation in rock • 3 No. Clariflocculator Tanks • Rapid Gravity Sand Filter Building (35MI/d) • Interlinking pipework (up to DN600) • Chlorination Building • Modifications and extensions to existing internal segmented block paved roads	8CE or Higher

A compulsory clarification meeting with representatives of the client will take place at **10h00** on **Friday, 02 October 2026** at the O. R. Tambo District Municipal Offices, Foyer: Myezo, before proceeding to site.

THE MUNICIPALITY WILL NOT REPEAT ANY MATTERS ALREADY COVERED IN THE COMPULSORY BRIEFING MEETING TO THE BIDDERS WHO ARRIVE MORE THAN 10 MINUTES LATE TO THE MEETING, NOR WILL IT ALLOW SUCH BIDDERS TO COMPLETE THE ATTENDANCE REGISTER. ANY BID RECEIVED FROM A BIDDER WHO DID NOT ATTEND THE BRIEFING MEETING AND SIGN THE ATTENDANCE REGISTER WILL NOT BE CONSIDERED.

Bid documents should be downloaded on the e-Tender website (www.etenders.gov.za) alternatively on the O. R. Tambo website (www.ortambodm.gov.za) at no cost.

Bids must be completed in black ink, enclosed in a sealed envelope and clearly marked with the **"Project number, project name and description"**, deposited in the Open Tender Box, Ground Floor, O. R. Tambo District Municipality Building, Nelson Mandela Drive, Myezo Park, Mthatha, Eastern Cape, not later than **12h00** on **30 October 2026**.

It must be expressly understood that the Municipality does not accept responsibility for ensuring that bid submissions sent by courier or post, or delivered in any other way, are deposited in the Tender Box. It is therefore preferable for the bidder to ensure that its bid submission is placed in the Tender Box by its own staff or representative(s).

Tender submissions will be opened in public at 12h00 on 30 October 2026. The Municipality reserves the right not to accept the lowest priced tender or any tender at all, or to accept the whole or part of any tender.

RETURNABLE DOCUMENTS TO BE SUBMITTED WITH THE BID:

- Copy of business registration documents, as issued by CIPC.
- Certified copy of identity documents of directors/ shareholders/ partners / members, as the case maybe.
- Original Valid Tax Clearance Certificate or a Confirmation of Tax Validity with the pin issued by SARS
- USB Soft Copy

INVALID OR NON-SUBMISSION OF THE FOLLOWING RETURNABLE DOCUMENTS WILL DISQUALIFY A BID SUBMISSION:

- Complete fully the bid document or to provide the information requested, or to sign the bid at the appropriate spaces provided or next to errors.
- Fill and properly sign the form of offer
- Attach proof of registration with CSD.
- Attach audited annual financial statements of the bidding entity (for projects in excess of R10 million);
- Attach unaudited annual financial statements for close corporations and companies if the public interest score is below 350 in line with the companies act of 2008;
- Attach Proof of PIS
- Attach proof of latest municipal rates and taxes statement **of the bidder and each company director** and each company indicating that rates and taxes are not in arrears for more than 3 months.
- Attach proof of latest municipal water and sanitation charges statement **of the bidder and each company director** indicating that rates and taxes are not in arrears for more than 3 months for bidders who reside in the O. R. Tambo District Municipality area.
- Attach a confirmation of address from a ward Councillor where the bidder and company directors operate and reside in a peri-urban area where no rates and taxes and service charges are not billed.
- Attach a copy of a valid lease agreement where the bidder does not own the property they are operating from.
- Attach proof or registration with the Construction Industry Development Board (CIDB).
- Attach joint Venture Agreement or Consortium Agreement signed and initialed on each page (if applicable).
- Attach consolidated company registration documents, bank account, SARS Tax pin, CSD (for JV or Consortium)
- **NOTE:** Joint Ventures and Consortiums will only be considered provided they submit consolidated company registration documents and on award will be required to submit a joint venture or consortium bank account and a joint venture or consortium SARS Tax PIN.

EVALUATION OF BIDS IN TERMS OF THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK REGULATIONS, 2022:

Bids will be evaluated in three stages, namely:

- Stage 1- Compliance with Bid Rules and other Requirements
- Stage 2- Functionality Assessment
- Stage 3 - Price and Preference

Tender offers will be allocated a functionality score out of **100** in terms of the Functionality Criteria given. The score will be determined by the Employer, based on interpretation of the documentation provided in the tender offer.

The minimum score for Functionality Criteria that tender offers must attain in order to be deemed responsive is **70** out of **100**. Tenderers whose tender offer does not achieve this minimum qualification score will be rejected as non-responsive.

CONDITIONS OF CONTRACT WITH REGARDS TO SUB-CONTRACTING

It is a condition of Contract that the successful Tenderer must subcontract a specified 'Ring Fenced' portion of the Works to local SMME'S. This portion of the Works is covered by a Prime Cost item in the BoQ.

Tenders may only be submitted on tender documentation issued. No late, faxed, e-mailed, or other form of tender will be accepted.

SURETY

It is a condition of Contract that a valid Performance Guarantee is submitted. Deduction of 10% of the amount of certified for payment in lieu of a Guarantee will not be accepted. Before award, the preferred Bidder will be required to produce a letter from their proposed Guarantee Provider stating that arrangements have been confirmed for providing a Performance Guarantee if the named Tenderer is awarded the Contract.

CESSIONS

The Employer will allow cessions for making direct payments to certain service providers, but NOT for hire of formwork or prepayments for ready-mix concrete or any other prepayments of any kind. The appointed Contractor is contractually required to only claim payment for work successfully completed and approved by the Engineer.

Tenders will be evaluated in terms of the Supply Chain Management policy of the O. R. Tambo District Municipality. The lowest tender will not necessarily be accepted, and the Municipality reserves right to accept the whole or part of any tender or not to consider any tender not suitably endorsed. A **90/10-point system** shall apply **where 90 points** is allocated for price and **10 points allocated for specific goals** of contributor as follows:

The specific goals allocated points in terms of this tender	Number of points Allocated on 90/10 system
51% Black-owned enterprises	2.5
100% Women-owned enterprises	2.5
100% Youth-owned enterprises	2.5
Where the enterprise head office or primary place of business is located within O. R. Tambo District.	2.5

Tenders may only be submitted on tender documentation issued. No late, faxed, e-mailed, or other form of tender will be accepted.

Technical enquiries: Mr. N. Noto, telephone number 047 501 6400 extn 6750 or email:
nkosiwabon@ortambodm.gov.za.

All Supply Chain Management enquiries may be directed to Mr. S. Hopa, telephone number 047 501 6449 or Email:
sakhiwoh@ortambodm.org.za during office hours: Monday to Friday 08h00-13h00 and 13h30-16Hh0.

Tenderers must submit copies of all supporting documents necessary to prove conformance with Specific Goal criteria listed above in order to be eligible for Specific Goal points.

B. Mase
Municipal Manager

T1.2 TENDER DATA

The conditions of tender are the **Standard Conditions of Tender** as contained in Annexure F of the 30 January 2009 edition of the **CIDB Standard for Uniformity in Construction Procurement**. The Standard Conditions of Tender Procurements make several references to the Tender Data for details that apply specifically to the Tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of Tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

Please note that the word "Client" is used in this document and referred to as "Employer" in the Standard Conditions of Tender document.

Clause	Wording / Data
C1.1	General
C.1.1.1	The Employer is: O. R. Tambo District Municipality Private Bag X6043 Mthatha, 5099 Telephone: 047 501 6400 Email: nkosiyabon@ortambodm.gov.za
C1.1.2	Tenderers shall declare any perceived, known and potential conflict of interest under Returnable Documents: Declaration of Intent of Persons in Service of State and Declaration of Tenderers Supply Chain Management Practices.
C.1.2	The Tender documents issued by the Employer comprise: Tender T1.1 Tender Notice and invitation to tender T1.2 Tender Data T2.1 List of Returnable Documents T2.2 Returnable Documents for tender evaluation purposes T2.3 Returnable Documents to be incorporated into the contract Contract Part C1: Agreements and Contract data C1.1 Forms of Offer and Acceptance C1.2 Contract Data C1.3 Tenderer's Direct Participation of Targeted Labour C1.4 Specification for SMME Sub-contractor Employment C1.5 Performance Guarantee (Pro forma) C1.6 Adjudication C1.7 Agreement in Terms of the Occupational Health and Safety Act 1993 (Act 85 of 1993) Part C2: Pricing Data C2.1 Pricing Instructions C2.2 Bill of Quantities

Clause	Wording / Data
	Contract Part C3 : Scope of Works C3.1 Description of the Works C3.2 Engineering C3.3 Procurement C3.4 Construction C3.5 Management C3.6 Health & Safety C3.7 Project Specifications Part C4: Site Information Part C5: Tender Drawings Appendices A – H. Documents not issued to Tenderer's, but available from the S.A. Federation of Civil Engineering Contractors, the S.A. Institution of Civil Engineering, the S.A. Bureau of Standards, the Government printers, the Construction Industry Development Board, and the Employer, as applicable: GCC2015 "General Conditions of Contract for Construction Works", Third Edition, second print, 2015 published by the South African Institute of Civil Engineering (SAICE) *Tel 011 805 5947) S.A. National Standards SANS 1200 Standardised Specifications for Civil Engineering Construction. The Preferential Procurement Policy Framework Act No 5 of 2000, and the Preferential Procurement Policy Framework Act Regulations (November 2022). The Occupational Health and Safety Act No 85 and Amendment Act No 181 of 1993, and Construction Regulations (2014) and COVID-19 requirements for Construction Sites.
C1.3	Interpretation The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.
C.1.4	Communication: Attention is drawn to the fact that verbal information, given by the Employer's Agent during site visits/clarification meetings or at any other time prior to the award of the Contract, will not be regarded as binding on the Employer. Only information issued formally by the Employer's Agent in writing to tenderers will be regarded as amending the Tender Documents. The Employer's Agent is: Name: GIBB (PTY) LTD Address: 36 Stanford Terrace MTHATHA, 5099 Contact person: Duncan Shaw Email: dshaw@gibb.co.za

Clause	Wording / Data
C.2	Tenderer's obligations
C.2.1.1	Only those tenderers who are registered with the Construction Industry Development Board (CIDB) (as "Active" at the time of tender closing) or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tender for an 7CE or Higher class of construction work, are eligible to submit a tender offer. Joint ventures are eligible to submit a tender offer provided that: a) Every member of the joint venture is registered (as "Active") with the CIDB (at the time of tender closing). b) The Lead partner has a contractor grading designation in the CE class of construction work and not lower than one level below the required grading designation in the class of construction works under considerations and possess the required recognition status. c) The combined contractor grading designation calculated in accordance with the Construction Industry Development Board Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for 7CE or Higher class of construction work or a value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations. d) Tenders submitted by joint ventures of two or more firms must be accompanied by the document of formation of the joint venture, authenticated by a notary public or other official deputed to witness sworn statements, in which it defines precisely the conditions under which the joint venture will function, its period of duration, the persons authorised to represent and obligate it, the participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. e) The Tenderer, if a Joint Venture, must submit a signed JV Agreement with the tender specific to the tendered Contract and clearly showing the percentage contribution of each partner to the Joint Venture. The value of work to be undertaken by each partner must be within their CIDB grading limit. Tenderers are eligible to submit a tender offer, provided they have submitted the following tender requirements listed below: a) Tax Tenderers shall be registered and in good standing with the South African Revenue Services (SARS) and must submit/append documentary evidence/proof in the form of a valid Tax Clearance PIN Number and/or a valid Tax Number issued by SARS. Failure to provide a valid Tax Clearance PIN number and/or Tax Number will result in the tender being rejected. Each party to a Consortium/Joint Venture shall submit a separate Tax Clearance PIN Number and/or Tax Number. b) The tenderer is registered on the National Treasury Central Supplier Database (CSD) and provide proof of registration must be in the form of CSD registration number. Also note the following: (i) Tenderers who are not registered are not precluded from submitting bids but must be registered prior to Contract Award. (ii) In the case of Joint Venture partnerships this requirement will apply individually to

Clause	Wording / Data
	each party to the Joint Venture. (iii) Tenderers who wish to register as service providers on the CSD can register online at https://secure.csd.gov.za/Account/Register. (iv) For further enquiries contact the Supply Chain Management Unit on Tel: 047 501 6400. (v) A resolution authorizing a person to sign the bid documents (Full completion and signing of Form 2.2.2 or resolution on company letter head). Attendance of Compulsory Site Briefing: Only Tenderers who have attended the compulsory site briefing, signed the attendance register and have Form 2.2.7 Certificate of Attendance at Clarification Meeting signed by the Employer's Agent or his representative, will be eligible to submit a tender offer. A valid CIDB registration with a minimum grading of 8CE or Higher. In case of JV, the tenderer has submitted a mandatory JV agreement that includes the agreement and banking details and stipulates the JV lead partner's as well as JV partners CRS numbers are indicated on the form (proof must be attached). A signed Form of Offer in the Contract Section C1.1. The tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector. The Tenderer has not failed to perform on any previous contract and has not been given written notice to this effect. Further Compulsory Documents to be submitted by the Tenderer: In addition to all the documents listed from a) to k) above and all other documents requested in Section T2.1 and T2.2 (Returnable Documents), it is further required that copies of the following current and valid company certificates be provided: Letter of Good Standing (Form 2.2.5) from Compensation Commissioner or Insurer in terms of Section 80 of the Compensation for Occupational Injuries and Diseases (COID) Act (Act No 130 of 1993). Letter of Good Standing from Department of Labour (UIF). In the case of Joint Ventures, the above shall be provided for each JV Partner. The above documents shall be included in the Supporting Documents file.
C.2.3	<i>Amend the Clause to read:</i> ".....and notify the Employer's Agent of any discrepancy...."
C 2.6	Receipt of Addenda's: All tenderers to acknowledge receipt of any Addendums issued and to complete Form 2.3.1: RECORD OF ADDENDA TO TENDER DOCUMENTS in the Returnable Documents. Failure to apply instructions contained in addenda may render a tenderer's offer non-responsive in terms of Condition of Tender clause C.3.8

Clause	Wording / Data
C.2.7	For particulars regarding the compulsory clarification meeting (site inspection meeting) refer to the Tender Notice and Invitation to Tender (T1.1) of this document. The onus rests with the tenderer to ensure that the person attending the clarification meeting on his behalf is appropriately qualified to understand all directives and clarifications given at that meeting. Tenderers must sign the attendance register in the name of the tendering entity. Addenda will be issued to, and only tenders will be received from, those entities appearing on the attendance register.
C.2.8	The employer shall respond to clarifications received up to 7 working days before the tender closing time.
C.2.9	The employer does not provide insurance. The contractor is responsible for providing full insurance cover for the contract.
C.2.10	Pricing the Tender Offer Tenderers are requested to state the rates and currencies in Rand. Delete the contents of Clause C.2.10.3 and replace with the following: "This tender is subject to Contract Price Adjustment as set out in the Contract Data. An alternative offer of fixed rates will not be accepted."
C.2.11	Add the following to the Clause: "In the event of a mistake having been made on the price schedule, it shall be crossed out in non-erasable ink and be accompanied by an initial of each signatory to the Tender at each and every price alteration." "If correction fluid has been used on any specific item price, such item will not be considered. Corrections in terms of price may not be made by means of correction fluid such as Tippex or similar product. No correction fluid may be used in a Price Schedule where prices are calculated to arrive at a total amount. If correction fluid has been used, the tender as a whole will be classified non-responsive and not be considered. The Employer and/or Employer's Agent will reject and classify the tender non-responsive if corrections are not made in accordance with the above."
C.2.12	Alternative Tender Offers Delete the contents of Clause C.2.12 and replace with the following: "No alternative offers will be accepted. This includes changes to the 'as-scheduled' allowance for Contingencies."
C.2.13.2	Delete the contents of Clause C.2.13.2 and replace with the following: "Return all returnable documents to the Employer after completing them in their entirety by writing legibly in non-erasable ink. Notwithstanding the format in which the tender documents are issued to Tenderers, no electronic form of tender offers will be accepted. The Original to be submitted shall comprise: • Tender Document, as proof of specifications tendered on and duly completed and

Clause	Wording / Data
	signed. - Indexed Lever-Arch file (or files) with all supporting documentation clearly marked with Tenderer's name clearly marked on the spine or cover. - Tender Drawings (Book of Drawings) need NOT be submitted. Failure to comply with these requirements may result in the tender being declared non-responsive. Notwithstanding any statement in any of the Returnable Documents listed in T2 to the effect that supporting documentation must be attached to the associated Returnable Document, the supporting documentation must be placed in the supporting documentation files as stipulated above. The Bill of Quantities must be fully and correctly filled in by hand in black ink. The binding of the original volume of the Tender Document may NOT be dismantled.
C.2.13.3	Number of Duplicate Copies required is none.
C.2.13.4	Add the following to the clause: "Only authorised signatories may sign the original and all copies of the tender offer where required in terms of C.2.13.3 In the case of a ONE-PERSON CONCERN submitting a tender, this shall be clearly stated. In case of a COMPANY submitting a tender, include a copy of a resolution by its board of directors authorising a director or other official of the company to sign the documents on behalf of the company. In the case of a CLOSE CORPORATION submitting a tender, include a copy of a resolution by its members authorising a member or other official of the corporation to sign the documents on each member's behalf. In the case of a PARTNERSHIP submitting a tender, <u>all the partners</u> shall sign the documents, unless one partner or a group of partners has been authorised to sign on behalf of each partner, in which case <u>proof of such authorisation</u> shall be included in the Tender. In the case of a JOINT VENTURE/CONSORTIUM submitting a tender, include <u>a resolution</u> of each company of the Joint Venture together with a resolution by its members authorising a member of the Joint Venture to sign the documents on behalf of the Joint Venture. <u>Failure to submit proof of authorisation to sign the tender, shall result in a Tender Offer being regarded as non-responsive."</u>
C.2.13.5	The employer's address for delivery of tender offers is given under Clause C.2.15.1
C.2.13.6	A two-envelope system will not be followed.
C.2.13.7	Place and seal the printed and completed tender document in an envelope clearly marked "TENDER" and bearing the Employer's name, the contract number and description, the tenderer's authorised representative's name, the tenderer's postal address and contact telephone numbers.

Clause	Wording / Data
C.2.13.9	Electronic, telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
F.2.13.5	The Client's address for delivery of Tender offers and identification details to be shown on each Tender offer package are: Location of Tender box: Tender Box, Ground Floor, O. R. Tambo District Municipality Building, Nelson Mandela Drive, Myezo Park, Mthatha, Eastern Cape. Physical address: O. R. Tambo House, Nelson Mandela Drive, Mthatha
C.2.14	The tenderer is required to provide all the data or information as requested below: All the documents and schedules as listed under T2.1 & T2.2: Returnable Documents required for tender evaluation purposes. All the documents and schedules as listed under T2.3: Returnable Documents that will be incorporated in the Contract. Should a Tenderer not provide all the above-mentioned data or information, the Tenderer will be considered non-responsive. Add the following to the clause: "Accept that the Employer shall in the evaluation of tenders take due account of the Tenderer's past performance in executing similar construction works of comparable magnitude, and the degree to which he possesses the necessary technical, financial, and other resources to enable him to complete the Works successfully within the contract period. Satisfy the Employer as to his ability to perform and complete the Works timeously, safely and with satisfactory quality, by furnishing details in Part T2 – Returnable Documents. Accept that the Employer is restricted in accordance with clause 4. (4) of the Construction Regulations, 2014, to only appoint a contractor who he is satisfied has the necessary competencies and resources to carry out the work safely. Accept that submitting inferior and inadequate information relating to health and safety (as required in clause C2.23) shall be regarded as justifiable and compelling reasons not to award a contract to a Tenderer."
C.2.15.1	The closing date and time for submission of tender offers is on the 30 October 2026 at 12:00am. The employer's address for the delivery of tender offers and identification details to be shown on each tender offer package are given below. Only tenders submitted to this tender box will be opened and considered. It is the Tenderer's responsibility to make sure it is delivered into the tender box before closing. Location of Tender Box: O. R. Tambo District Municipality Physical Address: O. R. Tambo District Municipality Ground Floor (Next to the Entrance) Myezo Park Nelson Mandela Drive Mthatha, 5099 Identification Details: Place the signed tender offer in a package marked "COMPLETION OF THORNHILL WTW Ph3 UPGRADE (80MI/d to 115MI/d): CIVIL WORKS" Telephonic, telegraphic, telex, facsimile, e-mailed or posted tender offers will not be accepted.
F.2.15	Telephonic, telegraphic, telex, facsimile or e-mailed Bid offers will not be accepted.
C.2.16.1	Tender Offer Validity Add the following to the end of Clause C.2.16.1:

Clause	Wording / Data
	"The tender offer validity period is 90 days. If the tender validity expires on a Saturday, Sunday or public holiday, the tender shall remain valid and open for acceptance until the closure of business on the following working day."
C.2.16.3	Where a tenderer, at any time after the opening of his tender offer but prior to entering a contract based on his tender offer: • withdraws his tender. • gives notice of his inability to execute the contract in terms of his tender; or • fails to comply with a request made in terms of C.2.17, C.2.18 or C.3.9. Withdrawal is accepted and tenderers shall sign a letter to acknowledge withdrawal of bid.
C.2.17	Clarification of Tender Offer after Submission Add the following to the end of Clause C.2.17: "A tender may be rejected as non-responsive if the Tenderer fails to provide any clarification requested by the Employer, or confirmation of registration with CIDB within the time for submission stated in the Employer's written request for such clarification or confirmation. A tender may be rejected if the unit rates or lump sums for some of the items in the bill / Bill of Quantities are, in the opinion of the Employer, unreasonable or out of proportion, and the Tenderer fails, within the time stated in writing by the Employer to justify any specific rates or lump sums (i.e. to provide a financial breakdown of how such rates or sums were obtained) or to adjust the unit rates or lump sums for such items while retaining the total of the prices unchanged."
C.2.18	The Tenderer shall, when requested by the Employer to do so, submit any additional information requested under this clause within 7 working days of the date of request.
C.2.22	The tenderer is required to return all tender documents with the Tender Offer, prior to the closing time for the submission of Tender Offers.
C.2.23	The tenderer is required to submit the following with his tender: CSD Supplier Number and Tax compliance PIN numbers in case of Bidder only / Consortia / JV: Bidders must ensure compliance with their tax obligations. Bidders are required to submit their unique personal identification number (PIN) issued by SARS to enable the organ of state to view the taxpayer's profile and tax status. Application for tax compliance status (TCS) or pin may also be made via e-filing. In order to use this provision, taxpayers will need to register with SARS as e-filers through the website www.sars.gov.za. Bidders may also submit a printed TCS together with the bid. In bids where Consortia / Joint Ventures / Sub-contractors are involved; each party must submit a separate proof of TCS / PIN / CSD number. Where no TCS is available, but the bidder is registered on the central supplier database (CSD), a CSD number must be provided. Proof of Contractor Registration drawn from the Construction Industry Development Board website should be attached to Returnable Document Form 2.2.18. Evidence of registration and proof of good standing with a compensation insurer who is approved by the Department of Labour in terms of Section 80 of the Compensation for

Clause	Wording / Data
	Occupational Injuries and Diseases Act (Act No 130 of 1993) (COID). The Tenderer is required to disclose all inspections, investigations and their outcomes conducted by the Department of Labour into the conduct of the Tenderer at a time during the 36 months preceding the date of this Tender (Refer Returnable Document Form 2.2.5). Proof of Registration in respect of each partner, where a tenderer satisfied the CIDB contractor grading designation requirements through the formation of a joint venture.
C.3.1.1	Delete the contents of Clause C.3.1.1 and replace with the following: "The Employer will respond to a request for clarification received up to seven working days before the tender closing time stated in the Tender Data."
C.3.2	The Employer shall issue addenda until three working days before the tender closing time. Add the following to Clause 3.2: Notwithstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be deemed to have received such addenda if the employer can show proof of transmission thereof (or a notice in respect thereof) via electronic mail, facsimile or registered post.
C.3.4.1	The time and location for the opening of tender offers are: Time: 12:00pm on the 30 October 2026
C.3.4.2	Tenders will be opened immediately after the closing time for tenders at: Location: O. R. Tambo District Municipality Physical Address: O. R. Tambo District Municipality Myezo Park Nelson Mandela Drive Mthatha, 5099
C.3.5	A two-envelope procedure will not be followed.
C.3.7	Grounds for rejection and disqualification Add the following to the end of Clause C.3.7 : "Tenderers will be disqualified if, Any of the directors/shareholders of the Tenderer are listed on the National Treasury Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business in the public sector. If, from information given in the completed Compulsory Enterprise Questionnaire, the Employer considers that there is a potential conflict of interest which may potentially compromise the tender process. In the event of disqualification, the Employer may, at his sole discretion, impose a specified period during which tender offers will not be accepted from the offending tenderer and report same to the CIDB and National Treasury.
C.3.8.2	Add the following directly after Clause C.3.8.2 c) : "A tender offer that does not meet the requirements as specified below, will be deemed non-responsive: - The Tenderer offer does not meet any one of the eligibility criteria specified in Clause C.2.1 as amended. - The Tenderer has not fully and correctly completed the Offer portion of C1.1 Form of Offer and Acceptance i.e., the price has not been completed in words and numbers, the Tenderers details are not completed fully and correctly, and the Tenderer has failed to

Clause	Wording / Data
	sign the Offer portion of C1.1. • If requested by the Employer during the tender evaluation process, the Tenderer has failed to clarify or submit any supporting documentation within the time for submission stated in the Employer's written request. • The Tenderer's price is based on fixed rates in lieu of Contract Price Adjustment. There are any other material deficiencies whereby the price submitted is not for the identical requirements and scope of work as other correctly completed tenders (such as changing any quantity or percentage allowance in the Pricing Schedule or failing to incorporate the requirements of Addenda where these materially affected the pricing e.g. where the Notice to Tenderers required any amendments or replacements of part or all of the Bill of Quantities and the submitted Bill of Quantities does not reflect these changes)."
C.3.9.	Arithmetical errors, omissions, discrepancies and imbalanced unit rates Delete the text of Clause C.3.9 and replace with: 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 appearing in words shall govern. Where there is a discrepancy between the amount in the Form of Offer and the Pricing Data Summary to the BOQ, the amount in the Form of Offer shall govern. Check responsive tender offers for: a) the gross misplacement of the decimal point in any unit rate; b) omissions made in completing the pricing schedule or bills of quantities; or c) arithmetic errors in: i. line-item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or ii. the summation of the prices. d) imbalanced unit rates. Notify shortlisted tenderers of all errors, omissions or imbalanced rates that are identified in their tender offers. Where the tenderer elects to confirm the errors, omissions or re-balancing of imbalanced rates the tender offer shall be corrected as follows: If bills 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 unit rate shall govern, and the line item total shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line-item total as quoted, and the unit rate shall be corrected. 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 be corrected.

Clause	Wording / Data
	Where the unit rates are imbalanced adjust such rates by increasing or decreasing them and selected others while retaining the total of the prices derived after any other corrections made under a) and b) above. Where there is an omission of a line item, no correction is possible, and the offer may be declared non-responsive. Declare as non-responsive and reject any offer from a tenderer who elects not to accept the corrections proposed and subject the tenderer to the sanction under C.2.16.3. The tenderer is required to submit balanced unit rates for rate only items in the pricing schedule. The rates submitted for these items will be taken into account in the evaluation of tenders.
C.3.11	Tenders will be evaluated in terms of the O. R. Tambo District Municipality's procurement policy. The Employer reserves the right to contact references and make enquiries to determine the tenderer's competence, reliability, experience, reputation, and capability to perform the contract.
C.3.11.1	Add the following new paragraph directly under Clause C.3.11.1. The Evaluation of tender offers will be undertaken as follows: Replace the contents of the entire sub-clause with the following: The procedure for evaluation of responsive tender offers will be method 2 of table F.1 of SANS 294: 2004. Financial offer & Preferences. The bid will be awarded to the bidder who has scored the highest points for price and preferences combined BUT the prerequisite will be to obtain at least 70 points for quality (functionality), which will be explained in Stage 2 below. Nevertheless, O. R. Tambo District Municipality retains the right to accept any bid. Stage 1: Compliance with Bid Rules and other Requirements The bids will be checked to ensure that they comply with the bid rules and all other requirements of the project document. Tender offers will be screened to identify schedules and requested documents that are incomplete or have not been submitted. In particular, the following documentation must be completed and/or included within the bid. • The form of Offer and Acceptance • Audited financial statements for any tender price over R10million • Certified company registration documents and ID of members • Form C: Compulsory Enterprise Questionnaire • Form D: Certificate of Authority for Signature • Form E: Amendments, Qualifications and Alternatives • Form H: Certificate of Good Standing • Form I: Relevant company experience • Form J: Details of key staff and CVs • Form M: Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2022 • All information supporting the above forms • Addenda issued during the bid period, if any.

Clause	Wording / Data																	
	- The pricing schedule Tender offers will be tested for compliance with all the requirements of the as-amended Standard Conditions of Tender including the following: a) Eligibility (C.2.1) b) Pricing the tender offer (C.2.10.3) c) Alterations to documents (C.2.11) d) Alternative tenders offer (C.2.12) e) Submitting a tender offer (C.2.13) f) MBD4 – Bidders’ Disclosure. Tender offers will be declared non-responsive should they fail to comply with any one of the requirements of 1) above. Failure to supply the required and requested information will render the Bid Non-responsive, and the Bid will be disqualified. Stage 2: Functionality The next state in the evaluation process will consist of evaluating Functionality scores, as follows: FUNCTIONALITY EVALUATION <table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td>Minimum Conditions of Tender / Functionality (see detailed criteria below)</td><td>100</td></tr><tr><td> - Experience with respect to similar projects </td><td>50</td></tr><tr><td> - Qualifications and Experience of key staff assigned to the contract </td><td>50</td></tr></table> Only bidders who score 70 points or more on stage 2 will be evaluated further and therefore eligible for award. The maximum score for functionality shall be 100, distributed as follows: <table><tr><th></th><th>Category of Quality / Functionality</th><th>Max functionality points</th></tr><tr><td>B1.1</td><td>Experience of company on similar projects</td><td>50</td></tr><tr><td></td><td> Tenderers will be allocated a functionality score in accordance with the criteria below to rate their experience in work of a similar nature. In order to receive a score, the tender offer must provide the all necessary and clear information required in the table given in RETURNABLE SCHEDULE B3-1: TENDERERS EXPERIENCE and include all the documentary evidence in a separate lever-arch file. Required documentary evidence: Proof of Company involvement and Scope of Work: pdf copy of BoQ Summary page from Agreement Document or Payment Certificate BoQ Summary Page. </td><td></td></tr></table>	ITEM	WEIGHT	Minimum Conditions of Tender / Functionality (see detailed criteria below)	100	Experience with respect to similar projects	50	Qualifications and Experience of key staff assigned to the contract	50		Category of Quality / Functionality	Max functionality points	B1.1	Experience of company on similar projects	50		Tenderers will be allocated a functionality score in accordance with the criteria below to rate their experience in work of a similar nature. In order to receive a score, the tender offer must provide the all necessary and clear information required in the table given in RETURNABLE SCHEDULE B3-1: TENDERERS EXPERIENCE and include all the documentary evidence in a separate lever-arch file. Required documentary evidence: Proof of Company involvement and Scope of Work: pdf copy of BoQ Summary page from Agreement Document or Payment Certificate BoQ Summary Page.	
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Clause	Wording / Data																					
		Proof of Successful Completion and Date of Completion: Attach scan of signed Completion Certificate (or Practical Completion Certificate) Functionality Points for “Experience of company” will be scored as follows:																				
		The tendering company / tendering entity has successfully completed at least one construction contract which: - Substantially involved water retaining reinforced concrete structures (for example reservoirs / clarifiers / settling tanks / filter bed structures / biological reactor tanks); and - Which was successfully completed within the last 6 years; and - Where the contract value exceeded a present-day equivalent value of R60 million (including VAT). The present day value is deemed to be the original tender price escalated by 6%pa compounded from date of Practical Completion or Certificate of Completion to July 2026.	50																			
		The tendering company / tendering entity has successfully completed two (2) construction contracts where: Both substantially involved water retaining reinforced concrete structures (for example reservoirs / clarifiers / settling tanks / filter bed structures / biological reactor tanks); and - Were both were successfully completed within the last 6 years; and - Where the combined contract values together exceeded a present-day equivalent value of R60 million (including VAT). The present-day value is deemed to be the original tender price escalated by 6%pa compounded to July 2026	40																			
		The tendering company / tendering entity has successfully completed three (3) construction contracts where: All 3 substantially involved water retaining reinforced concrete structures (for example reservoirs / clarifiers / settling tanks / filter bed structures / biological reactor tanks); and - Were all 3 were successfully completed within the last 6 years; and - Where the combined contract values together exceeded a present day equivalent value of R60 million (including VAT). The present day value is deemed to be the original tender prices each escalated by 6%pa compounded to July 2026	30																			
		Tendering Entity failed to provide all necessary clear and/or sufficient evidence of compliance.	0																			
	B1.2	Experience of key personnel	50																			
		Tenderers will be allocated a functionality score to rate the key personnel assigned to the Contract in accordance with the criteria below. In order to receive a Functionality score for key personnel, the tender offer must provide the information required in RETURNABLE SCHEDULE B4: EXPERIENCE OF KEY PERSONNEL																				
		<table><tr><th rowspan="2">Key Personnel Role</th><th colspan="2">Relevant Years of Experience in Role</th><th rowspan="2">Maximum points available</th></tr><tr><th>Years</th><th>Points</th></tr><tr><td rowspan="3">Construction Manager (Site Agent)</td><td>More than 10</td><td>25</td><td rowspan="3">25</td></tr><tr><td>5 to 10</td><td>15</td></tr><tr><td>Less than 5</td><td>0</td></tr><tr><td rowspan="2"></td><td>More than 10</td><td>25</td><td rowspan="2">25</td></tr><tr><td>5 to 10</td><td>15</td></tr></table>	Key Personnel Role	Relevant Years of Experience in Role		Maximum points available	Years	Points	Construction Manager (Site Agent)	More than 10	25	25	5 to 10	15	Less than 5	0		More than 10	25	25	5 to 10	15
	Key Personnel Role	Relevant Years of Experience in Role		Maximum points available																		
Years		Points																				
Construction Manager (Site Agent)	More than 10	25	25																			
	5 to 10	15																				
	Less than 5	0																				
	More than 10	25	25																			
	5 to 10	15																				

Clause	Wording / Data			
	Concrete Foreman Experience in water retaining reinforced concrete structures	Less than 5	0	
STAGE 3: EVALUATION FOR PRICE AND SPECIFIC GOALS (90/10)				
The procedure for Stage 3 of evaluation is as follows:				
PRICE: 90				
SPECIFIC GOALS: 10				
a) Points Awarded for Price (Ps)				
90/10 preference point system for acquisition of goods or services with a Rand value of R50 000 000 or higher (all applicable taxes included).				
Scoring of Price:				
1. Review financial offer and correct discrepancies between totals and calculations / summations in accordance with the Tender Data (C.3.9).				
2. Reduce all tender offers to a common base i.e. comparative offer.				
3. Confirm the tenderers are eligible for the specific goals claimed.				
4. Score Tender Offer for Specific Goals.				
5. Score Tender Offer for Price.				
A maximum of 90 points is allocated for price on the following basis, Total Points and rank Tender Offers.				
b) Points awarded for specific goals				
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 a table below as may be supported by proof/ documentation included with:				
Scoring of Specific Goals:				
In accordance with the Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2022, the points allocation for Specific Goals are as follows:				
The specific goals allocated points in terms of this tender			Number of points Allocated on 90/10 system	
51% Black-owned enterprises			2.5	
100% Women-owned enterprises			2.5	

Clause	Wording / Data	
	100% Youth-owned enterprises	2.5
	Where the enterprise head office or primary place of business is located within O. R. Tambo District.	2.5
	Points will be awarded to tenderers who are eligible for preference Specific Goals. The terms and conditions of the Preference Schedule shall apply in all respects to the tender evaluation process and any subsequent contract. Tenderers must submit certified copies of all supporting documents necessary to prove conformance with Specific Goal criteria listed above in order to be eligible for Specific Goal points. The total calculated points will be rounded to the second decimal place. Note that the objective Criteria as per the SCM Policy Paragraph 91 will be applied: 91. Objective criteria on the evaluation and award of bids 91.1 As way of achieving fair distribution of municipal resources on capital infrastructure projects, a bidder will not be awarded the same commodity of work more than once within a period of six (6) months. 91.2 If the highest scoring bidder has been previously awarded for the same commodity tender within six (6) months, then the next highest scoring bidder will be considered for recommendation and award. 91.3 If the highest scoring bidder has been previously recommended for award in the same sitting for a tender of the same commodity, the next highest scoring bidder will be considered for recommendation and award. 91.4 Where the bid price offer is ten percent (10%) below the engineer's estimate, that bid will be rejected as it will pose a risk to the municipality of non-completion of the project to be implemented thus leading to underspending, severe impact on service delivery and delays in completion of projects within projected time period. 91.5 Further in line with CIDB practice note 5, paragraph 3.4 (3), the municipality will judge the reasonableness of financial offers and reject all tender offers with unrealistic financial offers. Having made the final selection: 1. An intention to Award will be issued and published on the O. R. Tambo District Municipality's website, which is www.ortambodm.gov.za. 2. If no objection is received within fourteen days of the intention to award being issued, the successful Tenderer will be notified of O. R. Tambo District Municipality's acceptance of his/her bid.	
C.3.11.3	Risk Analysis Add the following new sub-clause:	

Clause	Wording / Data
	Notwithstanding compliance with regards to CIDB registration or any other requirements of the tender, the employer will perform a risk analysis in respect of the following: a) reasonableness of the financial offer; b) reasonableness of unit rates and prices. No tenderer will be recommended for award unless the tenderer has demonstrated that he/she has the resources and skills required to complete the project successfully.
C.3.12	Replace the contents of Clause 3.12 with the following: Full insurances to be provided by the Contractor. The Contractor must provide the Employer with the insurance policy information and certificates of insurance prior to the commencement of the contract.
C3.13	In addition to the requirements of Clause C3.13, a tender will only be accepted if: a) The Tenderer's tax matters are in order with the South African Revenue Services. b) The Tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation (CRS Number or print out to be provided). c) The Tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector. d) The Tenderer is registered in the Department of National Treasury - Central Supplier Database (CSD Number to be provided). e) The Tenderer has not: i) abused the Employer's Supply Chain Management System or ii) failed to perform on any previous contract and has been given a written notice to this effect. f) The tenderer has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process and persons in the employ of the state are not permitted to submit tenders or participate in the contract; In the case of Joint Ventures all members of the JV are to complete the Compulsory Enterprise Questionnaire. g) The tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer. h) Attended a compulsory briefing session and site inspection. Signing the briefing and site inspection attendance register is mandatory. The Form of Offer and Acceptance is correctly completed and signed.
C.3.16	An Employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the Employer, register and publish the award on the CIDB Register of Projects.
C.3.17	The number of paper copies of the signed contract to be provided by the employer is one.
C.3.18	All requests shall be in writing.
C.3.19	Add the following new clause below Clause C.3.18: "Jurisdiction" unless stated otherwise in the tender data, each Tenderer and the Employer undertake to accept the jurisdiction of the law courts of the Republic of South Africa.
C.3.20	Add the following new clause below Clause C.3.18:

Clause	Wording / Data
	The successful tenderer will be encouraged to include as much of the Direct Participation required minimum 30% spend by subcontracting to local EMEs or QSEs from the immediate area of the Site. The details of any EMEs / QSEs need not to be submitted with the tender but will be required of the preferred bidder prior to the signing of the Contract.

T2: Returnable Documents

Number	Heading	Pages
T2.1	Schedule Of Returnable Documents	24
T2.2	Returnable Documents	27

T2.1 SCHEDULE OF RETURNABLE DOCUMENTS

T2.1.1. General

The Tender Document must be submitted as a whole. All forms must be properly completed as required, and the document shall not be taken apart or altered in any way whatsoever. The Tenderer is required to complete each and every Schedule and Form listed below to the best of his ability as the evaluation of tenders and the eventual contract will be based on the information provided by the Tenderer. Failure of a Tenderer to complete the Schedules and Forms to the satisfaction of the Employer will inevitably prejudice the tender and may lead to rejection on the grounds that the tender is not responsive.

T2.1.2. Returnable Schedules, Forms and Certificates

SCHEDULE	DESCRIPTION	PAGE
	Company Specific	
A1	Authority to sign documents	27
A2	Certificate Of Attendance At Clarification Meeting / Site Inspection	28
A3	Certificate of Authority for Joint Ventures	29
A4	Joint Venture Agreement	30
A5	Compulsory Enterprise Questionnaire	31
	Municipal Bid Documents (MBD)	
MBD 1	Schedule D: Municipal Bid Document	32
MBD 4	Declaration of Interest	34
MBD 6.1	Preference Points Claim Form	37
MBD 8	Declaration of Bidder's Past Supply Chain Management Practices	41
MBD 9	Certificate of Independent Bid Determination	43
	Technical and Evaluation	
B1	Proposed Organisation and Organogram	46
B2	Schedule of Proposed Subcontractors	47
B3	Tenderers Expertise and Experience	48
B4	Experience of Key Personnel	49
B5	Preliminary Quality Assurance Plan	50
B6	Health and Safety Plan	51
B7	Preliminary Program	52
B8	Schedule of Estimated Monthly Expenditure	53
	Contractual	
B9	Amendments / Alternative and Qualifications by Tenderer	54
B10	Record of Addenda to Tender Document	55
C1.1	Form of Offer and Acceptance	57
C1.2	Contract Data	62
C1.3	Performance Guarantee	80
C1.4	Adjudication	83
C1.5	Occupational Health and Safety Agreement	84
	Pricing Data	
C2.1	Pricing Instructions	87
C2.2	Bill of Quantities	88

T2.2 RETURNABLE DOCUMENTS

NB: TENDERERS MUST COMPLETE THESE DOCUMENTS / FORMS IN BLACK INK

A GENERAL INFORMATION OF TENDERER

1. Name of Tenderer:

2. Contact details

Address :

Tel no :

Fax no :

Cell no :

E-mail address:

3. Legal entity: Mark with an X.

Sole proprietor	
Partnership	
Close corporation	
Company (Pty) Ltd	
Joint venture	

In the case of a Joint venture, provide details on joint venture members:

Joint venture member	Type of entity (as defined above)

4. Income tax reference number:

(in case of a joint venture, provide for all joint venture members)

5. Municipal services area where the enterprise is registered:

(in case of a joint venture, provide for all joint venture members)

6. Company / close corporation Registration Number:

(in case of a joint venture, provide for all joint venture members)

7. VAT Registration number:

(in case of a joint venture, provide for all joint venture members)

8. CIDB registration number:

(in case of a joint venture, provide for all joint venture members)

A1. AUTHORITY TO SIGN DOCUMENTS

I/We*, the undersigned, am/are* duly authorised to sign the form of tender on behalf of

.....

by virtue of the Articles of Association/Resolution of the Board of Directors*, of which a certified copy is attached, or

.....

.....

(*Delete whichever is inapplicable)

Indicate the status of the tenderer by ticking the appropriate box hereunder :

A Company	B Partnership	C Joint Venture	D Sole Proprietor	E Close Corporation
☐	☐	☐	☐	☐

1.

NAME

SIGNATURE

DATE

2.

NAME

SIGNATURE

DATE

WITNESSES:

1.

NAME

SIGNATURE

DATE

2.

NAME

SIGNATURE

DATE

A2. CERTIFICATE OF ATTENDANCE AT CLARIFICATION MEETING / SITE INSPECTION

This is to certify that(Tenderer)

of
(address)

.....
was represented by the person(s) named below at the compulsory meeting held for all tenderers at

..... (location) on (Date)

starting at

I/We acknowledge that the purpose of the meeting was to acquaint ourselves with the site of the works and / or matters incidental to doing the work specified in the tender documents in order for us to take account of everything necessary when compiling our rates and prices included in the tender. I/We have examined the Site of the Works and its surroundings for which I/we* am/are* submitting this Tender and have, so far as is practicable, familiarised myself/ourselves* with all information, risks, contingencies and other circumstances which may influence or affect my/our* tender.

Particulars of person(s) attending the meeting:

Name Signature

Capacity

Name Signature

Capacity

E-mail

Attendance of the above persons at the meeting is confirmed by the Employer's representative, namely:

Name Signature

Capacity Date & Time

A3. CERTIFICATE OF AUTHORITY FOR JOINT VENTURES

This Returnable Schedule is to be completed only if Tenderer is a joint venture.

We, the undersigned, are submitting this tender offer in joint venture and hereby authorise

Mr/Ms, authorised signatory of the company, close corporation or partnershipacting in the capacity of lead partner, to sign all documents in connection with the tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner		Signature : Name : Designation :
		Signature : Name : Designation :
		Signature : Name : Designation :
		Signature : Name : Designation :

Note:

A copy of the Joint Venture Agreement showing clearly the percentage contribution of each partner to the Joint Venture shall be appended to this Schedule.

A4. JOINT VENTURE AGREEMENT

The Tenderer, if a Joint Venture, must attach the Joint Venture Agreement here as per the requirements of Clause C.2.1.4.5 of the Tender Data.

SIGNED BY/ON BEHALF OF TENDERER:

--

NAME

--

SIGNATURE

--

DATE

A5. COMPULSORY ENTERPRISE QUESTIONNAIRE

The following particulars must be furnished. In the case of a joint venture, **separate** enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise _____

Section 2: VAT registration number, if any

Section 3: CIDB registration number, if any

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: The attached MBD1 must be completed for each Tendering Entity and be attached as a tender requirement

Section 7: The attached MBD4 must be completed for each Tendering Entity and be attached as a tender requirement

Section 8: The attached MBD6.1 must be completed for each Tendering Entity and be attached as a tender requirement

The undersigned, who warrants that he/she is duly authorised to do so on behalf of the enterprise:

- authorises the Employer to obtain a tax Clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- confirms that neither the name of the enterprise nor the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise, has within the last five years been convicted of fraud or corruption;
- confirms that I/we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest;
- confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

SIGNED:

--

ENTERPRISE NAME

--

NAME

--

DATE

--

POSITION

--

SIGNATURE

SCHEDULE D: MUNICIPAL BIDDING DOCUMENTS (MBDs)
MBD 1

PART A
INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF O. R. TAMBO DISTRICT MUNICIPALITY					
BID NUMBER:	ORTDM SCMU 15-26/27	CLOSING DATE:	Xx xx 2026	CLOSING TIME:	12.00PM
DESCRIPTION:	COMPLETION OF THORNHILL WTW Ph3 UPGRADE (80MI/d to 115MI/d): CIVIL WORKS				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT:					
TENDER BOX, GROUND FLOOR, O. R. TAMBO DISTRICT MUNICIPALITY BUILDING					
NELSON MANDELA DRIVE					
MYEZO PARK, MTHATHA					
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
TAX COMPLIANCE STATUS	TCS PIN:		CSD No:		
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	☐ Yes ☐ No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	☐ Yes ☐ No	
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES, ANSWER PART B:3]	
TOTAL NUMBER OF ITEMS OFFERED			TOTAL BID PRICE	R	
SIGNATURE OF BIDDER			DATE		
CAPACITY UNDER WHICH THIS BID IS SIGNED					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:			TECHNICAL INFORMATION MAY BE DIRECTED TO:		
DEPARTMENT	SCM DEPARTMENT		CONTACT PERSON	Mr. N.Noto	
CONTACT PERSON	MR. SAKHIWO HOPA		TELEPHONE NUMBER	047 501 6425	
TELEPHONE NUMBER	047 501 6449		FACSIMILE NUMBER	N/A	
E-MAIL ADDRESS	sakhiwoh@ortambodm.gov.za		E-MAIL ADDRESS	nkosivabon@ortambodm.gov.za	

PART B
TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:	
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.	
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED).	
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.	
2. TAX COMPLIANCE REQUIREMENTS	
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.	
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.	
2.3 APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA .	
2.4 FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B:3.	
2.5 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.	
2.6 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.	
2.7 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.	
3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS	
3.1. IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	☐ YES ☐ NO
3.2. DOES THE ENTITY HAVE A BRANCH IN THE RSA?	☐ YES ☐ NO
3.3. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	☐ YES ☐ NO
3.4. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	☐ YES ☐ NO
3.5. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	☐ YES ☐ NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.	

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

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

DATE:

DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state¹.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.
3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.
 - 3.1 Full Name of bidder or his or her representative.....
 - 3.2 Identity Number:
 - 3.3 Position occupied in the Company (director, trustee, shareholder²):
.....
 - 3.4 Company Registration Number:
 - 3.5 Tax Reference Number:
 - 3.6 VAT Registration Number:
 - 3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
 - 3.8 Are you presently in the service of the state?..... **YES / NO**
 - 3.8.1 If yes, furnish particulars.....
.....

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

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

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

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

3.9.1 If yes, furnish particulars.....

.....

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

3.10.1 If yes, furnish particulars

.....

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

3.11.1 If yes, furnish particulars.....

.....

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

3.12.1 If yes, furnish particulars

.....

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

3.13.1 If yes, furnish particulars.....

.....

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

3.14.1 If yes, furnish particulars

.....

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

Full name	Identity number	State employee number

.....
Signature

.....
Date

.....
Capacity

.....
Name of Bidder

MBD 6.1 - PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

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

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

1. GENERAL CONDITIONS

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

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

1.2 The applicable preference point system for this tender is the 90/10 preference point system.

1.3 Points for this bid shall be awarded for:

- (a) Price; and
- (b) Specific Goals

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

	POINTS
PRICE	90
SPECIFIC GOALS	10
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.

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:

$$\begin{array}{ccc} \text{80/20} & \text{or} & \text{90/10} \\ P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) & \text{or} & P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \end{array}$$

Where

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

4. POINTS AWARDED FOR 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.

The specific goals allocated points in terms of this tender	Number of points Allocated on 80/20 system	Number of points claimed by Tenderer (To be completed by the Tenderer)
51% Black-owned enterprises	2.5	
100% Women-owned enterprises	2.5	
100% Youth-owned enterprises	2.5	
Where the enterprise head office or primary place of business is located within O. R. Tambo District.	2.5	

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:

- 1 The information furnished is true and correct;
- 2 The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- 3 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;
- 4 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

The following documents shall be submitted to prove compliance with the above Specific Goals where claimed:

- Copy of business registration documents, as issued by CIPC.
- Certified copy of identity documents of directors/ shareholders/ partners / members, as the case may be.
- Original Valid Tax Clearance Certificate or a Confirmation of Tax Validity with the pin issued by SARS.
- Proof of latest municipal rates and taxes statement of the bidder indicating that rates and taxes are not in arrears for more than 3 months.
- Proof of latest municipal rates and taxes statement of each company director indicating that rates and taxes are not in arrears for more than 3 months.
- Proof of latest municipal water and sanitation charges statement of the bidder indicating that rates and taxes are not in arrears for more than 3 months for bidders who reside in the O. R. Tambo District Municipality area.
- Proof of latest municipal water and sanitation charges statement of each company director indicating that rates and taxes are not in arrears for more than 3 months for bidders who reside in the O. R. Tambo District Municipality area.
- Confirmation of address from a ward councillor where the bidder and company directors operate and reside in a peri-urban area where no rates and taxes and service charges are not billed.
- A copy of a valid lease agreement where the bidder does not own the property they are operating from.

SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

.....

MBD 8 - DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

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

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied). The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.	☐	☐
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the homepage.	☐	☐
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	☐	☐
4.3.1	If so, furnish particulars:		

Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	☐	☐
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	☐	☐
4.7.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME) _____

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

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

.....
Signature

.....
Date

[illegible]

MBD 9 - CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

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

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

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

PROJECT NO.: ORTDM SCMU 15_26/27

COMPLETION OF THORNHILL WTW Ph3 UPGRADING (80ML/D TO 115ML/D): CIVILS

in response to the invitation for the bid made by:

O. R. TAMBO DISTRICT MUNICIPALITY

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

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

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

- (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- ³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill, and knowledge in an activity for the execution of a contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

B1. PROPOSED ORGANISATION AND STAFFING

The tender offer shall include an organogram showing the team of key personnel the Tenderer proposes to assign to the Contract and how responsibilities for the various disciplines or work and components of the Works will be assigned. The name, roles and responsibilities of each person must be clearly set out, and corresponding job descriptions must be provided as an addendum to the organogram.

In the case of a Joint Venture or where major sub-contractors are made use of, the organogram must show how respective responsibilities are to be allocated.

As a minimum, the organogram must show how respective responsibilities are to be allocated. As a minimum, the organogram must include for the personnel detailed in Returnable Schedule B4: Experience of Key Personnel.

The Tenderer shall include the requisite organogram and CVs in the Supporting Documentation file.

In addition to the detail request above, ***the names of the following shall be entered below*** (the CVs for these names will be used to score Functionality):

Construction Manager (Site Agent)	
Construction Supervisor (Main Concrete Foreman)	

SIGNED BY/ON BEHALF OF TENDERER:

--

NAME

--

SIGNATURE

--

DATE

B2. SCHEDULE OF PROPOSED SUBCONTRACTORS

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

SUBCONTRACTORS			
Category/type	Subcontractor Name/Address/Contact Person/Phone/e-mail/Details of Organisation/Firm/ Experience	Items of work (pay items) to be undertaken by the Subcontractor	Estimated Cost of Work (Rand)
TOTAL (Excluding VAT)			

If there is insufficient space above, the Tenderer may include the additional sheets in the Supporting Documentation file, to be submitted in accordance with Clause C.2.13.3 of Tender Data.

Number of additional sheets submitted by the Tenderer to this Schedule(If nil, enter NIL)

Acceptance of this tender shall not be construed as approval of all or any of the listed subcontractors. Should any of the subcontractors not be approved subsequent to acceptance of the tender, this shall in no way invalidate this tender, and the tendered unit rates for the various items of work shall remain final and binding, even in the event of a subcontractor not listed above being approved by the Engineer.

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

B3 TENDERERS EXPERIENCE

Tenderers will be allocated a functionality points for **Tenderer's Experience** in accordance with one of the four criteria below to rate their experience in work of a similar nature:

Points	Description of requirements	Tenderer's Points Claimed: (Mark one cell only)
50	The tendering company / tendering entity has successfully completed at least one construction contract which: - Substantially involved water retaining reinforced concrete structures (for example reservoirs / clarifiers / settling tanks / filter bed structures / biological reactor tanks); and - Which was successfully completed within the last 6 years; and Where the contract value exceeded a present-day equivalent value of R60 million (including VAT). The present day value is deemed to be the original tender price escalated by 6%pa compounded from date of Practical Completion or Certificate of Completion to July 2026.	
40	The tendering company / tendering entity has successfully completed two (2) construction contracts where: - Both substantially involved water retaining reinforced concrete structures (for example reservoirs / clarifiers / settling tanks / filter bed structures / biological reactor tanks); and - Were both were successfully completed within the last 6 years; and - Where the combined contract values together exceeded a present-day equivalent value of R60 million (including VAT). The present-day value is deemed to be the original tender price escalated by 6%pa compounded to July 2026	
30	The tendering company / tendering entity has successfully completed three (3) construction contracts where: - All 3 substantially involved water retaining reinforced concrete structures (for example reservoirs / clarifiers / settling tanks / filter bed structures / biological reactor tanks); and - Were all 3 were successfully completed within the last 6 years; and - Where the combined contract values together exceeded a present day equivalent value of R60 million (including VAT). The present day value is deemed to be the original tender prices each escalated by 6%pa compounded to July 2026	
0	Tendering Entity failed to provide all necessary clear and/or sufficient evidence of compliance.	

Required documentary evidence to support Functionality Points claimed:

- Proof of Company involvement and Scope of Work:** pdf copy of BoQ Summary page from Agreement Document or Payment Certificate BoQ Summary Page.
- Proof of Successful Completion and Date of Completion:** Attach scan of signed Completion Certificate (or Practical Completion Certificate)

The Tenderer shall include the requisite documentation in the Supporting Documentation file.

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

B4 EXPERIENCE OF KEY PERSONNEL

The Functionality point scoring of Key Personnel's relevant Roles and Construction Experience shall be based on the scoring criteria set out in Tender Data.

"relevant years of experience" means the number of accumulative years that proposed Site Agent / Concrete Foreman has carried-out the same full time role on civil construction contracts involving water infrastructure (in the case of the Site Agent) or involving reinforced concrete structures (in the case of the Concrete Foreman).

CONSTRUCTION MANAGER / SITE AGENT ROLE:					
Name:					
Employed by	Project Name	Water Infrastructure SoW	Period		
			From	To	Months

CONCRETE FOREMAN ROLE:					
Name:					
Employed by	Project Name	Reinforced Concrete SoW	Period		
			From	To	Months

Curriculum Vitae (CV), up to a maximum of five (5) pages must be submitted for each of the above key personnel. The CVs must reflect the above summarised information. The Tenderer shall include the requisite CVs in the Supporting Documentation file (using reference B4.1 for Construction Manager and B4.2 for Concrete Foreman).

Declaration: I confirm that, if awarded this Contract and it turns out that the proposed Site Agent and / or Concrete Foreman is / are not available, alternate key staff of **equal** or **better experience** will be made available to undertake this Contract.

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

B5 PRELIMINARY QUALITY ASSURANCE PLAN

The Tenderer must submit a Preliminary Quality Assurance Plan showing how the Tenderer will comply with Sub-Clause 4.9 in C1.2: Contract Data.

The Preliminary Quality Assurance Plan must outline processes, procedures and associated resources, applied by whom and when, to meet the requirements and indicate how risks will be managed and what contribution can be made regarding value management. Particular attention in the plan must be given to the following:

- a) The preparation and internal approval process for the Contractors Documents in terms of Clause 5 of the General Conditions of Contract.
- b) The proposed internal quality management procedures pertaining to the Works and including aspects such as:
 - Control and tracking of the Contractor's Documents
 - Testing procedures

The plan must include a technical description of systems and equipment offered, highlighting the main features, benefits and innovations thereof, and showing how these can meet the Employer's objectives and the specified services requirements. This must be supplemented by technical literature such as brochures, drawings, for the various items of plant and equipment offered.

This plan must address the Tenderer's plans for completing the Works within the specified Time for Completion, paying particular attention to:

- a) Interfacing with (i) the Tenderer's own sub-contractors or Joint Ventures and (ii) the Mechanical and Electrical Contractor; and
- b) The sequencing of the Works in terms of the requirements of C3: Scope of Work.

The Tenderer must include the required Quality Assurance Plan and supporting information in the Supporting Documentation file to be submitted in accordance with Clause C.2.13.3 of Contract Data.

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

B6 HEALTH AND SAFETY PLAN

Tenderers are to note the requirements of the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014 issued in terms of Section 43 of the Act. The Tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.

In this regard, the Tenderer shall prepare and attach a Health and Safety Plan in respect of the Works in order to demonstrate the necessary competencies and resources to perform the construction work all in accordance with the Act and Regulations. The Health and Safety specification for the Employer is attached. The Tenderer's Health and Safety Plan shall cover inter-alia the following details:

- 1) Management Structure, Site Supervision and Responsible Persons including a succession plan
- 2) Contractor's induction training program for employees, sub-contractors and visitors to the Site
- 3) Health and safety precautions and Procedures to be adhered to in order to ensure compliance with the Act, Regulations and Safety Specifications
- 4) Regular monitoring Procedures to be performed
- 5) Regular liaison, consultation and review meetings with all parties
- 6) Site security, welfare facilities and first aid
- 7) Site rules and fire and emergency Procedures.

Tenderers are to note that the Contractor is required to ensure that all sub-contractors or others engaged in the performance of the contract also comply with the above requirements.

The Tenderer shall also take into account the additional requirements stated in the Scope of Work when drawing up the Health and Safety Plan for the contract.

Details of the Health and Safety Plan shall be appended to this Schedule.

Number of sheets appended by the Tenderer to this Schedule (If nil, enter NIL)

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

B7 PRELIMINARY PROGRAM

The Tenderer shall provide a preliminary program in Gantt Chart format showing how the requirements of C1.2: Contract Data and Part C3: Scope of Work will be met; and outlining the key activities and milestones for the Works and the sequencing thereof.

The program must be based on the tendered Time for Completion and take cognisance of the programming limitations given in the Project Specifications.

The preliminary program must be included in the Supporting Documentation file.

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

B8 SCHEDULE OF ESTIMATED MONTHLY EXPENDITURE

The Tenderer shall state his estimated expenditure indicating the values of each monthly claim in terms of Clause 6.10 of the General Conditions of Contract, which he/she estimates will arise based on his/her preliminary program and tendered rates, in the table below.

MONTH	VALUE
1	R
2	R
3	R
4	R
5	R
6	R
7	R
8	R
9	R
10	R
11	R
12	R
13	R
14	R
15	R
16	R
17	R
18	R
19	R
20	R
21	R
22	R
23	R
24	R
TOTAL	R

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

B9 AMENDMENTS / ALTERNATIVES AND QUALIFICATIONS BY TENDERER

The Tender should not make any departures from the provisions of this contract as per Clause C2.12 in the Tender Data.

(The schedules below are not an invitation for amendments, deviations or alternatives but should the Tenderer desire to make any departures from the provisions of this contract he shall set out his proposals clearly hereunder.)

I / We herewith propose the amendments, alternatives and discounts as set out in the tables below:

(a) AMENDMENTS

PAGE, CLAUSE OR ITEM NO	PROPOSED AMENDMENT
	NO AMENDMENTS ALLOWED

- (1) *Amendments to the General and Special Conditions of Contract are not acceptable;*
- (2) *The Tenderer must give full details of all the financial implications of the amendments and qualifications in a covering letter attached to his tender.*

(b) ALTERNATIVES

PROPOSED ALTERNATIVE	DESCRIPTION OF ALTERNATIVE
	NO ALTERNATIVES ALLOWED

- (1) *Individual alternative items that do not justify an alternative tender and an alternative offer for time for completion should be listed here.*
- (2) *In the case of a major alternative to any part of the work, a separate Bill of Quantities, program, etc, and a detailed statement setting out the salient features of the proposed alternatives must accompany the tender.*
- (3) *Alternative tenders involving technical modifications to the design of the works and methods of construction shall be treated separately from the main tender offer.*

(c) QUALIFICATIONS

ITEM ON WHICH QUALIFICATION IS MADE	DESCRIPTION OF QUALIFICATION
	NO QUALIFICATIONS ALLOWED

- (1) *The Tenderer must give full details of the discounts offered in a covering letter attached to his tender, failing which, the offer will be prejudiced.*

If there is insufficient space above, the Tenderer may append additional sheets.

Number of additional sheets appended by the Tenderer to this Schedule (If nil, enter NIL)

SIGNED BY/ON BEHALF OF TENDERER:

--

NAME

--

SIGNATURE

--

DATE

B10 RECORD OF ADDENDA TO TENDER DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:		
No.	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		

If there is insufficient space above, the Tenderer may include the additional sheets in the Supporting Documentation file.

Number of additional sheets appended by the Tenderer to this Schedule (If nil, enter NIL)

SIGNED BY/ON BEHALF OF TENDERER:

--

NAME

--

SIGNATURE

--

DATE

C1: Agreements and Contract Data

Number	Heading	Pages
C1.1	Form of Offer and Acceptance	55
C1.2	Contract Data	62
C1.3	Performance Guarantee	79
C1.4	Adjudication	83
C1.5	Occupational Health and Safety Agreement	84

C1.1. Form of Offer and Acceptance

Offer

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract in respect of the following works:

BID NO: ORTDM SCMU 15-26/27: COMPLETION OF THORNHILL WTW Ph3 UPGRADE (80MI/d to 115MI/d): CIVIL WORKS

The tenderer, identified in the offer signature block below, has examined the documents listed in the tender data and addenda thereto as listed in the Schedule of Returnable Documents, and by submitting this offer has accepted the conditions of tender.

By the representative of the tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the tenderer offers to perform all of the obligations and liabilities of the contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data, within the Contract Period stated below.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF 15% VALUE ADDED TAX IS:

.....

..... RAND (in words);

R(in figures)

This offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

SIGNED ON BEHALF OF/BY THE TENDERER:

--

NAME

--

SIGNATURE

--

CAPACITY

--

DATE

NAME AND ADDRESS OF TENDERER:

.....

SIGNED BY WITNESS:

--

NAME

--

SIGNATURE

--

DATE

Acceptance

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the Conditions of Contract identified in the Contract Data and for the contract period offered. Acceptance of the tenderer's offer shall form an Agreement between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in:

Part C1: Agreements and Contract Data
Part C2: Pricing Data
Part C3: Scope of Work
Part C4: Site Information
Part C5: Tender Drawings

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto as listed in the Returnable Documents as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and Acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this schedule which must be duly signed by the authorised representative(s) of both parties.

The tenderer shall within two weeks of signing this Agreement, including the Schedule of Deviations (if any), or when or just after this Agreement comes into effect, contact the employer's implementing agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date of signature of this document, including the Schedule of Deviations (if any). Unless the tenderer (now Contractor) within five days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

SIGNED ON BEHALF OF/BY THE EMPLOYER:

NAME

SIGNATURE

Municipal Manager

CAPACITY

DATE

Name and Address of Organisation:

OR Tambo District Municipality
Magwa House
Nelson Mandela Drive, 5100

SIGNED BY WITNESS:

NAME

SIGNATURE

DATE

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
2. A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of Offer and Acceptance, the outcome of such Agreement shall be recorded here.
3. Any other matter arising from the process of Offer and Acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the Contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above Agreements and recorded here shall also be incorporated into the final draft of the Contract.

1. Subject

Details

.....

.....

.....

2. Subject

Details

.....

.....

.....

3. Subject

Details

.....

.....

.....

4. Subject

Details

.....

.....

.....

By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Tenderer agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Returnable Documents, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and Acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

Schedule of Deviations (continued)

SIGNED ON BEHALF OF/BY THE TENDERER *(only on award of Contract):*

NAME

SIGNATURE

CAPACITY

DATE

SIGNED BY WITNESS *(only on award of Contract):*

NAME

SIGNATURE

DATE

SIGNED ON BEHALF OF/BY O. R. TAMBO DISTRICT MUNICIPALITY:

NAME

SIGNATURE

CAPACITY

DATE

SIGNED BY WITNESS:

NAME

SIGNATURE

DATE

CONFIRMATION OF RECEIPT

The Tenderer, (now Contractor), identified in the Offer part of this Agreement hereby confirms receipt from the Employer, identified in the Acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations (if any) today:

the(day) of (month) (year)

at(place)

SIGNED ON BEHALF OF/BY THE CONTRACTOR (*only on Receipt of Agreement Document*):

NAME

SIGNATURE

CAPACITY

SIGNED BY WITNESS:

NAME

SIGNATURE

C1.2. Contract Data

Part 1: Contract Data Provided by the Employer

GENERAL CONDITIONS OF CONTRACT

The following standardised General Conditions of Contract:

General Conditions of Contract for Construction Works (Third Edition, 2015)

Prepared by the South African Institution of Civil Engineering (SAICE) shall apply to and form the General Conditions of Contract for this contract. Copies of these Conditions of Contract are obtainable from the South African Institution of Civil Engineering (SAICE), Private Bag X200, Halfway House 1685, Tel: (011) 805 5947, Fax: (011) 805 5971, email:civilinfo@saice.org.za.

Copies of the General Conditions of Contract are available for inspection and scrutiny at the offices of the Engineer.

The General Conditions of Contract 2015 makes references to the Contract Data for specific data, which, together with these conditions, collectively describe the risks, liabilities and obligations of the contracting parties and the Procedures for the administration of the Contract. The Contract Specific Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the General Conditions of Contract.

The General Conditions of Contract shall be read in conjunction with the variations, amendments and additions set out in the Contract Specific Data below. Each item of data given is cross-referenced to the Clause in the General Conditions of Contract to which it mainly applies.

CONTRACT SPECIFIC DATA

The following Contract specific data are applicable to this Contract:

1. GENERAL

1.1 Definitions

1.1.1 The Contract

*Add the following to **Sub-Clause 1.1.1.5:***

“The date the Agreement is deemed to come into effect is the date the Contractor receives a valid Purchase Order from the Employer **or** the date the Contractor receives a signed copy of the Contract Document containing the Form of Offer and Acceptance and Schedule of Deviations; whichever comes first.”

*Add the following to **Sub-Clause 1.1.1.7:***

“and signed by both parties.”

*Add the following to **Sub-Clause 1.1.1.13:***

“The Defects Liability Period is 12 (twelve) months, measured from the date of the Certificate of Completion.”

*Replace **Sub-Clause 1.1.1.14** with the following:*

“Due Completion Date” means the date of expiry of the **Time for Completion** stated in the Contract Data or as tendered in the Form of Offer for achieving Practical Completion of the Works (whichever is the lessor), calculated from the date of **Site Handover and Instruction to Commence with the Works** and as adjusted by such extensions of time or acceleration as may be allowed in terms of the Contract”

*Add the following to **Sub-Clause 1.1.1.15:***

"The name of the Employer is O. R. Tambo District Municipality represented by such person or persons duly authorised thereto by O. R. Tambo District Municipality in writing and the legal successors in title to this person."

*Add the following to **Sub-Clause 1.1.1.16**:*

"The name of the Employer's Agent is GIBB (Pty) Ltd acting through a director, an associate or an official authorised thereto in writing."

*Delete the contents of **Sub-Clause 1.1.1.28** and replace with the following:*

- 1.1.1.28** **Scope of Work** means the document(s) containing the Standard Specifications, the Project Particular Specifications and the Drawings, that specify and describe the Works which are to be provided, and any other requirements and constraints relating to the manner in which the work is to be carried out."

*Add new **Sub-Clauses 1.1.1.35, 1.1.1.36 and 1.1.1.37***

- 1.1.1.35** "**Drawings** means all drawings, calculations and technical information forming part of the Tender Documents (other than information contained in the Specifications) and any modifications thereof or additions thereto from time to time approved in writing by the Engineer or delivered to the Contractor by the Engineer."
- 1.1.1.36** "**Parties**" means the Contractor and the Employer.
- 1.1.1.37** "**approved program**" means the latest program submitted by the Contractor and approved by the Employer's Agent. The latest program agreed and approved by the Employer's Agent supersedes previous approved programs.

1.1 Interpretations

*Delete the contents of **Sub-Clause 1.2** and replace with the following:*

- 1.2.1** Any written communication between the parties shall have been duly delivered or notices issued if:
- 1.2.1.1** Handed to the addressee or to his duly authorised agent; or
- 1.2.1.2** Delivered at the address of the addressee as stated in the Contract Data.

The Employer's address for receipt of communications and notices is:

The address of the Employer is: *Postal:* Private Bag x 6043, Mthatha 5100.

Physical: O. R. Tambo House, Nelson Mandela Drive, Mthatha 5100.

Tel: [047] 501 6400 Fax: [047] 532 4166

The Employer's Agent address for receipt of communications and notices is:

GIBB (Pty) Ltd
36 Stanford Terrace
Mthatha
5100

Telephone: (047) 532 6573
Facsimile: (047) 531 4403
E-mail: dshaw@gibb.co.za

- 1.2.1.3** Any notice or claim required in accordance with this Contract shall be communicated separately from other communications, on a separate cover with specific reference to the clause in terms of which the communication was made

Provided that the Employer, Employer's Agent and Contractor shall be entitled, by written notice to each other, to change their said addresses.

*Add new **Sub-Clause 1.2.6***

- 1.2.6** Any act or communication, including but not limited to "accept, agree, appoint, approve, certify, decide, delegate, dispute, elect, grant, inform, instruct, issue, notice, object, order, record, refuse, request, require, state, dispute, call for" and their derivatives indicate an act to be carried out in writing.

1.3 General Provisions

1.3.2 Governing Law

*Add the following to the end of **Sub-Clause 1.3.2**:*
"The governing law is the law of South Africa."

1.3.5 Contractors Copyright

*Add the following to the end of **Sub-Clause 1.3.5**:*

"No part of any document or drawings issued with this enquiry may be copied, photographed or repeated in any manner or by any process without the written consent of the Engineer. Copyright is reserved on all designs, specifications, patents and patentable designs, systems and Processes contained in the documents and drawings.

The person, firm, or body to whom these documents are issued or made available shall be held jointly and severally responsible in their personal and corporate capacities for any contravention of the requirements of Sub-Clause 1.3.5. The recipients of these documents shall treat the documents as well as the details contained herein as private and confidential."

*Add new **Sub-Clause 1.4***

1.4 Non Variation Clause

1.4.1 Non Variation Clause

This Contract is the entire contract between the parties regarding the matters addressed in this Contract. No representations, terms, conditions or warranties not contained in this Contract shall be binding on the parties. No agreement or addendum varying, adding to, deleting or terminating this Contract including this clause shall be effective unless reduced to writing and signed by both parties.

2. BASIS OF THE CONTRACT

2.4 Ambiguity or discrepancy

*Add the following to the end of **Sub-Clause 2.4.2**:*
"as read with Clause 6.3"

2.5 Assignment

*Add the following to the end of **Sub-Clause 2.5.1**:*
"Such assignment or cession shall be null and void without the other parties consent."

3. EMPLOYER'S AGENT

3.1 Qualifications of the Employer's Agent

*Delete the contents of **Sub-Clause 1.2** and replace with the following:*

“The natural person appointed by the Employer to administer the Contract shall be a registered professional in a built environment profession that is appropriate to the Scope of Work.”

3.2.1 Functions of the Employer’s Agent

*Delete the contents of **Sub-Clause 3.2.1** and replace with the following:*

“The function of the Employer’s Agent is to administer the Contract in accordance with the provisions of the Contract.”

3.2.3 Specific approval of the Employer’s required

*Add the following to the end of **Clause 3.1.3**:*

“The Engineer shall obtain specific approval from the Employer before executing any of his functions or duties according to the following Clauses of the General Condition of Contract:

1. The issuing of instructions for dealing with fossils and the like in terms of Clause 4.7.
2. The issuing of an instruction to accelerate progress in terms of Clause 5.7.
3. Suspend the progress of the works in terms of Clause 5.11.2.
4. The approval of any extension of time for completion in terms of Clause 5.12.
5. The reduction of a penalty for delay in terms of Clause 5.13.2.
6. The issuing of a variation order in terms of Clause 6.3.2.
7. The agreeing of the adjustment of the sums for general items in terms of Clause 6.11.
8. The giving of a ruling on a contractor’s claim in terms of Clause 10.1.5.
9. The inclusion of credits in the next payment certificate in terms of Clause 10.1.5.2.

4. CONTRACTOR’S GENERAL OBLIGATIONS

4.2 Employer’s Agent instructions

*Add new **Sub-Clause 4.2.3**:*

- 4.2.3** Should the Contractor fail to proceed with due diligence with any Employer’s Agent’s instruction, the Employer’s Agent may notify the Contractor to proceed within 7 days from receipt of such notice. Without further notice, on default by the Contractor, the Employer may employ other parties or use its own resources to give effect to such instruction in addition to any other rights that the Employer may have inter alia in terms of Clause 9.2.1.3.6. The Employer may recover such costs from the Contractor resulting from same.

4.3 Legal Provisions

4.3.1 Compliance with applicable laws

*Add the following to the end of **Sub-Clause 4.3.1**:*

“For conventional construction works the Basic Conditions of Employment Act of 1997 (Act No 75 of 1997) shall apply and the minimum employment conditions which will apply shall be guided by the latest Sectorial Determination: Civil Engineering Sector published from time to time.

Basic Conditions of Employment Act of 1997 (Act No 75 of 1997) as per Government Notice R63 of 25 August 2002, shall apply to works described in the Scope of Work as being labour intensive and which are undertaken by unskilled or semi-skilled workers.

The Contractor shall comply with the Occupational Health and Safety Specification prepared by the Employer in terms of the Construction Regulations, 2014 promulgated in terms of Section 43 of the Occupational Health and Safety Act (Act No. 85 of 1993).

Without limiting the Contractor's obligations in terms of the Contract, the Contractor shall before commencement of the Works or any part thereof, be in the possession of an approved Health and Safety Plan.

The Contractor shall submit an approved Health and Safety Plan to the Engineer within 28 days of the Commencement Date."

*Add the following new **Sub-Clauses 4.3.3 and 4.3.4:***

4.3.3 Contractor's Liability as Mandatory

The Employer and the Contractor shall enter into an agreement required for the construction of the Works in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act (Act 85 of 1993) and the latest Construction Regulations promulgated thereunder.

Notwithstanding any actions which the Employer may take, the Contractor accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and all its regulations, including the Construction Regulations, 2014, for which he is liable as mandatory. By entering into this Contract it shall be deemed that the parties have agreed in writing to the above provisions in terms of Section 37 (2) of the Act.

a) The Employer and the Contractor hereby agree, in terms of the provisions of Section 37 (2) of the Occupational Health & Safety Act, 1993 (Act 85 of 1993, hereinafter referred to as 'the Act'), that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely:

- i) The Contractor undertakes that the appropriate officials and employees of the Contractor will fully acquaint themselves with all relevant provisions of the Act and the Regulations promulgated in terms of the Act;
- ii) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and Regulations will be fully complied with;
- iii) The Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations, and expressly absolves the Employer from itself being obliged to comply with any of the aforesaid duties, obligations and prohibitions, with the exception of such duties, obligations and prohibitions expressly assigned to the Employer in terms of the Act and its associated Regulations;
- iv) The Contractor agrees that any duly authorised official of the Employer shall be entitled (although not obliged) to take such steps as may be necessary to ensure that the Contractor has complied with his undertakings as set out more fully in paragraphs (a) and (b) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or, to inspect any appropriate records or Safety Plans held by the Contractor;
- v) The Employer retains an interest in all inquiries conducted under this Contract in terms of Section 31 and/or 32 of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) and its Regulations following any incident involving the Contractor and/or Sub-Contractor and/or their employees. The Contractor shall be obliged to report forthwith to the Employer any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the Act and Regulations, pursuant to work performed in terms of this Contract, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge;
- vi) The Contractor shall furthermore, in compliance with the Construction Regulations of 2014 (Notice No. 37305, dated 07 February 2014) to the Act:
 - i) Acquaint himself with the requirements of the Employer's Health & Safety Specification as laid down in Regulation 4(1)(a) of the Construction Regulation of 2014, and prepare a suitably and sufficiently documented Health and Safety Plan as contemplated in Regulation

5(1) of the Construction Regulation of 2014 for approval by the Employer or his assigned agent. The Contractor's Health and Safety Plan and Risk Assessment shall be submitted to the Employer for approval within 14 days from the date of the Letter of Acceptance and shall be implemented and maintained from the Commencement of Works;

- ii) The Employer, or his assigned agent, reserves the right to conduct periodic audits, as contemplated in the Construction Regulations of 2014, to monitor that the Contractor is compliant in respect of his obligations. Failure by the Contractor to comply with requirements of these Regulations shall entitle the Engineer, at the request of the Employer or his agent, to suspend all or any part of the Works, with no recourse whatsoever by the Contractor for any damages incurred as a result of such suspension, until such time as the Employer or his agent are satisfied that the issues in which the Contractor has been in default have been rectified.

4.3.4 Contractor's Designer

"The Contractor and his designer shall accept full responsibility and liability to comply with the Occupational Health and Safety Act, 1993 (Act 85 of 1993) and the latest Construction Regulations promulgated thereunder for the design of the Temporary Works and those part of the Permanent Works which the Contractor is responsible to design in terms of the Contract."

4.4 Subcontracting

4.4.5 Contractor's liability unaffected by selection of subcontractors

*Delete the contents of **Sub-Clause 4.4.5** and replace with the following:*

"Any consent granted in accordance with Clause 4.4 or appointment of a sub-contractor in accordance with Clause 4.4.3 shall not imply a contract between the Employer and the subcontractor, or a responsibility or liability on the part of the Employer to the subcontractor and shall not relieve the Contractor from any liability or obligation under the Contract and he shall be liable for the acts, defaults and neglects of any subcontractor, his agents or employees as fully as if they were the acts, defaults or neglects of the Contractor, his agents or employees.

The Engineer's consent in respect of any particular subcontractor may be withdrawn at any time should reasonable grounds be given therefore in writing to the Contractor by the Engineer, in which event the Contractor shall forthwith terminate the engagement of that subcontractor on the Works.

The withdrawal by the Engineer of his consent in respect of any particular sub-contractor that is engaged in the execution of any portion of the works, including any portions of the Works which are sub-let by the Contractor in accordance with Clause 4.4.3 shall not relieve the Contractor of any of his obligations under the Contract, nor of any of his obligations to sub-let the particular portions of the Works concerned."

4.5 Notices and Fees

4.5.4 Contractor to be compensated

*Delete the contents of **Sub-Clause 4.5.4** and replace with the following:*

"For this contract the fees, taxes, levies and other charges to be paid by the Contractor in terms of Sub-Clause 4.5.1.1 will not be refunded by the Employer. The cost thereof shall be deemed to be included in the prices tendered for relevant items in the Bill of Quantities."

4.12 Contractor's Superintendence

4.12.2 Construction Manager

*Add the following to the end of **Sub-Clause 4.12.2**:*

The Contractor's Construction Manager and senior foremen shall be on site at all times when work is being performed. No work may be performed without these persons being on site.

5. TIME AND RELATED MATTERS

5.3 Commencement of Works

5.3.1 Commencement of Works

*Add the following to the end of **Sub-Clause 5.3.1**:*

"The documentation to be submitted to and approved by the Employer's Agent before Site handover and before the instruction to commence with the Works is issued are:

- Currently-valid Letter of Goodstanding with Compensation Commissioner (or proof of insurance with licenced Compensation Insurer).
- An approved Health and Safety Plan (refer to Clause 4.3)
- An approved Initial program (refer to Clause 5.6)
- An approved original Surety, issued by a registered Financial Services Provider, delivered into the hands of the Employer (refer to Clause 6.2)
- Proof of the required insurances in place and premiums paid (refer to Clause 8.6)
- The names, qualifications and experience of Key Staff
- Confirmation of qualifying local EME / QME subcontractor/s and Employer's approval of same.
- All information required for the Employer to apply for a Construction Permit

The Site Handover and Instruction to Commence with the Works will only be granted once the Construction Permit has been obtained and the Contractor has been introduced to the local community leadership (this is arranged by the Employer in parallel with the above approval process)."

5.3.2 Unacceptable documentation

*Add the following to the end of **Sub-Clause 5.3.2**:*

"The time limit to submit the required documentation is 28 days from the Contract Commencement Date."

*Add the following to the end of **Sub-Clause 5.3.3**:*

"However, deemed commencement of the Works shall not be construed as approval of the documentation submitted."

5.4 Access to the Site

*Add the following new **Sub-Clause 5.4.4**:*

5.4.4

"The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the Site. The Contractor shall also provide at his/her own cost any additional facilities outside the Site required by him/her for the purposes of the Works."

5.5 Time for Practical Completion

*Add the following to the end of **Sub-Clause 5.5.1**:*

"The Works shall be completed within the Time for Completion as tendered in the Form of Offer, exclusive of the special non-working days and the year-end break and calculated from date of Site Handover."

5.6 Program

5.6.1 Program of Works

*Add the following to the end of **Clause 5.6.1**:*

“The Contractor shall deliver his/her initial program of work within 14 days of receipt of a set of drawings issued by the Engineer for construction.”

5.6.2 Contents of the program

*Add new **Sub-Clauses 5.6.2.8 and 5.6.2.9**:*

5.6.2.8 Health and safety requirements.

5.6.2.9 The links between all predecessors and successors for activities.

5.6.4 Review and adjustment of the program

*Delete the contents of **Sub-Clause 5.6.4** and replace with the following:*

“The program, method statements and the cash flow forecast shall be subject to updates and review on a monthly basis. The Contractor shall deliver to the Employer's Agent an adjusted program reflecting actual progress and updated dates in accordance with Clause 5.6.2, even though it may reflect that the planned date(s) of Practical Completion will be later than the corresponding Due Completion Date(s), every month, and in addition;

5.6.4.1 when instructed by the Employer's Agent,

5.6.4.2 when it no longer reflects the actual progress,

5.6.4.3 when a specific event, circumstance, act or omission may delay the execution of the Works, or

5.6.4.4 with each extension of time claim.”

5.7 Progress of the Works

5.7.3 Acceleration

*Delete the last sentence of the **Clause 5.7.3** and replace with the following:*

“If accepted by the Employer, the adjusted Due Completion Date and the conditions for payment of cost shall be agreed in writing and signed by the parties prior to the Contractor commencing to accelerate progress.”

5.8 Non-working times

5.8.1 Non-working times

*Delete the words “sunset and sunrise” from **Clause 5.8.1** and replace with “17:00 to 07:00”.*

*Add the following to the end of **Clause 5.8.1**:*

“Normal non-working days shall be Saturdays and Sundays.

The Contractor will be allowed to work on Saturdays if he so chooses, but Saturdays will not be taken into account when calculating working days or any extension of time granted.

The special non-working days are:

- All statutory holidays as declared by National or Regional Government.
- The year-end break that commences on the first working day after 16 December. Work resumes on the first working day after 5 January of the next year.”

5.9 Instructions

*Delete the contents of **Sub-Clause 5.9.3** and replace with the following:*

- 5.9.3** “The Contractor shall give adequate written notice to the Employer's Agent of any instructions or drawings, which the Contractor may require for the execution of the Works and the Employer's Agent shall deliver such instructions and/or drawings to the Contractor. The notice shall include details of the necessary drawing or instruction, details of by when it should be issued, and details of the nature and amount of the delay likely to be suffered if it is late.”

5.12 Extension of time for Practical Completion

*Add the following to the end of **Clause 5.12.2.2**:*

Extension of time resulting from abnormal weather shall be calculated as per the provisions of Part C3.5: Management.

*Add new **Sub-Clause 5.12.2.5 and 5.12.2.6**:*

- 5.12.2.5** “Any delay, impediment, or prevention caused by or attributable to the Employer, Employer's Agent, the Employer's personnel or the Employer's other contractor's on the Site.

5.12.2.6 Additional Statutory Holidays

Any additional statutory holidays proclaimed after the closing date of Tenders over and above the statutory holidays which existed at the time of tendering.”

5.12.3 Relevant adjustments to General Items

*Delete the contents of **Clause 5.12.3** and replace with the following:*

“If an extension of time is granted, other than an extension resulting from abnormal climatic conditions in terms of Clause 5.12.2.2 as amended, the Contractor shall be paid such additional time-related General Items as are appropriate, having regard to any other compensation which may already have been granted in respect of the circumstances concerned.

In the case of an additional public holiday declared by the State President, a claim for the cost of temporary or hourly-paid workers who would have been actively engaged in the construction work had the day not been declared a public holiday, will be considered by the Employer. Except for proven extra cost, claims for standing time of plant and equipment will not be considered as the cost thereof is deemed to be included in the Contractor's provisional and general items.”

5.12.4 Acceleration instead of extension of time

*Delete the contents of **Clause 5.12.4** and replace with the following:*

“Instead of granting extension of time, if feasible, the Employer's Agent may request the Contractor to accelerate the rate of progress to achieve Practical Completion without extension of time and agree the cost for payment of such acceleration in accordance with Clause 5.7.3.”

*Add new **Sub-Clause 5.12.5**:*

5.12.5 “Critical Path Provision

A delay in so far as extension of time is concerned, will be regarded as a delay only if, on a claim by the Contractor in accordance with the General Conditions of Contract, the Engineer rules that the critical path of the approved program for the execution of the Works by the Contractor has been delayed by the claimed circumstances and that the latter was outside the Contractor's control.

Delays on normal working days only, based on a working week of five normal working days, will be taken in account for the extension of time."

5.13 Penalty for Delay

*Delete the contents of **Sub-Clause 5.13** and replace with the following:*

5.13.1 If the Contractor fails by the Due Completion Date to complete the Works, or any specific portion thereof that is identified in the Scope of Works to the extent which entitles him in terms of Clause 5.14.2 to receive a Certificate of Practical Completion for the Works, then the Contractor shall be liable to the Employer for the sum(s) stated below as (a) penalty/ies for every day which shall elapse between the Due Completion Date for the Works or the specific portion of the Works and the actual Date of Practical Completion of the Works or of the specific portion. The penalty for delay shall be: **0.01% of the Contract Value (excluding VAT) per day.**"

5.13.2 If before the issue of a Certificate of Practical Completion for the whole of the Works, or for any specific portion thereof that is identified in the Scope of Works, any further part of the Works has been:

- 1 Certified as complete in terms of a Certificate of Practical Completion; or
- 2 Occupied or used by the Employer, his agents, employees or other contractors (not being employed by the Contractor);

then the appropriate penalty for delay referred to in Clause 5.13.1 above shall be reduced by the amount which is determined by the Engineer to be appropriate under the circumstances.

5.13.3 The imposition of penalties in terms of Clause 5.13.1 shall not relieve the Contractor from his obligation to complete the Works, nor from any of his obligations and liabilities under the Contract.

5.13.4 All penalties for which the Contractor becomes liable in terms of Clause 5.13.1 shall be accumulative. The Employer may, without prejudice to any other method of recovery, deduct the amounts of all such penalties from any monies in his possession that are or may become due to the Contractor.

5.13.5 The imposition of any penalties in terms of Clause 5.13.1 shall not limit the right of the Engineer or of the Employer to act in terms of Clause 5.14.5: Consequences of Completion."

5.14 Completion

*Delete the contents of **Sub-Clause 5.14.1** and replace with the following:*

5.14.1 "Save as otherwise provided in the Contract, the Contractor shall be entitled to receive a Certificate of Practical Completion when the Works have reached Practical Completion. The **requirement for achieving Practical Completion** is that all components of the Works can each be used for its intended purpose within the limits of the Scope of Work (eg water retaining structures shall have passed the specified water tightness tests and the backfill completed to the levels required by the Employer's Agent and, if applicable, the structures are ready for hand-over to the mechanical and electrical contractor).

When the Works are about to reach the said stage, the Contractor shall, in writing, request a Certificate of Practical Completion and the Employer's Agent shall, within 14 days after receiving such request, either where the Works:

- Has reached Practical Completion issue a Certificate of Practical Completion to the Contractor and to the Employer; or
- Has not reached Practical Completion, issue a written list to the Contractor defining the incomplete work and defects to be rectified to achieve Practical Completion. Should the Employer's Agent not issue a Certificate of Practical Completion or such a list within the 14 days, Practical Completion shall be considered to have been achieved on the expiry of the 14 days of the written request in terms of Clause 5.14.1.

*Delete the contents of **Sub-Clause 5.14.2** and replace with the following:*

5.14.2 “As soon as the work referred to in the list issued in terms of Clause 5.14.1 has been duly completed and defects that manifested after the list was issued rectified, the Employer's Agent shall deliver to the Contractor and to the Employer a Certificate of Practical Completion together with a further written list setting out the work to be completed to justify the issuing of a Certificate of Completion.”

5.16 Approval

5.16.3 Latent defect liability

*Add the following to the end of **Sub-Clause 5.16.3**:*

“The latent defect liability is 10 years.”

6. PAYMENT AND RELATED MATTERS

6.2 Security

6.2.1 Delivery of Security

*Add the following to the end of **Sub-Clause 6.2.1**:*

“The security to be provided by the Contractor shall be:
A Performance Guarantee of ten per cent (10%) of the Contract Sum (worded exactly as per the pro forma included in C1.5).

The Performance Guarantee shall be provided by an approved South African Insurance Company or a Bank which is a Registered Financial Service Provider. A Performance Guarantee issued by an intermediary company registered only with the National Credit Regulator will not be accepted. Failure to submit a valid an approved Performance Guarantee within the period specified in clause 5.3.2 will result in immediate termination and award of contract to the Bidder with the next highest evaluation points. ”

6.2.3 Validity of the performance guarantee

*Delete the contents of **Sub-Clause 6.2.3** and replace with the following:*

“The Contractor shall ensure that the performance guarantee remains valid and enforceable until the issue of the Certificate of Completion and shall submit proof of renewal to the Employer's Agent.”

6.5 Dayworks

6.5.1 Basis of payment for Dayworks

*Add the following to the end of **Sub-Clause 6.5.1.2.1**:*

“Gross remuneration" referred to in **Sub-Clause 6.5.1.2.1** shall be the nominal hourly or monthly remuneration actually paid to workmen and foremen before any additions for the Contractor's contribution to pension, medical aid, housing, tools, unemployment insurance, site allowance etc., and also before any deductions for tax, pension, medical aid, unemployment insurance, etc.”

*Add the following to the end of **Sub-Clause 6.5.1.2.2**:*

"Net cost of materials" referred to in Sub-Clause 6.5.1.2.2 shall be the net invoiced cost of materials after the deductions of all discounts, direct or indirect.”

*Add the following to the end of **Sub-Clause 6.5.1.2.3**:*

The percentage allowances to cover overhead charges for Daywork are as follows:

- 80% of the gross remuneration of workmen and foremen actually engaged in the daywork;
- 20% on the net cost of materials actually used in the completed work.

6.8 Adjustment in rates and/or prices

6.8.2 Application of Contract Price Adjustment Factor

*Add the following to the end of **Sub-Clause 6.8.2**:*

“The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule (GCC 2015) with the following coefficients / indices / references:

- 1) x = 0.15
 - a (labour) = 0.20
 - b (plant) = 0.20
 - c (materials) = 0.55
 - d (fuel) = 0.05
- 2) The relevant geographical area is “Eastern Cape”.
- 3) The base month will be the month prior to the month in which tenders close.

The Contract Price Adjustment Schedule in GCC 2015 (page 86) is to be amended. Delete and replace the corresponding paragraph(s) with the following:

- “L” is the “Labour Index” and shall be Index Set P0141, Index code CPI62001 (Eastern Cape) as published in the Statistical News Release, Statistics South Africa.
- “P” is the “Plant Index” and shall be Index Set P0151.1, Index code JB000107 for “Civil Engineering Plant and equipment” as published in the Statistical News Release, Statistics South Africa.
- “M” is the “Materials Index” and shall be Index Set P0151.1, Index code JB000117 for “Civil Engineering Materials – excluding bitumen”, as published in the Statistical News Release, Statistics South Africa.
- “F” is the “Fuel Index” and shall be Index Set P0142.1, Index code PPC34120 as published in the Statistical News, Statistics South Africa.

Special Materials

For those special materials allowed in Clause 6.8.3 below, the Contractor shall provide proof of costs at time of tender (and associated foreign exchange rates if applicable) and costs and exchange rates at time of purchase and provide calculations of Rand amount by which costs of said special materials exceed the general CPA calculation. The Engineer shall allow any such additional proven costs for payment over and above the general CPA.

6.8.3 Variation in Cost of Special Materials

*Add the following to the end of **Sub-Clause 6.8.3**:*

“No Special Materials are allowed.”

6.8.4 Subsequent changes in legislation

*In line 7 of **Sub-Clause 6.8.4** delete the words “between the Employer and the Contractor”.*

6.9 Vesting of Plant and materials

6.9.3 Identification of Plant and materials

*Add the following to the end of **Sub-Clause 6.9.3**:*

“Materials or equipment allowed by the Engineer to be temporarily stored off-site, on the premises of a manufacturer or supplier, must be stored in separate containers or compartments and must be properly and conspicuously marked and identified to the effect that the Employer is the sole owner of the materials or equipment.”

6.10 Payments

6.10.1 Interim Payments

*Add the following to the end of **Sub-Clause 6.10.1.5**:*

"The percentage advance on materials on site not yet built into the Permanent Works, referred to in Cause 6.9.1 is 80%. No payment will be made for any Plant and/or materials off site, except if expressly agreed otherwise."

6.10.3 Retention Money

In terms of the latest National Treasury directive regarding the holding of retention on state-funded Contracts, no Retention Monies Guarantee in lieu of retention monies deducted from interim Payment Certificates will be allowed.

The retention monies limit is 5% of the Contract Price (including VAT).

The percentage of retention that will deducted from each Payment Certificate is 10% until the limit of 5% of the Contract Price is reached.

6.10.4 Delivery, dissatisfaction with and payment of payment certificate

Replace the words "28 days" with "30 days".

6.10.8 Contractor's completion statement

Replace the words "28 days" with "30 days".

6.10.9 Final Payment Certificate

*In the ninth line of **Sub-Clause 6.10.9**, add the words "or the Employer, as the case may be," after the words "the Contractor"*

6.11 Variations exceeding 15% (fifteen percent)

Delete "15" and replace with "25%".

7. QUALITY AND RELATED MATTERS

7.2.1 Quality of Plant, workmanship and materials

*Add the following to the end of **Sub-Clause 7.2.1**:*

"Unless otherwise directed in writing by the Engineer, materials for the Permanent Works shall be new and unused."

7.4 Samples and testing

*Replace the comma after the word "them" in the last line of **Sub-Clause 7.4.4.1** with a full stop, and replace the word "and" with the following:*

"The cost of all tests and testing required as part of the Contractor's own quality control program, whether particularised or not, shall be deemed to have been allowed for in his tender; and"

8. RISK AND RELATED MATTERS

8.6 Insurances

8.6.1 Insurances to be effected

*Add the following to the end of **Sub-Clause 8.6.1**:*

"Insurances shall be maintained in force for the duration of the Contract, and in respect of Sub-Contractors, the Contractor shall be deemed to have complied with the provisions of the requirements relating to insurance by ensuring that the Sub-Contractors have effected such insurances."

*Add the following to the end of **Sub-Clause 8.6.1.1.3**:*

"The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is R0.00 (Nil)."

*Add the following to the end of **Sub-Clause 8.6.1.2**:*

"SASRIA (Riot) Certificate to be issued in joint names of Employer and Contractor for the full value of the works (including VAT)."

*Add the following to the end of **Sub-Clause 8.6.1.3***

"The limit of indemnity for liability insurance is R10 000 000.00 for any single claim – the number of claims to be unlimited during the construction."

*Add the following to the end of **Sub-Clause 8.6.1.5**:*

"Furthermore, the insurance cover effected by the Contractor shall meet the following requirements:

- a) Insurance of Construction Plant and Equipment (including tools, offices and other temporary structures and contents) and all other items (except those intended for incorporation into the Works) brought onto the site for a sum sufficient to provide for their replacement.
- b) Insurance in terms of the provisions of the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993.
- c) Motor Vehicle Liability Insurance comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability Indemnity. Motor vehicles provided for the Engineer's Site Staff shall carry fully comprehensive insurance.
- d) Where the contract involves manufacturing and/or fabrication of the works or part thereof at premises other than the Site, the Contractor shall satisfy the Employer that all materials and equipment for incorporation in the works are adequately insured during manufacture and/or fabrication. In the event of the Employer having an insurable interest in such works during manufacture or fabrication then such interest shall be noted by endorsement to the Contractor's Policies of Insurance.
- e) The insurance policy held by the Contractor shall cover "wet risks" where a portion of the works is subject to possible, occasional or regular inundation."
- f) Where one or more hired vehicles or Contractor's own vehicles are required for the Engineer's site monitoring staff, such vehicles are to be fully comprehensively insured.

8.6.5 Employer to approve insurance policy

*In the second line of **Sub-Clause 8.6.5**, after the word "effected" add the words "in the joint names of the Employer and the Contractor"*

*Add the following to the end of **Sub-Clause 8.6.5**:*

"The insurance policy shall contain a specific provision whereby cancellation of the policy prior to the end of the period referred to in Cause 8.2.1 cannot take place without the prior written approval of the Employer."

9. TERMINATION OF CONTRACT

9.2.1 Termination by the Employer

*Add the following to the end of **Sub-Clause 9.2.1.3.2**:*

“or to maintain and extend the validity of the performance guarantee until the Certificate of Completion; or”

*Delete the contents of **Sub-Clause 9.2.1.3.6** and replace with the following:*

“Is not executing the Works in accordance with the Contract, or is neglecting or failing to carry out his obligations under the Contract, inter alia to comply with any instruction under Clause 4.2; or”

*Add new **Sub-Clauses 9.2.1.3.9 and 9.2.1.3.10**:*

9.2.1.3.9 “The Contractor committed a corrupt or fraudulent act during the procurement process or the execution of the contract.

9.2.1.3.10 An official or other role player committed any corrupt or fraudulent act during the procurement process or in the execution of the contract that benefited the Contractor.”

10. CLAIMS AND DISPUTES

10.1 Contractor's Claims

*In the third line of **Sub-Clause 10.1.1**, delete the word "Permanent"*

*Delete the contents of **Sub-Clause 10.1.1.1** and replace with the following:*

10.1.1.1 “The Contractor shall within 28 days after the commencement of each circumstance, event, act or omission giving rise to such a claim, deliver to the Employer's Agent a written claim, referring to this Clause and setting out:”

*Delete the contents of **Sub-Clause 10.1.1.1.3** and replace with the following:*

10.1.1.1.3 “The length of the extension of time, if any, claimed and the basis of the calculation by incorporating the effects of each circumstance, event, act or omission on the critical path of an approved program, indicating the delay to Practical Completion, and”

Delete the contents of Sub-Clause 10.1.1.2 and replace with the following:

10.1.1.2 “If, by reason of the nature and circumstances of the claim, the Contractor cannot reasonably comply with all or any of the provisions of Clause 10.1.1.1.11 to 10.1.1.1.4 to deliver a claim within the said period of 28 days, he shall:

10.1.1.2.1 Within the said period of 28 days issue a further notice referring to the relevant notice in terms of Clause 10.1.2 and confirming his intention to make the claim and comply with such of the requirements of Clause 10.1.1.1.1 to 10.1.1.1.4 as he reasonably can, and

10.1.1.2.2 As soon as practicable, comply with such of the requirements of Clause 10.1.1.1.1 to 10.1.1.1.4 as have not yet been complied with.”

*Delete the contents of **Sub-Clause 10.1.1.3** and replace with the following:*

10.1.1.3 “If the circumstance, event, act or omission relating to the claim are of an ongoing nature:

10.1.1.3.1 The Contractor shall, within 14 days after the commencement of each circumstance, event, act or omission giving rise to such a claim, deliver to the Employer's Agent a written notice of his intention to submit a claim, referring to this Clause and setting out the particulars of the

circumstance, event, act or omission. Provided that the additional payment or compensation or delay that occurred before 14 days prior the date on which the notice in terms of this clause was delivered, shall be deemed to be covered by the rates and/or prices set out in the Pricing Data and the time stated in the Contract Data relating to Clause 5.5.1.

- 10.1.1.3.2** The Contractor shall, in addition to delivering the said further notice within 28 days in terms of Clause 10.1.1.2.1, each month deliver to the Employer's Agent, in writing, updated particulars required in terms of Clause 10.1.1.1.1 to 10.1.1.1.4 and, within 28 days after the end of the circumstance, event, act or omission deliver his final claim."

*Add the following new **Sub-Clause 10.1.1.4**:*

- 10.1.1.4** Discussions of claims during site meetings and minutes of such discussions shall not be regarded as a claim or notice by the Contractor of his intention to make a claim unless it is supported by a written submission in terms of Clause 10.1.1.1"

*Add the following to the end of **Sub-Clause 10.1.3.6**:*

"in terms of this Clause."

*Delete the contents of **Sub-Clause 10.1.4** and replace with the following:*

- 10.1.4** **"Contractor's failure to comply with notice period**

If, in respect of any claim to which this Clause refers, the Contractor fails to deliver his claim within the 28 day claim period in terms of Clause 10.1.1.1 or does not deliver a further notice within the period of 28 days in terms of Clause 10.1.1.2.1 or does not deliver his final claim within 28 days after the circumstance, event, act or omission ceased in terms of Clause 10.1.1.3.2, the Due Completion Date shall not be extended, the Contractor shall not be entitled to additional payment, and the Employer shall be discharged all liability in connection with the claim.

Provided that failure by the Contractor to give an early warning notice in terms of Clause 10.1.2 which an experienced Contractor could have given, the claim shall be assessed by the Employer's Agent and the ruling in terms of Clause 10.1.5 shall be taken into account the lack of mitigation measures employed due the lack of such early warning notice."

- 10.1.5** **Employer's Agent ruling on Contractor's Claim**

*Add the following to the end of **Sub-Clause 10.1.5**:*

"Where the Employer's Agent fails to make a ruling within such 28 days the claim shall be deemed to be refused"

*Add the following to the end of **Sub-Clause 10.1.5.1** after "Employer's Agent:*

"prior to the expiry of such 28 days"

- 10.3.2** **Dispute to be referred**

*Add the following to the end of **Sub-Clause 10.3.2**:*

"Amicable settlement in terms of Sub-Clause 10.4 shall be utilised for all disputes prior to referring any dispute to adjudication."

- 10.4** **Amicable settlement**

- 10.4.2** **Amicable settlement failure**

*Add the following to the end of **Sub-Clause 10.3.2**:*

Where an amicable settlement fails subsequently to adjudication, the dispute shall be resolved by arbitration.

10.5 Adjudication

10.5.1 Ad-hoc adjudication

*Add the following to the end of **Sub-Clause 10.5.1**:*
“Dispute resolution must be by ad-hoc adjudication.”

10.5.3 Rules for adjudication

*Add the following to the end of **Sub-Clause 10.5.3**:*
“The number of Adjudication Board Members to be appointed is one (1).”

10.10 Common Provisions

*Delete the contents of **Sub-Clause 10.10.1** and replace with the following:*

- 10.10.1** Nothing herein contained shall deprive the Contractor or the Employer of either party's right to institute immediate court proceedings in respect of failure by the Employer or the Contractor, as the case may be, to pay the amount of a payment certificate on its due date, or to pay any amount of retention money on its due date for payment.

*Delete the contents of **Sub-Clause 10.10.3** and replace with the following:*

- 10.10.3** The Adjudication Board, arbitrator and the court shall have full power to open up, review and revise any ruling, decision, order, instruction, certificate or valuation of the Employer's Agent. The Arbitrator and the court shall have full power to and to reconsider any decision by the Adjudication Board relevant to the matter in dispute, and neither party shall be limited in such proceedings before such arbitrator or court to the evidence or arguments put before the Employer's Agent for the purpose of obtaining his ruling, or the Adjudication Board for the purpose of obtaining a decision.

ADDITIONAL CONDITIONS OF CONTRACT

The additional Conditions of Contract are:

Clause 11: Contractor to Provide Everything Necessary

The Contractor is to provide all labour, material, workmanship, machinery and everything which is or may be necessary in and for the execution and entire completion of the Contract in accordance with the Conditions of Contract, Drawings and Scope of Work.

Clause 12: Details to be Confidential

The Contractor shall treat the details of the Works comprised in this Contract as private and confidential (save in so far as may be necessary for the purposes hereof) and shall not publish or disclose the same or any particulars thereof in any trade or technical paper elsewhere without prior written consent of the Engineer.

Clause 13: Subcontracting to qualifying EMEs and / or QSEs

It is a condition of Contract that the successful Tenderer must subcontract a specified 'Ring Fenced' portion of the Works to local SMME'S. This portion of the Works is covered by a Prime Cost item in the BoQ.

Part 2: Data Provided by the Contractor

Clause 1.2.1: Delivery of Notices

The name of the Contractor is

The address of the Contractor is

Physical Address

Postal Address

.....

.....

.....

.....

.....

.....

.....

.....

Telephone:

Fax:

Email:

SIGNED ON BEHALF OF/BY THE TENDERER:

NAME

SIGNATURE

CAPACITY

DATE

C1.3. Performance Guarantee

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor: means:

Physical address:

"Employer" means: **O. R. TAMBO DISTRICT MUNICIPALITY**

"Contractor" means:"

"Engineer" means: **GIBB**

"Works" means: **COMPLETION OF THORNHILL WTW Ph3 UPGRADE (80MI/d to 115MI/d): CIVIL WORKS**

"Site" means: The Site as defined by clause 1.1.1.29 of the General Conditions of Contract, 2015.

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

"Contract Sum" means: The accepted amount inclusive of tax of R

Amount in words:

"Guaranteed Sum" means: The maximum aggregate amount of R

Amount in words:

"Expiry Date" means:

CONTRACT DETAILS

Engineer issues: Interim Payment certificates, Final Payment Certificate and the Certificate of Completion of the Works as defined in the Contract.

PERFORMANCE GUARANTEE

1. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
2. The Guarantor's period of liability shall be from and including the date of issue of this Performance Guarantee and up to and including the Expiry Date or the date of issue by the Engineer of the certificate of Completion of the Works or the date of payment in full of the Guaranteed Sum, whichever occurs first. The Engineer and/or the Employer shall advise the Guarantor in writing of the date on which the certificate of Completion of the Works has been issued.
3. The Guarantor hereby acknowledges that:
 - 3.1. any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;
 - 3.2. its obligation under this Performance Guarantee is restricted to the payment of money.
4. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3

- 4.1. A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Engineer in an Interim or Final Payment certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2;
- 4.2. A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 4.1 and the sum certified has still not been paid;
- 4.3. A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 4.
5. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding Balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:
 - 5.1. the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 5; or
 - 5.2. a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 5; and
 - 5.3. the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
6. It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1.
7. Where the Guarantor has made payment in terms of 5, the Employer shall upon the date of issue of the Final Payment certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
8. Payment by the Guarantor in terms of 4 or 5 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
9. Payment by the Guarantor in terms of 5 will only be made against the return of the original Performance Guarantee by the Employer.
10. The Employer shall have the absolute right to arrange his/her affairs with the Contractor in any manner which the Employer may deem fit and the Guarantor shall not have the right to claim his/her release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
11. The Guarantor chooses the physical address as stated above for the service of all Notices for all purposes in connection herewith.
12. This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
13. This Performance Guarantee, with the required demand Notices in terms of 4 or 5, shall be regarded as a liquid document for the purposes of obtaining a court order.
14. Where this Performance Guarantee is issued in the Republic of South Africa, the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Continued on next page.

SIGNED

AT:

GUARANTOR (1)

SIGNATURE

DATE

CAPACITY

GUARANTOR (2)

SIGNATURE

DATE

CAPACITY

WITNESS (1)

SIGNATURE

WITNESS (2)

SIGNATURE

C1.4. Adjudication

Adjudication shall be carried out in terms of Clauses 10.5 and 10.6 of the General Conditions of Contract 2015.

The Disclosure Statement and the Adjudication Board Member Agreement to be used in this Contract are contained Appendices 4 and 5 of the General Conditions of Contract 2015.

C1.5. Occupational Health and Safety Agreement

AGREEMENT MADE AND ENTERED INTO BETWEEN O. R. TAMBO DISTRICT MUNICIPALITY (HEREINAFTER CALLED THE "EMPLOYER") AND

.....
(Contractor/Mandatory/Company/CC Name)

IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, ACT No. 85 OF 1993 AS AMENDED 2014

I,,
representing

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

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

COID ACT Registration Number:

OR Compensation Insurer: Policy No.:

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

I further undertake to ensure that any subcontractors employed by me will enter into an Occupational Health and Safety Agreement separately, and that such subcontractors comply with the conditions set.

I hereby declare that I have read and understand the appended Occupational Health and Safety Conditions and undertake to comply therewith at all times.

I hereby also undertake to comply with the Occupational Health and Safety Specification and Plan.

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

SIGNED BY/ON BEHALF OF CONTRACTOR - MANDATORY

NAME

SIGNATURE

DATE

SIGNED BY WITNESS:

NAME

SIGNATURE

DATE

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

SIGNED BY/ON BEHALF OF O. R. TAMBO DISTRICT MUNICIPALITY

NAME

SIGNATURE

DATE

SIGNED BY WITNESS:

NAME

SIGNATURE

DATE

Occupational Health and Safety Conditions

1. The Chief Executive Officer of the Contractor shall assume the responsibility in terms of Section 16(1) of the Occupational Health and Safety Act (as amended). Should the Contractor assign any duty in terms of Section 16(2), a copy of such assignment shall immediately be provided to the representative of the Employer as defined in the Contract.
2. All work performed on the Employer's premises shall be performed under the supervision of the construction supervisor who understand the hazards associated with any work that the Contractor performs on the site in terms of Construction Regulations 2014.
3. The Contractor shall appoint a Competent Person who shall be trained on any occupational health and safety aspect pertaining to them or to the work that is to be performed.
4. The Contractor shall ensure that he familiarises himself with the requirements of the Occupational Health and Safety Act and that he/she, his/her employees, and any sub-contractors, comply with them.
5. Discipline in the interests of occupational health and safety shall be strictly enforced.
6. Personal protective equipment shall be issued by the Contractor as required and shall be worn at all times where necessary.
7. Written safe work Procedures and appropriate precautionary measures shall be available and enforced, and all employees shall be made conversant with the contents of these practices.
8. No substandard equipment/machinery/articles or substances shall be used on the site.
9. All incidents referred to in terms of Section 24 of the Occupational Health and Safety Act shall be reported by the Contractor to the Department of Labour and the Employer.
10. The Employer hereby obtains an interest in the issue of any formal inquiry conducted in terms of Section 32 of the Occupational Health and Safety Act and into any incident involving a Contractor and/or his/her employees and/or his/her sub-contractor/s.
11. No use shall be made of any of the Employer's machinery/plant/equipment/substance/personal protective equipment or any other article without prior arrangement and written approval.
12. No alcohol or any other intoxicating substance shall be allowed on the site. Any person suspected of being under the influence of alcohol or any other intoxicating substance shall not be permitted access to, or allowed to remain on the site.
13. Prior to commencement of any work, verified copies of all documents mentioned in the agreement, must be presented to the Employer.

C2: Pricing Data and Bill of Quantities

Number	Heading	Pages
C2.1	Pricing Instructions	87
C2.2	Bill Of Quantities	88

C2.1. Pricing Instructions

- Measurement and payment shall be in accordance with the relevant provisions of Clause 8 of each of the SANS 1200 Specifications for Civil Engineering Construction referred to in the Scope of Work. The Preliminary and General items shall be measures in accordance with the provisions of SANS 1200-A, General.

- The units of measurement described in the Bill of Quantities are metric units. Abbreviations used in the Bill of Quantities are as follows:

%	=	percent	m ² .pass	=	square metre-pass
h	=	hour	m ³	=	cubic metre
ha	=	hectare	m ³ .km	=	cubic metre-kilometre
kg	=	kilogram	MN	=	meganewton
kl	=	kilolitre	MN.m	=	meganewton-metre
km	=	kilometre	MPa	=	megapascal
km-pass	=	kilometre-pass	No.	=	number
kPa	=	kilopascal	Prov sum	=	Provisional sum
kW	=	kilowatt	PC sum	=	Prime Cost sum
l	=	litre	sum	=	lump sum
m	=	metre	t	=	ton (1 000 kg)
mm	=	millimetre	W/day	=	Work day
m ²	=	square metre			

- Unless otherwise stated, items are measured net in accordance with the drawings with no allowance for waste.
- The prices and rates to be inserted in the Bill of Quantities are to be the full inclusive prices for the work described under the items. Such prices and rates shall cover all costs and expenses that may be required in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices shall be used as a basis for assessment of payment for additional work that may have to be carried out.
- It will be assumed that prices included in the Bill of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.sabs.co.za or www.iso.org for information on standards).
- Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered for such items.
- An item against which no price is entered will be considered to be covered by the other prices or rates in the Bill of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
- The quantities set out in the Bill of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bills of Quantities.
- Reasonable compensation will be received where no pay item appears in respect of work required in the Bills of Quantities in terms of the Contract and which is not covered in any other pay item.
- The short descriptions of the items of payment given in the Bill of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
- Descriptions in the Bill of Quantities are abbreviated and comply generally with those in the SANS 1200 Standardised Specifications.
- If there is a discrepancy in description of items between the Bill of Quantities and the Drawings, the Bill of Quantities Description shall be used.

C2.2. Bill of Quantities

SECTION	DESCRIPTION	PAGE
1	PRELIMINARY AND GENERAL	89
2	PROVISIONAL SUMS & DAYWORKS	92
3	CLARIFLOCCULATORS	95
4	RAPID GRAVITY FILTER BUILDING	103
5	CHLORINATION BUILDING	117
6	MINOR CONCRETE STRUCTURES	122
7	INTERCONNECTING PIPEWORK	127
8	SITE WORKS	133
	SUMMARY OF BILL OF QUANTITIES	138
	DECLARATION	139

CONTRACT: ORTDM SCMU 15_26-27
CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
BILL:
SECTION: 1 PRELIMINARY AND GENERAL

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
1.1	SANS 1200A	GENERAL				
1.1.1		<u>FIXED - CHARGE ITEMS</u>				
1.1.1.1	8.3.1	Contractual Requirements	Sum	1		
	8.3.2	Establishment of Facilities on Site:				
	SANS 1200AB	<u>Facilities for Engineer</u>				
1.1.1.2	PSAB 8.2.2	a) Furnished office (3 No)	Sum	1		
1.1.1.3	PSAB 8.2.2	b) Meeting room	Sum	1		
1.1.1.4	PSAB 8.2.4	c) Nameboard (1No.)	Sum	1		
1.1.1.5	PSAB 8.2.7	d) Covered Parking Bays (4 No.)	Sum	1		
1.1.1.6	PSAB 8.2.8	e) All other specified facilities (incl WiFi internet connection and photocopier)	Sum	1		
	SANS 1200A	<u>Facilities for Contractor</u>				
1.1.1.7		a) Office and storage sheds	Sum	1		
1.1.1.8		b) Workshops	Sum	1		
1.1.1.9		c) Laboratories	Sum	1		
1.1.1.10		d) Living accommodation	Sum	1		
1.1.1.11		e) Ablution and latrine facilities	Sum	1		
1.1.1.12		f) Tools and equipment	Sum	1		
1.1.1.13		g) Water supplied, electric power and communications.	Sum	1		
1.1.1.14		h) Dealing with water (Sub-clause 5.5)	Sum	1		
1.1.1.15		i) Access (Sub-clause 5.8)	Sum	1		
1.1.1.16		j) Plant	Sum	1		
1.1.1.17	8.3.3	General Responsibilities and other fixed charge obligations (including making allowance for payments taking up to 60 days from date of invoice and the consequences thereof)	Sum	1		
1.1.1.18	8.3.4	Removal of Engineer's and Contractor's site establishment on completion of works	Sum	1		
	PSA 8.10	<u>Fixed charges associated with complying with Occupational Health and Safety Requirements:</u>				
CARRIED FORWARD						

CONTRACT: ORTDM SCMU 15_26-27
CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
BILL:
SECTION: 1 PRELIMINARY AND GENERAL

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
1.1.1.19		a) Preparation of risk assessments, safe work procedures, the project OH&S File, the H&S Plan, medicals for all workers, the provision of PPE and protective clothing, and all other fixed charge OH&S matters that fulfill OHS Act 85 of 1993 and construction regulation 2014 requirements	Sum	1		
1.1.1.20		b) Completing and checking the Project H&S File and handing over to the Client on completion of the works and exit medicals for all workers	Sum	1		
1.1.1.21		c) Provision of HIV/Aids Awareness plan and all necessary fixed charge items to achieve compliance with SANS 1921 Part 6 HIV/Aids Awareness	Sum	1		
1.1.1.22	PSA 8.11	Fixed charges associated with complying with the Environmental Management Plan	Sum	1		
1.1.2	8.4	<u>TIME-RELATED ITEMS</u>				
1.1.2.1	PSA 8.4	Contractual Requirements	Sum	1		
	8.4.2	<u>Operate and maintain Facilities on Site for the duration of the construction:</u> <u>Facilities for Engineer</u>				
1.1.2.2	PSAB 8.2.2	a) Furnished office (3 No)	Sum	1		
1.1.2.3	PSAB 8.2.2	b) Meeting room	Sum	1		
1.1.2.4	PSAB 8.2.4	c) Nameboard (1 No.)	Sum	1		
1.1.2.5	PSAB 8.2.5	d) Survey assistants	Sum	1		
1.1.2.6	PSAB 8.2.6	e) Survey equipment	Sum	1		
1.1.2.7	PSAB 8.2.7	f) Covered parking bays (4 No.)	Sum	1		
1.1.2.8	PSAB 8.2.3	g) Air time and data for cell phones for 3 site staff (3 x R500pm pre-paid slips)	Month	14		
1.1.2.9	PSAB 8.2.8	h) All other specified facilities (incl WiFi internet connection and photocopier)	Sum	1		
	SANS 1200A 8.4.2.2	<u>Facilities for Contractor</u>				
1.1.2.10		a) Office and storage sheds	Sum	1		
1.1.2.11		b) Workshops	Sum	1		
CARRIED FORWARD						

CONTRACT: ORTDM SCMU 15_26-27
CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
BILL:
SECTION: 1 PRELIMINARY AND GENERAL

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
1.1.2.12		c) Laboratories	Sum	1		
1.1.2.13		d) Living accommodation	Sum	1		
1.1.2.14		e) Ablution and latrine facilities	Sum	1		
1.1.2.15		f) Tools and equipment	Sum	1		
1.1.2.16		g) Water supplied, electric power and communications.	Sum	1		
1.1.2.17		h) Dealing with water (Sub-clause 5.5)	Sum	1		
1.1.2.18		i) Access (Sub-clause 5.8)	Sum	1		
1.1.2.19		j) Plant	Sum	1		
1.1.2.20	8.4.3	Supervision for duration of construction	Sum	1		
1.1.2.21	8.4.4	Company and head office overhead costs for the duration of the contract	Sum	1		
1.1.2.22	8.4.5	General Responsibilities and other time-related obligations (including making allowance for payments taking up to 60 days from date of invoice and the consequences thereof)	Sum	1		
	PSA 8.10	<u>Time-related charges associated with complying with Health and Safety Requirements:</u>				
1.1.2.23		a) Updating and amending the risk assessments, safe work procedures, the project OH&S File, the OH&S Plan, medicals for all workers, the provision of PPE and protective clothing and all other OH&S obligations that fulfill OHS Act 85 of 1993 and the latest Construction Regulations	Sum	1		
1.1.2.24		b) Compliance with SANS 1921 Part 6 HIV/Aids Awareness plan during the contract	Sum	1		
1.1.2.25	PSA 8.11	Time-related charges associated with complying with the Environmental Management Plan	Sum	1		
1.1.2.26		Liaison and co-operation with other contractors as specified in C3.1: Project Specifications	Sum	1		
TOTAL FOR SECTION 1 CARRIED FORWARD TO SUMMARY						

CONTRACT: ORTDM SCMU 15_26-27
CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
BILL:
SECTION: 2 PROVISIONAL SUMS & DAYWORKS

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
2.1	SANS 1200A	GENERAL				
2.1.1	PSA 8.5	SUMS STATED PROVISIONALLY BY THE ENGINEER				
		<u>RING-FENCED WORK FOR LOCAL SMMEs</u>				
2.1.1.1		Allowance for cost of Ringfenced Work to be done by local SMMEs (Quotes to be obtained and lowest quote paid from this Prime Cost item). Includes their P&Gs	PC Sum	1	3 000 000.00	3 000 000.00
2.1.1.2		Overheads, Charges and Profit on item 2.1.1.1 above	%	3 000 000.00		
		<u>VEHICLE FOR ENGINEER</u>				
2.1.1.3		Rental bakkies for Engineer's Site Staff	PC Sum	1	1 120 000.00	1 120 000.00
2.1.1.4		Overheads, Charges and Profit on item 2.1.1.3 above	%	1 120 000.00		
		<u>TOPOGRAPHICAL SURVEY</u>				
2.1.1.5		Ad-hoc survey as requested by the Engineer.	Prov Sum	1	75 000.00	75 000.00
2.1.1.6		Overheads, Charges and profit on item 2.1.1.5	%	75 000.00		
		<u>COMMUNITY LIASON OFFICER</u>				
2.1.1.7		Employment of CLO for the duration of the contract (R5000 pm plus R300 pm cellphone allowance)	Sum	1.00	74 200.00	74 200.00
2.1.1.8		Overheads, Charges and Profit on item [2.1.1.7] above	%	74 200.00		
2.1.1.9		Employment of PSC for duration of Contract (8 No. at R500 pm each)	Prov. Sum	1	56 000.00	56 000.00
2.1.1.10		Overheads, Charges and Profit on item 2.1.1.9 above	%	56 000.00		
	PSA 8.5	<u>TRAINING</u>				
2.1.1.11		Allowance for training of local unskilled labour	Prov Sum	1	100 000.00	100 000.00
2.1.1.12		Overheads, Charges and profit on item 2.1.1.11 above	%	100 000.00		
	PSA 8.5	<u>INDEPENDANT INSPECTORATE</u>				
2.1.1.13		Payments to Independant Inspectorate for pipe fittings and concrete durability as directed by the Engineer	Prov Sum	1	300 000.00	300 000.00
2.1.1.14		Overheads, Charges and Profit on item 2.1.1.13 above	%	300 000.00		
CARRIED FORWARD						

CONTRACT: ORTDM SCMU 15_26-27
 CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
 BILL:
 SECTION: 2 PROVISIONAL SUMS & DAYWORKS

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
	PSA 8.5	<u>WORK BY SPECIALIST SUBCONTRACTORS</u>				
2.1.1.15		Repair and presssure test various existing pipelines (arranged by Engineer & paid directly by Employer through cession)	Prov Sum	1	3 000 000.00	3 000 000.00
2.1.1.16		Charges on profit on item 2.1.1.15 above	%	3 000 000.00		
2.2	SANS 1200A	DAYWORKS				
		<u>Various remedial works to terminated contract work are to be undertaken under individual pre-agreed Dayworks labour, plant & materials budgets. These include:</u>				
		- Cleaning-out debris from pipework				
		- Reshaping 3 No. conical hoppers by grinding and patching				
		- Remedial patch works to defective concrete and tie holes				
		- Sorting jumbled reinforcing bars on site				
		- Removing concrete splatter and debris from existing filter concrete surfaces				
		- Preparing surfaces of existing concrete wall joints ready for next pour				
		- Modifications / refurbishment / corrosion protection of existing works as directed by the Engineer				
2.2.1	PSA 8.7	<u>LABOUR</u>				
2.2.1.1		a) Team leader / charge hand (one level below General & Section Foremen who are covered under time-related Site Supervision)	hr	400		
2.2.1.2		b) Skilled	hr	1000		
2.2.1.3		c) Semi-skilled	hr	2000		
2.2.1.4		d) Unskilled	hr	3000		
2.2.2	PSA 8.7	<u>PLANT</u>				
2.2.2.1		For plant used in execution of Dayworks as agreed with Engineer	Prov. Sum	1	300 000.00	300 000.00
2.2.2.2		Overheads, Charges and Profit on item 2.2.2.1 above	%	300 000.00		
2.2.3	PSA 8.7	<u>MATERIALS</u>				
CARRIED FORWARD						

CONTRACT: ORTDM SCMU 15_26-27
 CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
 BILL:
 SECTION: 2 PROVISIONAL SUMS & DAYWORKS

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
2.2.3.1		For materials used in execution of Dayworks as agreed with the Engineer	PC Sum	1	600 000.00	600 000.00
2.2.3.2		Overheads, Charges and Profit on item 2.2.3.1 above	%	600 000.00		
TOTAL FOR SECTION 2 CARRIED FORWARD TO SUMMARY						

CONTRACT: ORTDM SCMU 15_26-27
CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
BILL:
SECTION: 3 CLARIFLOCCULATORS

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
3.1	SANS 1200 D	EXCAVATION				
3.1.1		<u>RESTRICTED EXCAVATION</u>				
	PSD 8.3.3	Restricted excavation in all materials for clarifiers and interlinking pipelines (where trenching not applicable)				
3.1.1.1		Cut to spoil within 600m	m ³	508		
		<u>Extra-over items 3.1.1.1 for excavation in 'hard rock' (incl unavoidable overbreak) using:</u>				
3.1.1.2		- Excavator-mounted heavy duty hydraulic breaker	m ³	108		
3.1.1.3		- Rock splitting (expanding grout where agreed with Engineer)	m ³	400		
3.1.1.4		- Hand-held elec-powered jack hammer	m ³	100		
		<u>Protection of existing services</u>				
3.1.1.5	8.3.8.2c)	2 No. 11kV buried power cables (avoid over-excavation / destabilizing excavation embankment between old and new clarifiers)	Sum	1		
3.1.2	8.3.4	<u>PREPARATION OF FOUNDATIONS</u>				
		<u>Replacement of overbreak or unsuitable materials under foundations under Clarifiers 8 & 9</u>				
3.1.2.1		Backfill overbreak(where directed by the Engineer) with 15 MPa/19 'No-Fines' mass concrete	m ³	500		
3.1.2.2		Extra-over item 3.1.2.1 for shaping surface to line and level to underside of structural concrete wall footings and floor slabs, including applying scratch-coat of dry-mix cement mortar over no-fines	m ²	1200		
3.1.3		<u>SUBSOIL DRAINAGE</u>				
3.1.3.1		Lay only (FREE ISSUE) 100mm HDPE flexible slotted drain pipe encased in 13mm stone and wrapped in geofabric(measured separately) around perimeter of clarifier wall footings to drain into sludge chamber	m	300		
3.1.3.2		Extra-over item 3.1.3.1 for supply and place 13mm stone	m ³	60		
3.1.3.3		Extra-over item 3.1.3.1 for supply and place Bidum A4 geofabric	m ²	400		
CARRIED FORWARD						

CONTRACT: ORTDM SCMU 15_26-27
 CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
 BILL:
 SECTION: 3 CLARIFLOCCULATORS

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
3.1.4		BROUGHT FORWARD <u>EXCAVATION FOR S/W DRAIN UNDER EXISTING RC CHANNEL</u> See Drg SW 717: A~2.6m long tunnel through hard sandstone under the incoming raw water channel needs to be drilled/ excavated to accommodate a 300mm stormwater drain pipe immediately below the reinf conc floor.				
3.1.4.1		Excavate soft material by hand for access pit on Eastern side of tunnel and stockpile nearby (Note: Access from Western side only available once backfilling of completed clarifier #8 is well advanced)	m ³	2		
3.1.4.2		Using hand-held percussion / drilling tools, break out rock tunnel under channel soffit (including working space) and dispose of spoil as backfill in vicinity. s/w pipeline incl under Section 7: Interlinking pipelines and s/w manhole is incl in Section 8: Siteworks	m ³	3		
3.2	SANS 1200 G	CONCRETE (STRUCTURAL)				
3.2.1	PSG8.1.1	<u>FORMWORK</u>				
		<u>Rough Formwork:</u>				
	8.2.5	<u>Curved, vertical narrow widths to:</u>				
3.2.1.1		Clarifier #8 & #9: Perimeter wall footing (450mm high)	m	165		
		<u>Curved vertical to:</u>				
3.2.1.2		Complete Clarifier #10 wall footing and pipe encasement	m ²	2		
		<u>Smooth Formwork:</u>				
	8.2.5	<u>Curved, vertical narrow widths to:</u>				
3.2.1.3		Stepped inner wall footing (200+250mm high)	m	150		
	8.2.2	<u>Curved, vertical to:</u>				
3.2.1.4		12800 mm radius (tank wall external)	m ²	940		
3.2.1.5		12500 mm radius (tank wall internal)	m ²	903		
3.2.1.6		12100 mm radius (Launder outerl)	m ²	150		
3.2.1.7		11950 mm radius (Launder inner)	m ²	165		
CARRIED FORWARD						

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		BROUGHT FORWARD				
3.2.1.8		3665 mm radius (centre wall, outer)	m ²	280		
3.2.1.9		3465 mm radius (centre wall, inner)	m ²	270		
3.2.1.10		300mm dia (columns)	m ²	80		
	8.2.2	<u>Plane, vertical to:</u>				
3.2.1.11		Rotating bridge platform beams	m ²	140		
3.2.1.12		Desludge chamber walls (internal)	m ²	115		
3.2.1.13		Desludge chamber walls (external)	m ²	200		
3.2.1.14		Outlet chamber walls (external)	m ²	50		
3.2.1.15		Outlet chamber walls (internal)	m ²	40		
		<u>Plane horizontal to:</u>				
3.2.1.16		Launder channel soffit	m ²	140		
3.2.1.17		Rotating bridge platform slab soffits	m ²	30		
	8.2.2	<u>Curved, horizontal (narrow widths) to:</u>				
3.2.1.18		Central well wall soffits (200mm width)	m	35		
	8.2.2	<u>Plane, horizontal to:</u>				
3.2.1.19		Rotating bridge platform beam soffits	m ²	25		
	8.2.5	<u>Narrow widths (over 50 mm up to 300 mm wide)</u>				
		<u>Smooth, Vertical, circular to:</u>				
3.2.1.20		11900 mm radius (tank footing internal)	m	230		
3.2.1.21		12050 mm radius (tank footing internal)	m	230		
3.2.1.22		1660 mm radius (bridge pivot centre slab)	m	35		
3.2.1.23		Outer wall kicker	m	510		
3.2.1.24		Bases of Chambers	m	30		
3.2.1.25		100 mm x 100 mm splay to launder channel	m	235		
3.2.2	PSG 8.1.2	<u>REINFORCEMENT</u>				
3.2.2.1	8.3.1	Supply & Fix Mild Steel bars of all sizes	t	15		
3.2.2.2	8.3.1	Supply & Fix High-Tensile Steel bars of all sizes	t	60		
3.2.2.3		FREE ISSUE High-Tensile Steel of all sizes - Order from credit at RMS and fix	t	24.327		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
3.2.2.4		FREE ISSUE High-Tensile Steel of all sizes - Already on site - Fix only	t	30.697		
3.2.2.5	8.3.2	High-Tensile Welded Mesh type:Ref No 395 on chamber floors	m ²	8		
3.2.3	PSG 8.1.3	<u>CONCRETE</u>				
	8.4.2	<u>Blinding layer - no-fines measured under items 3.1.2.1 and 3.1.2.2</u>				
	8.4.3	<u>Strength Concrete Grade 15 MPa/19 mm mass concrete to:</u>				
3.2.3.1		Encasing of inlet pipes under structure	m ³	25		
3.2.3.2		Encasing of sludge outlet pipes under structure	m ³	25		
	PSG 8.1.3 & 8.4.3	<u>Strength Concrete Grade 35MPa/19 mm to:</u>				
3.2.3.3		Clarifier #10: Complete wall footing and encasement of sludge outlet pipe under the footing (in one operation)	m ³	4		
3.2.3.4		Desludge chamber floor slab	m ³	4		
3.2.3.5		Conical main floor slab	m ³	224		
3.2.3.6		Perimeter wall footing	m ³	90		
3.2.3.7		Beams, Bridge pivot centre slab and plinth	m ³	25		
3.2.3.8		Launder slab	m ³	30		
3.2.3.9		Vertical Circular Central Wall	m ³	60		
3.2.3.10		Vertical Circular Main Tank Wall	m ³	250		
3.2.3.11		Launder walls	m ³	15		
3.2.3.12		Desludge chamber wall	m ³	35		
3.2.3.13		Outlet Chamber Walls	m ³	20		
3.2.3.14		Columns to central well	m ³	6		
		<u>Extra-over items 3.2.3.6 & 3.2.3.6 for watertight concrete:</u>				
3.2.3.15		XYPEX Admix C-500 NF (5kg/m ³) complete including product supplier technical guidance, quality control and product mixing log sheets <u>Extra-over item 3.2.3.5 for casting-in pressure- relief valves SEE DETAIL ON DRG 210-02</u>	kg	1600		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
3.2.3.16		Take from store on Site, fix in place in concrete floor slab and cast-in pressure release valves (FREE ISSUE item) complete with 130mm long section of 110mm uPVC pipe, ensuring unobstructed flow path to 'no-fines' layer under floor and protect from damage once in place <u>Floor screeds strength Grade 35 MPa/19mm concrete (min 25mm thick)</u>	No.	8		
3.2.3.17		To desludge chamber floor slabs	m ³	1		
3.2.3.18		To outlet chamber slabs	m ³	1		
3.2.4	SANS 1200G	<u>UNFORMED SURFACE FINISHES</u>				
	PSG 8.4.4	<u>Wood-floated finish to:</u>				
3.2.4.1		Sloping Main Floor slab (before screed) to Degree of Accuracy I	m ²	1450		
3.2.4.2		Stilling basin slabs	m ²	35		
3.2.4.3		Top surface of footing outside structure	m ²	65		
3.2.4.4		Top surface beams	m ²	25		
	PSG 8.4.4	<u>Steel-floated finish to:</u>				
3.2.4.5		Laundry slab	m ²	95		
3.2.4.6		Laundry wall	m ²	35		
3.2.4.7		Central stilling-well wall	m ²	15		
3.2.4.8		Main tank wall (to Degree Accuracy III)	m ²	55		
3.2.4.9		Central platform slab	m ²	30		
		<u>Prepare top of wall for peripheral wheel of travelling bridge NOTE: Epoxy repair mortar paid under Dayworks Materials</u>				
		3 new clarifiers				
3.2.4.10	PSG 8.4.4	Extra-over item 3.2.4.8 for diamond milling of 300mm wide top-of-wall surface to produce a flat, smooth, horizontal, hard-wearing, durable, discontinuity-free, defect-free surface including making good blow-holes, cracks and similar defects with epoxy repair mortar 7 existing clarifiers	m	265		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
3.2.4.11	PSG 8.4.4	High-pressure water wash of 300mm wide top-of-wall surface, apply scratch coat of epoxy repair mortar to make good worn, uneven, cracked surface and apply diamond mill grinder to produce a flat, smooth, horizontal, hard-wearing, durable, discontinuity-free, defect-free surface	m	616		
3.2.5	PSG8.5	<u>WATER-RETAINING JOINTS</u>				
3.2.5.1	PSG 8.5.1	FC - sloping floor radial contraction joints with 20x20mm chamfer sealed with polyurathane sealant NOTE: Rearguard waterstop is on Site as FREE ISSUE item	m	491		
3.2.5.2		Circular contraction joint between central sludge hopper and sloping floor slabs as per Detail A on drg /DET_210-03	m	196		
3.2.5.3		Circular expansion joint between outer wall footing and sloping floor slabs as per detail on drg /DET_210-05	m	550		
3.2.5.4		WH1 - Horiz wall CJ (kicker)	m	700		
3.2.5.5		WH3- horiz wall CJ	m	510		
3.2.5.6		WVCJ - Vert wall CJ	m	240		
		<u>Watertightness test</u>				
3.2.5.7	PSG 8.15	Water tightness test for each tank before backfilling	No.	3		
3.3	SANS 1200 L	MEDIUM PRESSURE PIPELINES				
3.3.1		<u>PIPEWORK</u>				
		All pipework special flanges drilled to SANS 1123 Table 1000/3.				
	8.2.5 PSL8.2.1	<u>Install/cast-in pipe specials as itemised on per drawing DET 210-01 & 02:</u>				
		<u>Raw Water Inlet (600mm Diameter)</u>				
3.3.1.1		Item 1: FREE ISSUE item: DN600 304L SS straight pipe, 4780mm long. Supply fibre gasket and SS nuts, bolts and washers and bolt item onto item 2 (which is already installed) Item 2: 304L Stainless Steel 95° flanged bend **ALREADY INSTALLED**	No.	3		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
		Item 3: DN600 VJ long-collar stepped coupling **ALREADY INSTALLED**				
		Item 4: DN600 PN6 SN5000 GRP **ALREADY INSTALLED**				
		<u>Clear Water Outlet</u>				
3.3.1.2		Item 6: DN600 304L SS Puddle Pipe 600mm long, plain-ended, puddle-flange: Fabricate, deliver to Site, position in box-out in chamber wall and cast-in, complete with 10x10mm 'Kuniseal C-31DS' (or SikaSwell) bead on puddle flange root (both sides)	No	3		
		<u>Sludge Outlet</u>				
		Item 7: DN200 uPVC Class 12 pipe under clarifier floor **ALL 3 ALREADY INSTALLED** but need cleaning-out under Dayworks.				
3.3.1.3		Item 8: DN200 VJ long-collar stepped coupling (FBE coated mild steel) to connect DN200 plain ended stainless steel pipe (item 9) to DN200 uPVC pipe: Supply & install	No.	3		
3.3.1.4		Item 9: FREE ISSUE DN200 304L SS 11° bend, flanged one end, plain other end: Collect from storage and install with item 8	No.	3		
3.3.1.5		Item 10: Supply DN300 uPVC Class 12 straight pipe 600mm long, position in box-out (or cast-in directly) in sludge chamber wall	No.	3		
3.3.2		<u>SLEEVES FOR ELEC CABLE TO ROTATING BRIDGE</u>				
		Each clarifier to have a 63mm HDPE PE100 PN6 pipe sleeve (~ 22m long) complete with polypropylene 'ski-rope' draw rope, cast-in next to raw water inlet pipe, open ends to extend to above top-of-tank each side and protected from dirt ingress. This sleeve (excl draw rope) has been cast-in alongside raw water inlet pipe, but needs cleaning-out and extending from wall footing to above backfilled ground level. Inside tank, the loose length is sufficient to extend to top of central platform slab. Cleaning under Dayworks				
3.3.2.1		Supply 63mm HDPE PE100 PN6 pipe sleeve 6m long plus compression straight coupler to extend cleaned duct to above finished ground level. Protect during backfilling operations and install draw rope.	No	3		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
3.4	SANS 1200 H	BROUGHT FORWARD STRUCTURAL STEELWORK (SUNDRY ITEMS)				
3.4.1		Supply & install GMS side-mounted ball and stanchion handrail to top of sludge chamber complete <i>Note: No handrail to top of outlet chamber</i>	No.	3		
3.4.2	8.3.3	Supply and fix in place Hot Dip Galvanised ladders (external with no hoops, internal with hoops) in desludge chamber as per detail on Drawing No. J31067/DET_210-04	No.	3		
3.4.3	8.3.4	H38 38mm Fibreglass Grating with frame and support beams on desludge chamber as per detail on Drawing No. J31067/DET_210-04	No.	3		
3.4.4	8.3.4	H38 38mm Fibreglass Grating with frame on outlet chamber	No.	3		
3.4.5		Grade LDX 2101 Stainless Steel pipe supports attached to columns as per detail on Drawing No. J31067/DET_210-04	No.	3		
3.4.6		<u>Splitter Box</u> Refer to Dwg DET-200-01 and DET-200-02				
	8.3.1 PSHA3-4	Supply, fabricate, deliver and install hot-dip galvanised steelwork complete				
3.4.6.1		GMS External access ladder	No.	3		
3.4.6.2		IPE180 frame & angled supports, inc 50x50 angle on 3 sides (grating edge restraint), hot-dip galvanising and fixings	kg	140		
3.4.6.3		GMS Handrailing complete per platform	No.	3		
	8.3.9	Open grid flooring				
3.4.6.4		GRP platforms complete (sizes indicated on the drawings, 3 No. 38x38x38mm GRP panel 1000 x 1000mm	No	3		
TOTAL FOR SECTION 3 CARRIED FORWARD TO SUMMARY						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
4.1	SANS 1200 D	<u>Includes mods to existing filter building adjoining new filters</u> EXCAVATION				
4.1.1		<u>RESTRICTED EXCAVATION</u>				
4.1.1.1		Excavation in all materials (including removal of spilled concrete) for subsoil drains etc and use for backfill or spoil	m ³	20		
		<u>Extra-over item 4.1.1.1 for</u>				
4.1.1.2		Hard rock using jack hammer	m ³	10		
4.1.1.3		Hard rock using expanding grout	m ³	5		
4.1.2		<u>SUBSOIL DRAINAGE</u>				
4.1.2.1		Supply & lay 100mm HDPE flexible slotted double-wall drain pipe ("Drainex" or similar approved) encased in 13mm stone and wrapped in geofabric (measured separately) around perimeter of filter structure wall footings to drain to filter scour headwall (solid pipe beyond perimeter drain measured under Section 7)	m	120		
4.1.2.2		Extra-over item 3.1.3.1 for supply and place 13mm stone	m ³	11		
4.1.2.3		Extra-over item 3.1.3.1 for supply and place Bidum A4 geofabric	m ²	150		
4.2	SANS 1200 G	CONCRETE (STRUCTURAL)				
4.2.1	PSG8.1.1	<u>FORMWORK</u>				
	8.2.1	<u>Rough Formwork</u>				
	8.2.1	<u>Plain Vertical Narrow Widths</u>				
4.2.1.1	8.2.5	Up to 500mm wide for concrete support pillars under incoming settled water manifold	m	40		
		<u>Smooth Formwork</u>				
	8.2.5	<u>Plain Vertical Narrow Widths</u>				
4.2.1.2		Sides of downturn beam on upper filter gallery floor up to 500mm high	m	220		
4.2.1.3		Sides of ring beam at roof level up to 350mm high	m	210		
4.2.1.4		To sides of suspended slabs, stairs and walkways	m	130		
CARRIED FORWARD						

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		BROUGHT FORWARD				
	8.2.2	<u>Plain Vertical to:</u>				
4.2.1.5		To square columns 300 x 300 mm	m ²	90		
4.2.1.6		Outer walls	m ²	463		
4.2.1.7		All Internal Walls (Except filter bed walls and central overflow channel walls)	m ²	84		
4.2.1.8		Filter Bed and Central Overflow Channel Walls with Formwork Accuracy Degree I	m ²	421		
4.2.1.9		Settled Water Inlet Channel Walls	m ²	65		
4.2.1.10		Internal & external stairs	m ²	30		
	8.2.2	<u>Plain Horizontal to:</u>				
4.2.1.11		Upper gallery floor slab & stair landing	m ²	165		
4.2.1.12		Inlet Channel and external walkways	m ²	70		
4.2.1.13		Walkways	m ²	125		
	8.2.2	<u>Plane Sloping to:</u>				
4.2.1.14		Soffit of stairs (internal & external)	m ²	40		
4.2.2	PSG8.1.2	<u>REINFORCEMENT</u>				
4.2.2.1	8.3.1	Supply & fix Mild Steel bars	t	1		
4.2.2.2	8.3.1	Supply & fix High-Tensile Steel bars	t	10		
4.2.2.3		On-Site steel (FREE ISSUE) - fix only	t	15.2		
4.2.3	PSG8.1.3	<u>CONCRETE</u>				
	PSG 8.1.3 & 8.4.3	<u>Strength concrete: 35 MPa/19mm watertight concrete</u>				
4.2.3.1		Elevated floor slab:Upper Gallery	m ³	45		
4.2.3.2		Settled Water Inlet channel floor slabs	m ³	22		
4.2.3.3		Elevated walkways	m ³	55		
4.2.3.4		External walls	m ³	69		
4.2.3.5		Pipe Channel walls	m ³	10		
4.2.3.6		Settled water inlet channel	m ³	30		
4.2.3.7		Wash water outlet channel walls	m ³	5		
4.2.3.8		Inlet and Backwash Channel walls	m ³	50		
CARRIED FORWARD						

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		BROUGHT FORWARD				
4.2.3.9		Columns	m ³	7		
4.2.3.10		Thrust Blocks and pipe supports	m ³	3		
4.2.3.11		Stairs	m ³	45		
		<u>Extra-over items 4.2.3.2 & 4.2.3.5 & 4.2.3.6 & 4.2.3.7 & 4.2.3.8 for concrete:</u>				
4.2.3.12		XYPEX Admix C-500 NF in : 35MPa/19 mm watertight concrete (5kg/m ³) complete including product supplier technical guidance, quality control and product mixing log sheets	kg	180		
		<u>Strength concrete: 15 MPa/19mm for mass concrete fill</u>				
4.2.3.13	8.4.4 d)	Allow for all costs in placing 50mm thick grano screed to sloping floor and channels	m ²	15		
4.2.3.14	8.4.3	Mass concrete (Provisional)	m ³	8		
4.2.3.15	8.44 b)	Screed with steel float finish	m ³	8		
4.2.4		<u>UNFORMED SURFACE FINISHES</u>				
	PSG 8.4.4	<u>Steel-floated finish</u>				
4.2.4.1		Internal & external Stairs (incl reading lines on treads)	m	30		
4.2.4.2		External walkways	m ²	110		
4.2.4.3		Floor Slab:Upper Gallery	m ²	200		
4.2.4.4		Settled water duct, floor and top of walls	m ²	60		
4.2.4.5		Backwash Channel , floor and top of walls	m ²	9		
4.2.4.6		Washwater Channel, floor and top of walls	m ²	60		
4.2.5	PSG 8.5	<u>WATER-RETAINING JOINTS</u>				
4.2.5.1		Supply and install 'Sikadur Combiflex' SG system (200mm x 2mm polyolefin bandage with epoxy adhesive) over selected horiz and vert joints in chlorine contact tank and inside filter bed walls where directed by the Engineer	m	500		
4.2.6		<u>MISCELLANEOUS</u>				
		<u>Grind tops of central overflow weir in each filter bed</u>				
4.2.6.1		Use diamond cup-grinder to accurately level-off both weir walls to within 1mm accuracy	No.	6		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
	PSG 8.15	<u>Water-tightness testing</u>				
4.2.6.2		Water tightness test for each filter bed (checking also that overflow weirs are dead-level)	No.	6		
4.2.6.3		Water tightness test for clear water sump	No.	1		
		<u>Filter Bed False Floor Supports</u>				
		The filter bed false floor (to be installed later by Mech & Elec Contractor) needs a 50mm step in the wall 535mm above the floor slab. This has been omitted in construction of all partition walls between filters.				
4.2.6.4		Scabble surface of lower 535mm of partition walls (including trimming floor slab surface to line and level as necessary), clean and treat with wet-to-dry epoxy adhesive ready to cast 50mm step	m ²	70		
4.2.6.5		Accurately position smooth plain (narrow widths) shuttering up to 535mm above floor	m	120		
4.2.6.6		Supply and cast 35MPa/20 concrete and accurately steel-trowel top-of step to +/- 1mm tolerance (grind trim afterwards if necessary)	m ³	4		
		NOTE: Making good the 50mm step on the other walls to be carried out under Dayworks				
4.3	SANS 1200 HA	STRUCTURAL STEELWORK				
4.3.1	PSHA 8.3	<u>ACCESS TO CHLORINE CONTACT TANK UNDER LOWER GALLERY</u>				
4.3.1.1	8.3.3	Fabricate and install 304L Stainless Steel access ladder with cage (Internal) 5m high, incl SS anchor bolts. Refer to Drawing No. J31067/DET_210-04 for typical detail	No.	3		
4.3.1.2	8.3.1	Fabricate & install 1450 x 1450 opening size 304L stainless steel hinged access cover and frame c/w 600 x 600mm hinged secondary access cover in 1450x1450 cover generally as per detail for GMS cover and frame on Drawing No. J31067/STD_570	No.	3		
4.3.2		<u>HANDRAILING</u>				
4.3.2.1	8.3.2	Supply and install side mounted GMS handrailing, including inclined to sides of stairways as per typical detail on Drawing No. J31067/STD_540	m	300		
4.3.3		<u>GRATING OVER INLET CHANNEL</u>				
CARRIED FORWARD						

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		BROUGHT FORWARD				
4.3.3.1	8.3.4	Supply and install RS40 banded GMS grating to settled water inlet channel (800mm span)	m ²	31		
4.3.3.2	8.3.4	Supply GMS 75x50x6mm angle support frame and surface-mount with 12mm x 50mm deep ss anchor bolts @ 300c/c	m	77		
4.3.4		<u>ACCESS TO CHANNEL UNDER FILTER BED LAUNDER</u> NOTE: Duct under launder channel to be thoroughly cleaned (under Dayworks) and inspected and approved by the Engineer before manhole cover is finally bolted-down and sealed				
4.3.4.1	8.3.1	Supply and install air-tight cast-iron 600x450mm type 8A double-seal manhole cover and frame complete with 2 x 50x50x5 angle ss 304L to hold-down cover, SS chemical anchor bolts and Sika-flex Pro-3 sealant all as per drg J31067/DET/220-08	No	6		
4.3.5		<u>LOWER FILTER GALLERY</u>				
4.3.5.1		Supply and install 3300mm Grade 43 MS GMS Parallel-flanged I-beam 203 x 133mm x 25kg/m into concrete above backwash pump sumps complete with GMS anchor bolts and end-stops each side and manual crawl trolley rated for at least 1.5t	No	2		
4.3.5.2		Supply and install 5500mm Grade 43 MS GMS Parallel-flanged I-beam 203 x 133mm x 25kg/m for external loading (see drg DET 220-04) complete with M20 GMS anchor bolts into concrete and end-stops each side and manual crawl trolley rated for at least 1.5t	No	1		
4.3.5.3		Supply and install manual chain-block hoist (to hook onto crawl trolley), rated to at least 1.5t. Lifting range for chain: min 5m	No.	1		
4.3.5.4		Arrange for load-test certification of all 3 lifting beams by specialist	PC Sum	1	60 000.00	60 000.00
4.3.5.5		Contractor's mark-up on item 4.3.5.4	%	60 000.00		
4.4	SANS 1200 L	MEDIUM PRESSURE PIPELINES				
4.4.1		<i>Incoming settled water from Clariflocculators (Drg 220-11)</i>				
CARRIED FORWARD						

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		BROUGHT FORWARD				
		Note: Item B6 is extremely heavy and large and needs to be positioned onto 2 No. 500x500 mass concrete support pedestals. All items scheduled below (B6 to B9) to be jointed and aligned in final position before 2No. items B8 are grouted into filter walls. Preparation of boxouts in these walls (see Detail A1 and A2 on above drg) to be completed before inserting items B8.				
4.4.1.1		B6: FREE ISSUE: Collect from storage on Site, manoeuvre into position, install and joint DN900 PN10 flanged pipe manifold 6960mm long then, under Dayworks, make-good epoxy coating corrosion protection	No	1		
4.4.1.2		Extra-over item 4.4.1.1 for constructing 2 No. permanent 500 x500 25MPa/20 mass concrete support blocks (~3m high founded on solid rock) under manifold	Sum	1		
4.4.1.3		B7: FREE ISSUE: Collect from storage on Site, install and joint DN600 PN10 flanged 90 degree elbow.	No	2		
4.4.1.4		B8: FREE ISSUE: Collect from storage on Site, install and joint DN600 9700mm long straight pipe, PN10 flanged one end, other end plain	No	2		
		Extra-over items 4.4.1.1 to 4.4.1.4 for supplying fibre-gasket and GMS nut/bolt /washer sets for flanged joints as follows:				
4.4.1.5		Supply flange joint set for B6 DN500 PN10 incoming HDPE pipe connections (note: GMS nuts and bolts only; HDPE stub flange can seal against steel flange without a gasket)	No.	3		
4.4.1.6		Supply flange joint set for DN600 PN10 B6/B7 and B7/B8 flanged connections	No.	4		
4.4.1.7		Extra-over item 4.4.1.4 for preparing edges of all four box-outs, applying swellable seals to box-out surfaces and pipe surfaces (as per Details A1 and A2 on drg DET 220-11), supplying and fixing shuttering and casting-in pipes with approved polymer-modified waterproof grout	Sum	1		
		Isolating valve				
4.4.1.8		B9: Supply and install DN350 PN10 flanged butterfly valve with quarter-turn handle, complete with fibre gaskets and GMS nuts/bolts/washers each side	No	1		
		Specialist Supplier items				
CARRIED FORWARD						

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		BROUGHT FORWARD				
4.4.1.9		B10 to B14 - Designed, fabricated and installed by Specialist Supplier	PC Sum	1	400 000.00	400 000.00
4.4.1.10		Contractors markup for above	%	400 000.00		
4.4.1.11		B15: Supply and install DN900 PN10 epoxy coated mild steel blank flanges on each end of B6 manifold, including fibre gaskets and GMS nuts/bolts/washers	No.	2		
4.4.2		Filter backwash pipework in Lower Gallery (Drg 220-12) This pipework has been partially assembled in place and puddlepipes from filter beds cast-in. This should have been fully assembled before casting-in, so it will be necessary to cut item C24 and introduce a SS VJ coupling to provide assembly flexibility NOTE: Entire manifold (2No.) to be assembled in place and temporarily supported before remainder of puddle pipes (on items 21 and 25) cast-in.				
4.4.2.1		C17: FREE ISSUE: install DN500 flanged 90° elbow. Supply fibre gaskets and SS nuts, bolts and washers for each end and join with items 20 & 21	No	2		
4.4.2.2		C18: FREE ISSUE: install DN500 flanged straight pipe	No	2		
4.4.2.3		C19: FREE ISSUE: install DN500 flanged equal tee include supply of fibre gaskets and SS nuts, bolts and washers for two of the item's three flanges	No	3		
4.4.2.4		C20: FREE ISSUE: install DN500 flanged straight pipe	No	2		
4.4.2.5		C21: FREE ISSUE: install DN500 x DN400 SS manifold, including cast in complete with with 10x10mm 'Kuniseal C-31DS' (or SikaSwell) bead on both sides of puddle flange root	No	3		
4.4.2.6		Extra-over item 4.4.2.5 for supply of DN500 fibre gasket and SS nuts, bolts and washers for 3rd flange	No.	1		
4.4.2.7		C22 Supply and install 304 SS DN400 PN10 flanged restrained dismantling joint (adjustable 275-325mm f/f) c/w	No	6		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
4.4.2.8		C23: FREE ISSUE: install DN400 flanged mild steel temporary spool piece, (in place of valves to be supplied and installed by Mech & Elec.) including supply of gasket and SS nuts, bolts and washers each side	No.	12		
4.4.2.9		C24: ALREADY IN POSITION: DN400 manifold tee (puddle pipe tee from filters already cast-in). To facilitate assembly of entire manifold system, rate to include cutting each of these in-situ between the DN400 and DN150 tees (500mm from centre of DN400 Tee so manifold becomes C24a and C24b) and a VJ coupling (item C26) installed to re-join with ~300mm gap between the pieces.	No	6		
4.4.2.10		C25: FREE ISSUE item: DN400 SS puddle pipe: Prepare box-out ready to cast-in, then install on manifold system, including supply of fibre gasket and SS nuts, bolts and washers and then cast-in with swellable seal (SikaSwell) on puddle flange roots as per Detail A1.	No	6		
4.4.2.11		C26: Supply and install 304 SS DN400 Long-collar (500mm length) VJ coupler	No	6		
4.4.3		Filter Underfloor Access Portals and Launder Channel Outlet (Drgs DET220-05 and -11)				
4.4.3.1		30: FREE ISSUE item: DN450 PN10 flanged 304 SS puddle-pipe: Position and cast-in filter wall complete with swellable seal (SikaSwell) on puddle flange roots as per Detail A1	No.	18		
4.4.3.2		Extra-over item 4.4.3.1 where puddle pipe is to be cast-in in a box-out (instead of casting wall with item in place): Rate to include preparation of box-out surfaces and application of swellable beads as per Detail A1 and casting-in	No.	12		
4.4.3.3		30a: Supply and install 304SS DN 450 PN10 blank flange complete with fibre gasket and SS nuts, bolts and washers (Access portals only)	No.	12		
4.4.4		Settled Water Inlet pipework to each Filter Bed (Drg 220-08)				
4.4.4.1		F31: FREE ISSUE: DN300 304L SS puddle pipe: Collect from storage on Site and grout into box-out, complete with 10x10mm 'SikaSwell' or 'Kuniseal C-31DS' bead on puddle flange root (both sides) as per Detail A1 on Drg DET220-11)	No	6		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
4.4.4.2		BROUGHT FORWARD F32: FREE ISSUE: DN300 304L SS 90 degree bend: bolt onto item F31 (supply GMS nuts/bolts/washers but NO GASKET (Mech contractor will insert actuated valve between F31 & F32 later)	No	6		
4.4.5		Lower Gallery Pipe Channel drainage (Drg DET 220-06)				
4.4.5.1		Supply and install 75mm solvent-weld jointed uPVC Class12 drainage pipe system as shown on drg complete with stainless steel strapping and anchor bolts at 600mm c/c securing UPVC pipe firmly to concrete wall and uPVC tees, bends and flange adaptor at outlet and Sikadur-31 CF adhesive epoxy seal applied to concrete / pipe interface after pipe cast-in. NOTE: 1 No. 80mm SS puddle pipe in end wall already cast-in and 6 No. 75mm uPVC vertical pipes already cast in pipe channel floor ready for uPVC solvent welding of horizontal part of drain.	Sum	1		
4.5	SPEC GIBB 012	BUILDING WORK (PARTICULAR SPECIFICATION GIBB 012) See Finishing Schedule Drg DET 221				
4.5.1	7.1	<u>BRICKWORK</u> <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>				
4.5.1.1		110 brick walls in beamfilling	m ²	25		Rate Only
4.5.1.2		270 brick walls	m ²	350		Rate Only
4.5.1.3		270 brick walls in beamfilling <u>"Montana Travertine FBS" face bricks pointed with recessed horizontal and vertical joints</u> <u>Extra over items 4.5.1.1 to 4.5.1.3 for:</u>	m ²	60		Rate Only
4.5.1.4		Face brickwork	m ²	340		Rate Only
4.5.1.5		Brick-on-edge window cill slightly projecting	m	46		Rate Only
4.5.2		<u>BRICKWORK SUNDRIES</u> <u>Joint forming material in movement joints</u>				
4.5.2.1		10mm Expanded polystyrene (density 33kg per m3) with one tear off strip, built in vertically through brick walls <u>Brickwork reinforcement</u>	m ²	16		Rate Only
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
4.5.2.2		75mm Wide reinforcement built in horizontally	m	500		Rate Only
4.5.2.3		150mm Wide reinforcement built in horizontally	m	1600		Rate Only
		<u>Prestressed fabricated lintels</u>				
4.5.2.4		110 x 75mm Lintels for single doors	No.	7		Rate Only
4.5.2.5		110 x 75mm Lintels for 2.8m long windows (2 No. per window)	No.	32		Rate Only
4.5.3	7.8	<u>WATERPROOFING</u>				
		<u>DAMP-PROOFING OF BRICK WALLS</u>				
		<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>				
4.5.3.1		In walls	m ²	700		Rate Only
		<u>JOINT SEALANTS, ETC.</u>				
		<u>"Fosroc Thioflex 600" two part grey polysulphide sealing compound, including backing cord, bond breaker, primer, etc.</u>				
4.5.3.2		15 x 10mm In vertical expansion joints, including raking out expansion joint filler as necessary	m	400		Rate Only
4.5.4	7.8	<u>ROOF COVERINGS</u>				
		PROFILED METAL SHEETING AND ACCESSORIES				
		<u>0.5mm "Klip-Lok" Z275 spelter galvanised high yield steel ribbed sheeting with "Chromadek" finish on outside and white on inside, in single lengths fixed to 50 x 75mm purlins at 1.1m maximum centres.</u>				
4.5.4.1		Roof covering with 10 degree pitch	m ²	330		
4.5.4.2		Chromadek fascia board	m	50		
4.5.5	7.8	<u>ROOF INSULATION</u>				
		<u>"Lambdaboard" high density 35kg/m³ insulation or other equal or approved insulation</u>				
4.5.5.1		40mm thick insulation attached to underside of purlins as per manufacturer's specification	m ²	240		
4.5.6	7.6	<u>CARPENTRY AND JOINERY</u>				
		ROOFS				
		<u>Sawn softwood</u>				
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
4.5.6.1	7.4	Design, supply and instal roof trusses complete with purlins and fixings for Filter Building "Everite" pressed nutec-cement	Sum	1		
4.5.6.2		12 x 225mm barge boards including galvanised steel H-profile jointing strips	m	50		
4.5.7		<u>ALUMINIUM DOORS & DOOR FRAMES</u> <u>Powder coated black aluminium doors & frames fixed to brickwork or concrete as per Finishing Schedule</u>				
4.5.7.1		Frame for door to fit in clear opening space 813 x 2 032mm high	No.	7		Rate Only
4.5.7.2		Solid-panel outward-opening exterior single door dimensions to fit into above frame; c/w door handle, door stop and lock as per schedule	No	7		Rate Only
4.5.8		<u>ALUMINIUM LOUVRES</u> <u>Powder coated black aluminium louvres including sub-frames and silicone sealant all round fixed to 270mm brickwork as per Finishing Schedule</u>				
4.5.8.1		To fit in clear opening space ~600mm high x ~1200mm wide (8 brick courses high, 5.5 brick lengths wide)	No.	12		Rate Only
4.5.9		<u>ALUMINIUM WINDOWS</u> <u>Powder coated black aluminium windows glazed with 6mm laminated clear float glass including sub-frames, glazing beads, ironmongery and silicone sealant all round, fixed to brickwork or concrete as per Finishing Schedule</u>				
4.5.9.1		Framed three-panel window to fit clear opening ~1225mm high (16 brick courses) x ~2800mm wide (13.5 brick lengths wide) with 1/4 width sliding panel each side, 1/2 width fixed centre panel (W06 on drgs)	No.	16		Rate Only
4.5.10		<u>GMS DOUBLE DOOR</u>				
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
4.5.10.1		BROUGHT FORWARD Supply and install Hot-dip Galvanised Steel fabricated double door in Z steel bolt-on frame 2500mm x 3270mm high with top I beam opening 203 x133. Doors sq frame covered with 2mm sheets bent to profile and incl 2 x bottom louvers (1 per door) 4 hinges per leaf. All Locking mechanisms will be from the inside by means of slide bolts. The entire door will be hot dip galvanized	No.	1		
4.5.11	7.2	<u>PLASTERING</u> <u>Internal plaster</u>				
4.5.11.1		On walls	m ²	340		Rate Only
4.5.11.2		On narrow widths <u>Floor edging under external doors</u>	m ²	20		Rate Only
4.5.11.3		3 x 50mm flat section aluminium anchored to floor	m	10		Rate Only
4.5.12	7.7	<u>PLUMBING AND DRAINAGE</u> RAINWATER DISPOSAL <u>Aluminium seamless guttering</u>				
4.5.12.1		75 x 100mm Eaves gutters	m	70		
4.5.12.2		75x75 rainwater downpipes <u>Extra over item 4.5.12.1 for:</u>	m	30		
4.5.12.3		Stopped end <u>Extra over item 4.5.12.2 for:</u>	No.	2		
4.5.12.4		Shoe	No.	2		
4.5.12.5		Bend	No.	12		
4.5.12.6		Eaves or plinth offset 600mm projection	No.	2		
4.5.13	7.7	<u>PAINTWORK</u> <u>On floated plaster</u> One coat masonry filler rubbed and sanded smooth to an approved finish, one coat oil-based bonding liquid, one undercoat and two coats Plascon Double Velvet (or equal approved) acrylic paint (white)				
4.5.13.1		- On internal plastered brick walls	m ²	350		Rate Only
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		BROUGHT FORWARD				
4.5.13.2		<u>On concrete lower gallery walls behind filter beds and inside pipe gallery (ie subject to moisture penetration)</u> Two saturating coats of "Stoneprime 639" epoxy primer on vacuum-cleaned surface <u>On concrete clear water Sight Box walls and floors and weir (for permanent submersion)</u> Two coats Brilliant White high gloss two-pack solvent-free epoxy "Jotun Tankguard DW" (applied by airless spray) on diamond-ground and thoroughly vacuum-cleaned surface (and after rounding-off internal corners with epoxy putty to 10mm radius)	m ²	300		
4.5.13.3		- Inside clear water Sight Boxes <u>On fibre-cement</u> One coat oil-based bonding liquid, one coat universal primer and two coats "Plascon" velvaglo polyurethane enamel paint	m ²	72		
4.5.13.4		- Barge boards <u>On Floors and internal stairs</u> Floor coatings by Specialist SubContractor: Prepare surfaces by diamond grinding and apply Grey Stonkote 723 (High build 0.5mm roller application at 4 to 5m²/litre/coat, 2 coats required.) onto Stonprime 639 primed surfaces.	m ²	50		
4.5.13.5		Preparation of steel-floated concrete floor (ready to receive epoxy screed) by patching defects and holes with approved epoxy repair mortar then grinding to flat, smooth, defect-free hard durable surface then cleaning to remove all dust and contaminants	m ²	560		
4.5.13.6		All floors and internal stairs	m ²	560		
4.5.13.7		skirtings (100mm high)	m	172		
4.5.14		<u>REFURBISHMENT OF ADJACENT FILTER BUILDING</u>				
4.5.14.1		Replace all hinges on meranti external single doors with aluminium heavy duty hinges (3 No. per door) and re-hang door to properly fit (trimming wood where necessary) and also replace door handle with heavy duty aluminim handle	No	4		Rate Only
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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
4.5.14.2		Sand-down all wooden surfaces (frame and door all around) and treat with "Woodoc Wood Reviver" to manufacturer's directions, then 3 saturation coats of "Woodoc 35 Exterior"	No	4		Rate Only
4.5.14.3		Scrape-off all loose & flaking paint from interior concete and platered surfaces (and clean-up and dispose of debris after)	m²	250		Rate Only
4.5.14.4		Replace rubber matting attached to GRP grating in Lower Gallery floor with "MAC AFRIC 490x490mmx4mm thick blackPVC interlocking floor tiles (4No, grating panels 1.0 x1.4m)	No.	4		Rate Only
TOTAL FOR SECTION 4 CARRIED FORWARD TO SUMMARY						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
5.1	SANS 1200 G	CONCRETE (STRUCTURAL)				
5.1.1	PSG 8.5	JOINTS Superstructure Brick/ column joints with closed cell expanded polystyrene joint filler incl polysulphide external sealant (drg DET 400-03)				
5.1.1.1		12mm Joints not exceeding 300mm high	m	110		Rate Only
5.2	SANS 1200 HA	STRUCTURAL STEEL				
5.2.1		STEELWORK Hot dip galvanized steel				
	PSHA 8.3	Welded beams in single lengths with flat section bearer and connection plates, bolted to steel columns				
5.2.1.1	8.3.1	254 x 146mm x 43kg/m I-section beams	t	0.77		
5.2.1.2	8.3.1	203 x 133mm x 25kg/m I-section rafter beams	t	0.77		
5.2.1.3	8.3.1	254 x 254mm x 73kg/m H-section beams	t	2.49		
5.2.1.4	8.3.1	356 x 171 x 67kg/m x total 2 No x 17.1m long fabricated crawl-beams complete with trolley stop-ends each side	t	2.23		
5.2.1.5	8.3.1	70x70x6mm L diagonal and vertical cross-bracing Bolts to columns, beams, etc NOTE: M16 U-shaped anchor bolt 500mm girth gr8.8 already installed	t	0.3		
5.2.2		CERTIFYING CRAWL BEAMS				
5.2.2.1		Certify 5 tonne beam capacity (test by "Water-weights" or similar approved) - Both beams (arrange at same time as Filter Bldg beams)	Sum	1		
5.3	SPEC GIBB012	BUILDING WORK (PARTICULAR SPECIFICATION GIBB012)				
5.3.1	7.1	BRICKWORK Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
5.3.1.1		110 brick wall in beamfilling	m²	10		Rate Only
5.3.1.2		270 brick walls	m²	42		Rate Only
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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
		<u>Facebrick</u>				
		Montana Travertine FBS face bricks pointed with recessed horizontal and vertical joints				
		<u>Superstructure</u>				
		<u>Extra over items 5.3.1.1 to 5.3.1.2 for:</u>				
5.3.1.3		Face brickwork	m ²	24		Rate Only
5.3.1.4		Brick-on-edge window cill slightly projecting	m	2.5		Rate Only
		<u>BRICKWORK SUNDRIES</u>				
		<u>Brickwork reinforcement</u>				
5.3.1.5		75mm Wide reinforcement built in horizontally	m	350		Rate Only
	8.2.3.1	<u>Prestressed fabricated lintels</u>				
5.3.1.6		110 x 75mm Lintels in lengths not exceeding 3m	m	19		Rate Only
		<u>Sheet metal roof: Galvanised hoop iron cramps, ties, etc</u>				
5.3.1.7		30 x 1,6mm Roof tie 1,5m long with one end fixed to timber truss and other end built into brickwork	No.	10		
5.3.1.8		Truss hanger bracket bolted to wall	No.	10		
		<u>SKYLIGHTS</u>				
		<u>Supply and install complete in concrete roof slab with fixings and water-proofing complete:</u>				
5.3.1.9		300mm 'Solar Tube Skylight' or similar approved (Note: PVC sleeves already cast into roof slab)	No	6		
5.3.2		<u>PROFILED METAL SHEETING AND ACCESSORIES (canopy over driveway and roof over side room)</u>				
		<u>0,5mm "Klip-Lok" Z275 spelter galvanised high yield steel ribbed sheeting with "Chromadek" finish on outside and white on inside, in single lengths fixed to purlins and 0,6mm galvanised steel accessories with "Chromadek" finish on one side</u>				
5.3.2.1		Roof covering with pitch of ~10 degrees	m ²	54		
5.3.2.2		Roof covering as vertical cladding	m ²	44		
5.3.2.3		Raking cutting and waste	m	7		
CARRIED FORWARD						

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		BROUGHT FORWARD				
5.3.2.4		Head wall flashing 462mm girth, bent to fit profile.	m	15		
5.3.2.5		Side wall flashing 462mm girth, twice bent to fit profile.	m	18		
5.3.2.6		Moulded narrow or broad rib polyethelene filler blocks	m	31		
		<u>1.0mm Thick galvanised steel accessories to "Klip-lok" roof sheeting</u>				
5.3.2.7		Gable trim 660mm girth fixed to lipped channel bearers	m	7		
5.3.2.8		External corner 740mm girth fixed vertically to lipped channel bearers	m	4		
5.3.2.9		Head wall counter flashing 185mm girth	m	15		
5.3.2.10		Side wall counter flashing 185mm girth, twice bent to fit profile.	m	18		
5.3.2.11		Drip flashing 231mm girth	m	41		
5.3.3		<u>ROOF INSULATION</u>				
		<u>Lambdaboard high density 35kg/m³ insulation or other equal or approved insulation</u>				
5.3.3.1		40mm Thick insulation attached to underside of purlins of side room roof as per manufacturer's specification	m²	27		
5.3.4		<u>CARPENTRY AND JOINERY</u>				
		<u>WOODEN ROOF TRUSS</u>				
5.3.4.1		Monopitch structural timber truss system with 3000mm span with one end 800mm high, other end with 600mm overhang, incl all fixings and bracing	Sum	1		
5.3.4.2		38 x 114mm wall plate	m	30		
5.3.4.3		50 x 76mm Purlins	m	119		
		<u>Everite pressed nutec-cement</u>				
5.3.4.4		12 x 225mm barge boards including galvanised steel H-profile jointing strips	m	17		
		<u>DOORS & DOOR FRAMES</u>				
		<u>Powder coated black aluminium doors & frames fixed to brickwork or concrete as per Finishing Schedule</u>				
CARRIED FORWARD						

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 SECTION: 5 CHLORINATION BUILDING

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
5.3.4.5		Frame for door to fit in clear opening space 900 x 2 280mm high	No.	1		Rate Only
5.3.4.6		Solid-panel outward-opening exterior single door dimensions to fit into above frame; c/w ss door handle and lock as per schedule	No	1		Rate Only
		<u>Purpose made side-hung wooden doors with wooden frames</u>				
5.3.4.7		50mm thick purpose made hardwood side-hung inward-opening 4-leaf double door to fit opening size 2 160mm wide x 4 590mm high. Lower leaf standard door height c/w powder-coated aluminium door handles, ss barrel lock and floor deadbolts. Upper leaf with deadbolts to ceiling and lower door and cut-out around i beam. All leaves with min 4 aluminium heavy-duty hinges	No.	2		
5.3.5		<u>CEILINGS, PARTITIONS ETC</u>				
		<u>9mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u>				
5.3.5.1		Ceilings including 38 x 38mm sawn softwood branderling at 400mm centres 2 730mm above FFL	m²	22		Rate Only
		<u>Rhino gypsum board cornices</u>				
5.3.5.2		75mm Coved cornices	m	22		Rate Only
5.3.6		<u>WINDOWS</u>				
		<u>Design, supply and install aluminium windows all in accordance with manufacturers specifications</u>				
		<u>Powder coated black aluminium windows, doors, etc glazed with 6mm laminated clear float glass, including sub-frames, glazing beads, ironmongery and silicone sealant all round, fixed to brickwork</u>				
5.3.6.1		Aluminium framed window (upper half top-hung, lower half fixed) size to fit clear opening 900 x 1 200mm high (W01)	No.	3		Rate Only
5.3.6.2		Aluminium framed fixed-pane window size to fit clear opening 1200x 950mm high (W02)	No.	2		Rate Only
5.3.7		<u>INTERNAL PLASTER</u>				
		<u>Cement plaster on brickwork</u>				
5.3.7.1		On walls	m²	220		Rate Only
5.3.7.2		On narrow widths	m²	3		Rate Only
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
5.3.8		BROUGHT FORWARD <u>PLUMBING AND DRAINAGE</u> <u>Aluminium seamless guttering</u>				
5.3.8.1		75 x 100mm Eaves gutters	m	10		
5.3.8.2		75x75 rainwater downpipes	m	12		
		<u>Extra over item 5.3.8.1 for:</u>				
5.3.8.3		Stopped end	No.	2		
		<u>Extra over item 5.3.8.2 for:</u>				
5.3.8.4		Shoe	No.	2		
5.3.8.5		Bend	No.	4		
5.3.8.6		Eaves or plinth offset 600mm projection	No.	2		
5.3.9		<u>PAINTWORK</u> <u>One coat masonry filler rubbed and sanded</u> <u>smooth to an approved finish, one oil-based</u> <u>bonding liquid coat, one undercoat and two</u> <u>coats Plascon Double Velvet paint</u>				
5.3.9.1		On internal plastered walls	m ²	300		Rate Only
		<u>Three coats Woodoc 50 exterior matt sealer</u>				
5.3.9.2		On wooden doors	m ²	50		Rate Only
		<u>Floor Coating</u> Floor coatings by Specialist SubContractor: Prepare surfaces and apply Stonkote 723 onto Stonprime 639 primed surfaces. Roller Coat: High build 0.5mm roller application at 4 to 5m ² /litre/coat, 2 coats required.				
5.3.9.3		All Chlorinator Building room floors	m ²	120		
5.3.9.4		skirtings (100mm high)	m	62		
TOTAL FOR SECTION 5 CARRIED FORWARD TO SUMMARY						

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 SECTION: 6 MINOR CONCRETE STRUCTURES

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
6.1	SANS 1200 D	<u><i>This Section covers the following:</i></u> - Retaining structure around interlinking clear water pipeline between filter buildings. See Dwg DET-220-10 - Sludge Chamber. See Dwg DET-250-01 - Backwash Chamber. See Dwg DET-250-01 - Raise the central well wall on the two more recently-constructed Clariflocculators EARTHWORKS				
6.1.1	PSD8.3.3	<u>RESTRICTED EXCAVATION</u>				
6.1.1.1		Excavation in all materials for foundations and use for backfill or spoil	m ³	100		
		<u>Extra-over item 6.1.1.1 for</u>				
6.1.1.2		Hard rock using jack hammer	m ³	40		
6.1.1.3		Hard rock using expanding grout	m ³	10		
	8.3.5	<u>Extra excavation in all materials to provide working space around structures:</u>				
6.1.1.4		Retaining structure between filter buildings	m ²	12		
6.1.1.5		Sludge Chamber	m ²	9		
6.1.1.6		Backwash Chamber	m ²	7		
	8.3.4	<u>Preparation of foundation surface</u>				
	8.3.4(b)	<u>Backfill of overbreak (within 150mm overbreak allowance; beyond 150mm to Contractor's account))</u>				
6.1.1.7		Supply G2 crusher run, place and compact in 150mm layers under floor compacted to 100% mod AASHTO density and trim to line and level ready to receive no-fines blinding layer	m ³	20		
6.1.1.8		Backfill with 15 MPa mass concrete where directed by the Engineer and shape to line and level ready to receive no-fines blinding layer	m ³	10		
6.2	SANS 1200 G	CONCRETE (STRUCTURAL)				
6.2.1	PSG8.1.1	<u>FORMWORK</u>				
		<u>Retaining structure between filter buildings (Drg DET220-10)</u>				
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
		Rough, vertical plane to elements				
6.2.1.1		Sides of footing slab (narrow width up to 300mm)	m	20		
6.2.1.2		Smooth plain vertical to ends of walls (narrow widths up to 300mm)	m	12		
	8.2.2	Smooth, vertical plane to elements				
6.2.1.3		Walls (interior & exterior)	m ²	100		
	8.2.6	<u>Box out holes suitable for:</u>				
6.2.1.4		DN600 pipe	No.	1		
		<u>Sludge Chamber</u>				
6.2.1.5	8.2.2	Smooth vertical plane to external and internal walls	m ²	105		
	8.2.6	<u>Box out holes suitable for:</u>				
6.2.1.6		DN300 pipe	No.	4		
		<u>Backwash Chamber</u>				
6.2.1.7	8.2.2	Smooth, plane vertical to walls (interior & exterior)	m ²	35		
6.2.1.8		Smooth horizontal to roof slab	m ²	10		
	8.2.6	<u>Box out holes suitable for:</u>				
6.2.1.9		DN600 pipe	No.	1		
6.2.2	PSG8.1.2	<u>REINFORCEMENT</u>				
		<u>All Structures</u>				
6.2.2.1	8.3.1	Mild steel bars	t	1		
6.2.2.2	8.3.1 8.1.2.3 a)	High-Tensile Steel bars	t	9		
6.2.3	PSG8.1.3	<u>CONCRETE</u>				
		<u>Retaining structure between filter buildings (Org DET220-10):</u>				
6.2.3.1	8.4.2	50mm blinding layer in Grade 15 MPa/19 mm Concrete	m ³	1		
	8.4.3	Grade 25 MPa/19 mm in:				
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
6.2.3.2		Walls	m ³	18		
6.2.3.3		Floor / footings	m ³	4		
	8.4.4	<u>Unformed Surface Finishes</u>				
	b)	<u>Steel-floated finish to:</u>				
6.2.3.4		Top of walls	m ²	5		
		Sludge Chamber				
6.2.3.5	8.4.2	50mm blinding layer in Grade 15 MPa/19 mm Concrete	m ²	4		
	8.4.3	<u>Strength Concrete</u>				
		Grade 25 MPa/19 mm in:				
6.2.3.6		Mass concrete benching where specified by engineer	m ³	2		
	8.4.3	Grade 25 MPa/19 mm in:				
6.2.3.7		Walls	m ³	20		
6.2.3.8		Floor Slab	m ³	4		
	8.4.4	<u>Unformed Surface Finishes</u>				
	b)	<u>Steel-floated finish to:</u>				
6.2.3.9		Tops of walls	m ²	10		
6.2.3.10		exposed footings	m ²	10		
		Backwash Chamber				
6.2.3.11	8.4.2	50mm blinding layer in Grade 15 MPa/19 mm Concrete	m ²	4		
6.2.3.12	8.4.2	Benching in Grade 25 MPa/19 mm Concrete	m ³	3		
	8.4.3	<u>Strength Concrete Grade 25 MPa/19 mm in:</u>				
6.2.3.13		Walls	m ³	6		
6.2.3.14		Floor Slab	m ³	3		
		Manufacture and erect precast reinforced concrete access lid as per drawing DET-250-01 for spent backwash chamber, including supply & cast-in 550 dia heavy duty SW cast iron manhole & frame (type 2B)				
6.2.3.15		2100x2100x200 slab	No	1		
	8.4.4	<u>Unformed Surface Finishes</u>				
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
	b)	Steel-floated finish to:				
6.2.3.16		Benching	m ²	5		
6.2.3.17		Roof slab	m ²	5		
6.2.4		<u>JOINTS</u>				
		<u>All Small Concrete Works</u>				
		<i>Construction joints</i>				
		Plain horizontal wall Construction joint:				
6.2.4.1		In Chambers	m	30		
6.2.4.2		Horizontal wall joint with 250mm galvanised water bar (water retaining):	m	30		
		<u>With 250mm galvanised waterbar, in 300 mm thick walls</u>				
6.2.4.3		In Chambers	m	60		
6.2.5		<u>GROUTING</u>				
		<u>All Small Concrete Works</u>				
		Cast in pipe of diameters:				
6.2.5.1		up to and incl DN300	No.	4		
6.2.5.2		greater than DN300	No.	3		
6.3	SANS 1200 H	STRUCTURAL STEELWORK (SUNDRY ITEMS)				
	PSH8.3	Supply, fabrication, corrosion protection, delivery and erection, shop drawings of steelwork complete				
6.3.1		<u>Sludge Chamber (Drg DET250-01):</u>				
	8.3.7 c)	Supply and install GMS handrails, and stanchions including all fixings DWG STD 200/201				
6.3.1.1	2)	Stanchions complete	No.	10		
6.3.1.2	1)	Hand and knee rails compete (both rails measured as a single linear distance)	m	24		
6.3.1.3	3)	End closure	No.	2		
6.3.1.4	3)	Bends (All angles) (both rails bends measured as a single Bend)	No	8		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
6.4		BROUGHT FORWARD				
6.4.1		MISCELLANIOUS				
		Raise the central well wall on the two more recently-constructed Clariflocculators (to prevent central well overflowing into main tank under high flow conditions)				
		<i>Note 1: Water level can be lowered ~1m so workers can work off a ladder suspended from the rotating bridge</i>				
		<i>Note 2: Bridge can be moved incrementally as required</i>				
		<i>Note 3: Workers to wear life jackets and be able to swim</i>				
		<i>Note 4: Diameter to centre of well wall is 7.03m (22.1m circumference)</i>				
6.4.1.1	PSA8-13	Make all arrangements for temporary access (incl liaising with Waterworks Supervisor), then clean central well wall tops by hand using wire brush, then rinse-off all loose material, ready to add capping	No.	2		
6.4.1.2		Supply 200x100x60mm thick concrete paver bricks (SABS 1058 30MPa crush strength); "Corostone" or similar approved, and place end-to-end as capping on 200mm wide well wall (aligning with outer face of wall) bedded on ceramic tile adhesive mixed with latex bonding liquid (incl jointing between bricks)	No	220		
6.4.2		Modify existing raw water distribution channel for three new outlets to new clariflocculators (see Drg DET 200-01 & -02)				
		<i>NOTE: 3 new sluiceways and DN600 outlet pipes already fitted</i>				
6.4.2.1		Fabricate 304SS Tee-Keys for recently- fitted sluice gates exactly as per existing Tee-Key for older existing sluiceway (20mm dia 304L SS x 1.2m high shaft with cap top to fit 20mm square gate spindle & 600mm wide T- handle)	No	3		
6.4.2.2		Fabricate and install GMS access platforms for sluiceways as detailed on Drg /200-02, complete with GRP grating, GMS access ladders and handrailing	No.	3		
TOTAL FOR SECTION 6 CARRIED FORWARD TO SUMMARY						

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 BILL:
 SECTION: 7 INTERCONNECTING PIPEWORK

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		This Section covers: -DN600 GRP raw water pipework from Distribution channel to Clarifloculators, - DN600 GRP dogleg pipes from distrib box to clarifier inlets - DN450 HDPE settled water pipelines from Clarifloculators to Filter Building Inlet Manifold (NOTE: Inlet manifold incl in Section 4) - DN300 uPVC waste sludge drainage pipelines from Clarifloculators to discharge point - DN200 uPVC scour & underdrain pipelines from Filter Building to headwall - DN600 pipework linking new filter clear water outlet to adjoining filter structure - DN300 uPVC stormwater drain from Clarifier #8 to Sludge Chamber				
7.1	SANS 1200 DB	EARTHWORKS (TRENCHES)				
7.1.1	PSDB 8.3.2	<u>TRENCH EXCAVATION</u>				
		Excavate trench up to 3.0m deep in backfilled areas around structures, incl backfill and compact at OMC to 95% mod AASTO for:				
7.1.1.1		Pipes larger than DN 150 up to DN500	m	100		
		<u>All other pipelines</u>				
	8.3.2(a)	Excavate in all materials for trenches, backfill, compact and dispose of surplus unsuitable material, for pipes over DN160 pipe diameter and up to DN300 pipe diameter for uPVC pipes for depths				
		Over but not exceeding				
7.1.1.2		1.0 m 2.0 m	m	5		
7.1.1.3		2.0 m 3.0 m	m	7		
	8.3.2(a)	Excavate in all materials for trenches, backfill, compact and dispose of unsuitable material, for pipes over DN300 pipe diameter and up to DN600 pipe diameter for uPVC and HDPE pipes for depths				
		Over but not exceeding				
7.1.1.4		1.0 m 2.0 m	m	80		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
7.1.1.5		2.0 m 3.0 m	m	110		
7.1.1.6		3.0 m 4.0 m	m	10		
	8.3.2(a)	Excavate in all materials for trenches, backfill, compact and dispose of surplus unsuitable material, for pipes over DN600 pipe diameter and up to DN800 pipe diameter for pipes for depths				
		Over but not exceeding				
7.1.1.7		2.0 m 3.0 m	m	31		
7.1.1.8		3.0 m 4.0 m	m	3		
	PSDB 8.3.2(b)	<u>Extra-over items 7.1.1.2 to 7.1.1.8 for:</u>				
7.1.1.9	4)	Backfill stabilised with 8 % cement where directed by the Engineer (Typically all road crossings)	m ³	10		
7.1.1.10	7)	Intermediate weathered sandstone using 30t excavator fitted with Heavy Duty Hydraulic Breaker	m ³	200		
7.1.1.11	7)	Excavation in hard material (unweathered sandstone) using excavator-mounted heavy-duty hydraulic breaker (where approved by the Engineer)	m ³	150		
7.1.1.12	7)	Excavation across compacted road subbase (estimated to be Intermediate mudstone / siltstone material) using 30t excavator fitted with Heavy Duty Hydraulic Breaker for total trench depths (width of trench to suit) including reinstating after laying sleeves and compacting to 97% ModAASHTO	m ³	10		
7.1.1.13	7)	Hard rock by use of expanding grout where ordered by the engineer (typically up against pre built structures)	m ³	0		
7.1.2	8.3.4	<u>PARTICULAR ITEMS</u>				
	8.3.4(a)	<u>Shore trench where necessary in soft material for depths:</u>				
7.1.2.1		2.0 m 3.0 m	m	10		
7.1.2.2		3.0 m 4.0 m	m	30		
7.1.2.3		4.0 m 5.0 m	m	10		
7.1.2.4		5.0 m 6.0 m	m	5		
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
7.2	SANS 1200L	BROUGHT FORWARD				
		MEDIUM PRESSURE PIPELINES				
7.2.1		<u>mPVC Class 12 spigot & socket pipes</u>				
	PSL 8.2.1 a)	FREE ISSUE: Collect from storage on Site, handle, lay, bed, joint and backfill the following:				
7.2.1.1		DN300 (Pipelines 7, 8, 9 & 10 - waste sludge drainage and Clarifier stormwater drain pipe - DRG SW171)	m	78		
		SUPPLY, handle, lay, joint and backfill				
7.2.1.2		DN200 (Pipeline 12 - Filter tank scour)	m	14		
7.2.1.3		DN300 (Pipelines 7, 8, 9 & 10 - waste sludge drainage)	m	120		
7.2.1.4		Extra over item 7.2.1.2 for supply of:				
7.2.1.5		200 mm PN10 socketed flange adaptor	No	1		
	8.2.2	Extra over item 7.2.1.1 and 7.2.1.3 for supply of:				
7.2.1.6		DN300, 45 degree bends	No	1		
7.2.1.7		DN300, 22.5 degree bends **FREE ISSUE* item - collect from storage	No	2		
7.2.1.8		DN300, 22.5 degree bends	No	1		
7.2.2		<u>GRP PN6 SN5000 'Whiteline' constant OD pipes (Pipes FREE ISSUE)</u>				
	PSL 8.2.1 a)	Handle, lay, joint, bed and backfill the following complete with couplings:				
7.2.2.1		DN600 (Pipeline 11 - Spent Backwash Drain - approx 18m length)	Sum	1		
7.2.2.2	PSL 8.2.1 a)	Extra over item 7.2.2.1 for cutting short sections and casting-into structures each end complete with couplings:	Sum	1		
	8.2.2	Specialist Service Provider (Fibrepipe) to fabricate dog-leg DN600 GRP pipe to join 3No. Division Box outlets to 3 No. Clarifier inlets at foundation level				
7.2.2.3		Service Provider's charges	PC Sum	1	180 000.00	180 000.00
7.2.2.4		Overheads, Charges and Profit on item 7.2.2.3 above	%	180 000.00		
7.2.3		<u>HDPE PN6 PE100</u>				
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
7.2.3.1	PSL 8.2.1 a)	Supply, handle, fusion-joint, bed and test HDPE pressure pipe: 450 mm diameter OD (Pipelines 4, 5 & 6 - settled water from clarifiers to filters)	m	140		
7.2.3.2	PSL 8.2.1 a)	Extra over items 7.2.3.1 for supplying and fusion-welding stub flanges with GMS backing rings c/w GMS nuts, bolts and washers for connection to HDPE stub-flanged bends of the following OD size: 450 mm OD	No	10		
7.2.3.3	PSL 8.2.1 a)	Extra over item 7.2.3.1 for supplying and fusion-welding stub flanges with non-standard size GMS backing rings for connection to steel pipe flanges of the following flange sizes (including supply of GMS nuts, bolts & washers): DN flange on DN500 specials	No	6		
7.2.3.4	8.2.2	FREE ISSUE items: Extra over item 7.2.3.1 for collect from storage & install HDPE pipe bends, complete with stub flange and GMS backing rings 450 mm OD, 61 to 90 degrees	No	1		
7.2.3.5		450 mm OD, 30 to 60 degrees	No	4		
7.3	SANS 1200LB	PIPE BEDDING				
	8.2.1	<u>Provision of approved 'sibunga' bedding from commercial sources:</u>				
7.3.1	a)	Selected bedding material (flexible pipes)	m³	120		
7.3.2	b)	Selected fill material (blanket)	m³	30		
7.3.3		Extra over all pipe lay items for 6% cement stabilised bedding material around pipe (to 300mm above crown) for pipes crossing under roads or where directed by the Engineer	m³	10		
7.4	SABS 1200 L	FILTER BUILDING: CLEAR WATER OUTLET PIPEWORK Refer to Dwg J31067-DET-220-10 Retaining wall (with box-outs) built 1st. Pipe specials assembled on temporary & permanent supports, then grouted into structures each end, then backfilled behind retaining wall (no trenching or excavation involved)				
CARRIED FORWARD						

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ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
7.4.1		Item A1 is existing DN1000 PN10 flanged epoxy-coated mild steel puddle-pipe in older existing filter structure, complete with blank flange Arrange with Thornhill Works Superintendent to isolate and drain older filter structure so that the blank flange on item A1 can be removed. Flange face to be cleaned and prepared ready to receive new gasket and inner epoxy coating abraided to sound surface (to Engineer's approval) and repainted with 2 coats of approved surface-tolerant two-pack solvent-free epoxy paint ready to fit item A7	Sum	1		
7.4.2		Item A7: Collect FREE ISSUE DN1000 x DN600 special from storage on Site, test & repair epoxy coating (measured separately), supply new DN1000 PN10 fibre gasket and bolts and fit item A7 to item A1	Sum	1		
7.4.3		Item A2: Supply and fit DN600 PN10 ductile iron double-flanged double-eccentric isolating butterfly valve (c/w fibre gasket, nuts and bolts) to A7.	No.	1		
7.4.4		Item A3: Supply and fit DN600 PN10 restrained dismantling joint (c/w fibre gasket and nuts and bolts) and fit to A2.	No.	1		
7.4.5		Item A4: Collect FREE ISSUE DN600 PN10 flanged 304L special from storage on Site, supply fibre gasket and GMS nuts and bolts and fit through box-out in concrete retaining wall onto item A3	Sum	1		
7.4.6		Item A5: Collect FREE ISSUE DN600 PN10 flanged 304L special from storage on Site, supply fibre gasket and SS nuts and bolts and fit through box-out in concrete filter wall and onto item A4 (incl temporary supports until permanent concrete supports added and pipe cast into filter wall)	Sum	1		
7.4.7		Extra-over item 7.4.6 for constructing permanent 500 x500 25MPa/20 mass concrete support block (~ 1.5m high founded on solid rock) under pipe bend (before casting-in pipe in filter wall).	Sum	1		
7.4.8		Extra-over item 7.4.6 for preparing edges of box-out, applying swellable seals to box-out surfaces and pipe surface (as per Detail A2 on drg DET 220-11), supplying and fixing shuttering and casting-in pipe with approved polymer-modified waterproof grout	Sum	1		
CARRIED FORWARD						

CONTRACT: ORTDM SCMU 15_26-27
CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
BILL:
SECTION: 7 INTERCONNECTING PIPEWORK

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
7.5	SABS 1200 L	BROUGHT FORWARD SLUDGE DRAINAGE CHAMBER PIPEWORK Refer to Dwg J31067-DET-250-01				
7.5.1		Cast-in 300 uPVC drain pipes into wall box-outs	No	4		
7.6	SABS 1200 L	SPENT BACKWASH CHAMBER PIPEWORK Refer to Dwg J31067-DET-250-01 Existing DN800 steel pipeline from existing filter building to sludge ponds:				
7.6.1		Cut 1500mm long by half pipe depth window on existing steel pipeline after the backwash chamber has been constructed	Sum	1		
7.7		MISCELLANEOUS				
7.7.1		<u>FILTER BUILDING SCOUR VALVE CHAMBER</u>				
	PSLE 8.2.14	Construct complete as per Drawing No J31067/LAY-120-05: Detail 1				
7.7.1.1		Supply DN200 PN10 wedge-gate scour valve (with cap-top) and precast concrete chamber and 400x400 GMS hinged cover & frame cast into cover slab complete and DN200 socketed flange adaptor to suit DN200 uPVC discharge pipe (discharge pipe measured seperately)	Sum	1		
7.7.2		<u>HEADWALL</u>				
	PSLE 8.2.14	Construct complete as per Drawing No J31067/LAY-120-05				
7.7.2.1		Build-in 200mm uPVC scour pipe and 100mm subsoil drain pipe as shown on Detail 02	No	1		
7.7.3	PSLE 8.2.14	<u>SLUDE DRAINAGE MANHOLES</u>				
		Construct precast concrete manholes complete per as Detail A on Drawing No. LAY-120-03 for depths:				
		Over and up to				
7.7.3.1		1.0 m to 2.0 m	No	2		
7.7.3.2		2.0 m to 4.0 m	No	2		
TOTAL FOR SECTION 7 CARRIED FORWARD TO SUMMARY						

CONTRACT: ORTDM SCMU 15_26-27
CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
BILL:
SECTION: 8 SITE WORKS

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
8.1		This Section covers - Modifications & extensions to internal access roads, - Backfilling existing structures & landscaping - Stormwater drain MH at Clarifier #8 - Dry stack retaining walls BACKFILL AROUND STRUCTURES & LANDSCAPING				
8.1.1	SANS 1200 D	<u>EARTHWORKS</u>				
8.1.1.1		Load soft material (contaminated with some blast rock) from various temporary stockpiles just outside waterworks boundary, select-out boulders > 300mm dia, spread as backfill around lower levels of clarifiers and behind filters in layers not exceeding 300mm including conditioning to OMC and compacting to 93% modAASHTO	m ³	600		
8.1.1.2		Extra-over item 8.1.1.1 for selecting-out boulders > 300mm dia and disposing of same to spoil site within 600m	m ³	50		
8.1.1.3		Import selected soft material (G7) suitable for general backfill from commercial sources and spread as backfill around upper levels of clarifiers and behind filters & general landscaping in layers not exceeding 200mm including conditioning to OMC and compacting to 93% modAASHTO	m ³	7400		
8.1.1.4		Extra-over items 8.1.1.3 for carefully landscaping to Engineer's direction on Site and removing all surface stones and debris >40mm dia and compacting ready to receive topsoil layer	m ²	2800		
	8.3.4	<u>TOPSOIL</u>				
8.1.1.5	8.3.10	Import topsoil from commercial sources and deliver to Site	m ³	420		
8.1.1.6		Spread topsoil in 150mm layer to all landscaped areas ready to plant grass	m ²	2800		
	8.3.11	<u>GRASSING</u>				
8.1.1.7		Supply, deliver and lay Pennisetum clandestinum (Kikuyu) or similar approved local grass sods to topsoiled areas	m ²	2800		
CARRIED FORWARD						

CONTRACT: ORTDM SCMU 15_26-27
CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
BILL:
SECTION: 8 SITE WORKS

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
8.1.1.8		BROUGHT FORWARD Maintain (water and weed and cut) grass) until at least 80% coverage is achieved	m ²	2800		
8.2		ENTRANCE GATE & CHLORINATION BUILDING ACCESS				
8.2.1	SABS 1200 D	<u>EARTHWORKS</u>				
8.2.1.1	8.3.2(a)	Cut to fill (or to temporary stockpile) in all soil material including conditioning to OMC and compacting to 98% mod AASHTO and trimming and compacting surfaces to line and level	m ³	50		Rate Only
8.2.1.2	8.3.2(b)	Extra over Item 8.2.1.1 for hard rock excavation (using jack hammer)	m ³	2		Rate Only
8.2.2	SANS 1200DM	<u>ROAD EARTHWORKS</u>				
8.2.2.1	8.3.3 (a)	Rip and re-compact insitu material 150mm deep to 98% MOD AASHTO as directed by the Engineer	m ³	20.4		Rate Only
8.2.3	SABS 1200ME	<u>BASE</u>				
8.2.3.1	8.3.3	Construct 150mm layer of G2 base compacted to 100% of Mod AASHTO density material to be imported from commercial source.	m ³	20.4		Rate Only
8.2.4	SABS 1200MH	<u>BLOCK PAVING</u>				
8.2.4.1		Uplift and recover pavers in damaged driveway area by entrance gate, prepare surfaces to line and level and re-lay with 20mm fine sand bedding	m ²	50		Rate Only
8.2.4.2	8.5.3	Supply and Install Concrete segmented paving blocks (Type SA, 80 mm thick), complete with 20mm fine sand bedding	m ²	150		Rate Only
8.2.4.3	8.2.3	Straight Edge Cutting to Fit Kerbs	m	86		Rate Only
8.2.4.4	8.2.3	Edge Cutting on a curve to Fit Kerbs	m	10		Rate Only
8.2.5		<u>MODIFICATIONS TO FENCE & GATE</u> Remove ~18m section of existing fence and replace with ~10m of re-aligned new fence + additional double-leaf entrance gate See drg LAY 101 <u>2.6m high High "Anti-Climb" Perimeter Fence</u>				
CARRIED FORWARD						

CONTRACT: ORTDM SCMU 15_26-27
CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
BILL:
SECTION: 8 SITE WORKS

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
8.2.5.1		Remove and dispose-of existing section of fence	Sum	1		
8.2.5.2	PSA13	Supply and install new fence complete including excavation, mass concrete footings and ground beam (see drg STD 30)	Sum	1		
8.2.5.3	PSA13	Supply and construct additional access double leaf (3 + 3m) gate to match new fencing (see drg STD 31)	No.	1		
8.2.6	SABS 1200MK	<u>KERBING</u>				
		Precast kerbing to SABS 927: Figure 12 kerb(150 x 75 edge restraint) including concrete backing and haunching to road edge				
8.2.6.1	8.2.2	b)Radius over 20m and straight section	m	22		Rate Only
		Precast kerbing to SABS 927: Figure 6 kerb (250 x 125 mountable) including concrete backing and haunching to road edge				
8.2.6.2	8.2.2	a)Radius <20m	m	10		Rate Only
8.2.6.3	8.2.2	b)Radius over 20m and straight section	m	80		Rate Only
8.3		NEW FILTER BUILDING ACCESS				
8.3.1	SABS 1200 D	<u>EARTHWORKS</u>				
8.3.1.1	8.3.2(a)	Cut to fill (or to temporary stockpile) in all soil material including conditioning to OMC and compacting to 98% mod AASHTO and trimming and compacting surfaces to line and level	m³	20		Rate Only
8.3.1.2	8.3.2(b)	Extra over Item 8.3.1.1 for hard rock excavation (using jack hammer)	m³	2		Rate Only
8.3.2	SABS 1200 DM	<u>ROAD EARTHWORKS</u>				
8.3.2.1	8.3.3 (a)	Rip and Re-compact insitu material 150mm deep to 98% MOD AASHTO in areas with poor insitu material as directed by the Engineer	m³	81		Rate Only
8.3.3	SABS 1200ME	<u>SUBBASE</u>				
8.3.3.1	8.3.3	Construct 150mm layer of G5 subbase compacted to 98% of Mod AASHTO density material to be imported from commercial source.	m³	90		Rate Only
8.3.4	SABS 1200MF	<u>BASE</u>				
CARRIED FORWARD						

CONTRACT: ORTDM SCMU 15_26-27
 CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
 BILL:
 SECTION: 8 SITE WORKS

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
8.3.4.1	8.3.3	Construct 150mm layer of G2 base compacted to 100% of Mod AASHTO density material to be imported from commercial source.	m ³	81		Rate Only
8.3.5	SABS 1200MH	<u>BLOCK PAVING</u>				
8.3.5.1	8.5.3	Supply and Install Concrete segmented paving blocks (Type SA, 80 mm thick), complete with 20mm fine sand bedding	m ²	540		Rate Only
8.3.5.2	8.2.3	Straight Edge Cutting to Fit Kerbs	m	173		Rate Only
8.3.5.3	8.2.3	Edge Cutting on a curve to Fit Kerbs	m	2		Rate Only
8.3.6	SABS 1200MK	<u>KERBING</u>				
		Precast kerbing to SABS 927: Figure 12 kerb including concrete backing and haunching to road edge				
8.3.6.1	8.2.2	b)Radius over 20m and straight section	m	80		Rate Only
	SABS 1200MK	Precast kerbing to SABS 927: Figure 4 kerb including concrete backing and haunching to road edge				
8.3.6.2	8.2.2	a)Radius <20m	m	2		Rate Only
8.3.6.3	8.2.2	b)Radius over 20m and straight section	m	8		Rate Only
	SABS 1200MK	1m Cast insitu transition kerb between Figure 4 and Figure 12 20/19 grade concrete				
8.3.6.4	8.2.2	Radius over 20m and straight section	m	1		Rate Only
8.4		STORMWATER CATCHPIT				
		See Drg SW 171. Excavation measured under Section 3: Clariflocculators				
8.4.1		Supply all materials and construct drop inlet brick & concrete manhole ~ 1.8m deep as per drawing, incl 600x600 CI grating & frame	Sum	1		Rate Only
8.4.2		Supply all materials and construct brick retaining wall 215mm wide, ~6.6m long, ~1.3m high as per drawing (mass concrete foundation and slab measured under other conc items)	Sum	1		Rate Only
8.5	SANS 1200 G	DRY-STACK CONCRETE BLOCK RETAINING WALLS				
8.5.1		<u>Dry-Stack Retaining Block Foundations</u>				
		High Tensile Steel reinforcement				
CARRIED FORWARD						

CONTRACT: ORTDM SCMU 15_26-27
CONTRACT TITLE: THORNHILL WTW Ph3 CIVILS COMPLETION
BILL:
SECTION: 8 SITE WORKS

BILL OF QUANTITIES

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE R	AMOUNT R
		BROUGHT FORWARD				
8.5.1.1	8.3.1	8mm to 12mm Concrete	t	1		
8.5.1.2	8.4.2	50mm Blinding 15 MPa/19mm	m ²	60		
8.5.1.3	8.4.3	15 MPa/19 mm Concrete footings to dry laid precast concrete block wall	m ³	24		
8.5.2		<u>Design, supply and construct dry-stack precast concrete block wall at 65°. Refer to dwg STD-712 for more details</u> Type L13 Terraforce Block or similar approved for heights as follows:				
8.5.2.1		a) over 0m up to and including 1.25m	m ²	150		
8.5.2.2		b) over 1.25m up to and including 2.025m	m ²	100		
8.5.2.3		c) over 2.025m up to and including 3m Backfill and subsoil drainage	m ²	80		
8.5.2.4	8.3.9	Import selected granular material G6, place, spread, compact and backfill behind retaining wall to density as specified, including benching, finishing off to levels specified and compacted in 150mm layers 95% MOD AASHTO	m ³	200		
8.6	SABS 1200 DK	GABIONS & PITCHING				
8.6.1	8.2.1(a)	Surface preparations for bedding of gabions Supply & install gabions: Hexagonal nominal 80mm galvanised and PVC coated wire mesh	m ²	10		
8.6.2	8.2.2	1m x 2m gabions box c/w approved hand stones Supply and lay non- woven geotextile (minimum mass 270g/m2)	m ³	80		
8.6.3	8.2.4	Below and on sides of gabions	m ²	120		
TOTAL FOR SECTION 8 CARRIED FORWARD TO SUMMARY						

Summary of Bill of Quantities

BILL OF QUANTITIES

AMOUNT

SECTION NO 1 : PRELIMINARY AND GENERAL	R.....
SECTION NO 2 : PROVISIONAL SUMS AND DAYWORKS	R.....
SECTION NO 3 : CLARIFLOCCULATORS	R.....
SECTION NO 4 : RAPID GRAVITY FILTER BUILDING	R.....
SECTION NO 5 : CHLORINATION BUILDING	R.....
SECTION NO 6 : MINOR CONCRETE STRUCTURES	R.....
SECTION NO 7 : INTERCONNECTING PIPEWORK	R.....
SECTION NO 8 : SITE WORKS	R.....

A: NETT TOTAL OF TENDER.....**R**.....

B: ALLOWANCE FOR CONTINGENCIES: ADD 10% OF SUBTOTAL (A)R

C: TOTAL INCLUDING CONTINGENCIES (A + B).....**R**.....

D: ALLOWANCE FOR ESCALATION: ADD 8% OF SUBTOTAL CR.....

E: TOTAL INCLUDING ESCALATION (C + D).....**R**.....

F: ALLOWANCE FOR VAT: ADD 15% OF SUBTOTAL ER.....

**GROSS TOTAL OF TENDER (E + F) CARRIED TO PART C1.1 FORM OF OFFER AND
ACCEPTANCE**.....**R**.....

**NOTE: Any amendment / omission / addition / change to the added percentages or
summations above will result in the tender being ruled a material deviation and
therefore non-responsive**

SIGNED BY/ON BEHALF OF TENDERER

NAME

SIGNATURE

DATE

COMPANY STAMP

Declaration

In respect of completeness of Tender

The Municipal Manager
O. R. Tambo District Municipality
Private Bag X6043
MTHATHA
5099

I/we, the undersigned, do hereby declare that these are the properly priced Bills of Quantities forming part C2.2 of this Contract Document upon which my/our tender for the **COMPLETION OF THORNHILL WTW Ph3 UPGRADE (80MI/d to 115MI/d): CIVIL WORKS** has been based.

SIGNED BY/ON BEHALF OF TENDERER

NAME

SIGNATURE

DATE