

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

TENDER NO: 088S/2026/27

TENDER DESCRIPTION: PROVISION OF OPERATION, MAINTENANCE AND MANAGEMENT SERVICES FOR THE ZANDVLIT WASTEWATER TREATMENT WORKS, BLACK MAC SCREENING STATION AND ASSOCIATED SERVICES

CONTRACT PERIOD: 300 MONTHS FROM THE COMMENCEMENT DATE OF THE CONTRACT, SUBJECT TO SECTION 33 APPROVAL PROCESS.

CLOSING DATE 11 November 2026

CLOSING TIME 10:00 am

TENDER BOX NUMBER 190

TENDER FEE R 200

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

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

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

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

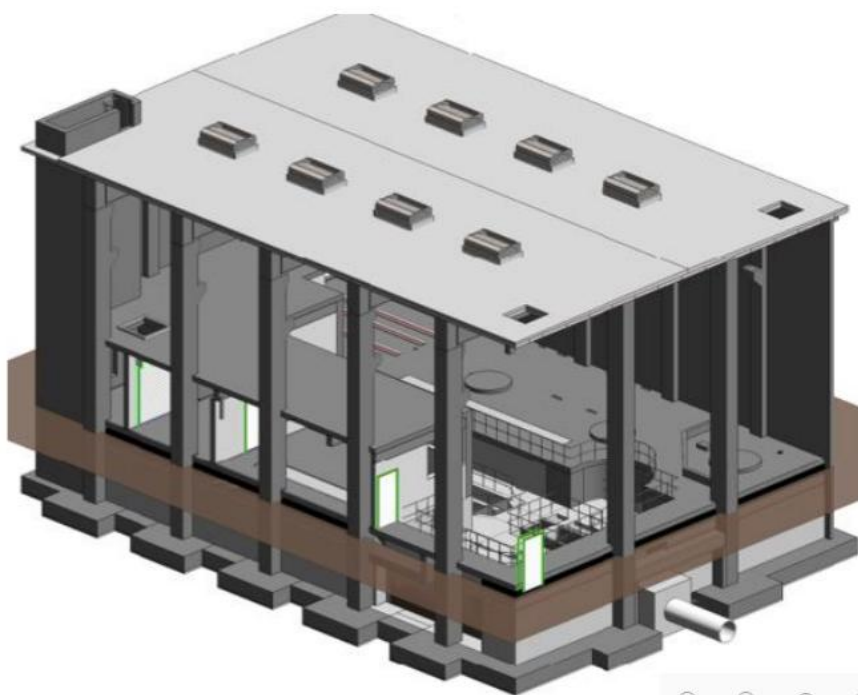
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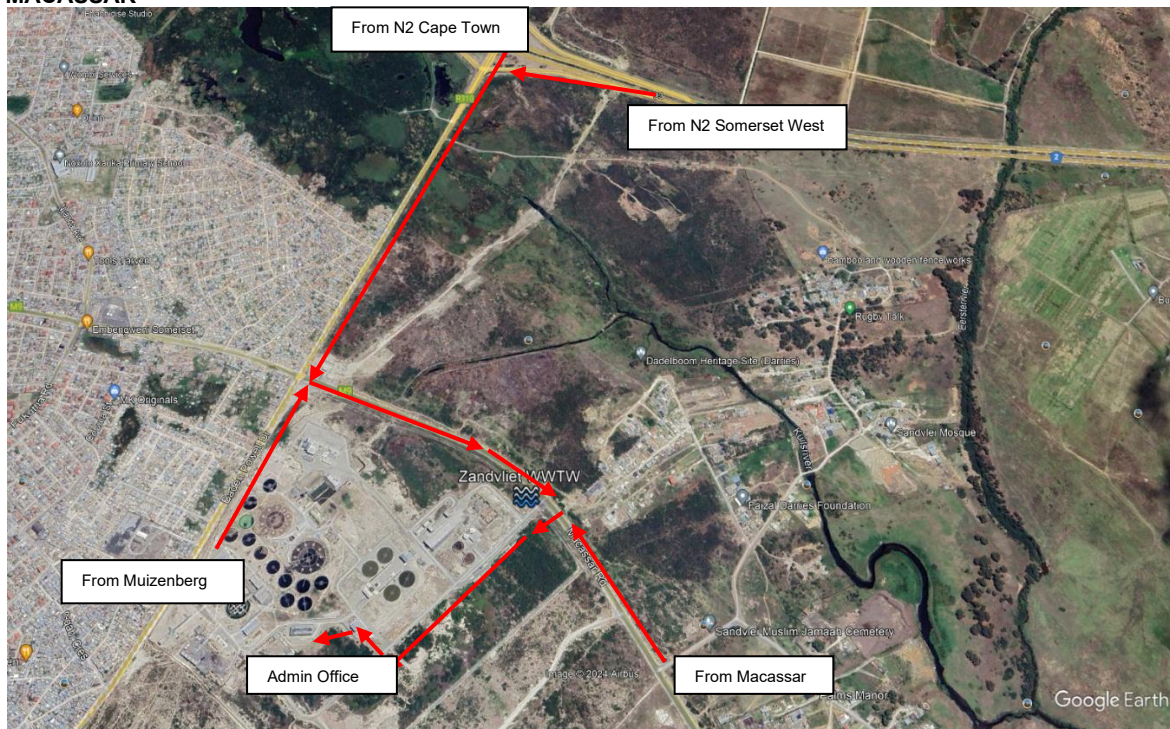
Zandvliet WWTW



Black Mac Screening Station

LOCALITY PLAN – SITE VISIT/CLARIFICATION MEETING VENUE

**ADMINISTRATION BUILDING
ZANDVLIET WASTEWATER TREATMENT WORKS
CNR OF MACASSAR & BADEN POWELL ROAD
MACASSAR**



CITY OF CAPE TOWN

BULK SERVICES DIRECTORATE

WATER AND SANITATION

TENDER NO: 088S/2026/27

TENDER DESCRIPTION: PROVISION OF OPERATION, MAINTENANCE AND MANAGEMENT SERVICES FOR THE ZANDVLIET WASTEWATER TREATMENT WORKS, BLACK MAC SCREENING STATION AND ASSOCIATED SERVICES

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THE TENDER

T.1 GENERAL TENDER INFORMATION

TENDER ADVERTISED	:	09 October 2026
COMPULSORY SITE VISIT/CLARIFICATION MEETING :	Time: 10:00 on Date: 23 October 2026 Compulsory	
VENUE FOR SITE VISIT/CLARIFICATION MEETING:	ADMINISTRATION BUILDING ZANDVLIET WASTEWATER TREATMENT WORKS CNR OF MACASSAR & BADEN POWELL ROAD MACASSAR	
TENDER BOX & ADDRESS	:	Tender Box as per front cover at the Tender & Quotation Boxes Office , 2 nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town.
	:	The Tender Document (which includes the Form of Offer and Acceptance) completed and signed in all respects, plus any additional supporting documents required, must be submitted in a sealed envelope with the name and address of the tenderer, the endorsement “ TENDER DESCRIPTION: PROVISION OF OPERATION, MAINTENANCE AND MANAGEMENT SERVICES FOR THE ZANDVLIET WASTEWATER TREATMENT WORKS, BLACK MAC SCREENING STATION AND ASSOCIATED SERVICES ”, the tender box number. and the closing date indicated on the envelope. The sealed envelope must be inserted into the appropriate official tender box before closing time. If the tender offer is too large to fit into the abovementioned box or the box is full, please enquire at the public counter (Tender Distribution Office) for alternative instructions. It remains the tenderer's responsibility to ensure that the tender is placed in either the original box or as alternatively instructed.
		This tender is subject to a Section 33 process in terms of the Municipal Finance Management Act, 56 of 2003
CCT TENDER REPRESENTATIVE	:	Email: scm.tenders7@capetown.gov.za

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

T.2 CONDITIONS OF TENDER

2.1 General

2.1.1 Actions

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

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

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

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

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

2.1.2 Interpretation

2.1.2.1 The additional requirements contained in Annexure F to the contract (hereinafter referred to as the “returnable documents” / “Returnable Schedules”) and the Tender Data (T.3) are part of these Conditions of Tender and are specifically hereby incorporated into these Conditions of Tender.

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

2.1.3 Communication during tender process

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

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

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

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

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

2.1.5 Procurement procedures

2.1.5.1 General

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

The CCT intends to appoint a single tenderer for the allocation of work. If insufficient responsive bids are received, the CCT reserves the right not to appoint a tenderer at all.

The contract period shall be for a period of **300** months from the commencement date of the contract, subject to Section 33 approval process.

2.1.5.2 Proposal procedure using the two stage-system

A two-stage system **will not** be followed

2.1.5.3 Nomination of Standby Bidder

"Standby Bidder" means a bidder, identified by the CCT at the time of awarding a bid that will be considered for award should the contract not be signed by the Preferred Bidder for any reason whatsoever. In the event that a contract is not signed by the Preferred Bidder, the CCT may consider the award of the contract, or non-award, to the Standby Bidder in terms of the procedures included its SCM Policy, as amended from time to time.

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

2.1.6.1 Disputes, objections, complaints and queries

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

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

2.1.6.2 Appeals

- a) In terms of Section 62 of the Local Government: Municipal Systems Act, 32 of 2000 a person whose rights are affected by a decision taken by the CCT, may appeal against that decision by giving written notice of the appeal and reasons to the City Manager within 21 days of the date of the notification of the decision.
- b) An appeal must contain the following:

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

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

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

- 2.1.6.4** All requests referring to sub clauses 2.1.6.1 and 2.1.6.2 must be submitted in writing to:
The City Manager - C/o the Manager: Legal Compliance Unit, Legal Services Department, Office of the City Manager
Via hand delivery at: 20th Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001
Via post at: Private Bag X918, Cape Town, 8000
Via email at: MSA.Appeals@capetown.gov.za

- 2.1.6.5** All requests referring to clause 2.1.6.3 must be submitted in writing to:
The City Manager - C/o the Manager: Access to Information Unit, Legal Service Department, Office of the City Manager
Via hand delivery at: 20th Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001
Via post at: Private Bag X918, Cape Town, 8000
Via email at: Access2info.Act@capetown.gov.za

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

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

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

All requests relating to data protection must be submitted in writing to:
The City Manager - C/o the Information Officer, Office of the City Manager
Via hand delivery at: 20th Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001
Via post at: Private Bag X9181, Cape Town, 8000
Via email at: Popia@capetown.gov.za.

2.1.6.7 Compliance to the CCTs Appeals Policy.

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

The current approved administration fee is R300.00 and may be paid at any of the Municipal Offices or at the Civic Centre in Cape Town using the GL Data Capture Receipt attached as Annexure F.13: Appeal Application Form. Alternatively, via EFT into the CCT's NEDBANK Account: CITY OF CAPE TOWN and using Reference number: 198158966. You are required to send proof of payment when lodging your appeal.

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

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

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

2.1.7 CCT Supplier Database Registration

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

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

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

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

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

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

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

2.2 Tenderer's obligations

2.2.1 Eligibility Criteria

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

2.2.1.1.1 Submit a tender offer

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

2.2.1.1.2 Compliance with requirements of CCT SCM Policy and procedures

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

- a) A completed **Details of Tenderer** to be provided (applicable schedule below to be completed);

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

2.2.1.1.3 Compulsory clarification meeting

Tenderers are required to attend a **compulsory clarification meeting** at which they may familiarise themselves with aspects of the proposed work, services or supply and pose questions.

Details of the meeting(s) are stated in the General Tender Information

The tenderer's authorised representative at this meeting shall sign and complete the attendance register at site meeting.

Further site visits by tenderers will only be permitted after receipt of written approval by CCT. Dates for these additional-non-compulsory visits will be arranged by CCT, and an attendance register will be kept and minutes distributed. Tenderers will not be permitted to visit the Works at their own discretion.

Requests for clarification raised by any Tenderer and responses by CCT will be circulated to all Tenderers.

Only those tenders submitted by tenderers whose attendance at this meeting have been recorded, will be declared responsive.

2.2.1.1.4 Minimum score for functionality

Only those tenders submitted by tenderers who achieve the minimum score for functionality as stated below will be declared responsive.

The description of the functionality criteria and the maximum possible score for each is shown in the Tender Data. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.

The minimum qualifying score for functionality is 70 out of a maximum of 100.

Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information **IN THIS TENDER SUBMISSION** could result in the tenderer not being able to achieve the specified minimum scoring.

Where the entity tendering is a Joint Venture (including a Closed Corporation or Consortium), a joint venture agreement must be attached to Schedule F.2 of the Returnable Documents, clearly defining the participation and work share to be undertaken by each party to the Joint Venture (Attach to Schedule F.2). The Functionality scorecard will be assessed pro rata to participation and/or the aspects of work to be undertaken by each party to the Joint Venture. Each member of the Joint Venture must provide the information requested in the Returnable Schedules

The description of the Functionality criteria and the maximum possible score for each is shown in the table below. CCT shall review the Tenderers responses, including the Tenderer's:

- Experience (years) to be detailed in Schedule F.13.A
- Key Personnel qualifications and experience to be detailed in Schedule F.13.B
- GMR 2(1) Representative qualifications and experience to be detailed in Schedule F.13.B

CCT shall score each of the criteria up to a maximum number of points detailed in Table 2.2.1.1.4 below. The score achieved for Functionality will be the sum of the scores achieved for the individual criteria.

Table 2.2.1.1.4 – Functionality Scorecard

ITEM	CRITERIA		MAXIMUM SCORE
1	TENDERER'S EXPERIENCE: YEARS (Details to be provided in the Returnable Documents – Schedule F.13.A Tenderer's Experience – Years)		
1.1	Years managing, operating and maintaining a Class A wastewater treatment works, for Municipalities within South Africa. Contract Duration: • less than 1 year (points = 0) • 1-3 years (points = 3) • 3-5 years (points = 6) • 6-10 years (points = 15) • longer than 10 years (points = 20)		20
1.2	Contract duration of municipal Class A Wastewater Treatment Works with MBR Plant of 18 Ml/day capacity and larger, managed, operated and maintained by the bidder in South Africa. Contract Duration: • less than 3 year (points = 0) • 3-5 years (points = 5) • 6-10 years (points = 10) • longer than 10 years (points = 20)		20
1.3	Contract duration of municipal Class A Wastewater Treatment Works with sludge belt press facilities of capacity at least 45-ton dry solids per day total capacity, managed, operated and maintained by the bidder in South Africa Contract Duration: • less than 3 years (points = 0) • 3-5 years (points = 5) • 6-10 years (points = 10) • longer than 10 years (points = 15)		15

Tenderer's Experience

It is important that the tenderer has a verifiable, solid track record in managing, operating and maintaining municipal wastewater works in South Africa, similar to the specific process stream at the Zandvliet Wastewater Treatment Works. This will ensure that the tenderer brings the necessary experience and understanding of the challenges and dynamics of working in the wastewater sector within South Africa, not just from a management, operation and maintenance perspective, but as importantly, understanding and embracing the dynamics of the workforce, unions, and employment equity, legislative compliance as well as community and stakeholder interactions.

Tenderers must complete the Returnable Document-Schedule F.13.A: Tenderer's Experience: Years, which shall list all the management, operation and maintenance of Wastewater treatment works projects for municipalities in South Africa that have been successfully completed in the past ten years, or that are underway at present. This includes the evidence of a Conventional Activated Sludge Plant, Membrane Bio Reactor Plant and Sludge Dewatering Plant as per criteria requirements.

2	KEY PERSONNEL QUALIFICATIONS AND EXPERIENCE	
2.1	Provide details of Key Personnel, together with CV's and supporting documents in the Returnable Documents - Schedule F.13.B: Key Personnel. The Contract Manager must already be in the full-time employment of the bidder at the tender close date and must be immediately available from the contract Commencement Date. Contract Manager Detailed CV with experience in the management, operation and maintenance (M, O&M) of Wastewater Treatment Works with traceable references and a minimum SAQA recognised qualification of B.Sc. / B. Tech / National Higher Diploma in Chemical / Water / Civil Engineering. • less than 5 years M, O&M experience (points = 0) • 5 - 10 years M, O&M experience (points = 5) • >10 - 15 years M O&M experience (points = 8) • above 15 years M, O&M experience (points = 10)	10
2.2	Maintenance Manager Detailed CV with experience in the maintenance and repair of Wastewater Treatment Works with traceable references with a minimum SAQA recognised qualification of B.Tech. / National Higher Diploma – Mechanical / Electrical. • less than 5 years M&R experience (points = 0) • >5 - 8 years M&R experience (points = 3) • >8 -12 years M&R experience (points = 5) • above 12 years M&R experience (points = 10)	10
2.3	Plant Manager Detailed CV with experience in the management, operation and maintenance (O&M) of Wastewater Treatment Works with a minimum qualification of B.Tech. in Water Care / Chemical Engineering, with traceable references and registered as valid DWS Class V Process Controller. Tenderer to provide Classification Certificate • less than 5 years O&M experience (points = 0) • >5 - 10 years O&M experience (points = 3) • >10 - 15 years O&M experience (points = 5) • Above 15 years O&M experience (points = 10)	10
2.4	Assistant Plant Manager Detailed CV with experience in the management, operation and maintenance (O&M) of Wastewater Treatment Works with a minimum qualification of National Diploma, in Water Care / Chemical Engineering, with traceable references and registered as valid DWS Class V Process Controller. Tenderer to provide Classification Certificate • less than 2 years O&M experience (points = 0) • >2 - 5 years O&M experience (points = 3) • >5 – 10 years O&M experience (points = 5) • above 10 years O&M experience (points = 10)	10

2.5	GMR 2(1) Representative Detailed CV of full-time GMR 2(1) representative registered with the Department of Labour for electrical installations of over 3000kW. Qualification to be provided by tenderer. - No GMR 2(1) certified representative (points = 0) - Suitably certified GMR 2(1) based at the Works (points = 5)	5
	FUNCTIONALITY SCORECARD TOTAL	100

NOTE:

- Contract Manager must be in the permanent employment of the tendering entity of time of tender closure
- Maintenance Manager / Plant Manager / Assistant Manager is allowed to be Sub-Contracted, and a signed letter of undertaking or memorandum of understanding must be submitted by the tendering entity at tender closing

Key Personnel qualifications and experience

As the work required in terms of this tender is of a technically complex nature, requiring considerable expertise, it is essential that suitably qualified and experienced personnel be assigned to this project. Besides the qualifications, it is required that the key personnel demonstrate recent experience related to specific aspects of this project, as detailed in the functionality table namely the management, operation and maintenance of wastewater treatment work of a similar nature. Aside from submitting a detailed Curriculum Vitae & Qualifications Certificates for each of the key personnel, tenderers must submit a statement for each of the key personnel which highlights any particular fields of specialisation and experience that is relevant to this particular project. Details are to be provided in the Returnable Document – Schedule F1.13.B.

In order to be considered for an appointment in terms of this tender, the tenderer must have the following key personnel in its permanent employment, and such personnel shall be immediately available for this contract, on contract commencement. With the exception of the Contracts Manager, all such staff shall be based at the Works on a full-time basis.

Tenderers' key personnel submissions shall be evaluated in accordance with the Functionality scorecard contained herein. The key personnel must comply with the following, and tenderers must take into account that lower number of years' experience will be considered, but the evaluation score will be reduced as indicated in the scorecard.

The minimum key personnel qualification and experience requirements are as follows:

- A Contracts Manager, with either a B.Sc. / B. Tech / National Higher Diploma in Chemical / Water / Civil Engineering SAQA recognised qualification, verifiable experience in the management, operation and maintenance of a Class "A" Municipal Wastewater Treatment Works;
- A Maintenance Manager with a B.Tech/NHD SAQA recognised Mechanical qualification, verifiable post graduate experience in the maintenance, repair and replacement of Municipal or similar wastewater treatment works assets.
- A Plant Manager, with a valid Class V Process Controller registration (as per DWS classification) with a verifiable, minimum relevant B.Tech in Water Care / Chemical Engineering, in management, operation and maintenance at a similar size Class "A" wastewater treatment works, and at least 5 years' experience on MBR process streams.
- An Assistant Plant Manager with a valid Class V Process Controller registration (as per DWS classification) with a verifiable, minimum relevant ND in Water Care / Chemical Engineering in management, operation and maintenance experience at a similar size wastewater treatment works.
- A registered GMR2(1) appointment for supervision of machinery in excess of 3000 kW as per the Department of Labor's General Machinery Regulation of OHSA no 85/1993, namely a class (c) or (d); defined as follows:
(c) is a graduate engineer and has had not less than two years' post-graduate practical experience in the operation and maintenance appropriate to the class of machinery he is required to supervise and who has passed the examination on the Act and the regulations made thereunder, held by the Commission of Examiners in terms of

regulation E5(2) of the regulations published under Government Notice R929 of 28 June 1963; or
*(d) is **a certificated engineer**; - means any person to whom a certificate of competency referred to in regulation E1 (1) of the Regulations, published under Government Notice R.929 of 28 June 1963, has been granted and includes any person who is the holder of a certificate of competency in mechanical or electrotechnical engineering issued before 1 January 1966 under the Mines and Works Act, 1956 (Act 27 of 1956)*

A general Curriculum Vitae & Qualifications Certificates for GMR2(1), tenderers must submit a statement for personnel which highlights any particular fields of specialisation and experience that is relevant to this particular project. Details are to be provided in the Returnable Document – Schedule F1.13.B,

2.2.1.1.7 Provision of samples

Only those tenders submitted by tenderers who provided acceptable samples as stated in the Tender Specifications will be declared responsive.

2.2.2 Cost of tendering

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

2.2.3 Check documents

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

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

2.2.4 Confidentiality and copyright of documents

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

2.2.5 Reference documents

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

2.2.6 Acknowledge and comply with notices

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

2.2.7 Clarification meeting

The tenderer shall attend, where required, a clarification meeting at which tenderers may familiarise

themselves with aspects of the proposed work, services or supply and pose questions. Details of the meeting(s) are stated in the General Tender Information (i.e., in item T.1 above).

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

2.2.8 Seek clarification

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

2.2.9 Pricing the tender offer

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

2.2.10 Alterations to documents

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

2.2.11 Alternative tender offers

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

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

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

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

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

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

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

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

2.2.12 Submitting a tender offer

2.2.12.1 The tenderer is required to submit one tender offer only on the original tender documents as issued by the CCT, either as a single tendering entity or as a member in a joint venture to provide the whole of the works, services or supply identified in the Conditions of Contract and described in the Specifications. Only those tenders submitted on the tender documents as issued by the CCT together with all Tender Returnable Documents duly completed and signed will be declared responsive.

- 2.2.12.2** The tenderer shall return the entire tender document to the CCT after completing it in its entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.
- 2.2.12.3** The tenderer shall sign the original tender offer where required in terms of the Conditions of Tender. The tender shall be signed by a person duly authorised by the tenderer to do so. Tenders submitted by joint ventures of two or more firms shall be accompanied by the document of formation / founding document of the joint venture or any other document signed by all Parties, in which is defined precisely the conditions under which the joint venture will function, its period of duration, the persons authorised to represent and obligate it, the participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner.
- 2.2.12.4** Where a two-envelope system is required in terms of the Conditions of Tender, place and seal the returnable documents listed in the Conditions of Tender in an envelope marked “financial proposal” and place the remaining returnable documents in an envelope marked “technical proposal”. Each envelope shall state on the outside the CCT’s address and identification details stated in the General Tender Information (i.e., item T.1 above), as well as the tenderer's name and contact address.
- 2.2.12.5** The tenderer shall seal the original tender offer and copy packages together in an outer package that states on the outside only the CCT's address, and identification details as stated in the General Tender Information. If it is not possible to submit the original tender and the required copies (see 2.2.12.3) in a single envelope, then the tenderer must seal the original and each copy of the tender offer as separate packages marking the packages as “ORIGINAL” and “COPY” in addition to the aforementioned tender submission details.
- 2.2.12.6** The CCT shall not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.
- 2.2.12.7** Tender offers submitted by facsimile or e-mail will be rejected by the CCT, unless stated otherwise in the Conditions of Tender.
- 2.2.12.8** By signing the offer part of the Form of Offer (**Section C2- Form of Offer and Acceptance hereto**) the tenderer warrants and agrees that all information provided in the tender submission is true and correct.
- 2.2.12.9 Tenderers** shall properly deposit its bid in the designated tender box (as detailed on the front page of this tender document) on or before the closing date and before the closing time, in the relevant tender box at the Tender & Quotation Boxes Office situated on the 2nd floor, Concourse Level, Civic Centre, 12 Hertzog Boulevard, Cape Town. If the tender submission is too large to fit in the allocated box, please enquire at the public counter for assistance.
- 2.2.12.10** The tenderer must record and reference all information submitted contained in other documents for example cover letters, brochures, catalogues, etc. in the Returnable Schedule titled **List of Other Documents Attached by Tenderer**.

2.2.13 Information and data to be completed in all respects

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

2.2.14 Closing time

- 2.2.14.1** The tenderer shall ensure that the CCT receives the tender offer, together with all applicable documents specified herein, at the address specified in the General Tender Information herein prior to the closing time stated on the front page of the tender document.
- 2.2.14.2** If the CCT extends the closing time stated on the front page of the tender document for any reason, the requirements of these Conditions of Tender apply equally to the extended deadline.
- 2.2.14.3** The CCT shall not consider tenders that are received after the closing date and time for such a

tender (late tenders).

2.2.15 Tender offer validity and withdrawal of tenders

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

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

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

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

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

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

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

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

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

2.2.17 Provide other material

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

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

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

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

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

2.2.18 Samples, Inspections, tests and analysis

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

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

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

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

2.2.19 Certificates

The tenderer, including each member of a Joint Venture, Consortium or Closed Corporation must provide the CCT with all certificates as stated below:

2.2.19.1. Preference Points for Specific Goals

In order to qualify for preference points for Specific Goals, it is the responsibility of the tenderer to submit sufficient, relevant and verifiable documentary proof in support of any claim for preference points.

Failure to submit adequate and verifiable evidence may result in the non-awarding of preference points claimed.

Tenderers are further referred to the Preference Schedule for the detailed methodology, scoring criteria, and conditions applicable to the allocation of preference points for Specific Goals.

2.2.19.2 Evidence of tax compliance

Tenderers shall be registered with the South African Revenue Service (SARS) and their tax affairs must be in order and they must be tax compliant subject to the requirements of clause 2.2.1.1.2.h. In this regard, it is the responsibility of the Tenderer to submit evidence in the form of a valid Tax Compliance Status PIN issued by SARS to the CCT at the Supplier Management Unit located within

the Supplier Management / Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5), or included with this tender. The tenderer must record its Tax Compliance Status PIN number on the **Details of Tenderer** pages of the tender submission.

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

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

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

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

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

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

2.2.21 Claims arising from submission of tender

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

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

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

2.2.22 Collection and issuing of tender documents

The CCT will only issue tender documents through its Tender Distribution Office and/or the official CCT tender portal. Bidders who obtain documents through any means other than described herein, will not be known to the CCT and may thus not receive tender notices and addendums. Tenderers are not allowed to distribute tender documents to other potential bidders.

It is the responsibility of bidders who obtain documents through any means other than described herein, to notify the CCT tender representative thereof that they are participating in the tender. The CCT accepts no liability for any tender notices or addendums not reaching any bidders, who obtained documents through any means other than described herein or who provided incorrect contact details to the CCT.

2.3 The CCT's undertakings

2.3.1 Respond to requests from the tenderer

- 2.3.1.1** Unless otherwise stated in the Conditions of Tender, the CCT shall respond to a request for clarification received up to one week (where possible) before the tender closing time stated on the front page of the tender document.
- 2.3.1.2** The CCT's duly authorised representative for the purpose of this tender is stated on the General Tender Information page above.

2.3.2 Issue Notices

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

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

2.3.3 Opening of tender submissions

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

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

- 2.3.3.2** Announce at the meeting held immediately after the opening of tender submissions, at the closing venue as stated in the General Tender Information, the name of each tenderer whose tender offer is opened and, where possible, the prices indicated.
- 2.3.3.3** Make available a record of the details announced at the tender opening meeting on the CCT's website (<http://www.capetown.gov.za/en/SupplyChainManagement/Pages/default.aspx>.)

2.3.4 Two-envelope system

- 2.3.4.1** Where stated in the Conditions of Tender that a two-envelope system is to be followed, the CCT shall open only the technical proposal of tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the Conditions of Tender and announce the name of each tenderer whose technical proposal is opened.
- 2.3.4.2** The CCT shall evaluate the quality of the technical proposals offered by tenderers, then advise tenderers who have submitted responsive technical proposals of the time and place when the financial proposals will be opened. The CCT shall open only the financial proposals of tenderers, who have submitted responsive technical proposals in accordance with the requirements as stated in the Conditions of Tender, and announce the total price and any preference claimed. Return unopened financial proposals to tenderers whose technical proposals were non responsive.

2.3.5 Non-disclosure

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

a contract, until after the award of the contract to the successful tenderer.

2.3.6 Grounds for rejection and disqualification

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

2.3.7 Test for responsiveness

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

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

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

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

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

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

2.3.8 Arithmetical errors, omissions and discrepancies

2.3.8.1 Check the responsive tenders for:

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

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

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

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

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

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

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

2.3.9 Clarification of a tender offer

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

2.3.10 Evaluation of tender offers

2.3.10.1 General

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

2.3.10.1.2 For evaluation purposes only, the effects of the relevant contract price adjustment methods will be considered in the determination of comparative prices as follows:

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

2.3.10.1.3 Where the scoring of functionality forms part of a bid process, each member of the Bid Evaluation Committee must individually score functionality. The individual scores must then be interrogated and calibrated if required where there are significant discrepancies. The individual scores must then be added together and averaged to determine the final score. Where a Tenderer fails to meet or exceed the minimum score for Functionality, its tender shall be deemed non-responsive and shall not proceed to the scoring of tenders as per 2.3.10.3.

2.3.10.2 Decimal places

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

2.3.10.3 Scoring of tenders (price and preference)

2.3.10.3.1 Points for price will be allocated in accordance with the formula set out in this clause based on the tender sum / amount as set out in the **Price Schedule (Section C.4)**.

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

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

2.3.10.3.4 Applicable formula:

The 90/10 price/preference points system will be applied to the evaluation of responsive tenders above a Rand value of R50,000,000 (all applicable taxes included), whereby the order(s) will be placed with the tenderer(s) scoring the highest total number of adjudication points.

i) Price shall be scored as follows:

$$P_s = 90 \times \left(1 - \frac{(P_t - P_{min})}{P_{min}} \right)$$

Where: P_s is the number of points scored for price;
 P_t is the comparative price of the tender under consideration;
 P_{min} is the comparative price of the lowest responsive tender.

ii) Preference points shall be based on the Specific Goal as per below:

Table B2: Awards above R50 mil (VAT Inclusive)

#	Specific goals allocated points	Preference Points (90/10)
	<i>Reconstruction and Development Programme (RDP) as published in Government Gazette</i>	
1	Promotion of Micro and Small Enterprises <i>Micro with a turnover up to R20million and Small with a turnover up to R80 million as per National Small Enterprise Act, 1996 (Act No.102 of 1996)</i> <i>SME partnership, sub-contracting, joint venture or consortiums</i>	4
2	Enterprise Supplier Development and Socio-Economic Development <i>> 15% of total expenditure = 3 points</i> <i>> 10% up to 15% of total expenditure = 2 points</i> <i>>= 5% up to 10% of total expenditure = 1 points</i> <i>< 5% of total expenditure = 0 points</i>	3
3	Skills Development OR Employee Share Scheme Skills Development <i>> 5% of total expenditure = 3 points</i>	3

	> 3% up to 5% of total expenditure = 2 points >= 1% up to 3% of total expenditure = 1 points < 1% of total expenditure = 0 points	
	OR Employee Share Scheme > 15% employee ownership = 3 points > 10% up to 15% employee ownership = 2 point >= 5% up to 10% employee ownership = 1 point < 5% employee ownership = 0 point	
	Total points	10

2.3.10.5 Risk Analysis

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

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

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

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

2.3.11 Negotiations with preferred tenderer

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

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

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

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

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

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

2.3.12 Acceptance of tender offer

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

- 2.3.12.1** Accept a tender offer(s) which does not, in the CCT's opinion, materially and/or substantially deviate from the terms, conditions, and specifications of the tender document.
- 2.3.12.2** Accept the whole tender or part of a tender or any item or part of any item or items from multiple manufacturers, or to accept more than one tender (in the event of a number of items being offered), and the CCT is not obliged to accept the lowest or any tender.
- 2.3.12.3** Accept the tender offer(s), if in the opinion of the CCT, it does not present any material risk and only if the tenderer(s):
- a) is not under restrictions, has any principals who are under restrictions, or is not currently a supplier to whom notice has been served for abuse of the supply chain management system, preventing participation in the CCT's procurement,
 - b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract,
 - c) has the legal capacity to enter into the contract,
 - d) is not insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act, 2008, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing, complies with the legal requirements, if any, stated in the tender data, and
 - e) is able, in the opinion of the CCT, to perform the contract free of conflicts of interest.

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

- 2.3.12.4** The CCT reserves the right not to make an award, or revoke an award already made, where the implementation of the contract may result in reputational risk or harm to the CCT as a result of (inter alia):
- a) reports of poor governance or unethical behaviour, or both;
 - b) association with known notorious individuals and family of notorious individuals;
 - c) poor performance issues, known to the CCT;
 - d) negative media reports, including negative social media reports;
 - e) adverse assurance (e.g. due diligence) report outcomes; and
 - f) circumstances where the relevant vendor has employed, or is directed by, anyone who was previously employed in the service of the state (as defined in clause 1.53 of the SCM Policy), where the person is or was negatively implicated in any SCM irregularity.
- 2.3.12.5** The CCT reserves the right to nominate an Standby Bidder at the time when an award is made and in the event that a contract is terminated during the execution thereof, the CCT may consider the award of the contract, or non-award, to the Standby Bidder in terms of the procedures included its SCM Policy.

2.3.13 Prepare contract documents

- 2.3.13.1** If necessary, revise documents that shall form part of the contract and that were issued by the CCT as part of the tender documents to take account of:
- a) Notices issued during the tender period,
 - b) Inclusion of some of the returnable documents, and
 - c) Other revisions agreed between the CCT and the successful tenderer.

- 2.3.13.2** Complete the schedule of deviations attached to the Form of Offer and Acceptance, if any.

2.3.14 Notice to successful and unsuccessful tenderers

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

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

2.3.15 Provide written reasons for actions taken

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

T.3 TENDER DATA

The conditions of tender are the Conditions of Tender as contained in Part T2 herein.

The Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Conditions of Tender. Each item of data given below is cross-referenced to the clause in the Conditions of Tender to which it mainly applies.

The following variations, amendments and additions to the Conditions of Tender as set out in the Tender Data below shall apply to this tender:

2.1 General Information

Clause number	Tender Data
---------------	-------------

2.1.3	Communication during tender process
-------	--

Directorate: Water and Sanitation
Wastewater Branch, Bulk Services

Email: scm.tenders7@capetown.gov.za

2.2 Tenderer's obligations

2.2.1 Eligibility Criteria

Add the following new paragraph at the end of 2.2.1.1.1

Notwithstanding the above, any tender that fails to meet the minimum score for Functionality as determined in clause 2.2.1.1.4 shall be declared non-responsive and shall not be considered further.

2.2.1.1.3 Compulsory clarification meeting

The compulsory site visit/clarification meeting will be held at the Administration Building in the Zandvliet Wastewater Treatment Works, as confirmed in the General Tender Information, in item T.1 above.

The tenderer's authorised representative at this meeting shall sign and complete the attendance register.

Further site visits by tenderers will only be permitted after receipt of written approval by CCT. Dates for these additional-non-compulsory visits will be arranged by CCT, and an attendance register will be kept and minutes distributed. Tenderers will not be permitted to visit the Works at their own discretion.

Requests for clarification raised by any Tenderer and responses by CCT will be circulated to all Tenderers.

2.2.1.1.4 Personnel

The Tenderer shall demonstrate that it has suitably qualified and experienced personnel and support resources essential for the management, operation and maintenance of the Works and associated services.

The tenderer shall ensure that the operational staff operating the Works on a 24-hour shift basis shall be accordingly DWS graded and registered as per the DWS requirements.

2.2.11 Alternative tender offers

Replace this section with:

Alternative Tender offers shall not be considered.

2.2.18 Samples, Inspections, tests and analysis

Add after the first paragraph:

Such access shall also include the Tenderer's offices, workshop, laboratory and all other support departments, as well as open access to the management and operational software support facilities and programmes relevant to this Tender.

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

Add after the last paragraph:

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

The successful Tenderer shall be required to complete and submit to CCT the Occupational Health and Safety Agreement (included in C.3), within 14 days of acceptance of its tender.

2.2.21 Claims arising from submission of tender

Add after 2.2.21 e)

f) checked for the completeness of the Tender Document, and not later than 14 (fourteen) days prior to the tender close date submitted a written request to CCT requesting clarification any pages are found to be missing or duplicated, or the figures or writing indistinct, or if the Pricing Data contain any obvious errors, CCT may advise Tenderer's of any resultant amendments to the tender document, these at the sole discretion of CCT

CCT accepts no liability for Tenderer's errors due to the foregoing, and will deem all submitted tenders to be fully inclusive of all the terms and conditions of the tender document.

2.3.1 Respond to requests from the tenderer

Add after Clause 2.3.1.2;

2.3.1.3 CCT shall not formally issue tender documents in electronic format and shall only issue tender documents in hardcopy. An electronic version of the issued tender documents may be made available to the tenderer, upon written request, subject to the following:

- (a) Electronic copies of the contract document, or parts thereof, will only be provided to tenderers who have been issued with the tender documents in hardcopy.
- (b) The electronic version shall not be regarded as a substitute for the issued tender documents.
- (c) CCT shall not accept tenders submitted in electronic format. Tenderers may not complete and submit a printed copy of the electronic version of the tender document or part thereof. Only those tenders that have been completed on the issued hard copy tender document shall be considered.
- (d) CCT accepts no responsibility or liability arising from any reliance on or use of the electronic version provided in terms of this clause. CCT further does not guarantee that the electronic version corresponds with the issued tender documents in all respects. Tenderers are

alerted to the fact that electronic versions of the tender documents may not reflect any notices or addenda that amend the tender document.

- (e) Any non-compliance with these provisions, including effecting any unauthorised alterations to the tender document, shall render the tender invalid. CCT reserves the right to take any action against such tenderer allowed in law including, in circumstances where the tender had already been awarded, the right to cancel the contract.
- (f) In requesting the electronic version of the tender document or parts thereof, the tenderer is deemed to have read, understood and accepted all of the above conditions.

2.3. The CCT's undertakings

2.3.4 Two envelope system

A two-envelope system shall not apply

2.3.7 Test for responsiveness

2.3.7.2. Add after "qualification" in the second line

"and has met with the minimum score for Functionality requirements in 2.2.1.1.4"

Add after 2.3.7.2:

2.3.7.3 Tenders shall be considered non-responsive and shall be endorsed and recorded as such in the tender opening record, by the responsible official who opened the tender, in the following circumstances:

- a) if the tender offer is not submitted on Form C.2.1 – Offer bound into this tender document in section C.2 Form of Offer and Acceptance;
- b) if the tender is not completed in non-erasable ink;
- c) if the Form of Offer and Acceptance has not been signed;
- d) if the Form of Offer and Acceptance is signed, but the name of the tenderer is not stated or is indecipherable.

2.3.7.4 In terms of its Supply Chain Management Policy CCT may not consider a tender unless the provider who submitted the tender:

- a) has furnished CCT with that providers:
 - i) full name;
 - ii) identification number or company or other registration number; and
 - iii) tax reference number and VAT registration number, together with a Valid Tax Compliance Status PIN;
- b) has indicated whether:
 - i) the provider is in the service of the state, or has been in the service of the state in the previous twelve months;
 - ii) the provider is not a natural person, whether any of the directors, managers, principal shareholders or stakeholders is in the service of the state, or has been in the service of the state in the previous twelve months; or
 - iii) whether a spouse, child or parent of the provider or of a director, manager, shareholder or stakeholder referred to above is in the service of the state, or has been in the service of the state in the previous twelve months.
- iv) who is an advisor or consultant contracted with CCT.
- c) in the case of a Joint Venture or Consortium has submitted:
 - i) the duly completed Schedule F.2: Certificate of Authority for Partnerships, Joint Ventures or Consortiums
 - ii) all other information concerning the Partnership, Joint Venture or Consortium as requested within the tender document;
- d) has completed and included the duly completed Schedules:

- i) F.3: Declaration for Procurement above R10 million, In the case of a Partnership, Joint Venture or Consortium, this Schedule is to be completed by each member or partner;
- ii) F.4: Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2022, In the case of Partnership, Joint Venture or Consortium, the Tenderer shall provide clear detail of how the claim was formulated, this based on the composition and responsibilities of each of its members;
- iii) F.5: Declaration of Interest – State Employees (MBD 4 amended), In the case of a Partnership, Joint Venture or Consortium, this Schedule is to be completed by each member or partner;
- iv) F.6: Conflict of Interest Declaration, In the case of a Partnership, Joint Venture or Consortium, this Schedule is to be completed by each member or partner.
- v) F.7: Declaration of Tenderer's Past Supply Chain Management Practices (MBD8);
- vi) F.8: Authorisation for Deduction of Outstanding Amounts Owed to the CCT. In the case of a Partnership, Joint Venture or Consortium, this Schedule is to be completed by each member or partner;
- vii) F.9: Certificate of Independent Tender Determination
- viii) F.9: Certificate of Independent Tender Determination;
- ix) F.11 List of other documents Attached by Tenderer;
- x) F.13 Information to be provided with the Tender;

2.3.7.5 In terms of CCT's Supply Chain Management Policy, the Employer may reject the tender of any tenderer if that tenderer or any of its directors has:

- a) failed to pay municipal rates and taxes or municipal service charges and such rates, taxes and charges are in arrears for more than three months;
- b) failed, during the last five years, to perform satisfactorily on a previous contract with CCT or any other organ of state after written notice was given to that tenderer that performance was unsatisfactory;
- c) abused the supply chain management system of CCT or has committed any improper conduct in relation to this system;
- d) been convicted of fraud or corruption during the past five years;
- e) wilfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
- f) been listed with the Register of Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004) or has been listed on National Treasury's database as a person or juristic entity prohibited from doing business with the public sector.

2.3.10 **Evaluation of tender offers**

2.3.10.1.2 *Delete sub-clauses a) to f) and replace with:*

- a) Other than the weightings of each cost ratio, the selected method is based on formulae, indices, coefficients, etc. that are the same for all bidders during the contract period, and therefore comparative prices would be the prices for year one as tendered in Schedule C4.2 – Pricing Schedule.
- b) the contract price adjustment method will be as per the formulae specified in the Annexure F Returnable Document – Schedule F.1: Contract Price Adjustment.

Bidders are to complete the base rates as of one month prior to the tender close date, as well as the weightings of the various ratios within the formulae.

Tenderers, by signing this Schedule, acknowledge that they have accepted the contract price adjustment formulae in all respects.

2.3.10.3 **Scoring of Tenders (price and preference)**

Add at the end of Clause 2.3.10.3.2

CCT regards joint ventures, closed corporations and consortiums them as being one and the same, and requires that:

- a) is formally constituted, and that all members/partners shall be jointly and severable liable;
- b) a fully signed copy of the Joint Venture Agreement is submitted with the tender, which shall clearly define the role and responsibilities of each partner in the Joint Venture;
- c) The Joint Venture and its individual partners are all registered on the CCT's Supplier Database;
- d) The Individual partners of the Joint Venture are registered on the National Treasury Web Based Central Supplier Database (CSD).
- e) The preference points claimed by the Joint Venture shall be clearly detailed, demonstrating the basis upon which preference points are claimed, but CCT will at their sole discretion determine the preference points for the Joint Venture.

Add at the end of 2.3.10.3

In the case of a Joint Venture, preference points shall be calculated by CCT based on each partners preference points, taken in proportion to the percentage work share each partner has in the Joint Venture.

The total points for any tenderer shall be the sum of its Price and Preference points as determined by CCT.

CCT will recommend the Tenderer with the highest adjudication points as the preferred tenderer, unless there are compelling reasons not to do so after consideration of the Risk Analysis in 2.3.10.5.

2.3.12 **Acceptance of tender offer**

2.3.12.2 *Delete clause 2.3.12.2*

2.3.12.3 *Add the following after sub-paragraph e) in Clause 2.3.12.3*

- f) is registered and in good standing with the South African Revenue Service (SARS) and has submitted a valid Tax Compliance Status PIN as per Cause 32;
- g) is registered on CCT of Cape Town's Vendor Database;
- h) 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;
- i) has not:
 - i) abused the Employer's Supply Chain Management System; or
 - ii) failed to pay municipal rates and taxes or service charges and such rates, taxes and charges are not in arrears for more than three months;
- j) 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.

2.3.13 **Prepare contract documents**

2.3.13.2 *Add the following to 2.3.13.2:*

"Any deviations, proposed amendments and qualifications in Annexure F: Returnable Document - Schedule F.10, or in a Tenderer's covering letter shall be reviewed by CCT, but CCT shall not be bound to accept any such deviations or qualifications."

2.3.16 Provide copies of the contract

2.3.16 *Add the following after 2.3.15:*

The number of paper copies of the signed contract to be provided by the Employer is one.

TENDER DOCUMENT GOODS AND SERVICES		 CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD	
SUPPLY CHAIN MANAGEMENT			
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TENDER NO: 088S/2026/27

TENDER DESCRIPTION: PROVISION OF OPERATION, MAINTENANCE AND MANAGEMENT SERVICES FOR THE ZANDVLIET WASTEWATER TREATMENT WORKS, BLACK MAC SCREENING STATION AND ASSOCIATED SERVICES

CONTRACT PERIOD: 300 MONTHS FROM THE COMMENCEMENT DATE OF THE CONTRACT, SUBJECT TO SECTION 33 APPROVAL PROCESS

THE CONTRACT

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

AND

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

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

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

C.1 DETAILS OF TENDERER/SUPPLIER

1.1 Type of Entity (Please tick one box)

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

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

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

Each member/partner of a Joint Venture, including Closed Corporations and Consortiums, must fully complete the secondary schedule overpage and attach the same to Schedule F.11.

1.3 Required Details of Members/Partners of a Joint Venture, including Closed Corporations and Consortiums.

(Please provide applicable details in full, and attaché with supporting information where required to Schedule F.11:

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

C.2 FORM OF OFFER AND ACCEPTANCE

TENDER NO: 088S/2026/27

TENDER DESCRIPTION: PROVISION OF OPERATION, MAINTENANCE AND MANAGEMENT SERVICES FOR THE ZANDVLIET WASTEWATER TREATMENT WORKS, BLACK MAC SCREENING STATION AND ASSOCIATED SERVICES

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

The tenderer, identified in the offer signature table below,

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

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

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

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

Witness 1 Signature
Name and Surname:

Witness 2 Signature
Name and Surname:

INITIALS OF CCT OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER NO: 088S/2026/27

TENDER DESCRIPTION: PROVISION OF OPERATION, MAINTENANCE AND MANAGEMENT SERVICES FOR THE ZANDVLIET WASTEWATER TREATMENT WORKS, BLACK MAC SCREENING STATION AND ASSOCIATED SERVICES

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

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

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

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

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

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

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

Witness 1 Signature
Name and Surname:

Witness 2 Signature
Name and Surname:

INITIALS OF CCT OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER NO: 088S/2026/27

**TENDER DESCRIPTION: PROVISION OF OPERATION, MAINTENANCE AND MANAGEMENT
SERVICES FOR THE ZANDVLIET WASTEWATER TREATMENT WORKS,
BLACK MAC SCREENING STATION AND ASSOCIATED SERVICES**

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

Notes:

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

1 Subject

Details

.....

.....

2 Subject

Details

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3 Subject

Details

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4 Subject

Details

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

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

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER NO: 088S /2026/27

**TENDER DESCRIPTION: PROVISION OF OPERATION, MAINTENANCE AND MANAGEMENT
SERVICES FOR THE ZANDVLIET WASTEWATER TREATMENT WORKS,
BLACK MAC SCREENING STATION AND ASSOCIATED SERVICES**

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

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

The..... (Day) Of..... (Month) 20..... (year)

At..... (Place)

For the Supplier: Signature(s)

Name(s)

Capacity

Signature and name of witness:

Signature Name

INITIALS OF CCT OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER NO: 088S/2026/27

TENDER DESCRIPTION: PROVISION OF OPERATION, MAINTENANCE AND MANAGEMENT SERVICES FOR THE ZANDVLIET WASTEWATER TREATMENT WORKS, BLACK MAC SCREENING STATION AND ASSOCIATED SERVICES

C.2.5 Summary Schedule of Rates and on-costs

C2.2 PRICING SCHEDULE

The sums and rates shall be VAT exclusive and tenderer to refer to C.5 Scope of Works in tender document.

C2.2.1 LIQUID STREAM

C2.2.1.1 FIXED MONTHLY COSTS				
	ITEM	COST TYPE	COSTING UNIT	SUM
1	SALARIES, WAGES & ALLOWANCES			
1.1	Operations	FIXED	Rand per month	
1.2	Maintenance	FIXED	Rand per month	
1.3	Supervisory Operations	FIXED	Rand per month	
1.4	Supervisory Maintenance	FIXED	Rand per month	
1.5	Administration	FIXED	Rand per month	
1.6	Management	FIXED	Rand per month	
1.7	Support Resources	FIXED	Rand per month	
1.8	Technical staff	FIXED	Rand per month	
1.9	GMR2.1	FIXED	Rand per month	
A	SUB-TOTAL SALARIES WAGES AND ALLOWANCES			
2	GENERAL EXPENSES			
2.1	Chemicals			
	Other (e.g. deodorising)	FIXED	Rand per month	
2.2	Cleaning Services	FIXED	Rand per month	
2.3	Fuel (Diesel & Oil) for standby generators maintenance runs	FIXED up to maintenance threshold then claimable Note # below	Rand per month	
2.4	Hiring Charges	FIXED up to threshold then claimable #	Rand per month	
2.5	Grounds Maintenance	FIXED	Rand per month	
2.6	Printing & Stationery	FIXED	Rand per month	
2.7	Security Services	FIXED	Rand per month	
2.8	Telecommunications	FIXED	Rand per month	
2.9	Protective Clothing	FIXED	Rand per month	
2.10	Potable Water Purchases	FIXED	Rand per month	
2.11	Materials (general) & Consumables	FIXED	Rand per month	
2.12	Vehicles & Plant	FIXED	Rand per month	
2.13	Oils & Lubricants	FIXED	Rand per month	

2.14	Equipment & Tools	FIXED	Rand per month	
2.15	Refreshments & Teas	FIXED	Rand per month	
2.16	Work's Laboratory	FIXED	Rand per month	
B	SUB-TOTAL GENERAL EXPENSES			
3	REPAIRS & MAINTENANCE			
3.1	All maintenance, repairs and replacement, including external service providers and purchases	FIXED up to threshold then claimable #	Rand per month	
C	SUB-TOTAL REPAIRS AND MAINTENANCE			
	ITEM	COST TYPE	COSTING UNIT	SUM
4	CORPORATE CHARGES			
4.1	Corporate Services	FIXED	Rand per month	
D	SUB-TOTAL CORPORATE CHARGES			
5	CONTRACTED SERVICES			
5.1	External Laboratory	FIXED	Rand per month	
E	SUB-TOTAL CONTRACTED SERVICES			
6	TRAINING			
6.1	Training, including the requirements for ongoing training as per Regulation 3630 of the NWA	FIXED	Rand per month	
F	SUB-TOTAL TRAINING			
TOTAL OF FIXED MONTHLY COSTS (A + B + C + D + E + F) = L _{F0}				

C2.2.1.2 VARIABLE MONTHLY COSTS – ESKOM LOW SEASON				
	ITEM	COST TYPE	COSTING UNIT	RATE
1	GENERAL EXPENSES			
1.1	Chlorine, MBR cleaning chemicals (ferric sulphate, citric acid & sodium hypo chloride)	FIXED RATE	Rand per kl under standard conditions \$	
1.2	Electricity	FIXED RATE (depending on influent volume and quality)	Rand per kl under standard conditions \$	
TOTAL OF VARIABLE MONTHLY COSTS PER kl UNDER STANDARD CONDITIONS (SUM OF 1.1 and 1.2) = L_{VLo}				

C2.2.1.3 VARIABLE MONTHLY COSTS – ESKOM HIGH SEASON				
	ITEM	COST TYPE	COSTING UNIT	RATE
1	GENERAL EXPENSES			
1.1	Chlorine, MBR cleaning chemicals (ferric sulphate, citric acid & sodium hypo chloride)	FIXED RATE	Rand per kl under standard conditions \$	
1.2	Electricity	FIXED RATE	Rand per kl	

		(depending on influent volume and quality)	under standard conditions \$	
TOTAL OF VARIABLE MONTHLY COSTS PER KI UNDER STANDARD CONDITIONS (SUM OF 1.1 and 1.2) = L _{VH0}				

= above the threshold the costs may be claimable as provided for elsewhere in this document.

\$ = design conditions are 99 000 kl per day influent at a mean raw influent Chemical Oxygen Demand of 1220 mg/l

C2.2.2 SLUDGE STREAM

C2.2.2.1 FIXED MONTHLY COSTS				
	Item	COST TYPE	COSTING UNIT	SUM
1	SALARIES, WAGES & ALLOWANCES			
1.1	Operations	FIXED	Rand per month	
1.2	Maintenance	FIXED	Rand per month	
1.3	Supervisory Operations	FIXED	Rand per month	
1.4	Supervisory Maintenance	FIXED	Rand per month	
1.5	Administration	FIXED	Rand per month	
A	SUB-TOTAL SALARIES WAGES AND ALLOWANCES			
2	GENERAL EXPENSES			
2.1	Fuel (Diesel & Oil) for standby generators maintenance runs	FIXED up to maintenance threshold then claimable Note # below	Rand per month	
2.2	Oils & Lubricants	FIXED	Rand per month	
2.3	Equipment & Tools	FIXED	Rand per month	
2.4	Work's Laboratory	FIXED	Rand per Month	
B	SUB-TOTAL GENERAL EXPENSES			
3	REPAIRS & MAINTENANCE			
3.1	All maintenance, repairs and replacement, including external service providers and purchases	FIXED up to threshold then claimable #	Rand per month	
C	SUB-TOTAL REPAIRS AND MAINTENANCE			
4	CORPORATE CHARGES			
4.1	Corporate Services	FIXED	Rand per month	
D	SUB-TOTAL CORPORATE CHARGES			
5	CONTRACTED SERVICES			
5.1	External Laboratory	FIXED	Rand per month	
E	SUB-TOTAL CONTRACTED SERVICES			
6	TRAINING			
6.1	Training, including the requirements for ongoing training as per	FIXED	Rand per month	

	Regulation 3630 of the NWA			
F	SUB-TOTAL TRAINING			
TOTAL OF FIXED MONTHLY COSTS (A + B + C + D + E + F) = S _{F0}				

= above the threshold the costs may be claimable as provided for elsewhere in this document.

The threshold for Fuel (diesel oil) is taken to be the fuel used to operate the standby generators for 30 minutes per week to check readiness, etc. of the units, and for one hour per month under load conditions. Submit to Project Manager confirmation that this has been done; additional fuel consumption as a result of operating hours necessitated by electricity supply interruptions will be claimable through C4.2.2.7 upon submission of documentary evidence of fuel usage and additional maintenance requirements over and above the weekly readiness checks.

The threshold may also not apply in the case where the nature and frequency of load shedding and generator changeovers prematurely decrease the expected life of mechanical, electronic and control equipment. The Parties shall agree on any additional payments to be made through C4.2.2.7.

C2.2.2.2 PRIMARY SLUDGE - VARIABLE MONTHLY COSTS – ESKOM LOW SEASON				
	Item	COST TYPE	COSTING UNIT	SUM
1	GENERAL EXPENSES			
1.1	Polyelectrolyte	FIXED RATE	Rand per Nett Ton (1000 kg) of sludge dewatered	
1.2	Electricity	FIXED RATE	Rand per Nett Ton (1000 kg) of sludge dewatered	
PRIMARY SLUDGE STREAM – VARIABLE COST PER NETT TON (1000 kg) OF PRIMARY SLUDGE DEWATERED (DRY BASIS) (SUM OF 1.1 and 1.2) = SP_{VL0}				

C2.2.2.3 PRIMARY SLUDGE - VARIABLE MONTHLY COSTS – ESKOM HIGH SEASON				
	Item	COST TYPE	COSTING UNIT	SUM
1	GENERAL EXPENSES			
1.1	Polyelectrolyte	FIXED RATE	Rand per Nett Ton (1000 kg) of sludge dewatered	
1.2	Electricity	FIXED RATE	Rand per Nett Ton (1000 kg) of sludge dewatered	
PRIMARY SLUDGE STREAM – VARIABLE COST PER NETT TON (1000 kg) OF PRIMARY SLUDGE DEWATERED (DRY BASIS) (SUM OF 1.1 and 1.2) = SP_{VH0}				

C2.2.2.4 WAS SLUDGE - VARIABLE MONTHLY COSTS – ESKOM LOW SEASON				
	Item	COST TYPE	COSTING UNIT	SUM
1	GENERAL EXPENSES			
1.1	Polyelectrolyte	FIXED RATE	Rand per Nett Ton (1000 kg) of sludge dewatered	
1.2	Electricity	FIXED RATE	Rand per Nett Ton (1000 kg) of sludge dewatered	
WAS SLUDGE STREAM – VARIABLE COSTS PER NETT TON (1000 kg) OF WAS SLUDGE DEWATERED (DRY BASIS) (SUM OF 1.1 and 1.2) = SW_{VL0}				

C2.2.2.5 WAS SLUDGE - VARIABLE MONTHLY COSTS – ESKOM HIGH SEASON				
	Item	COST TYPE	COSTING UNIT	SUM
1	GENERAL EXPENSES			
1.1	Polyelectrolyte	FIXED RATE	Rand per Nett Ton (1000 kg) of sludge dewatered	
1.2	Electricity	FIXED RATE	Rand per Nett Ton (1000 kg) of sludge dewatered	
WAS SLUDGE STREAM – VARIABLE COSTS PER NETT TON (1000 kg) OF WAS SLUDGE DEWATERED (DRY BASIS) (SUM OF 1.1 and 1.2) = SW_{VH0}				
C2.2.2.5 REMOVAL AND DISPOSAL OF PRIMARY AND WAS SLUDGE, GRIT, SCREENINGS AND OTHER SOLIDS GENERATED AT THE WASTEWATER TREATMENT WORKS				%
THIS SERVICE IS PROVIDED FREE OF CHARGE TO THE CONTRACTOR BY ANOTHER CONTRACTOR APPOINTED BY CCT				NO CHARGE

C2.2.3 ASSOCIATED SERVICES – BLACK MAC SCREENING STATION

C2.2.3.1 FIXED MONTHLY COSTS				
	ITEM	COST TYPE	COSTING UNIT	SUM
1	SALARIES, WAGES & ALLOWANCES			
1.1	Operations	FIXED	Rand per month	
1.2	Maintenance	FIXED	Rand per month	
1.3	Supervisory Operations	FIXED	Rand per month	
1.4	Supervisory Maintenance	FIXED	Rand per month	
1.5	Administration	FIXED	Rand per month	
1.6	Management	FIXED	Rand per month	
1.7	Support Resources	FIXED	Rand per month	
1.8	Technical staff	FIXED	Rand per month	
1.9	GMR 2(1)	FIXED	Rand per month	
A	SUB-TOTAL SALARIES WAGES AND ALLOWANCES			
2	GENERAL EXPENSES			
2.1	Cleaning Services	FIXED	Rand per month	
2.2	Fuel (Diesel & Oil) for standby generators maintenance runs	FIXED up to threshold then claimable #	Rand per month	
2.3	Security Services	FIXED	Rand per month	
2.4	Telecommunications	FIXED	Rand per month	
2.5	Protective Clothing	FIXED	Rand per month	
2.6	Potable Water Purchases	FIXED	Rand per month	NO CHARGE
2.7	Materials (general) & Consumables	FIXED	Rand per month	
2.8	Vehicles & Plant	FIXED	Rand per month	
2.9	Oils & Lubricants	FIXED	Rand per month	
2.10	Equipment & Tools	FIXED	Rand per month	
2.11	HTH, Odour control	FIXED	Rand per month	

B	SUB-TOTAL GENERAL EXPENSES			
3	REPAIRS & MAINTENANCE			
3.1	All maintenance, repairs and replacement, including external service providers and purchases	FIXED up to threshold then claimable #	Rand per month	
C	SUB-TOTAL REPAIRS AND MAINTENANCE			
4	CORPORATE CHARGES			
4.1	Corporate Services	FIXED	Rand per month	
D	SUB-TOTAL CORPORATE CHARGES			

	ITEM	COST TYPE	COSTING UNIT	SUM
5	TRAINING			
5.1	Training, including the requirements for ongoing training as per Regulation 3630 of the NWA	FIXED	Rand per month	
E	SUB-TOTAL TRAINING			
TOTAL OF FIXED MONTHLY COSTS (A + B + C + D + E) = L _{BMF0}				

= above the threshold the costs may be claimable as provided for elsewhere in this document.

C2.2.3.5 REMOVAL AND DISPOSAL OF SOLIDS RECOVERED FROM INCOMING WASTEWATER AT THE PUMP STATION	
THIS SERVICE WILL BE PROVIDED FREE OF CHARGE TO THE CONTRACTOR BY ANOTHER CONTRACTOR APPOINTED BY CCT	NO CHARGE

The Tenderer shall carry the following from all the above Summary of Prices to the Offer part of the Form of Offer and Acceptance in Part C4.2.5 of the Contract Document:

C2.2.4.1 ON-COST FOR ADDITIONAL SERVICES TO BE PROVIDED BY THE CONTRACTOR ON CCT's INSTRUCTION		%
SPECIFY THE % ON-COST TO BE CHARGED TO PROVIDE ADDITIONAL SERVICES, EXTERNAL CONTRACTORS OR PURCHASES ON THE INSTRUCTION OF CCT, INCLUDING, BUT NOT LIMITED TO;		
1.1	Procurement of additional spares over and above those spare levels to be maintained by the Contractor	
1.2	Carrying out approved asset repairs and replacement not covered by the Contractor's contractual obligation	
1.3	Carrying out asset replacement where plant and equipment is no longer available from, or supported by OEMs, necessitating new upgraded or enhanced technologies.	
1.4	Purchase of diesel for generators over and above that to be provided by the contractor for weekly maintenance runs as specified	
1.5	Removal and disposal of Primary and WAS sludge, screenings, grit and other solids, where required by CCT	
1.6	Materials, plant and equipment not covered by the Contractor's contractual obligations	
1.7	Additional SANAS accredited Laboratory testing services	

1.8	Additional Services to be Provided by the Contractor for Black Mac Screening Station	
1.9	Other Additional Services as per DWS Licence requirements	
1.10	Other	

2.2.5 SUMMARY OF PRICES (SCHEDULE OF RATES)

ITEM	RATE IDENTIFIER	DESCRIPTION	COSTING UNIT	RATE (exclusive of VAT)
		ZANDVLIET WWTW		
C2.2.1.1	L _{F0}	Liquid Stream - Fixed Cost	Rand per month	
C2.2.1.2	L _{VL0}	Liquid Stream - Variable Rate Cost: Eskom Low Season	Rand per kilolitre	
C2.2.1.3	L _{VH0}	Liquid Stream - Variable Rate Cost: Eskom High Season	Rand per kilolitre	
C2.2.2.1	S _{F0}	Sludge Stream --Fixed Cost	Rand per month	
C2.2.2.2	SP _{VL0}	Primary Sludge Stream - Variable Rate Cost Eskom Low Season	Rand per Ton (1000 kg) (dry basis)	
C2.2.2.3	SP _{VH0}	Primary Sludge Stream - Variable Rate Cost Eskom High Season	Rand per Ton (1000 kg) (dry basis)	
C2.2.2.4	SW _{VL0}	WAS Sludge Stream - Variable Rate Cost: Eskom Low Season	Rand per Ton (1000 kg) (dry basis)	
C2.2.2.5	SW _{VH0}	WAS Sludge Stream - Variable Rate Cost: Eskom High Season	Rand per Ton (1000 kg) (dry basis)	
C2.2.2.6	n/a	Removal and Disposal of Dewatered Sludge and Residuals		By CCT
C2.2.3	L _{BMF0}	Black Mac Screening Station- Fixed Cost	Rand per month	
C2.2.3.3	n/a	Removal and Disposal of Sludge and Residuals		By CCT
		SUBTOTAL CARRIED FORWARD		
C2.2.2.7	ON-COST	On-cost for Associated Services provided by the Contractor on CCT's instruction, as described more fully in schedule C4.2.2.7		
		1.1 Procurement of additional spares	%	•
		1.2 Asset repairs and replacement	%	•
		1.3 Discontinued Asset replacement	%	•
		1.4 Diesel for generators	%	•
		1.5 Removal sludge, screenings, grit, solids	%	•
		1.6 Materials, plant and equipment	%	•
		1.7 SANAS accredited laboratory	%	•
		1.8 Black Mac Screening Station	%	•
		1.9 Other Additional Services	%	•
		1.10 Other	%	•

Note: Tender evaluation will make use of a fixed volume (99 000 kilolitre per day) and a COD concentration value of 1250 mg/l and Sludge volume of 100 Dry Tons per day for Primary and 100 Dry Tons per day Secondary Sludge.

C.3 OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

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

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

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

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

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

COID ACT Registration Number:

OR Compensation Insurer: Policy No.:

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

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

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

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

Signed at on the day of 20

Witness

Mandatory

Signed at on the day of 20

Witness

for and on behalf of
CCT

C.4 PRICE SCHEDULE

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

C4.1 Pricing Instructions:

Pricing instructions means the criteria as set out below, read together with all Parts of this contract document, and it is deemed that the tenderer has taken into account when developing his prices.

- 4.1.1 State the rates and prices in Rand unless instructed otherwise in the Conditions of Tender.
- 4.1.2 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable 14 days before the closing time stated in the General Tender Information.
- 4.1.3 All prices tendered must include all expenses, disbursements and costs (e.g. transport, accommodation etc.) that may be required for the execution of the tenderer's obligations in terms of the Contract, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the Contract as well as overhead charges and profit (in the event that the tender is successful). All prices tendered will be final and binding.
- 4.1.4 All prices shall be tendered in accordance with the units specified in this schedule.
- 4.1.5 Where a value is given in the Quantity column, a Rate and Price (the product of the Quantity and Rate) is required to be inserted in the relevant columns.
- 4.1.6 The successful tenderer is required to perform all tasks listed against each item. The tenderer must therefore tender prices/rates on all items as per the section in the Price Schedule. **An item against which no rate is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash or the word "included" or abbreviations thereof) is entered against an item, it will also be regarded as a nil rate having been entered against that item, i.e. that there is no charge for that item. The Tenderer may be requested to clarify nil rates, or items regarded as having nil rates; and the CCT may also perform a risk analysis with regard to the reasonableness of such rates.**
- 4.1.7 Provide fixed rates and prices for the duration of the contract that are not subject to adjustment except as otherwise provided for in clause 17 of the Conditions of Contract and as amplified in the Special Conditions of Contract.
- 4.1.8 The short descriptions given in Part C4.2 Price Schedule are brief descriptions used to identify the activities for which prices are required. Detailed descriptions of the activities to be priced are provided in Part C.5 Scope of Works and Specifications.
- 4.1.9 It is entirely at the tenderer's discretion as regards pricing the Price Schedule, but the tendered rates shall be deemed to include for all services and obligations of the Tenderer in accordance with this tender document.
- 4.1.10 For the purpose of the Price Schedule, the following words and abbreviations shall have the meanings hereby assigned to them:

Item:	The short descriptions referred to in Clause 1 above.
Cost Type:	Whether "Fixed" or "Variable" and to what extent
Costing Unit:	The Rand unit for costing each item of work
Sum:	The agreed payment per costing unit
Ton:	Metric Ton (1000kg)

kg: kilogram
kl: kilolitre

- 4.1.11 A sum, rate and percentage on-cost as applicable, is to be entered against each item in the Price Schedule, **exclusive of VAT**.
- 4.1.12 The sums, rates and percentage on-costs in the Price Schedule are to be fully inclusive prices or percentages as applicable for the work described under the several items. Such prices and percentages are to cover all costs and expenses that may be required in and for the execution of the work described 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.
- 4.1.13 The standard conditions (\$) given in the Price Schedule 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.
- 4.1.14 For the duration of this contract all sums or rates shall be subject to Contract Price Adjustment as described in Clause 4.1.18 below.
- 4.1.15 On-costs tendered will also be applicable in respect of items procured in accordance with clause 10.6.4 of the SCC.
- 4.1.16 Tenderers are to note that only those recoverable expenses listed in the Price Schedule will be reimbursed to the Contractor (Service Provider).
- 4.1.17 CCT requires the Liquid Stream and the Sludge Stream costs to be detailed separately.

To aid the Tenderer to calculate his tendered rates, the Price Schedule is divided into Liquid Stream and Sludge Stream. Against each item is indicated whether the cost component is regarded as a "Fixed" cost, "Variable" cost or "Fixed Rate" cost. Certain items are "fixed" up to a threshold value and thereafter certain costs may be claimable upon motivation.

The payment claims that will be made in terms of this contract are subdivided into these two groupings and each one into two separate components namely:

4.1.17.1 LIQUID STREAM

- i) A Fixed Monthly Cost component which includes all flowrate and chemical strength non-dependent elements, such as: Salaries, Wages and Allowances, cleaning, security, etc. including those factors given in the Price Schedule. This cost is claimable as a sum per month.
- ii) A Variable Monthly Cost component which contains all flowrate and chemical strength dependent elements such as chemicals, electricity, etc. This cost is claimable as a RATE per kilolitre wastewater received at the Inlet Works, together with any tanker discharges into the Works if applicable.

4.1.17.2 SLUDGE STREAM

- i) A Fixed Monthly Cost component which includes all sludge processed volumes and chemicals used, non-dependent elements, such as: Salaries, Wages and Allowances, cleaning, security, etc. including those factors given in the Price Schedule. This cost is claimable as a sum per month
- ii) A Variable Rate Monthly Cost component which contains all sludge processed volumes and chemicals used, dependent elements such as chemicals, electricity, etc. This cost is claimable as a RATE per nett ton of sludge on a dry solids basis, with separate rates for:
 - a) Primary sludge from the Primary Settling Tanks
 - b) WAS (Waste activated sludge) from the MBR and CAS plants

4.1.18 Contract Price Adjustment

By “Fixed” it is meant that the monthly cost is not influenced by influent quality or quantity. “Fixed”, “Variable” and “Fixed Rate” costs are subject to Contract Price Adjustment as provided for in the document.

The Contract Price Adjustment formulae are detailed in Annexure F.1 hereto.

The “BASE DATE” for contract price adjustment is one month (thirty days) prior to the tender close date.

C.5 SCOPE OF WORKS AND SPECIFICATION(S)

5.1 SCOPE OF WORK

- 5.1.1 INTRODUCTION
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5.1.1 INTRODUCTION

The Zandvliet Wastewater Treatment Works (ZWWTW) is owned by CCT of Cape Town. Currently, it is operated, maintained and managed by a private contractor (water service provider) and has been privately operated since its construction by the Provincial Administration: Western Cape in 1988.

The ZWWTW is located approximately 35 km east of CCT centre of Cape Town, approximately 1 km south of the N2 highway off-ramp on the Baden Powell Drive and 2.5 km north of the False Bay Coast. It is on the corner of the Macassar Road to the north and Baden Powell Drive to the west. It is situated in the magisterial district of Somerset West and in the municipal Sub-Council 8 and Ward 15 (see Locality Plan on page 3).

The area of the existing site is 26.77 hectares; the area allocated for the future Wastewater capacity extension is 17.92 hectares (see Appendix A attached to "Application for License letter dated 21 July 20" in **Appendix A** in Part C9). There are sand dunes reaching 25 meters above sea level on the southern and eastern boundaries. While these dunes provide an effective visual barrier in those directions, it is also the site for sand mining activities.

The land to the north east and east is owned by a number of persons and companies. To the north-east are the smallholdings of Sandvlei. The land to the east of the treatment works is used mainly for sand mining. To the west of Baden Powell Drive, opposite the Works is the residential area of Khayelitsha.

The Works is situated approximately 2.5 km from the confluence of the Eerste and Kuils Rivers in the sensitive Eerste-Kuils river catchment and into which the final effluent discharges. It should be noted that the surrounding communities are extremely environmentally conscious and are acutely aware of the potential negative impact that the ZWWTW can impose on the environment if not operated and maintained correctly.

Three pump stations viz., Kuyasa, Delft and Blue Downs, pump sewage from the areas which include Khayelitsha, Blue Downs, Mfuleni and Delft to the ZWWTW. This flow also through the Black Mac Screening Station or can bypass it and is part of the contract.

Approximately 105 informal settlements are located in the Zandvliet catchment and most of these settlements are presently being serviced by various types of non-waterborne sanitation technologies (see drawing titled “Zandvliet Drainage Region” dated November 2014, included in Appendix F)

The purpose of this tender is to appoint a contractor (water service provider (WSP)) to operate, maintain and manage the ZWWTW.

5.1.2 BACKGROUND

5.1.2.1 Existing Plant

Zandvliet is a 99 megaliters a day (Ml/d) extended aeration WWTW which consists of a 54 Ml/d (2 x 27 Ml/d) conventional activated sludge (CAS) plant and a two separate 18 Ml/d (MBR A) & 27 Ml/d (MBR B) membrane bioreactors (MBR). The process configuration for the CAS was designed on the Modified Ludzack Ettinger (MLE) configuration and that of the 18 Ml/d MBR A is designed on the UCT process configuration and the 27 Ml/d MBR B is designed on the UCT and MLE Process (Operator to decide on which process to use depending on raw water characteristics). The sludge from all processes is mechanically dewatered by means of belt presses and the dewatered sludge is removed from site using a waste removal contract managed by CCT. Due to the significant housing development in the catchment area, this plant will be extended in two phases (2 x 30 Ml/d upgrades) within the next five to ten years to an envisaged ultimate capacity of 150 Ml/d.

Presently, the ZWWTW consists of:

- **Inlet Pumping Station:** 3 x Trashmax Screens (110mm) and 4 x Archimedes Screws (1 Duty & 3 x Standby) and has a total capacity of 440 Ml/d;
- **Inlet Works:** 4 x 15mm, Coarse mechanical screens with Compactors and 4 x 6mm Fine mechanical screens with compactors
- **Grit Removal:** 4 x grit removal tanks with associated equipment for separation;
- **Upper Screw Pump Station:** 4 x Archimedes Screws (1 Duty & 3 x Standby) and has a total capacity of 440 Ml/d ;
- **Primary Settling Tanks:** 4 x 36.5m diameter, 3.44m Side Wall Depth circular secondary settling tanks;
- **Activated Sludge Plant:** 2 x Circular Bioreactors operating in parallel, each with Anaerobic, Anoxic and an Aeration zone with 10 surface aerators each;
- **Secondary Settling Tanks:** 12 off (6 per Reactor) (3 x 32.7m diameter & 3.95m high); (4 x 32m diameter & 3.95 m high); (5 x 31 m diameter & 2.9m high) Side Wall Depth circular secondary settling tanks;
- **MBR Fine Screen Works:** 6 x 1.5mm average fine mechanical screens with Compactors
- **Membrane Bioreactor A:** The bioreactor is a circular concrete tank, and the process design is based on the UCT process configuration. The membranes cassettes are located external to the biological reactor;
- **Membrane Bioreactor B:** The bioreactor is a rectangular concrete tank (3 x 9 Ml Reactors) and the process design is based on the UCT and or MLE process configuration. The membranes cassettes are located external to the biological reactor in a building;
- **Disinfection:** 12 off 1 ton (6 duty, 6 standby) Chlorine gas cylinders are used and the 3 contact tanks have a total volume of 2065 m3;
- **Primary Sludge Handling:** Sludge is wasted from Primary Tanks and mechanically dewatered by means of 4 Belt Presses (2 Duty, 2 Standby), the width of belt being 2,7m. The dewatered sludge is removed by a private sludge removal contractor;
- **Secondary Sludge Handling:** Sludge is wasted from aerobic zones (CAS & MBR) and mechanically dewatered by means of 6 Belt Presses (4 Duty, 2 Standby), each fitted with a linear screen, the width of belt and screen being 2,7m. The dewatered sludge is removed by a private sludge removal contractor;
- **Ancillary equipment/infrastructure** includes flow distribution facilities and pipework;
- **Electrical** supply, networks, motor control centers and panels;

- **Standby power** generation; (8 x Generators)

ZVT Standby Power Generation			
	Tank Size	Power Size (kVA)	Power Size (kW)
LSPS + Inlet Works	6500	1260	1008
USPS	6500	1260	1008
CAS A	4500	1030	824
CAS B	4500	890	712
MBR A	4500	1600	1280
MBR B1	4500	1260	1008
MBR B3	4500	1260	1008
Dewatering	11000	2030	1624
Black Mac Screening Station	4500	725	256

MBR B1 & B2 generator system is configured with an on-line Auto change-over system

- **Instrumentation and SCADA;**
- **Offices**, workshop, stores, Security Building, Weighbridge & Building etc.
- **Access roads**, services, internal roads and storm water drainage.
- **Standby Chemical Dosing Building**, equipped for dosing Ferric Sulphate and Sodium Hydrogen solutions to various process area
- **Service Water Pumpstation**
- **On-site Laboratory**
- **Black Mac Screening Station (BMSS- around 4.5km to the North of the Zandvliet Works)**
- - 2 x Front Rake Coarse Screens;
 - 2 x Front Rake Fine Screens;
 - 2 x Washer Compactor;
 - 2 x Vortex Degritters;
 - 2 x Grit Pumps;
 - 2 x Grit Classifiers;
 - 1 x Motorized Electrical Crane
 - 2 x Effluent Pumps;
 - 3 x Conveyers
 - 1 x Standby Generator
- **Treated Effluent Re-Use Pumpstation**
 - 1 x Front Rake Fine Screens;
 - 2 x Transfer Pumps
 - Treated Effluent Primary In Line Filters
 - Treated Effluent Secondary In Line Filters
 - 1 x Motorized Electrical Crane

5.1.2.3 Condition of the Assets

An Asset Register, with replacement values as of June 2025 is included in Appendix F. These are for equipment only, and the Tenderer must provide for the cost of any design; transport; offloading, storage and crange; installation; consumables, commissioning; overheads and profit within the tendered repair and replacement costs.

The Assets have been well maintained.

Once appointed, the contractor will be required to:

- i) verify and maintain the Asset Register for the contract duration
- ii) within the first three months of the contract, and annually thereafter on each contract anniversary, carry out a detailed Condition Assessment of all assets, including highlighting any essential improvements, repair/refurbishments/replacement required. The cost of the repairs, refurbishment and replacement of any asset will be for the Contractor's account, up to the limit per any single event as detailed in the contract.
- iii) carry out, at its cost, any repair, refurbishment or replacement which in CCT's opinion has not been reasonably maintained or attributed to the negligence of the Contractor, its subcontractors and service providers. The reliability will be determined where all the mechanical/ electrical/ process control systems (including SCADA) are performing their required functions under the specified conditions within the time required.
- iv) Submit details and costs to CCT of any asset upgrade or expansion requested by CCT, as part of CCT's Capital budget upgrade program.

Vehicles, plant and equipment

Sufficient and suitable vehicles, heavy transport, plant, tools and equipment shall be provided, operated and maintained by the Tenderer, at its cost for its management, operational, maintenance and laboratory personnel and specified services.

The minimum number of licenced and roadworthy vehicles, heavy transport, plant and equipment to be provided and serviced by the Tenderer on the Works, in addition to those provided by CCT, is detailed below:

Description	User	Provided by CCT	Tenderer to Provide
	Plant Manager		1 (TCOE)
LDV	Assistant Plant Manager		1
LDV	Process Supervisor		1 shared
LDV/Golf Cart	Senior Process Controllers		1 (process staff)
LDV	Senior Maintenance Technician		1
LDV	Millwrights		3
	Fitters		-
	Storeman		-
LDV	Instrument Technician		1
	Driver		1
LDV	Condition monitoring tech		1
LDV's	Security		S/C provides
LDV's	General utility		2
Truck with Crane		As required	
Diesel bowser & trailer		1 x 1000L	2 x 1000L
Bio-remedial Tractor		1	
Kudu lawnmower		1	
Husqvarna Ride-on lawnmower		1	
Gasoline Hedge saw		1	
Gasoline chain saw		1	
Bush cutters		3	
Mobile trailer GR Pump		2	
Portable trash pump 100mm		1 (trailer needs repair)	
Portable trash pump 80mm		1	
Submersible pump 50mm		1	
Drum pump		1	
WAP Jetting Machine		1 x Electric	1 petrol, 2 x electric
Portable Generator		1 x workshop	
Arc welding machine (oil)		1 x workshop	
Afrox Saffire Portapak		1 x workshop	
20t Hydraulic		1 for high mast	1

3000kg hydraulic jack		1
2t engine lift	1	1
Porta Power jack set	1	1
Emergency lighting 500W	1	1
Fully equipped artisan toolboxes	1 for ops	6 x Maintenance
Workshop equipment, shelves & storage	List can be provided	
Workbenches	List can be provided	
Specialist Tools	List can be provided	
63A welding plug extension	100m	60m
Stepladders	2 x 3.4m & 6.8m ext.	2
Wheelbarrows	2	6
Rakes, slashers, spades, forks, picks		As required
Mobile compressor	1 x 380V 3 phase	1 x 220V single phase
Staircase	1 x Trash Rack 1 x Inlet 3 x Dewatering	

5.1.3 CITY'S OBJECTIVE

The primary objective of CCT is to appoint a competent and experienced contractor to manage, operate and maintain the ZWWTW and associated services on behalf of CCT. This tender provides the essential information and data for the potential tenderers to be adequately informed of the objectives of CCT and price accordingly. The tenderers may have access to the operational and maintenance manuals by prior arrangement. However, once appointed as the contractor, it shall be required to comply with the Agreement which provides amongst others, the operational and maintenance obligations of the contractor, Performance Compliance Criteria, target compliance, timeframes, penalties, etc.

CCT's intention is to allow the contractor to operate, maintain and manage the ZWWTW and associated services for a period of **300 months**. The contractor's performance shall be reviewed annually. If the contractor's performance fails to consistently meet the Performance Compliance Criteria and targets as specified in the Agreement, the necessary corrective actions will be instituted and ultimately the termination of the contract.

Tenderers needs to take note that Zandvliet Wastewater Treatment Works will receive an upgrade to the existing capacity within the contract period.

The current Scope of Work requires the Contractor to operate and maintain the existing Works in accordance with legislation and good industry practice. The Contractor needs to take note that in future the Faure New Water Scheme Phase 1 will be placed on the plant.

5.1.4 CONTRACTED SERVICES

The Contracted Services is related to the management, operation and maintenance of the ZWWTW and associated services.

The Contractor:

- shall conduct their business activities using the King Report III Code as a guide for corporate governance;
- shall conduct their business activities that ensure that CCT does not suffer reputation loss;
- shall comply with all Legislative requirements (including Risk, Health, Safety and Environment) necessary to operate and maintain ZWWTW;
- shall operate, maintain and manage the Works and the Assets for 24 hours per day, 365 days per year, throughout the period of this Agreement in full compliance with the conditions of the Tender,

the Agreement and the requirements of the License 2011 (Licence no: 27/2/1/G822/102/1) together with any other applicable regulatory legislation; (CCT busy with Licence Amendment)

- shall ensure that the Works is adequately manned for the 24/7, 365 days operation and maintenance, complying with the Department of Water and Sanitation's requirements for Process Controller classifications, numbers and training, including the ongoing training requirements of Regulation 3630 of the National Water Act;
- shall be compliant with the Department of Water and Sanitation's requirements with respect to quality of final effluent and sludges and maintain the Works and the Assets to the standard required by CCT; and work closely with CCT to maximize the Green Drop scorecard;
- will be required to manage, operate and maintain the Works in accordance with the design criteria and to satisfy DWS's Green Drop requirements, insofar as the design of the ZWWTW is capable of performing ;
- will be required to support CCT's interface with the Department of Water and Sanitation and be responsible for the performance of the Works and Assets;
- shall be committed to cost minimisation approach at all times;
- is required to have and develop written procedures for the Management, Operation and Maintenance of the Assets as more fully set out in the Agreement;
- shall be skilled in predictive maintenance and conditional monitoring of the Assets, including specialist membrane care, monitoring & reporting;
- shall be demonstrably familiar with the operation, commissioning and testing of new equipment;
- shall keep detailed records concerning all aspects of the Management, Operation and Maintenance of the ZWWTW. Maintenance shall be costed on activity based costing. The exact nature of these records shall be set out in the Agreement
- shall operate the Works in such a manner that any nuisances (such as noise or odour) from the Works will minimise complaints from the public and reduce reputational loss to CCT;
- shall closely monitor the usage of utilities (water and electricity) and optimise and reduce their usage where possible;
- may be required to use some of CCT's tenders for the procurement of consumables such as Chlorine, polyelectrolyte, lime, etc, unless the contractor can source and procure these items at a cost equal or cheaper than CCT;
- ensure that adequate stocks of chemicals are maintained on site, agreeing with CCT any additional storage and working capital costs if additional or alternative more costly chemicals have to be stockpiled to cater for chemical supply shortages;
- shall ensure that the site and buildings are meticulously maintained;
- will sample composite (minimum 2 hourly) influent raw wastewater, unit process and final effluent streams (liquid or sludge) in compliance with the requirements of CCT. The influent and final effluent shall be sampled by means of automatic samplers, failing which an acceptable, representative grab sample procedure;
- shall have weekly (or if required, daily) compliance samples analysed at CCT's Scientific Services Branch's laboratories situated at Athlone WWTW. The results of these analyses shall be final and binding, with split samples being taken for an external SANAS laboratory confirmation in the case of disagreement, at the cost of the Contractor;
- shall use a South African National Accreditation System (SANAS) accredited laboratory for all other tests not performed at the Scientific Services Branch laboratories;
- is required to carry out the daily plant performance tests at the on-site laboratory;
- is required to hold regular meetings and issue reports to CCT's representatives where all details regarding the Asset's management, operation and maintenance as determined by the Agreement shall be reported on (see 5.2.3 in Part C1.5);
- will not, in any way, limit the access to the site by CCT or its representatives, subject to conformance to the main security gate access control requirements;
- shall be an active participant in all aspects of the site development. The contractor shall attend all site meetings concerned with the development of the site;
- shall continue to operate, maintain and manage the site during any extensions to the site by a 3rd party contractor's period of tenure;

In addition, CCT's appointed agent may assess the ZWWTW in terms of the compliance with the OHSA-Machinery regulations on a bi-yearly basis; CCT shall impose penalties if the contractor fails to perform or not comply with the requirements of CCT as set out in the Agreement. These penalties will be deducted from the contractor's (WSP's) monthly remuneration.

5.1.5 REFERENCE DATA

5.1.5.1 Zandvliet WWTW: Design Criteria

Conventional Activated Sludge Plant (2025 Data)

Parameter	Unit	Value
Flow		
Process (Average Dry Weather Flow)	Ml/d	54
Peak Dry Weather Flow	Ml/d	96
Peak Wet Weather Flow	Ml/d	162
Influent Raw sewage concentrations		
Chemical Oxygen Demand	mgCOD/l	1220
Total Kjeldahl Nitrogen	mgN/l	90
Free & Saline Ammonia	mgN/l	60
Total Phosphorus (as P)	mgP/l	18
Ortho-Phosphate (as P)	mgP/l	10
Suspended Solids	mgTSS/l	520
Alkalinity	mg/ l as CaCO ₃	277

Settled Sewage concentrations		
Chemical Oxygen Demand	mgCOD/l	650
Total Kjeldahl Nitrogen	mgN/l	64
Free & Saline Ammonia	mgN/l	45
Total Phosphorus (as P)	mgP/l	9.9
Ortho-Phosphate (as P)	mgP/l	8.5
Suspended Solids	mgTSS/l	225
Alkalinity	mg/ l as CaCO ₃	-

Membrane Bio Reactors Design Criteria:

Parameter	Unit	Value MBR A	Value MBR B
Flow			
Process (Average Dry Weather Flow)	Ml/d	18	27
Peak Dry Weather Flow	Ml/d	28	38
Peak Wet Weather Flow	Ml/d	45 (8 hours duration)	81 (24 hours duration)

5.1.5.2 Zandvliet WWTW: Wastewater characteristics

The influent raw wastewater characteristics complete with the associated flows received at Zandvliet WWTW over the past three years (2022, 2023 and 2024) are displayed in the table below.

Influent Wastewater Characteristics complete with associated flowrates

	Flow ¹ (Mℓ/d)	COD ² (mg/ℓ)	SS ² (mg/ℓ)	FSA ² (mgN/ℓ)	Total P ² (mgP/ℓ)	Ortho-P ² (mgP/ℓ)
2022-2023 Jul-Jun						
5%-ile	79.7	665	314	37.8	9.0	4.3
Average	94.8	1028	571	54.9	9.7	6.5
95%-ile	116.9	1491	1032	77.6	10.4	9.6
2023-2024 Jul-Jun						
5%-ile	76.3	697	391	42.2	7.2	4.5
Average	92.6	1022	570	55.7	10.6	6.1
95%-ile	109.0	1464	831	74.7	14.0	7.8
2024-2025 Jul-Jun						
5%-ile	84.1	565	250	34.7	7.2	3.4
Average	97.2	897	479	54.3	10.6	5.7
95%-ile	111.9	1210	747	69.9	14.0	7.0
2025-2026 Jul-Jun (Till end March)						
5%-ile	83.2	703	333	37.9	7.2	4.0
Average	103.4	903	432	53.4	10.6	5.5
95%-ile	115.1	1161	654	66.5	14.0	6.7

1. Flow readings are taken daily. The values shown are calculated over the year period July-June.

2. The sampling for the chemical parameters is weekly. The values shown are calculated over the year period July-June.

Details of the flowrates of the influent raw wastewater are shown below

Flowrates (Mℓ/d) of influent sewage (Year period July-June)

	2022	2023	2024	2025	2026
ADWF	86	94	90	96	101
AWWF	94	86	104	98	109
PWWF	221	232	239	157	143

Dry Season is taken as Oct-May and Wet Season is taken as Jun-Sep

5.1.5.3 Final Effluent Requirements

The final effluent is discharged at the existing outfall channel into the Kuils River, a tributary of the sensitive Eerste River. At present the Department of Water and Sanitation's General Standard is applicable to the quality of the final effluent. (CCT is busy with License Amendment) While it is imperative to comply with the Standards with respect to the final effluent, the contractor is required to operate the CAS and the MBR in accordance with its confirmed design criteria.

5.1.5.4 Sludge Production

Sludge production is shown below:

Primary Sludge (July-June)

Year	Cubic meters per year	Percent Dry Solids	Tons Dry Solids
2022	125261	32	2840
2023	383584	32	8609
2024	268655	33	6276
2025	345715	33	8066
2026	262980	34	6245

Secondary Sludge

Year	Cubic meters per year	Percent Dry Solids	Tons Dry Solids
2022	935872	15	10213
2023	638033	14	6680
2024	1116503	14	11920
2025	936184	14	9678
2026	677964	13	6499

Conventional Activated Sludge Plant (32340 m³) average sludge age: 11-14 days

Membrane Bioreactor average sludge age: 19-25 days

5.1.6 APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS

The contractor shall take cognizance of, and adhere to, all applicable national and international standards in the execution of the Contracted Services and when compiling specifications for the repair/refurbishment/replacement of the Assets.

International standards should only be used where no national standards exist, or where it is the norm to use or refer to international standards.

5.1.7 APPROVALS

The contractor shall be responsible for obtaining written approvals from the Project Manager for the following:

- Before any changes are made to the infrastructure/equipment/process control systems;
- Any wayleave approvals from all service authorities;
- Staffing and subcontracting for critical staff- update
- Approval of building plans from the relevant authority;
- Any repairs/refurbishment/replacement of equipment over and above the quantum of operational budget allocated to the Contractor for this purposes.

Notwithstanding any approval received from CCT, the contractor shall remain responsible for all work carried out by the 3rd party which the contractor procures.

5.1.9 FORMAT OF COMMUNICATION

All requests for formal approval from CCT, or any other body, shall be submitted in writing in hardcopy format. Interim payment claims shall be submitted in the same format, accompanied by an original tax invoice. Ad-hoc communication between CCT and the contractor may be conducted per electronic format (e-mail).

All plans and contract documents submitted for approval shall be in hardcopy format.

5.1.10 PERSONNEL

The contractor, who shall have verifiable experience and expertise in the management, operation and maintenance of similar sized WWTWs, particularly on CAS and MBR works, shall also maintain the involvement of the following key personnel (DWS requirements as guidelines)

- The operational personnel operating the Works on a 24-hour shift basis shall be accordingly DWS graded and registered

- ii) The daily maintenance and ongoing repairs and replacement with suitably qualified and experienced Millwrights, Electricians and Fitters, supported by condition monitoring, SCADA and other support specialists
- iii) The on-site laboratory and process control personnel
- iv) Security personnel or service providers

Should it become necessary to replace any of the key personnel listed at the time of tender during the course of this contract, they may only be replaced by individuals with similar or better qualifications and experience, who satisfy the requirements and then only with the approval of CCT.

5.1.11 LOCAL OFFICE

The current permanent address of the company Head Office must be that as indicated on Schedule C.1 DETAILS OF TENDERER/SUPPLIER: Returnable Schedules, and which will be regarded as the domicilium citandi et executandi for the purposes of any contract arising from this tender submission. If the Client requests an in-person meeting, such meetings may take place at a venue that will be disclosed, and the Employer shall provide the Service Provider with a notice, being not less than seventy-two (72) hours, to attend such meetings

5.1.12 SUPPORT RESOURCES

(Additional requirements that may be required on an ad hoc basis if and when needed)

The Tenderer shall provide suitably qualified and experienced support resources, systems and procedures as may be required.

It is essential that these Support Resources are available within South Africa, and preferably local, such that the necessary support can be provided within the specified Performance Compliance response times at (refer 5.2.2.3) any time throughout the year. If external or International Support Resources are used, Tenderer's must clearly demonstrate they have frequently used these as well as their immediate availability at any stage to ensure that the response times are achieved.

Tenderers must demonstrate their existing support resources currently being used at the tender close date as well as their location for providing the necessary support, systems and procedures necessary for this contract, covering, but not limited to:

- a) Management and Administration
- b) Human Resources and Industrial Relations
- c) Technical, including Asset Management and associated software
- d) Operations and Process - Key personnel must have internal access to and familiarity with, besides the Microsoft suite of software, simulation programmes, MBR membrane care and monitoring programmes and asset management software.
- e) Green Drop
- f) Legal and regulatory support, including audits, to ensure compliance in all respects
- g) ISO based systems, including
 - i) ISO 9001 Quality Management
 - ii) ISO 14001 Environmental Management
 - iii) ISO 45001 Occupational Health and Safety Management
 - iv) ISO 50001 Energy Management
 - v) ISO 17025 Testing and Calibration Laboratories
- h) IT
- i) Condition Monitoring Specialist, including scheduled vibration analysis and Infra-red scanning
- j) Instrumentation Technician
- k) SCADA specialist

MANAGEMENT MEETINGS

Once the contract has been awarded, Steering Committee (SC) meetings will be held monthly. The purpose of the SC meetings is for CCT to measure the performance of the contractor. The contractor will be required to feedback to the SC which includes the following: (1) the final effluent quality, (2) the

performance of each unit process,(3) reliability of the Assets,(4) planned expenditure vs actual expenditure, (5) environmental issues,(6) management of its quality management systems (ISO), (7) occupational health and safety,(8) development and updating of the procedures including safe working procedure and standard operating procedures, etc.

Among others, the contractor's Contract Manager and Plant Manager shall attend these meetings. The Contract Manager shall co-ordinate all relevant actions there from, together with the arranging of the minute taking, any presentations and distribution thereof.

5.1.13 CLAIMS FOR PAYMENT

The contractor shall submit monthly claims for payment by the 20th of each month. Payment will be effected between the 23rd and 26th of the next month. All claims must be accompanied by an original tax invoice.

The contractor shall submit an Activity Schedule that will detail the Contracted Services rendered for the month, as more fully set out in the Agreement.

5.1.14 PERFORMANCE INDICATORS

In general, the performance of the contractor shall be based, inter alia, on the following:

1. Final Effluent quality;
2. Sludge dewatering performance;
3. Planned maintenance;
4. Reactive and emergency repairs;
5. Consumption of consumables such as electricity, water, polyelectrolyte, chlorine, etc.
6. Health and Safety; and
7. General housekeeping.

5.1.15 PENALTIES

Penalties will be instituted for being non-compliant with the performance indicators. These will be determined based on the event which could either be controllable, in which case penalties will be instituted, or uncontrollable wherein the penalties will be imposed at the reasonable discretion of the Project Manager

5.1.16 CITY'S RIGHT TO RECOVER COSTS

CCT reserves the right to recover, by way of a deduction from any amount due to the Contractor, any additional cost which CCT incurs arising out of the non-performance or not achieving the Performance Compliance Criteria referred to in the Agreement, without prejudice to any of CCT's rights as set out in the Agreement.

5.1.17 APPENDICES

The Appendices contained in Part C9 shall be read together with the terms and conditions of the tender document.

5.2 SPECIFICATIONS

5.2.1 ABBREVIATIONS

The following abbreviations may be used in this contract document, but the Tenderer's must request further explanation if required prior to the tender close, as no claims will be considered by CCT for misinterpretation by the Tenderer.

BP	Belt Press
BOD	Biochemical Oxygen Demand
CAS	Conventional Activated Sludge Plant
COD	Chemical Oxygen Demand
DEA	Department of Environmental Affairs
DWS	Department of Water and Sanitation
DO	Dissolved Oxygen
DM	Dry mass
DS	Dry solids (has the same meaning as DM)
FE	Final Effluent
FSA	Free and Saline ammonia ($\text{NH}_3 + \text{NH}_4$) (mgN/l)
MBR	Membrane Bioreactor
MLSS	Mixed Liquor Suspended Solids concentration (mgTSS/l)
MLVSS	Mixed Liquor Volatile Suspended Solids concentration (mgVSS/l)
NO_3	Nitrate concentration (mg $\text{NO}_3\text{-N}$ /l)
OUR	Oxygen utilisation rate
RAS	Return Activated Sludge
RBCOD	Readily biodegradable COD concentration (mgCOD/l)
R_s	Sludge Age
SAP	Systems, Application and Products (in data processing)
SCC	Special Conditions of Contract (in Part C1.3 of this Contract Document)
SOP	Standard Operating Procedure
SST	Secondary Settling Tank
TKN	Total Kjeldahl Nitrogen (mgN/l)
TOC	Technical Operations Centre
TS	Total Solids
TSS	Total suspended solids (mgTSS/l)
V_p	Volume of reactor
VSS	Volatile Suspended Solids (mgVSS/l)
WAS	Waste Activated Sludge
WUL	The Water User License issued by DWS for the ZWWTW
WWTP	Wastewater Treatment Plant
WWTW	Wastewater Treatment Works (has the same meaning as WWTW)
ZWWTW	Zandvliet Wastewater Treatment Works and Associated Services
BMSS	Black Mac Screening Pump Station
DPR	Direct Potable Re-Use

5.2.2 OPERATIONAL CONTROL AND MAINTENANCE OBLIGATIONS OF THE CONTRACTOR

5.2.2.1 GENERAL

This section 5.2.2 should be read in conjunction with the issued DWS License (Appendix A) and the Penalty provisions (Appendix C).

- i) The Contractor shall operate the Assets to the design criteria or better requirements, and the Operation & Maintenance Manual.
- ii) The Contractor shall guarantee and warrant, subject to the provisions of this Agreement, that the Assets shall achieve at all times and under all conditions compliance with the applicable Law and the conditions of the Licence. (CCT busy with Licence Amendment)

- iii) The current DWS WUL conditions (see Appendix A) for the final effluent quality require compliance with the criteria below.

Table 5.2.2.1 Treated Water Quality Requirements

Specific Test Standard	Performance Indicator	Standard
COD	mgCOD/l	<75
TSS	mgTSS/l	25
Ammonia-Nitrogen (as N)	mgN/l	2
Orthophosphate (as P)	mg/l	1
Nitrate (as N)	mg/l	6
Chloride (as Cl)	mg/l	<200
Residual Chlorine (as Cl)	mgCl ₂ /l	0.1
<i>E. coli</i>	CFU/ 100ml	1000
pH	-	<6.5 to <8.0

- iv) The values and specific test standard referred to in Table 5.2.2.1 are subject to change/ revision by the Department of Water and Sanitation. Such a change/revision will accordingly require CCT to change the target values with which the Contractor will have to comply to the extent that the Works, as designed, is capable of performing.

5.2.2.2 PERFORMANCE COMPLIANCE CRITERIA

The Contractor shall guarantee and warrant, subject to the provisions of the Agreement, that the Assets shall achieve at all times and under all conditions the Performance Compliance Criteria included in this 5.2.2. "Downtime" shall be defined as the number of hours that the relevant affected process system of the Assets will be out of service for both planned and unplanned maintenance activities.

In the case of unplanned maintenance, reasonable consideration shall be given to control system failures, force majeure events including load-shedding, as well as the lead times for repairs or replacement of equipment as required by the OEMs and or suppliers, with a corresponding increase in the % downtime being granted. Twice yearly the Contractor shall table his reliability data for the scrutiny of CCT. Failure to do so shall result in the imposition of the appropriate penalty.

Table 5.2.2.2: Schedule of Performance Compliance Criteria

Guarantee Reference No.	Specific Test Standard and Name	Performance Parameter	Values
G1	COD	mgCOD/l	<75
G2	TSS	mgTSS/l	25
G3	Ammonia-Nitrogen (as N)	mgN/l	2
G4	Orthophosphate (as P)	mg/l	1
G5	Nitrate (as N)	mg/l	6
G6	Chloride (as Cl)	mg/l	<200
G7	Residual Chlorine (as Cl)	mgCl ₂ /l	0.1
G8	<i>E. coli</i>	CFU/ 100ml	1000
G9	pH	-	>6.5 - <8.0
G10	Reliability	Inlet SCADA and associated Process Control Equipment	Downtime over the financial year shall be < 5 %

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G11	Reliability	Inlet Trash Mac system	Downtime over the financial year shall be < 1 %
G12	Reliability	Inlet Screws systems	Downtime over the financial year shall be < 1 %
G13	Reliability	Inlet Coarse Screens systems	Downtime over the financial year shall be < 1 %
G14	Reliability	Inlet Fine Screens and associated plant systems	Downtime over the financial year shall be < 1 %
G15	Reliability	Inlet Screen Washing Systems	Downtime over the financial year shall be < 1 %
G16	Reliability	Inlet Grit Removal, Washing and Classifying Systems	Downtime over the financial year shall be < 1 %
G17	Reliability	Inlet Upper Screw pump systems	Downtime over the financial year shall be < 1 %
G18	Reliability	Primary Treatment systems	Downtime over the financial year shall be < 1 %
G19	Reliability	Secondary Treatment SCADA and associated Process Control Equipment	Downtime over the financial year shall be < 5 %
G20	Reliability	Secondary Treatment - Activated Sludge system	Downtime over the financial year shall be < 1 %
G21	Reliability	MBR Treatment, SCADA and associated Process Control Equipment	Downtime over the financial year shall be < 2 %
G22	Reliability	MBR Fine Screen System	Downtime over the financial year shall be < 1 %
G23	Reliability	MBR A Membrane Bioreactor system	Downtime over the financial year shall be < 1 %
G24	Reliability	MBR B Membrane Bioreactor system	Downtime over the financial year shall be < 1 %
G25	Reliability	MBR pump station system	Downtime over the financial year shall be < 1 %
G26	Reliability	Chlorination System	Downtime over the financial year shall be < 1 %
G27	Reliability	Liquor Return Pumping System	Downtime over the financial year shall be < 1 %
G28	Reliability	Polymer Preparation Plant system	Downtime over the financial year shall be < 1 %
G29	Reliability	Primary Belt Press system	Downtime over the financial year shall be < 1 %
G30	Reliability	Secondary Belt Press system (WAS)	Downtime over the financial year shall be < 1 %
G31	Primary Thickened Sludge (Per cent Dry Solids)	Thickened Sludge (Per cent Dry Solids)	>27%
G32	Secondary Thickened Sludge (Per cent Dry Solids)	Thickened Sludge (Per cent Dry Solids)	>12%

The Performance Compliance Criteria will be amended by agreement in accordance with the Regulators and/or DWS's requirements, insofar as the Work systems, as designed, are capable of performing.

Reliability will be monitored based as per capacity to meet operational requirements.

5.2.2.3 OVERALL RESPONSE TIMES

The Contractor shall at all times through the Contract have sufficient personnel, plant and equipment together with the necessary Support Resources to respond, 24 hours a day for 365 days a year, to any non-conformance or emergency within the response times scheduled below:

Performance Criteria Reference Number	Event	Response Time
PC1	Service disruptions affecting the whole of the works	2 hours
PC2	Service disruptions affecting less than 30% of the works performance	4 hours

In the case of unplanned maintenance and emergencies, system failures, events beyond the control of the Contractor, as well as the lead times for repairs or replacement of equipment as required by the OEMs and or suppliers, reasonable consideration shall be given to a corresponding increase in the response time will be granted by the Employer.

5.2.2.3 CONTRACTOR'S OBLIGATIONS

The Contractor shall be obliged to:

- i) continue to operate the Assets pending the settlement of any dispute;
- ii) in compliance with the Law, prevent any nuisance, offensive odours, noise, smoke or secondary pollution arising from the operation of the Assets;
- iii) ensure strict compliance with the Law in carrying out all of its obligations in terms of this Agreement;
- iv) give all notices and pay all fees required to be given or paid in terms of the Law;
- v) prepare and implement a contingency plan for the continued operation of the Assets in the event of strikes by its employees;
- vi) undertake the quality control set out in this Agreement for the proper control of, and the operation of the Assets and monitoring of its performance;
- vii) pay all operating expenses in connection with the Assets, excluding those expenses provided for in Appendix B;
- viii) immediately report all technical problems with the Assets to the Project Manager;
- ix) accept the Influent at the boundaries of the Site and treat it according to the existing process design of the Works subject to the provisions of SCC clause 18;
- x) continue the existing sludge handling and disposal process, subject to the provisions of SCC clause 18;
- xi) continue the existing process of disposing of grit and screenings, subject to the provisions of SCC clause 18;
- xii) perform the conventional measurement and testing of Influent, Effluent and intermediate processes in order to properly monitor the performance of the Works and its individual units and to comply with conditions of the Licence, and for the adjustment of the Contractor's remuneration;
- xiii) perform qualitative tests and quantitative measurements, which measurements must be made separately for each point of Influent to and Effluent from the Site. All measurements and test results must be recorded in writing, and copies must be submitted to CCT on a monthly basis, or as stated otherwise in this Agreement;
- xiv) perform and report on the tests to be carried out which are shown in the Tables in 5.2.2.3,

- including;
- a) tests by the Contractor's laboratory staff at the Works, including maintenance of all laboratory equipment and the provision of reagents and consumables;
 - b) tests by the Contractor's external SANAS accredited laboratories;
 - c) quarterly sludge classification for both primary and WAS sludges;
 - d) external surface and groundwater environmental monitoring as per license;
 - e) review and reporting on tests carried out by CCT's Scientific Services Laboratory;
 - f) additional tests as may be required by CCT from time to time.
- xv) have flow meters independently verified annually;
 - xvi) procure all chemicals, at its cost, for the belt presses, odour control, MBR membrane care and cleaning as well as disinfection;
 - xvii) enter into a supply agreement with Eskom for all energy supply, including the deposits and any guarantees required
 - xviii) pest control services, including rodents, moles and other vermin;
 - xix) legal inspections of structures, buildings

5.2.2.4 SECURITY AND ACCESS CONTROL

- i) The Contractor shall be responsible for:
 - a) preparation of a Security and Safety Plan
 - b) providing Security staff for Access Control;
 - c) providing immediate notification of serious security incidents to the City's designated representative.
 - d) providing Security staff for patrolling the Works, with check points and electronic recording of patrols and incidents for audit and reporting purposes;
 - e) maintaining a central control room, in communication with the Security staff;
 - f) providing all PPE, security plant, tools and equipment;
 - g) providing all cell-phones, radios and communication systems for all staff, linked to the control room;
 - h) providing full Armed Response services
 - i) investigation and reporting on all security breaches or events, including recommendations for security improvements to minimize future repetition of these events
- (ii) All security staff employed by the supplier on behalf of the CCT or at any CCT property must be registered with Private Security Industry Regulatory Authority (PSiRA) and should be employed as follows: (Current Approved Proposal)
 - a. 2 x B-Grade at entrance and 6 x C-Grade securities patrolling (during day shift)
 - b. 2 x B-Grade and 6 x C-Grade securities (during night shift)
 - c. K9 Services on-site
 - d. Security must have Roving Inspection Vehicle on-site to inspect & react fast to incident locations
 - e. Guards to perform visitor electronic access control scanning of vehicle licence discs, driver's licenses, as well as breathalyser testing and vehicle inspections.
 - f. Guards patrolling at night equipped with non-lethal weapons (Gas Pepper-Ball Guns)
 - g. Security Service to provide Cell phone and radio connection to their control room/centre
 - h. All security personnel and the security service provider must remain in good standing with PSiRA for the duration of the contract.
- (iii) The Contractor's Security Service Provider shall liaise with CCT's Security structures, as well as interface with SAPS if required, to ensure a co-ordinated approach to routine security, event notification and joint response procedures
- iv) The Security Service Provider shall submit monthly security reports, as well exception reports

within 12 (twelve) hours of any security breach or problem, and attending feedback meetings at least once per month.

5.2.2.5 GENERAL MAINTENANCE OBLIGATIONS OF THE CONTRACTOR

- i) The Contractor shall maintain the Assets including the MBR, according to the requirements of the Operation & Maintenance Manuals. The Contractor shall, within 28 days after the Commencement Date, submit a detailed Maintenance Plan based upon tendered maintenance plan, but incorporating all the requirements of the Operation & Maintenance Manuals. The Maintenance Plan shall be submitted both in electronic and (hard copy) paper format. There shall be an accompanying document illustrating for each item of equipment listed in the Maintenance Plan referenced to the relevant page in the Operation & Maintenance Manuals. The Maintenance Plan shall contain direction in terms of preventive, corrective and predictive maintenance of the Works.
- ii) Preventive maintenance shall be defined as adding and replacing lubricants, adjusting or replacing belts, replacing air filters, re-packing pumps, verifying proper operation through visual or hearing inspection, inspecting and replacing normal wearing parts, calibrating flow meters, samplers and analytical devices, and performing routine activities. This includes a specialised membrane programme, to ensure compliance to the OEM performance and guarantee requirements.
- iii) Corrective Maintenance shall be considered as procedures taken to prevent or correct Equipment failures, including major overhauls of Equipment.
- iv) Predictive Maintenance shall be considered as minimizing catastrophic failure and extend the service life of the Managed Assets. The Contractor or Subcontractor personnel shall be qualified to perform predictive maintenance procedures and evaluation of results. Predictive maintenance tools include, but are not limited to, the following:
 - a) Vibration analysis (including all rotating equipment), Tribology analysis of gearbox and engine lubricants;
 - b) Temperature monitoring;
 - c) Infrared thermography of electrical equipment;
 - d) Acoustic emission analysis (ultrasound), static motor winding testing and dynamic motor testing;
 - e) Pump/blower performance compared to design curves;
 - f) Running of all generators for a half-hour period per week and one monthly full load test for one hour, monitoring performance and outputs. The cost of fuel for these periods is for the Contractor's account;
 - g) Other predictive maintenance tools recommended by the Contractor and approved by CCT.
- v) The aforesaid obligations shall be performed as would be expected from a responsible proprietor. In the performance of its obligations, the Contractor shall at its own cost provide the management, control and control systems, labour, materials, tools and equipment, consumables and whatever is necessary to perform its duties effectively in terms of this Agreement.
- vi) The Contractor shall maintain the Assets as documented in the Maintenance Plan. Failure to adhere to the Maintenance Plan shall be a breach of the Agreement, and notwithstanding CCT's right in this regard entitle CCT to hire other contractors to maintain the Assets. The costs thereof shall be borne by the Contractor. The contractor hired to maintain the Assets as a consequence of non-performance by the Contractor shall be appointed by CCT, in its sole and absolute discretion.
- vii) The Contractor shall not be responsible for the replacement costs of the terms referred to in the Exclusions as per Appendix B.

5.2.2.6 GENERAL MAINTENANCE OF BUILDINGS AND GROUNDS

The Contractor shall be responsible for Buildings and Grounds maintenance at the Site. The Buildings and Grounds maintenance for the Site includes, at a minimum, the following:

- i) Maintain the buildings, including repair and restoration of damaged or deteriorated exterior and interior finishes. Any structural damage shall be repaired promptly as required to maintain the integrity of the structure.
- ii) Maintain grounds and landscaping in an aesthetically attractive and clean condition. All areas shall remain litter-free. Maintain all plantings and trees with watering, pruning, mulching and other services. Any existing trees or plantings, or plantings provided by the Contractor that die shall be replaced. Mow grass and lawn areas within the Site, and a 3 meter wide strip long the outer fence-line where access is permitted, during the growing season and as needed at other times to maintain growth at less than 150mm. Maintain safe and clear access to all of the Assets, roadways, walkways, sidewalks, and parking areas. Sweep roadways and parking areas as needed, of sand, dirt and gravel.
- iii) Paint the buildings and equipment situated on the Site in order to prevent erosion and corrosion.
- iv) Inspect the roofs to identify any potential leaks. Major leaks shall be repaired immediately upon discovery and minor leaks within thirty (30) days of discovery. The Contractor shall be responsible for repairing any inside damages resulting from a roof leak.
- v) Implement regularly scheduled pest control measures as required, and immediately upon discovery of potential pest infestations.
- vi) Repair all plumbing leaks and failures promptly upon discovery.
- vii) Immediately contain all spills and clean or dispose of materials in accordance with the Contractor's Safety Plan.
- viii) Provide continuous rubbish/solid waste removal.
- ix) Chemical and hazardous material storage in accordance with the Law.
- x) Provide On-site storage of metal scrap for recycling. Any monies received from scrap metal shall be credited to CCT.

5.2.2.6 CLEANING SERVICES

The Contractor shall

- i) Vacuum and spot clean carpets on a weekly basis.
- ii) Spot clean windows, doors and walls on a weekly basis.
- iii) Strip and seal all uncarpeted floors on a monthly basis.
- iv) Dust all areas including window sills and ledgers weekly.
- v) Clean and disinfect all toilet bowls, seats, hand basins and urinals on a daily basis.
- vi) Test and clean spouts of dispensers. Replenish as required
- vii) Replenish soap dispensers and toilet rolls as required.
- viii) Scrub and seal ceramic tiles on a weekly basis.
- ix) Wipe and sanitize lockers on a weekly basis.
- x) Scrub of showers on a weekly basis.
- xi) Clean counter tops, fridges, microwave ovens, cupboards and polish on a daily basis. (Inside out)

- xii) Empty and wash waste bins on a daily basis.
- xiii) Supply black bags for disposal of rubbish.
- xiv) Remove and shake all loose mats on a daily basis.
- xv) Dust and dry polish all office furniture and telephones on a daily basis.
- xvi) Clean all taps, metal works, mirrors and other fittings on a weekly basis.
- xvii) Sweep and dust all staircases, balustrades and handrails on a weekly basis.
- xviii) Clean cafeteria benches on a daily basis.
- xix) Clean kitchens on a daily basis.
- xx) Clean windows on a monthly basis.
- xxi) Provide all machinery, equipment, materials and chemicals necessary in attending to this service.
- xxii) Clean entrance and exit of admin building daily.
- xxiii) Ensure cleaning staff report to office and sign daily attendance register.
- xxiv) Submit invoices according to staff attendance.
- xxv) Ensure weekly site visit by a supervisor.

5.2.2.7 ROADS AND PAVEMENTS

The Contractor shall be responsible for the following roads and pavement maintenance:

- i) Maintain all paved areas within the boundary fence of the Site to promote proper drainage of surface water and to provide for safe vehicular and pedestrian movement. The integrity of the roadways and parking areas maintained at a level or better condition than present at the Commencement date.
- ii) Structural failures shall be repaired promptly, but no later than sixty (60) days from discovery. The Contractor shall promptly repair cracks, erosions, depressions and potholes in roads, driveways, pavements and other areas, as necessary, upon discovery or notification.
- iii) Seal cracks at all asphalt and paved areas that exceed one (1) centimetre in width and half a metre in length no later sixty (60) days from discovery.
- iv) Perform asphalt paving and restoration work of areas requiring repair or impacted by Contractor work in accordance with the current standards, as applicable.
- v) Provide restriping and repainting of parking spaces, restricted areas, road lines, etc., and kerb repair as needed to maintain visibility of areas and in accordance with City's standards;
- vi) Keeping grass and paved areas free of weeds, including appropriate weed killing agents

5.2.2.8 SCADA AND INSTRUMENTATION AND PROCESS CONTROLS SYSTEMS MAINTENANCE

- i) The Contractor shall be responsible for all maintenance work for all components of the SCADA system, and instrumentation and control systems at the Works. The maintenance on all components of the Works shall be in accordance with manufacturer's recommendations to maintain warranties, if any, and shall include all other necessary maintenance tasks to assure uninterrupted, reliable operation of the systems.

The tasks that should be performed during the SCADA routine maintenance shall include the following:

- a) Monitor users and the training thereof
- b) Monitor system processes

- c) Monitor daily CPU usage
 - d) Examine log files
 - e) Correct OS errors
 - f) Correct SCADA generated errors
 - g) Backup critical data
 - h) Verify routine fall-over
 - i) Verify that the backup system switches correctly before any unanticipated system crash
 - j) Verify data shadowing is working correctly between primary and backup systems
 - k) Locate bottle necks
 - l) Identify and resolve bugs
 - m) Routine audit, assessment and refreshing all programmes, computer and printing equipment, telemetry, PLC and SCADA systems,
- ii) The annual Maintenance, Repair and Replacement Plan shall address the need for inclusion and frequency (at least semi-annually or annually) of the following preventative maintenance activities to be performed for the SCADA system and other devices, unless noted otherwise and agreed to in the approved annual Maintenance Plan:
- a) Survey of instrumentation and analytical devices;
 - b) Inspect panel door, handle, disconnect, etc., for proper operation;
 - c) Interior and exterior panel corrosion check;
 - d) Check conduit entries for water leak incursion;
 - e) Check cabinet door gasket and sealing clasp hardware;
 - f) Check that all relays, cards, components are fully and securely seated;
 - g) Confirm pneumatic air supply set properly, as required;
 - h) Perform pneumatic tubing condition check and tubing/fittings leak test as required.

5.2.3 WORK PLANS AND REPORTING REQUIREMENTS

5.2.3.1 GENERAL

A proposed work plan must be provided with the tender submission, attached to Schedule F.13.C, Returnable Schedules, which must be of sufficient detail (but preferably not more than 60 pages in length) to indicate that the project brief has been understood. That is, tenderers must show that they have appreciated that the nature of the problem, and indicate the approach and methodology that they intend following in order to reach the required outcome.

The tenderer shall provide the following, in the work plans for this contract, addressing the contract specification and deliverable requirements, and based on demonstrated existing workplans for municipal wastewater treatment works (WWTWs) used by the tenderer on its municipal management, operation and maintenance contracts in South Africa.

The tenderer shall provide the following, in the work plans for this contract, addressing the contract specification and deliverable requirements, and based on demonstrated existing workplans for municipal wastewater treatment works (WWTWs) used by the tenderer on its municipal management, operation and maintenance contracts in South Africa.

- a) Operations and Maintenance Plan, including;
 - process audits on the Wastewater Treatment Plants;
 - extracts of daily process monitoring and process control sheets;

- an example of a method statement of programming a process changes and a Standard Operating Procedure;
- Process investigation on the Wastewater Treatment Plants;
- process modelling and optimisation software and approach.
- Budget and expenditure program
- b) Water Conservation Plan
- c) Energy Management Plan, including detailed simulation models used by the bidder in its rates for energy consumption
- d) Sampling and Laboratory QA/QC Plan addressing:
 - the required daily, weekly, monthly and annual quality monitoring schedules for specified determinants
 - handling non-compliances and retesting
 - reporting, exception reporting and any required inputs for the DWS IRIS system
- e) Flow and Rain Monitoring QA/QC Plan
- f) Infrastructure and Asset Management and Maintenance Plans, covering amongst others
 - Mechanical and Instrumentation audits on Wastewater Treatment Plants
 - SAPS or other Asset Management system, covering asset inventory, condition grades, residual life and replacement values; maintenance, repair and replacement job cards, data capture, itemised history, reports, etc.
 - An example of the data collected and the management of the information.
- g) Wet weather Operations Plan
- h) Residuals (Sludge, grit, screening, waste, etc) Management Plan
- i) Incident Management Plan
- j) Capital Improvements Recommendations Plan
- k) Odour Control Plan
- l) Risk, Health and Safety assessment and abatement measures, including W2RAP
- m) Emergency Preparedness and Response Plan including the Emergency Procedure and Incident Protocols; SHEQ policies and procedures, including an extract of the Risk, Health and Safety statistics collected on a monthly basis
- n) Spill Prevention and Cleanup Plan
- o) Security Plan for bidders security service and interfacing with CCT's security cluster.
- p) Personnel including;
 - immediate mobilisation key personnel
 - the transition period
 - Human Resource and Industrial Relations policies and procedures
 - training and development, addressing ongoing annual training in terms of Regulation 3630 of the National Water Act
 - confirmation of the specified organogram, with examples of the shift roster and number of staff per shift
- q) Record Keeping and Reporting Plan
- r) Communications Plan, internal, with CCT and local communities and stakeholders
- s) SAP system Plan
- t) Green Drop Plan
- u) Laboratory Plan covering
 - Staffing, operating and maintaining the on-site laboratory, using SANAS systems and procedures
 - interaction with CCT's scientific Services laboratory
 - the use of the bidders external SANAS accredited laboratory service
- v) ISO Plan, systems, procedures, implementation, monitoring and corrective actions
- w) The Membrane Care Plan, covering
 - Daily maintenance and care programme
 - Analyses of membrane performance per train (including Flux, TMP, permeability, permeate Turbidity amongst others) as well as a full permeate quality analyses per train as per the specification
 - Daily, weekly and annual membrane cleaning in accordance with the OEM specification and warranty requirements
 - Maintaining all logs and records to support possible guarantee queries
 - Compiling a detailed monthly report, including graphical trends, responding to all the OEM's specification and guarantee requirements as well as those of CCT.
 - Actions to be taken to address any premature deterioration or failing of the performance or integrity of the membrane cassettes

More comprehensive and detailed work plans shall be submitted by the successful bidder on Contract Commencement as specified, within the timeframe's schedules elsewhere. These shall be updated and submitted for approval on an annual basis as specified.

- i) At a minimum, the Contractor shall prepare and submit daily, weekly, monthly, quarterly and annual reports to CCT, in the manner form and time frames as stated in Table 5.2.3.1, and as detailed more fully within the document. The Contractor shall be responsible for preparing and submitting all reports required by CCT in both hard and electronic copies. Reports shall be submitted to the Project Manager or his/her designee. The format of the reports shall be in accordance with the structure and format as agreed upon by CCT. Reports should include graphical presentation of information where applicable.
- ii) The Contractor shall submit all reports electronically and a minimum of 2 hardcopies of each report as directed by CCT unless a lesser number is approved by CCT. Each report shall be signed by the Contractor's Project Manager or his/her designee. The Contractor shall prepare the reports in a format, as approved by CCT

The Contractor shall make no statement in a submittal it signs that would be contrary to City's policy or would otherwise impose an unreasonable cost or burden on CCT unless approved by CCT.

Table 5.2.3.1: Reports Required by CCT

Frequency	Type of Information	Final Submission Date
Contract Commencement	All Plans, procedures and Reports as per the Contract requirements	As scheduled
Daily	- Effluent Inflows vs rainfall (5 yr flow data) - On-site laboratory report and compliances - Daily diaries available for inspection - Access Control records available for inspection	By close of business By close of business
Within 24 hours	- Environmental and/ or Emergency Report - Uncontrollable Circumstances Report - Final effluent, if non-compliant - Security breaches or problems	By close of business
Weekly, <i>inter alia</i>	- Flows, (daily and averaged for the week) - Daily analysis on Plant performance to be included - Rainfall data - Final Effluent Compliance Report - Process Unit Operation performance - Recording of equipment running hours - Influent raw wastewater quality - Maintenance undertaken - Customer Relations Management (CRM) - Odour Control	Every Friday
Monthly Report detailing amongst others	- Executive report, including trend graphs - Personnel changes, training - Operations Report, including inter alia; – verified flows, across various streams – rainfall data – process monitoring and adjustments – quality reports/IRIS data capture & results – sludge treated (both PST's and WAS) – sludge quality & metals content – grits & screenings removed – treated sludge removed – chemical stocks, usage & efficiencies – energy usage – load shedding and power disruption – generator hours & diesel consumption – incidences, non-compliances & corrective actions	No later than seven (7) days after the end of each Month

	- hour meter readings • Maintenance Report, including inter alia: - asset maintenance carried out; - building and structures inspections - repair & replacement quotes, approvals and status - equipment availability - outages and technical issues - emergencies - service disruption • Odor Control review report • Security Report, incidents and actions • Risk Management • Environmental Monitoring • Health & Safety Report - inspection & audits - findings and corrective actions - training • Machinery Safety Assessment Report by GMR2(7) • Correspondence register • Financial & Contractual - Performance Compliance status - Certificate and VAT invoice - payment status - escalation - claims and variation status - disputes - budgets - penalties • monthly meeting and minutes • membrane care report	
Quarterly report summarizing	• Performance Compliance Report • Security Report • Operations & Maintenance Reports • Odor Control Report • CRM • Performance & Quality Report • Personnel structure and Training Report • Health & Safety Report • Environmental Report • Sludge Classification Certificates/Reports • Asset Inventory	Every 15th of April, July, October and January
Semi-Annually	In addition to the reports for the quarterly report, this report will include: • Flow meter and Rain gauge Calibration Reports • Spare Parts Inventory • Bi-annual operation & maintenance report	Every 15th of July and January
Annually	• Annual Operation and Maintenance Report • SOP review, update and issue • Annual Performance Compliance Report • Annual Inventory of Fixed Assets • Asset Condition Grade Assessments • Annual Inspection Report • Independent Structural Inspection Report • Performance Evaluation • Sludge Management report • Annual Quality test report • W2RAP Report • Green Drop initiatives/audit preparations • Annual Process Audit (external) • Annual DWS License Compliance audit (internal) • Water User License status/review (external)	No later than thirty (30) days after 30 June

	& internal) • Emergency Preparedness plan/report • Contract status, variations review • Asset capital & improvement Plan • Budget This report focuses on the specific financial year's performance	
Annually	• Report on the showing comparison to previous years' performance	No later than thirty (30) days after 30 June
Other Reports	• Any other reports that the Project Manager may require from time to time	As required

5.2.3.2 UNCONTROLLED EVENT REPORT

In the event of the occurrence of an uncontrolled event, the Contractor shall immediately notify CCT detailing:

- i) nature of the event;
- ii) effect of the event upon the Works or Assets;
- iii) mitigation and/or repairs required (if any);
- iv) cost (if claimable from CCT in terms of the contract) of rectifying the effect of the event.

5.2.3.3 LABORATORY REPORTS

To monitor compliance with the DWS and License standards, the Contractor shall take the necessary samples across the various process streams and sampling points as per the tables below. These are to be tested by and reported upon by the Contractor using either the Works laboratory and/or the Contractor's external SANAS accredited Laboratories or by CCT's Scientific Services laboratory as indicated below.

These tests shall include 24-hour composite sample consisting of 24 samples taken at 1-hour intervals and composited on an equal volume basis, of the Influent wastewater and Final effluent for on-site analyses. Once a week, the sample shall be split and one half sent to CCT's Scientific Services Branch for analyses. The submission day shall be agreed between Contractor and CCT. In addition to the samples submitted for analyses, the inflow, final effluent and WAS flow data will be included in the chain of custody form for submission. The results of the analyses shall be submitted to the Contract Manager in the weekly report. In the event that the composite sample of the final effluent fails to meet the quality requirements stated, the Contractor shall submit daily samples until such times as the quality requirements are met.

The Contractor shall include for the cost of all sampling and laboratory staff at the Works, chemicals, consumables, data capture on DWS's IRIS system where applicable and reporting. The Works laboratory testing methods, procedures and reporting must comply to the SANAS requirements

The location of the sample's points, analyses and reports required are shown in Tables 5.2.3.3-1 to 5.2.3.3-4 below:

The testing requirements may be adjusted at the sole discretion of CCT, with any rate adjustments, if any, agreed between the Parties:

(REQUIRED TESTS ON FOLLOWING NEXT PAGE)

TABLE 5.2.3.3-1: TESTS BY THE CONTRACTOR AT THE WORKS LABORATORY

Parameters	Number Analyses per Day	Specified Range As per design	Total Suspended Solids mg/l	Volatile Suspended Solids mgVSS/l	Settleable Solids %	Total Solids %	COD mgO/l	TKN mgN/l	Ammonia mgA/l	Total Phosphorus mgP/l	Ortho-Phosphate mgP/l	pH	Conductivity mS/m	Chloride mgCl/l	Alkalinity mgCaCO ₃ /l	SVI ml/g	DSVI (Calculation ?) ml/g	Nitrate mgN/l	Nitrite mgN/l	E.coli per 100 ml	Faecal Coliform per 100 ml	Residual Chlorine mg/l
Raw Influent - Combined Inlet	1	COD 1120 < 1400 mg/l	D	D	D		D	D	D	D	D	D	D	D	D							
Raw Influent Khayelitsha	7						D															
Raw Influent Blue Downs (Delft)	7						D															
Raw Influent Monwabisi	7						D															
Raw Influent PST's (Splitter box)	1		D	D	D		D	D	D	D	D	D	D	D	D							
PST 1 Overflow	1		D				D					D										
PST 2 Overflow	1		D				D					D										
PST 3 Overflow	1		D				D					D										
PST 4 Overflow	1		D				D					D										
PST Combined Overflow to CAS	1		D	D	D		D	D	D	D	D	D	D	D	D							
CAS A Reactor - MLSS at outflow	1		D	D	D				D		D	D				D	D	D	D			
CAS B Reactor - MLSS at outflow	1		D	D	D				D		D	D				D	D	D	D			
Clarifiers (SST's) -CAS A combined	1		D				D		D		D	D	D	D	D			D	D			
Clarifiers (SST's) -CAS B combined	1		D				D		D		D	D	D	D	D			D	D			
CAS A Return Activated Sludge- MLSS	1		D																			
CAS B Return Activated Sludge- MLSS	1		D																			
CAS A+B Final Effluent post chlorine	1		D				D		D		D	D	D	D	D			D	D	D	D	D
MBR A+B Influent post MBR fine screens	1		D	D	D		D	D	D	D	D	D	D	D	D							
MBR A Reactor– MLSS post Aeration zone	1		D	D	D				D		D					D	D	D	D	D	D	
MBR A - Anaerobic MLSS	1		D																			
MBR A - Anoxic MLSS	1		D																			
MBR B Reactor 1 - Anaerobic MLSS	1		D																			
MBR B Reactor 1 - Anoxic MLSS	1		D																			
MBR B Reactor 1 - Aerobic MLSS	1		D	D	D				D		D					D	D	D	D	D	D	
MBR B Reactor 2 - Anaerobic MLSS	1		D																			
MBR B Reactor 2 - Anoxic MLSS	1		D																			
MBR B Reactor 2 - Aerobic MLSS	1		D						D		D							D	D			
MBR B Reactor 3 - Anaerobic MLSS	1		D																			
MBR B Reactor 3 - Anoxic MLSS	1		D																			
MBR B Reactor 3 - Aerobic MLSS	1		D	D	D				D		D					D	D	D	D	D	D	
MBR A Final Effluent	1		D				D		D		D	D	D	D	D			D	D	D	D	
MBR B Final Effluent	1		D				D		D		D	D	D	D	D			D	D	D	D	
MBR A+B Final Effluent Combined	1																			D		
MBR A Return Activated Sludge - MLSS	1		D																			
MBR B Return Activated Sludge - MLSS	1		D																			
ZVT Final Effluent Limits			25				< 75		2		1	>6.5 - >8.0	75	<200				6		1000		0.1
ZVT Final Effluent to river Channel	1		D				D		D		D	D	D	D	D			D	D	D	D	D

Note: D=Daily Tests

Parameters	# Analyses per Day	P Target	Total Suspended Solids	mg/ℓ	Volatile Suspended Solids	mg VSS/ℓ	Settleable Solids	%	Total Solids	%	COD	mg O/ℓ	TKN	mg N/ℓ	Ammonia	mg A/ℓ	Total Phosphorus	mg P/ℓ	Ortho-Phosphate	mg P/ℓ	pH	Conductivity	mS/m	Chloride	mg Cl/ℓ	Alkalinity	mg CaCO ₃ /ℓ	SVI	mℓ/g	DSVI (Calculation ?)	mℓ/g	Nitrate	mg N/ℓ	Nitrite	mg N/ℓ	E.coli	per 100 mℓ	Residual Chlorine	mg/ℓ
DWF Primary Sludge Feed	2		D	D																							D	D											
Prim BP 1 Cake	2			D		D																					D	D											
Prim BP 2 Cake	2			D		D																																	
Prim BP 3 Cake	2			D		D																																	
Prim BP 4 Cake	2			D		D																																	
Primary Filtrate PS	2		D		D																																		
DWF WAS Sludge Feed	2		D	D																							D	D											
WAS BP 1 Cake	2							D																															
WAS BP 2 Cake	2							D																															
WAS BP 3 Cake	2							D																															
WAS BP 4 Cake	2							D																															
WAS BP 5 Cake	2							D																															
WAS BP 6 Cake	2							D																															
WAS Filtrate BP 1	2		D																																				
WAS Filtrate BP 2	2		D																																				
WAS Filtrate BP 3	2		D																																				
WAS Filtrate BP 4	2		D																																				
WAS Filtrate BP 5	2		D																																				
WAS Filtrate BP 6	2		D																																				
WAS Filtrate PS	2		D																																				

Note: D= Daily Tests

DO readings shall be taken daily or more frequently as required at all points necessary for effective process control

TABLES 5.2.3.3-2: TESTS BY CONTRACTOR'S EXTERNAL SANAS ACCREDITED LABORATORY

Parameters	Number Analyses per week	Specified Range	Total Suspended Solids	mg/l	Volatiles Suspended Solids	Mg VSS/l	Settleable Solids	%	Total Solids	%	COD	mg/l	TKN	mg N/l	Ammonia	mg A/l	Total Phosphorus	mg P/l	Ortho-Phosphate	mg P/l	pH	Conductivity	ms/m	Chloride	mg Cl/l	Alkalinity	mg CaCO ₃ /l	Nitrate	mg N/l	Nitrite	mg N/l	E.coli – Lab 1 (split sample)	per 100 ml	E.coli – Lab 2	mg/l	Residual Chlorine	mg/l	Faecal Coliforms	Per 100ml
Raw Influent - Combined Inlet	1		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Final effluent	1		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
MBR A - Effluent	1																																						
MBR B - Effluent	1																																						

Note: W=Weekly Tests

Parameters	Number Analyses per quarter	Specified Range	Total Solids	%	Volatile Solids	%	Volatile Fraction	%	Volatile Fatty Acids	%	TKN	mg N/kg	Total Phosphate	mg P/kg	Potassium	mg K/kg	Arsenic	mg As/kg	Cadmium	mg Cd/kg	Chromium	mg Cr/kg	Copper	mg Cu/kg	Lead	mg Pb/kg	Mercury	mg Hg/kg	Nickel	mg Ni/kg	Zinc	mg Zn/kg	Faecal Coliform	no per g	Total viable Helminth ova	ova/4g	Additional tests as below	mg N/ℓ
PST Sludge Test & Classification	3		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		#	
WAS Sludge Test & Classification	3		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		#	

Note: Q= Every 3 months or as per DWS Licence Requirements

= also test for Al, Co, Cn, Fe, Mn, Mo, Sc, V, B, F, Na, Ca, Mg on a quarterly basis

TABLES 5.2.3.3-3: TESTS BY CITY'S SCIENTIFIC SERVICES LABORATORY

Parameters	Number Analyses per week	Specified Range	Total Suspended Solids	mg/ℓ	Volatile Suspended Solids	mg VSS/ℓ	Settleable Solids	%	Total Dissolved Solids	%	COD	mg/ℓ	COD (Filtered)	mg/ℓ	TKN	mg N/ℓ	Ammonia	mg A/ℓ	Total Phosphorus	mg P/ℓ	Ortho-Phosphate	mg P/ℓ	pH	Conductivity	mS/m	Chloride	mg Cl/ℓ	Alkalinity	mg CaCO ₃ /ℓ	Nitrate	mg N/ℓ	Nitrite	mg N/ℓ	E.coli	per 100 ml	Residual Chlorine	mg/ℓ
Raw Influent - Combined Inlet	1		W	W	W		W		W		W		W		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Primary Effluent- PST Overflow	1		W	W			W		W		W		W		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Secondary Effluent A	1		W				W		W		W		W		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Secondary Effluent B	1		W				W		W		W		W		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Secondary Effluent combined	1				W		W		W		W		W		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
MBR Inlet	1		W	W	W		W		W		W		W		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
MBR A - Final Effluent	1		W				W		W		W	W		W		W		W		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
MBR B AT B1	1		W	W	W																	W															
MBR B AT B1 - RAS	1		W																																		
MBR B AT B2	1		W	W	W																																
MBR B AT B2 - RAS	1		W																																		
MBR B AT B3	1		W	W	W																																
MBR B AT B3 - RAS	1		W																																		
MBR B – Final Effluent	1		W				W	W	W		W	W		W		W		W		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Final Effluent	1		W	W		W	W	W	W		W	W		W		W		W		W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W

Note: W=Weekly Tests

Parameters	Number Analyses per week	Specified Range	Total Suspended Solids mg/l	Volatile Suspended Solids mg VSS/l	Conductivity mS/m	COD mg/l	Sodium mg Na/l	Potassium mg K/l	Calcium mg Ca/l	Ammonia mg A/l	Magnesium mg Mg/l	Ortho-Phosphate mg P/l	pH	Sulphate mg SO ₄ /l	Chloride mg Cl/l	Inorganic Nitrogen mg N/l	Nitrate mg N/l	Nitrite mg N/l	Hydrogen Sulphide	Residual Chlorine mg/l
Upstream of Works	1					W	W	W	W	W	W	W	W	W	W	W	W	W		
Downstream of Works	1					W	W	W	W	W	W	W	W	W	W	W	W	W		
Odour monitoring (around the Works)	6																		W	

Note: W=Weekly Tests

Parameters	Number Analyses per week	Specified Range	Total Suspended Solids mg/l	Volatile Suspended Solids mg VSS/l	Cake Volatile Solids mg VS/l	Settleable Solids mL/l	Total Solids %	Cake Total Solids %	Volatile Suspended Solids %	Ash Content %	SVI mL/g	DSVI mL/g	Ash Content mg A/l	Total Phosphorus mg P/l	Ortho-Phosphate mg P/l	pH	Conductivity mS/m	Chloride mg Cl/l	Alkalinity mg CaCO ₃ /l	Nitrate mg N/l
Activated Sludge A - MLSS	1		W	W		W			W		W	W				W				
Activated Sludge A - RAS	1		W																	
Activated Sludge B - MLSS	1		W	W		W			W		W	W				W				
Activated Sludge B - RAS	1		W																	
Central WAS collection Sump	1						W													
WAS Belt Press Feed	1			W			W		W											
WAS Belt Press 1	1		W					W												
WAS Belt Press 2	1		W					W												
WAS Belt Press 3	1		W					W												
WAS Belt Press 4	1		W					W												
WAS Belt Press 5	1		W					W												
WAS Belt Press 6	1		W					W												
WAS combined Filtrate Sump	1		W																	
Primary Belt Press feed	1		W		W			W												
Primary Belt Press 1	1		W		W			W												
Primary Belt Press 2	1		W		W			W												
Primary Belt Press 3	1		W		W			W												
Primary Belt Press 4	1		W		W			W												
Primary Belt Press combined filtrate	1		W																	
MBR A - MLSS	1		W	W		W					W	W				W				
MBR A - RAS			W																	

Note: W=Weekly Tests

TABLE 5.2.3.3-4: TESTS BY CITY'S SCIENTIFIC SERVICES LABORATORY

The following tests to be carried out as below in accordance to the License and regulations. CCT may request the Contractor to carry out some or all of these tests at an external, accredited SANAS laboratory on an agreed payment basis

Parameters	Specified Range	Raw Influent	Final Treated Effluent	Surface Water Points	Ground Water Points (boreholes)
Arsenic as AR		1 x A	1 x A	4 x A	6 x A
Boron as N		1 x A	1 x A	4 x A	6 x A
Cadmium as Cd		1 x A	1 x A	4 x A	6 x A
Calcium as Ca		1 x A	1 x A	4 x A	6 x A
Chloride as Cl		1 x A	1 x A	4 x A	6 x A
Copper as Cu		1 x A	1 x A	4 x A	6 x A
Cyanides as Cn		1 x A	1 x A	4 x A	6 x A
Fluoride as F		1 x A	1 x A	4 x A	6 x A
Iron as Fe		1 x A	1 x A	4 x A	6 x A
Lead as Pb		1 x A	1 x A	4 x A	6 x A
Magnesium as Mg		1 x A	1 x A	4 x A	6 x A
Mercury as Hg		1 x A	1 x A	4 x A	6 x A
Nickel as Ni		1 x A	1 x A	4 x A	6 x A
Nitrate as N		1 x A	1 x A	4 x A	6 x A
Phenolic compounds as phenols		1 x A	1 x A	4 x A	6 x A
Ortho-phosphate as P		1 x A	1 x A	4 x A	6 x A
Total phosphates as P		1 x A	1 x A	4 x A	6 x A
Sodium as Na		1 x A	1 x A	4 x A	6 x A
Sulphides as S		1 x A	1 x A	4 x A	6 x A
Sulphate		1 x A	1 x A	4 x A	6 x A
Selenium as Se		1 x A	1 x A	4 x A	6 x A
Zinc as Zn		1 x A	1 x A	4 x A	6 x A
Vanadium as V		1 x A	1 x A	4 x A	6 x A
Magnesium Sulphate as $MgSO_4$			1 x A	4 x A	6 x A
Sodium Sulphate as Na_2SO_4			1 x A	4 x A	6 x A
Magnesium Chloride as $MgCl$			1 x A	4 x A	6 x A
Calcium Chloride as $CaCl_2$			1 x A	4 x A	6 x A
Sodium Chloride as $NaCl$			1 x A	4 x A	6 x A
FOG		1 x A	1 x A	4 x A	6 x A
TKN		1 x A	1 x A	4 x A	6 x A
Suspended Solids		1 x A	1 x A	4 x A	6 x A
VFA		1 x A	1 x A	4 x A	6 x A
%VFA		1 x A	1 x A	4 x A	6 x A
VSS		1 x A	1 x A	4 x A	6 x A
%VSS		1 x A	1 x A	4 x A	6 x A
% Solids		1 x A	1 x A	4 x A	6 x A
MLSS		1 x A	1 x A	4 x A	6 x A
Total Residual Chlorine			1 x A	4 x A	6 x A
SAR			1 x A	4 x A	6 x A
Total Plate Count		1 x A	1 x A	4 x A	6 x A
e.Coli		1 x A	1 x A	4 x A	6 x A

5.2.3.4 MONTHLY REPORTS

The Contractor shall prepare and submit within 3 Business Days of the end of the month an Operation and Maintenance Report relating to the operation and maintenance of the Assets for the previous month. This report shall, *inter alia*, include the following information:

i) General

- a) Current and year-to-date compliance with the Performance Compliance Criteria and requirements in the form of a checklist, along with comments denoting problems/issues;
- b) Compliance with contractual requirements for the preventive, corrective and predictive maintenance of the Assets as described in 5.2.2.5; Compliance with the Contractor's obligations as set out in the Agreement, including applicable Law, or other regulatory requirements, along with comments denoting problems or issues and actions taken by the Contractor to remedy;
- c) Quantities of electricity, fuel, oil, water, and other Utilities or consumables used during the month, and information on any utility outages occurring during the reporting month, the effect, if any, on operations and steps undertaken;
- d) Results of daily and monthly review of electricity and water usage. Utility bills to be verified accuracy and correct utility usage and rates. Report on status of action taken and progress in respect of disputed bills;
- e) Financial information indicating monthly expenditures in terms of equipment, utilities, consumables, materials, supplies, energy and any unusual labour costs (including overtime and temporary staff). The information must distinguish between actual and anticipated expenditures. An electronic copy of the spreadsheet documenting such expenditures should also be submitted in Microsoft Excel format and/or included SAP readable or any other format specified by CCT;
- f) Inventory of all spare parts, chemicals and other consumables used in the previous month and the quantities in storage;
- g) List of all customer service requests (including odour complaints) received by the Contractor and actions/proposed actions taken;
- h) Results of any regulatory or insurance inspections conducted during the reporting month, including follow-up actions by the Contractor;
- i) Description of any incidents (such as hazardous materials emergencies, security breaches, accidents or adverse conditions) that did or may have impacted the operation of the Assets during the reporting month or may be expected to arise during the following month that could affect the ability of the Contractor to receive and treat wastewater in accordance with the Agreement, together with proposed steps being taken to address such conditions;
- j) Status of special studies and investigations requested by CCT.

ii) Operation and Maintenance Reports

Process operations data/information for the Works, as required under the Licence and by CCT, including, but not limited to, the following: (CCT busy with Licence Amendment)

Daily, weekly and monthly flowrates and masses (where applicable) for the following:

- a) Raw Influent;
- b) CAS Reactor Feed;
- c) MBR Reactor Feed;
- d) CAS Effluent;
- e) MBR Effluent x 2;

- f) Final Effluent;
- g) CAS RAS; WAS
- h) MBR RAS; WAS x2
- i) Volume of Sludge per Belt (PST & WAS);
- j) Filtrate Return Flow;
- k) Total Mass of exported Sludge, daily, weekly and monthly and it's percent dry solids and volume;
- l) Mass of sludge per BP and total disposed
- m) Polymer usage per ton of total solids
- n) Mass of grit and screenings disposed of
- o) BMSS

Process evaluations for the Works including but not limited to:

- a) Process removal efficiencies for Chemical Oxygen Demand, Total Suspended Solids, Ammonia-Nitrogen and Phosphorus (Ortho-P and Total P);
- b) Wet weather events and procedures;
- c) Solids balance at the Works, including the belt press;
- d) Solids handling efficiency (thickening and overall efficiencies);
- e) Comparison of final Effluent to License requirements and any exceedances;
- f) Description of Process Changes and operational changes implemented by the Contractor, including the reason for making the change, the expected results and the actual results;
- g) Daily, weekly and monthly quantities of non-sludge residuals (grit, screenings, etc.,) removed from the site;
- h) The impact, if any on the Works operations arising from maintenance activities
- i) The membrane care report

Requirements

- Daily maintenance and care programme
- Analyses of membrane performance per train (including Flux, TMP, permeability, permeate Turbidity amongst others) as well as a full permeate quality analyses per train as per the specification
- Daily, weekly and annual membrane cleaning in accordance with the OEM specification and warranty requirements
- Maintaining all logs and records to support possible guarantee queries
- Compiling a detailed monthly report, including graphical trends, responding to all the OEM's specification and guarantee requirements as well as those of CCT.
- Actions to be taken to address any premature deterioration or failing of the performance or integrity of the membrane cassettes

iii) **Maintenance Reports**

- a) Summary of the preventive and predictive maintenance for the Assets that was scheduled for the reporting month, completed during the reporting month, and planned for the following month. The report should include the total and percentage of maintenance man-hours on preventive, predictive, corrective and emergency work during the reporting month; and

Equipment shutdowns for maintenance and repairs during the reporting month and anticipated during the following month.

- b) A schedule of all repair and replacement
- c) the Contractor shall provide and maintain its own computerised asset management system which should be capable of seamlessly interfacing with CCT's SAP system. The Contractors' system is to be approved by CCT, which approval shall not be unreasonably withheld.

iv) Laboratory Reports

- a) Summary of all Scientific Services Branch laboratory tests results, and other test analyses performed by any other SANAS accredited laboratory during the reporting month.
- b) On site laboratory results with reporting summaries as requested by CCT, all to be available for scrutiny
- c) Results of any environmental tests or monitoring procedures conducted during the reporting month and copies of any reports or other submittals made to or received from any regulating entity such as the Department of Water and Sanitation.
- d) Status of the Sampling and Laboratory Quality Assurance and Quality Control (QA/QC) Plan activities, including the results of independent audits and precision testing.

v) Staffing Reports

- a) Description of employee staffing levels and any changes or projected changes in staffing levels due to resignations, retirements and other factors.
- b) Filling of vacancies
- c) Total employee staffing complement.
- d) Report on absenteeism
- e) Staffing levels per shift
- f) Occupational health and safety statistics including the type of injuries
- g) Compliance to DWS staffing qualifications as per Regulation 3630, effective 30 June 2023

vi) Training Reports

Summary of training (with reference to subject and duration) provided to employees or CCT; and any training planned for the coming month, including DWS training requirements as per Regulation 3630.

vi) Subcontractor Reports

Subcontractor activities including list of Subcontractors, category of Subcontractor, activities performed by Subcontractors and planned use of Subcontractors for the coming month.

vii) Community Relations Management Reports

Details of support given to CCT in their Community relations activities, including engagement due to complaints and compliments, which took place in the reporting month.

viii) Additional Service Report

List and brief description of any Additional Services performed or to be performed by the

Contractor.

ix) Odour Control Report

The Contractor shall report on odour control for the reporting month. This report shall include the following information:

- a) Status of operation of odour control Equipment and processes, including effectiveness of odour control Works, duration, reason for any odour control Works that were out of service, and chemical usage;
- b) Results weekly grab hydrogen sulphide monitoring at the 6-pts equidistant around the site Works boundaries;
- c) Summary of odour complaints and response activities, findings and action taken.

x) Remuneration, and Tax Invoice Report

The Contractor shall prepare and submit to CCT an original tax invoice with supporting documentation relating to the Contracted Services. The Tax Invoice shall state the date, the description of contracted services, invoice number, purchase order number and description of supporting documentation to support the costs charged to or credited to CCT. Remuneration shall be based in the information provided in the monthly activity schedule based on Part C4 in this Contract Document.

xii) Security Report

The Contractor shall prepare and submit a Monthly Security Report, which provides a summary of security activities. This report shall include the following:

- a) Summary of the entries/ access to the site with reference to the number of visitors etc., including date and time of any security breach, who responded, the cause and what action was taken;
- b) Summary of security breaches at the Assets, including date and time of security breach, who responded, the cause, and what action was taken, final outcome and Insurance claims if applicable;
- c) Status of implementing new security measures;
- d) Status of the operation and maintenance of the security equipment used
- e) Interactions and joint initiatives with CCT's Security Service Branch.

The Security subcontractors report to the Contractor should be available for inspection by CCT at any time.

5.2.3.5 QUARTERLY REPORTS

i) Performance Compliance Report

The Contractor shall prepare and submit a Quarterly Performance Compliance Report, which provides an assessment of progress to date on achieving each Performance Compliance Criteria in accordance with 5.2.2.2. The report shall include all supporting data in tabular format, calculations and documentation and shall identify any known or anticipated barriers in achieving the Performance Compliance Criteria and planned actions to address them. The Contractor shall summarize the Performance Compliance measurements and the Contractor's calculation of

achievement of the Performance Compliances in a tabular form.

ii) Additional Reports

Additional quarterly reports as specified in Table 5.2.3.1.

5.2.3.6 SEMI-ANNUAL REPORTS

i) Works Flows Meter and Rain Gauges Calibration Report

The Contractor shall prepare and submit at least semi-annually the calibration records required for all flow meters and rain gauges installed throughout the Assets. This report shall include information with respect to the date of calibration, the accuracy and precision of the flow and rain gauge data, and changes in these parameters since the last calibration. The report shall also identify the location of defective flow meters; type of corrective action; date of work or purchase orders submitted; and date of corrective work performed.

ii) Stock and Spare Parts Inventory

The Contractor shall prepare and submit, at least, semi-annually a report on the inventory that shall include an itemized inventory and valuation of all stock and spare parts with respect to the Assets, including spare parts no longer usable for Works or Assets.

5.2.3.7 ANNUAL REPORTS

The annual report shall provide a report on the performance of the Works for CCT's financial year i.e. from 1 July to 30 June.

i) Annual Operation and Maintenance (O & M) Report

The Contractor shall prepare and submit an Annual O&M report that includes a detailed summary of information about the completed Contract Year's operation and maintenance of the Assets and the current condition of the Assets. The Annual O&M Report shall include, but not be limited to:

- a) Summary of the information provided in the monthly and quarterly reports.
- b) Summary of the Influent flows and loadings for each unit operation.
- c) Summary of risk mitigation measures in respect of environmental issues. Incidents safety and regulatory compliance.
- d) Checklist and analysis of Contractor's compliance with the Performance Compliance Criteria, the Licence requirements and the Agreement with supporting descriptions.
- e) Assessment of outstanding issues, including any recommendations for changes to Works and/ or Assets.
- f) Detailed summary of the operating budget for the Assets including labour costs, chemical usage and costs, and maintenance costs by maintenance category.

ii) Annual Inventory of Fixed Assets

The Contractor shall verify the Annual Inventory of Fixed Assets carried out by CCT, which shall include the following information in tabular format:

- a) Department;
- b) Name of employee responsible for the item and name of his/ her supervisor;
- c) Asset tag number for buildings and moveable assets;

- d) Condition based on “0” = Good; “1” = Fair; “2” = Poor and “3” = Obsolete; or CCT’s Asset Management criteria;
- e) Description of asset;
- f) Make, model number and serial number;
- g) Cost of repair or replacement;
- h) Name of employee providing inventory information.

The Contractor shall provide its recommendations for Fixed Assets to be scrapped, decommissioned, repaired or replaced, including reasons for the recommendation.

iii) Annual Inspection Report

The Contractor shall prepare and implement an Annual Inspection Report for the Assets. At a minimum, the Annual Inspection Report shall include:

- a) Assessment of the condition of the Assets, details of any modifications made by the Contractor (design details and as-built drawings) and an analysis of the effectiveness of any repairs, replacements, or upgrades;
- b) Spares, tools and stock inventory;
- c) Physical asset record;
- d) Assessment of Risk Abatement Plan, Safety Plan, Training Plan and Emergency Preparedness Plan;
- e) Effectiveness of the Assets;
- f) Effectiveness of the Operational & Maintenance Plan and Infrastructure Assets Plan

5.2.3.8 ANNUAL PLANS

i) General

The Contractor shall prepare, submit and implement upon City’s approval, a preliminary version of the annual plans as listed in Table 5.2.3.1 no later than sixty (60) days following the Commencement Date, unless otherwise noted in Table 5.2.3.1. Thereafter, 30 days after each financial year end, the Contractor shall prepare and submit for approval annual plans for the next financial year.

For the duration of this Agreement, the Contractor shall conduct annual workshops with CCT to discuss the Contractor’s findings and recommendations and obtain City’s input on the particular annual plan being developed and revised.

Following the workshops, the Contractor shall prepare and submit draft annual plans to CCT. The Contractor shall finalize and submit revised plans upon receipt of CCT’s comments. CCT’s review of submitted plans will be timely and City approval will not be unreasonably withheld. These annual plans should be finalized by April of each year to coincide with City budgetary preparations.

The annual plan shall include copies of SOPs and copies of documents used to report operation and maintenance activities. The annual plan shall identify any updates to the previous year’s plan, including proposed changes to SOPs and other documents and activities.

The schedule of the workshops and submissions of draft and final plans, subject to change by CCT, shall be in accordance with Table 5.2.3.8 below:

Table 5.2.3.8: Plans Schedule

Plan	Workshop Date	Draft Submission Date	Final Submission Date
Operation and Maintenance Plan.	July	August	September
Wet Weather Plan. Flow and Rain Monitoring Plan	July	August	September
Infrastructure Management Plan Asset Management Plan Capital Improvement Plan SAP system Plan	July	August	November
Residuals Management Plan (grit, screenings, waste, sludge)	July	August	September
Odour Control Plan	July	August	September
Risk, Health & Safety Plan W ₂ RAP Emergency Preparedness Plan Spill prevention & Cleanup Plan Security Plan Incident Management & Response Plan	July	August	September
Water & Energy Conservation Plan	July	August	September
Staffing Plan Training Plan	July	August	September
Sampling & Laboratory Plan Green Drop Plan ISO Plan	July	August	September
Record Keeping and Reporting Plan Communication Plan Community Relations & Environmental Partnership Plan	July	August	September

ii) **Operation and Maintenance Plan**

a) The Contractor shall prepare and implement an Operation and Maintenance Plan for the Assets. At a minimum, the plan shall include, but not be limited to:

- Residuals (sludge, grit and screenings) Management;
- Predictive, preventive and corrective maintenance activities;
- Sampling, analysis and quality assurance (QA);
- Recordkeeping and data management, both electronic and hard copy;
- Process control management activities;
- Schedule and checklist for at least quarterly inspections of the Assets;
- QA/QC inspection/audits of the Assets to identify and report on agreed aspects of the Assets;
- Budgetary requirements.

b) **Process Control Management Procedure**

The Contractor shall prepare and implement process control management procedures for the Assets. The process control procedures shall be reviewed and updated annually. As a minimum, the process control management procedures shall address the following:

- Results of approved process and operation changes and any recommendations for additional changes;
- Goals for optimum process control and efficiency as defined using well-defined parameters with target values;
- Process control strategies or guidelines, unit process guidelines, process control orders, shift instructions, reporting and performance indicators for monitoring the parameters in order to optimally operate the Assets and Residuals handling facilities (as applicable) and to comply with the Agreement;
- Flags which identify the normal operational range;
- Means to allow operations staff to assess whether unit processes are out of control prior to major process or Equipment problems occurring;
- Corrective actions and responses during abnormal conditions;
- Persons and their responsibilities for process control management, analysis, communication and other tasks during normal, abnormal and emergency conditions;
- SOPs, sampling and analysis plan, data management and reporting plan, process evaluation and review.
- Use of process control and simulation tools and software as approved by CCT;
- Communication protocols and records that will be used to communicate process control information to appropriate staff (including weekly or more frequent meetings, distribution of reports, posting of directives and use of a daily log book) and to address the communication with CCT on the operation of the Assets

c) Data Management

Reports that shall include a clearly-identified, designated official operator's logbook or set of logbooks for various functions. This logbook(s) may be reviewed by the Project Manager and anybody approved by the Project Manager. Logbooks shall be hardbound with consecutively numbered pages and all entries made in non-erasable ink.

The Contractor shall utilize a comprehensive process control data management software for logging, reporting, monitoring and analysing daily operations of the Assets for compliance with the License and applicable Law.

5.2.3.9 WATER AND ENERGY CONSERVATION PLAN

The Contractor shall prepare and implement a Water and Energy Conservation Plan for the Assets to address the previous year's consumption of water and electricity; and identify activities for the coming year to maximize conservation of water and energy while meeting objectives. The plan shall make reference and incorporate, as applicable, CCT's environmental policy and procedures.

This plan shall include, but not be limited to, the following:

- i) Annual consumption of water, electricity and other energy sources (if any) at the Assets;
- ii) Actions taken to reduce and conserve water, electricity and other energy sources during the reporting year;
- iii) Results of actions taken in terms of estimated savings or reduction in consumption;
- iv) Recommendations and planned activities for the coming year to conserve water and energy, including recommendations based on a third-party energy audit;
- v) Solids process control guidelines to emphasize efficient Asset operation;
- vi) Method of tracking of electricity usage. Daily usages to be reported in daily and weekly, monthly, quarterly annual operating reports;
- vii) Training to provide operators with the basic understanding of energy efficiency goals and complementary operational theory that ensures an efficient operational approach;

- viii) Recommendations on all replacement or procurement process equipment that would realise the highest industry efficiency standards and consider high efficiency equipment in construction specifications.
- ix) An energy optimisation simulation model, projecting energy consumption and improvement initiatives, linked to the effluent inflow, loading and various process streams

5.2.3.10 SAMPLING AND LABORATORY QA/QC PLAN

The Contractor shall prepare a Sampling and Laboratory QA/QC Plan that sets forth the sample collection, testing and quality control procedures for the Assets. The plan shall describe the purpose, location and frequency of each sample, including samples required to demonstrate compliance with applicable Law, the Performance Compliance Criteria, the License and shall be approved by CCT. This shall include any agreed Environmental quality monitoring programmes and/or intervention. The Sampling and Laboratory QA/QC Plan shall include the following, as appropriate:

- i) Map showing the sampling locations (GPS'ed) for routine sampling
- ii) Map showing the sampling locations (GPS'ed) for residuals sampling required as part of the Performance Compliance Criteria measurements.
- iii) Description of the type of sample, frequency of collection and analysis to be performed
- iv) SOPs for sample collection, sample handling, laboratory analysis, and sample storage procedures including sample preservation, sample container cleaning, calibration and operation of field instruments.
- v) Copies of chain of custody forms, laboratory bench sheets, and other documents used to record sample and analytical information.
- vi) Description of analytical procedures, including data validation, calibration of laboratory Equipment, and preventive maintenance on all laboratory Equipment.
- vii) Recordkeeping and regulatory reporting procedures.
- viii) QA/QC procedures for sampling and analysis.
- ix) Description of software programs to store sample data.
- x) Description of implementing a laboratory QA manual.
- xi) Description of safety measures for the laboratories such as Material Safety Data Sheets, Hazard Communication training, and chemical hygiene plans.

The annual plan shall include copies of SOPs. The annual plan shall identify any updates to the previous year's plan, including proposed changes to SOPs and other documents and activities.

5.2.3.11 FLOW AND RAIN MONITOR QA/QC PLAN

The Contractor will be responsible for the operation and maintenance of the weather station at the Works, and shall report monthly on all the recorded results, or more frequently if required by CCT.

The Contractor shall prepare a Flow and Rain Monitor QA/QC Plan that addresses the flow meters, gauges and monitors located at the Assets. The plan shall set forth the calibration and quality control procedures for the flow meters and rain gauges to maintain accurate data collection and reporting. The Flow meter and Rain gauge QA/QC Plan shall address the following:

The annual plan shall include copies of SOPs. The annual plan shall identify any updates to the previous year's plan, including proposed changes to SOPs and other documents and activities

5.2.3.12 INFRASTRUCTURE ASSET MAINTENANCE PLAN (IAMP)

The IAMP shall describe the Contractor's previous year's performance and approach to preventive, predictive and corrective maintenance for the Assets including new equipment expected to be placed in service in the coming year. At a minimum, the IAMP shall include:

- i) Proposed repairs, replacements and other improvements to improve the effectiveness, efficiency and cost of operation, management and maintenance of the Assets.
- ii) Summary of predictive, preventive, corrective and routine maintenance procedures performed for the reporting year and compared to the prior year.
- iii) Predictive, preventive, corrective and routine maintenance procedures planned for the coming year on all Assets.
- iv) Types of diagnostic tools and the schedule or conditions that are planned to be used to initiate diagnostic testing and to identify potential problems for predictive maintenance of all Managed Assets.
- v) A benchmark or matrix to evaluate the performance of the maintenance program, including percentage of work orders completed, cost and hours spent on corrective and emergency repairs and percentage relative to planned maintenance, and percent of critical equipment availability.
- vi) Inventory of and procedures for managing spare Parts and consumables.
- vii) Status of updates and recommendations to determine operating procedural changes and design changes and monitor performance trends to introduce predictive maintenance.
- viii) Inclusion and frequency of preventive maintenance activities and improvements for the SCADA and other devices. Inclusion of condition-based monitoring using diagnostic tools.
- ix) Inclusion of failure mode effects analyses and root cause and failure analyses. SOPs for these maintenance procedures.
- x) Specific subcontractors that will be used to perform specialist maintenance. The annual plan shall include copies of SOPs.
- xi) The annual plan shall identify any updates to the previous year's plan, including proposed changes to SOPs and other documents and activities.
- xii) Carrying out the regulatory annual Structural Condition Assessment Plan by appropriate specialists

The IAMP shall be included in Contractors electronic Asset Management System. This Asset Management system must be able to seamlessly integrate with and populate CCT's SAP system if required.

5.2.3.13 ASSET MANAGEMENT PLAN

As part of the IAMP or as a separate plan as directed by CCT, the Contractor shall develop an Asset Management Plan. The plan shall address, but is not limited to the following, to:

- i) Asset inventory, maintenance history, condition assessments and asset criticality evaluation to facilitate in making Equipment replacement decisions.
- ii) Procedures for managing and decommissioning outdated and obsolete equipment with CCT's approval.
- iii) Inclusion of failure mode effects analyses and root cause and failure analyses.
- iv) Identification of critical Equipment
- v) Development of an equipment reliability plan that focuses on detecting, mitigating and minimizing expected failure modes
- vi) Asset/work management to prioritize work orders, analysis situation using non-intrusive condition monitoring, forecast inventory and spare parts, increased preventive and predictive maintenance work relative to corrective maintenance work, and document equipment history

- vii) Reliability analysis to develop equipment-specific reliability strategy for each equipment item based on its actual performance
- viii) Integration of related process with City's requirements, capacity restrictions, Influent conditions, and environmental compliance.
- ix) Design for reliability and maintainability to match performance of equipment and Assets to operating needs.
- x) Life cycle costing to capture all costs associated with lifetime events over the estimated life of the equipment

The Asset Management Plan shall be included in the Contractor's Asset Management system and should be compatible for loading onto CCT's SAP system if required.

5.2.3.14 WET WEATHER OPERATIONS PLAN

The annual Wet Weather Operations Plan shall address the Contractor's approach to wet weather operations, including but not limited to the following:

- i) Maximize flows treated by the Assets and minimization of overflows.
- ii) Handle influent surges of solids during wet weather.
- iii) Activities performed by the Plant Manager, and staffing and subcontractors that will be used to assist the Contractor to oversee and perform wet weather operation activities.
- iv) Summary of wet weather treatment performance for the reporting year.
- v) Decision-making tree that incorporates measuring and monitoring Influent flows to the Assets.
- vi) Procedures to monitor weather events and make process control recommendations.
- vii) Procedures to maximize the capacity of wastewater treatment works to accommodate wet weather flows, including but not limited to:
- viii) Plans and procedures to monitor and ensure that equipment and processes are in good operating condition for maximizing their availability.
- ix) Plans for promptly returning process units and equipment to service after they have been temporarily removed from service and keeping staff informed of risks associated with out-of-service equipment.
- x) Procedures for maintaining appropriately low solids inventories process units during dry weather, including but not limited to, maintaining low sludge blankets in clarifiers.
- xi) Best management procedures and activities to be implemented prior to wet weather events to maximize capacity of the process unit and to minimize carryover of residuals to downstream processes.
- xii) Such procedures and activities include preparing diversions prior to start of a wet weather event, maintaining critical equipment availability, monitoring solids flux indicators, and reducing solids inventory in process tanks and backwash filters.
- xiii) Activities for post wet weather event analysis for more robust future wet weather responses.
- xiv) Wet weather operations SOPs, which consist of overall wet weather operations and individual process procedures. The SOPs shall include pre-event activities, targets or set points for initiating Equipment or process startup, recording and sampling activities, and post-wet weather activities.

5.2.3.15 RESIDUALS (GRIT AND SCREENINGS, WASTE, SLUDGE) MANAGEMENT PLAN

The annual Residuals Management Plan shall include, but be not limited to the following:

- i) Summary of Residuals treatment performance for the prior year for the capture of grit, screenings, sludge, grease and scum and other Residuals, as well as recommendations for improving performance;
- ii) Tabulate weekly, monthly average solids inventories of the Works for the previous year.
- iii) Planned shutdowns of Residuals processing;
- iv) Equipment and backup processing procedures;
- v) Use of Residuals Process Control procedures, mass balance and other sludge management tools to maintain sludge inventories as well as for procedures and controls for the removal and disposal of all residuals off the works by CCT;
- vi) Providing details of primary and waste activated sludge to be removed from site and disposed of by CCT's contractor through a separate contract. This must include for the required final sludge classification prior to disposal off-site as well as reports are to support CCT's procedures, measurements and controls for their effective "cradle to grave" sludge management accountability.
- vii) Plan for responding to any fats, oil and grease (FOG)-related blockages or backups so that there are no repeated FOG-related blockages at any location;
- viii) Use of databases to track and produce all reports required by regulatory entities and CCT;
- ix) Recommendations to CCT as needed for any FOG-related blockages or backups requiring enforcement by CCT. Activities to implement QA/QC on all work to be performed;
- x) Use of benchmarking.

The annual plan shall include copies of SOPs and copies of documents used to report operation and maintenance activities. The annual plan shall identify any updates to the previous year's plan, including proposed changes to SOPs and other documents and activities.

5.2.3.16 INCIDENT MANAGEMENT AND RESPONSE PLAN

The Contractor shall include and implement Incident Management and Response Plan that provides the following information at a minimum:

- i) Procedure of investigating an incident
- ii) Approach of using detailed incident reports, inspection reports other information to identify the cause and the action that was taken.
- iii) Interfacing and alignment with CCT's and DWS's incident and disaster management protocols
- iv) The structure, mobilisation and availability of all Personnel and Support Resources to ensure the required Performance Compliance and response times are achieved as defined in 5.2.2.2 and 5.2.2.3

5.2.3.17 CAPITAL IMPROVEMENTS RECOMMENDATION PLAN

The Contractor shall prepare and submit a Capital Improvements Recommendation Plan that summarizes the status of capital improvements that are completed, in progress and pending. The Contractor shall report on warranty issues and the performance of the Capital Improvements compared to the intended design performance.

The Contractor shall make recommendations to CCT to improve the implementation of future Capital Improvements. The Contractor shall also prepare its recommendations for other Capital Improvements, including justification for each Capital Improvement to support the recommended work and the schedule(s) of such improvements, including benefits to performance, operation and maintenance, capital cost assessment, and O&M cost savings.

5.2.3.18 ODOUR CONTROL PLAN

The Odour Control Plan shall address O&M activities related to odour control practices for the Assets. The plan shall address the following:

- i) Identify the Contractor's odour control manager and the roles and responsibilities of the operational and maintenance staff in this regard.
- ii) Operating, maintenance and housekeeping procedures.
- iii) Chemical addition.
- iv) Operating checklists or log forms to record the status of odour control equipment.
- v) Maintenance schedule and procedures for all odour control equipment.
- vi) Provide contact information for Contractor's employees who will implement the hydrogen sulphide and odour monitoring and receive and respond to odour complaints.
- vii) Describe the odour control requirements that the Contractor must meet.
- viii) Develop odour control operating, maintenance and housekeeping procedures at the Assets to maintain equipment performance and efficient to eliminate odours, including cleaning wastewater process and sludge tanks promptly after draining for maintenance work.
- ix) Develop procedures for maintaining the target operating range for all odour control equipment and for determining when replacement of odour control consumable materials is necessary.
- x) Develop procedures for monitoring performance against benchmarks.
- xi) Develop procedures for addressing odour control when odour control equipment is out of service for preventive or corrective maintenance.
- xii) Use of operating checklists or log forms to record the status of odour control Works Equipment, chemical usage and chemical inventory for each odour control Works.
- xiii) Develop a hydrogen sulphide monitoring plan to monitor the Assets.
- xiv) Develop daily checks that Works odour control facilities operate properly.
- xv) Develop maintenance schedule and procedures for all odour control Works.
- xvi) Procedures for certifying and documenting odour complaints
- xvii) Support to CCT on communicating the plan to the neighbours

The annual plan shall include copies of SOPs and copies of documents used to report operation and maintenance activities. The annual plan shall identify any updates to the previous year's plan, including proposed changes to SOPs and other documents and activities.

5.2.3.19 STAFFING PLAN

i) Staff Mobilisation Plan

Before taking over responsibility for the management, operation and maintenance of the Works, the Contractor must submit and agree with CCT the Staff Mobilisation Plan, addressing:

- a) Consider of taking over the existing operators personnel in according with Section 197 of the Labour Relations Act, on packages, terms and conditions equal or better to those in place, including all company benefits and allowances,
- b) Providing all the key personnel as detailed in the Contractors tender. Alternative key personnel will only be considered by CCT after review of their compliance to the tender expertise and experience requirements;
- c) Filling all vacancies on the required organogram with suitably qualified or experienced personnel meeting DWS's grading requirements;
- d) The transition action plan from the existing contractor to the Contractor, so as to ensure no

disruption of service or labour unrest.

ii) **Annual Staffing Plan**

The Contractor shall obtain CCT's approval for any changes to the staffing during the term of the Agreement including any changes to the number of staff assigned to a particular function or process.

The Staffing Plan shall include an organization chart, depicting the different job titles and categories and the number of staff in each category, the required DWS certifications and qualifications of key personnel, operation and management staff, description of on-call coverage and shift coverage, and a description of the DWS and other required staff training programs in compliance to the Training Plan, including the requirements of Regulation 3630 of the National Water Act. The Staffing Plan shall be based on requirements of the Department of Water and Sanitation for manning the shifts.

The Staffing Plan shall indicate the person/s responsible for Asset Management and maintenance planning. The Plan shall also include the description of subcontractors anticipated to provide operation and maintenance services

The Staffing Plan shall be updated monthly to reflect any changes and/or anticipated changes in staff complement and the Assets staffing needs.

5.2.3.20 COMMUNITY RELATIONS MANAGEMENT & ENVIRONMENTAL PARTNERSHIP PROGRAM PLAN

The Contractor shall develop and implement a Community Relations Management and Environmental Partnership Program Plan, working with, and aligned to CCT's own procedures and protocols. The Plan shall include a summary of the Contractor's prior community relations and environmental partnership program activities and the Contractor's activities planned for the current financial year.

The plan shall include, among others, the following:

- Supporting CCT's Community relations activities aimed at maximising community support and awareness, including educational materials, public meetings, plant tours and business community relations (which will provide the local community education with awareness into the purpose and the operations and maintenance of the Works) and adopting a school(s) for internships and hands-on training;
- Supporting CCT's Environmental Management protocols, programmes and teams, working closely to minimise the impact of any potential environmental threats arising from the works (noise, air, surface and sub-surface issues), setting up protocols and actions for any routine or emergency intervention required.
- Managing Environmental compliance at the Works.

5.2.3.21 RISK, HEALTH AND SAFETY PLAN

The Contractor shall develop and implement a Risk, Health & Safety Plan in accordance with the applicable legislation, DWS's requirements for the Wastewater Risk Abatement Plan (W₂RAP) and the Water Use License (WUL) requirements.

The Plan shall be reviewed and updated annually and as changes to the Assets or applicable legislation is implemented.

The Risk, Health & Safety Plan shall contain or address the following items specific to the Assets:

- Purpose, including safety goals, standards, and guidelines to minimize employees injuries and fatalities'

- Risks identified, prioritised and mitigation measures to be implemented
- Designation of plant safety coordinators and their responsibilities.
- Identification of Contractor personnel to monitor new and pending Laws and the personnel to implement changes to the safety program.
- Description of Risk, health & safety educational programs.
- Preparation of a Risk, Health and Safety Manual and intended distribution to staff with annual reviews and updates.
- Personal protective equipment, including equipment provided to staff and training on use of equipment.
- Control measures related to identified hazards and exposures in accordance with the control protocol of chemical elimination and substitution, engineering controls, administrative controls.
- Safety inspection program, including internal and external audits to be performed by CCT.
- Also include SOPs, frequency of scheduled and unscheduled inspections, and description of checklists and assessment guides.
- Hazard communications program, including information on chemical inventories, material safety data sheets, staff training and hazardous material labelling.
- Communication to staff through written materials, monthly meetings and other fora.
- Safety training programs that include lock out/tag out, hazard communication, confined spaces, electrical safety, hazardous spill response, recordkeeping and reporting of accidents. Confined space entry plan for different areas of the site including emergencies and scheduled entries.
- Safety and compliance management tools.
- Complying with the GMR2.1 requirements of the Machinery and Occupational Safety Act 6 of 1983
- Complying with the legal liability compliance requirements of the Occupational Health and Safety Act

The annual plan shall include copies of SOPs. The annual plan shall identify any updates to the previous year's plan, including proposed changes to SOPs and other documents and activities.

5.2.3.22 EMERGENCY PREPAREDNESS PLAN

The Contractor shall prepare an Emergency Preparedness Plan for the Managed Assets based on the guidelines stipulated by CCT and as part of Wastewater Risk Abatement Plan (W₂RAP) as well as applicable Laws. The Contractor shall interface with the responsible CCT departments, with local emergency programs and if required, work with fire, police and other public agencies charged with resolving any emergencies or conflicts. The Emergency Preparedness Plan shall address hazards and emergencies that include:

- Chemical spills
- Personnel emergencies
- Fire and explosions
- Pipe, valve, aerator, electrical supply, pump failures etc.
- Equipment and process failures and overflows
- Power utilities service failures
- Acts of God (earthquakes, adverse weather, and floods)
- Environmental issues (includes loadings in wastewater streams)
- Acts of sabotage
- Other applicable emergency situations

At a minimum, the Emergency Preparedness Plan shall also include the following:

- Persons and their responsibilities including the chain-of-command
- Supporting instructions from public safety agencies

- Outside service respondents, sub-contractors' listing
- Emergency telephone numbers, procedures for their proper usage and posting of numbers in critical areas of the Works
- Emergency Equipment inventory
- Records preservation procedures
- Hazardous chemicals inventory (location and quantities with Emergency Hazardous Chemical Inventory forms)
- Hazardous chemical spills and clean-up procedures
- Preventive measures
- Troubleshooting guides
- Site maps
- Evacuation locations
- Action plans for disasters and terrorism
- Repeated preparedness training
- Communications protocols that will be used to notify CCT (including equipping Contractor personnel with cellular phones and pagers to keep the Project Manager or his/her designee fully apprised of Works problems or emergencies and what is being done to resolve such situations)
- Level of response effort (including performing corrective actions within thirty (30) minutes of notifying CCT)
- Written reports detailing emergency major repairs or capital expenditures in the event of an emergency within twenty-four (24) hours of such occurrence
- Follow-up and closure procedures
- Activities supporting emergency response, training with CCT's Disaster Management Department.
- Frequency of testing security-related alarms.
- Use of adequate sampling and analysis (and communication) programs along with process control guidelines to readily identify and address Works anomalies

The annual plan shall include copies of SOPs and copies of documents used to report activities. The annual plan shall identify any updates to the previous year's plan, including proposed changes to SOPs and other documents and activities.

5.2.3.23 SPILL PREVENTION AND CLEANUP PLAN

The Contractor shall include and implement a Spill Prevention and Cleanup Plan as part of the Emergency Preparedness Plan that shall address the following:

- Procedures to prevent public health and environmental impacts,
- A clean up procedure for different types of spills, including wastewater, residuals or chemicals spills within the Works.

The annual plan shall include copies of SOPs. The annual plan shall identify any updates to the previous year's plan, including proposed changes to SOPs and other documents and activities.

5.2.3.24 SECURITY PLAN

The security plan shall describe the Contractor's approach and plan to provide security for the Assets, including against sabotage threats and activities. The plan shall include the following:

- Details and responsibilities of the Security Services Provider and its personnel
- Control, monitoring, verification and reporting requirements on all Security matters
- Measures to control and monitor access to the Site:
- Schedule of maintenance activities for security equipment, including alarms and CCTV systems

- Recommendations for upgrades to install new alarms, CCTV systems and other security devices.
- Security improvements implemented by the Contractor.
- Plans to complete a vulnerability assessment of the Site.
- Physical control measures.
- Develop a remedial plan for improvements within the first year.
- Documentation of monthly security interfaces with CCT's structures, reports, non-compliances, security breaches, follow-ups, closure, audits and recommendations for minimising future re-occurrence.
- Aligning the Security Plan to CCT's Incident Management protocols, also covering procedures to report and assist CCT's investigation, closure and reporting on any security breach or threat, working with CCT's Security Services and SAPS if required.
- Prompt, detailed security breach notifications to CCT, allowing CCT to initiate claims against their Insurance and SASRIA policies.
- Liability for any damages incurred to the Assets which are not recovered by CCT's Insurance or SASRIA cover, and where failure of the Contractor's Security reasonable security measures are directly attributable for such damages.

The annual plan shall include copies of SOPs and copies of documents used to report security, operation and maintenance activities. The annual plan shall identify any updates to the previous year's plan, including proposed changes to SOPs and other documents and activities.

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

5.2.3.25 TRAINING PLAN

The Contractor shall develop and implement a Training Plan which shall provide for training programs of staff to operate and maintain the Assets, including but not be limited to the:

- Wastewater Works, including the Membrane Bioreactors;
- Sludge Processing Works;
- Disinfection Works;
- Integrated Quality Management e.g. ISO;
- Legislative and regulatory training;
- Training related to the supervision and management of the Assets;
- The asset management system and procedures
- Health and Safety, including the Department of Labour's requirements for a GMR2.1 and 24/7 technical attendance full time at the Works

The Training Plan shall incorporate DWS's requirement for ongoing Process Controller training as per Regulation 3630, Government Gazette 48865 of the 30 June 2023;

The Training Plan shall include the fixed number of hours of training for new employees and formal retraining methods for existing employees.

The level of the Training shall enable the trained Process Controllers and maintenance staff to successfully operate and maintain the Assets and fully comply with the contractual performance standards. Emphasis shall be placed on preparedness for critical issues in the risk identification of process situations resulting from asset failure and problems with the Influent, as well as the maintenance and care of the Assets.

Training shall include both practical and theoretical training relating to Site specific, Health and Safety, emergency procedures, safe operating procedures, equipment on each of the unit processes and process control instrumentation (including SCADA, PLC etc.).

Full guidance on the use of the Operation and Maintenance Manuals shall also be provided. The training shall be completed with a written and practical test. CCT's representative shall be allowed to be present at all stages of the training. The content of the written tests shall be approved by CCT's representative.

The educators/trainers shall be adequately experienced, and the Contractor shall submit copies of their curriculum vitae for the Project Manager approval.

The Contractor may use a combination of in-house training programs supplemented by site-specific local training. Other specific training topics, such as confined space entry, lock-out procedures, shall be conducted annually.

The Contractor shall notify CCT in a timely manner of upcoming training events and invite City staff to attend the on-site training at no cost to CCT.

The Contractor shall provide the Training Plan to CCT by February each year.

5.2.3.26 RECORDKEEPING

The annual Recordkeeping Plan shall include copies of SOPs. The Recordkeeping Plan shall identify any updates to the previous year's plan, including proposed changes to SOPs and other documents and activities.

5.2.3.27 COMMUNICATIONS

CCT and the Contractor shall agree on a regular schedule for routine communication on all aspects of the Contract Services. CCT and the Contractor shall meet generally within 10 days after the month end at the site or at a location decided by CCT to discuss the previous monthly report. CCT and Contractor shall meet at least semi-annually to discuss the status of capital improvements, both those in progress, as well as planned and/ or recommended capital improvements.

The Contractor shall prepare an agenda, with CCT's input, distributed at least two (2) days prior to a meeting. The Contractor shall keep written minutes and distribute to all attendees within ten (10) calendar days. Minutes will be amended, if required, and signed as approved at the next meeting.

When requested, the Contractor shall meet with the Project manager to address issues related to the Assets and provide input to the Project manager on CCT's wastewater treatment activities, regulations and any other issues of concern to CCT.

5.2.3.28 ASSET MANAGEMENT SYSTEM (ALTERNATIVELY CCT's SAP SYSTEM)

The Contractor must make use of its own electronic Plant Maintenance Module for Asset Management purposes. Should CCT decide that the Contractor should make use of its SAP Plant Maintenance module for Asset maintenance, CCT will allow access on SAP for the Contractor, and will determine the profiles and roles for the Contractor's positions. It is the responsibility of the Contractor to ensure that he has staff available at all times, trained sufficiently by CCT on its SAP systems, to perform the required duties. Training can be arranged through CCT, and the costs to train 2 staff members annually will be carried by CCT. Any additional training required by Contractor will be deducted from payments due to the Contractor.

The Contractor's responsibilities related to its own or the SAP system use will include (but not be limited to) the following:

- Log all malfunctions in the wastewater treatment works
- Creation of checklists / task lists
- Short-term scheduling
- Creation of maintenance plans / schedules
- Shop Floor feedback via work orders

- Maintenance reporting
- Analysis for streamlining and continual improvement purposes
- Monthly reports
- The IAMP
- The Asset Management Plan

CCT reserves the right to audit the quality of SAP system usage, with sufficient notice being given to the Contractor.

In the event that CCT's SAP system is not fully available to the Contractor, the Contractor shall provide and maintain at its costs its own computerised Asset Management System, this to be approved by CCT, which approval shall not be unreasonably withheld.

The Contractor shall maintain the Asset Register and shall carry out and report on an annual condition assessment of all visible assets

5.2.3.29 GREEN DROP PLAN

The Green Drop Plan must clearly demonstrate the Contractor's approach to maximising the DWS Green Drop score, working closely with the Municipal counterparts where required.

5.2.3.30 ISO PLAN

The ISO Plan must demonstrate that the Contractor, inter alia:

- has the necessary ISO based policies, procedures, controls, monitoring and reporting compliance protocols in place
- has the necessary certified ISO certifications in place
- has identified shortfalls, corrective actions and areas of continuous improvement

5.2.4 TRADE NAMES OR PROPRIETARY PRODUCTS

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

C.6 SPECIAL CONDITIONS OF CONTRACT

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

Insert before 1, Definitions

Interpretation

In this Agreement, unless clearly inconsistent with or otherwise indicated by the context –

any reference to the singular (including in the expressions defined in 1.1) includes the plural and vice versa, any reference to natural persons includes legal persons (corporate or unincorporated) and vice versa and any reference to a gender includes the other genders;

- ii) headings and the use of bold typeface are to be ignored;
- iii) references to any enactment shall include references to such enactment as it may, after the Signature Date, from time to time be amended, supplemented or re-enacted;
- iv) any reference to a number of days shall be a reference to calendar days, unless it is specifically stated that such reference is a reference to Business Days;
- v) when a number of days is prescribed, the days shall be reckoned exclusively of the first day and inclusively of the last day unless the last day falls on a Saturday, Sunday or public holiday in which case the last day shall be the next succeeding Business Day;
- vi) a reference to any agreement or other document (including this Agreement) shall include references to such agreements and documents as they may, after the Signature Date, be amended;
- vii) where appropriate, meanings ascribed to defined words and expressions in 1.1, shall impose substantive obligations on the Parties;
- viii) a reference to a recital, clause, sub-clause, paragraph, sub-paragraph, schedule or appendix is, unless indicated to the contrary, a reference to a recital, clause, sub-clause, paragraph, sub-paragraph, schedule or appendix of this Agreement;
- ix) where any term is defined within the context of any particular clause or sub-clause, the term so defined shall, unless it appears clearly from such clause or sub-clause that such term has limited application to the relevant clause or sub-clause only, bear the meaning ascribed to it for all purposes in terms of this Agreement, notwithstanding that such term has not been defined in 1.1; and
- x) the words "material" and "materially" mean, when used as an adjective in conjunction with an event, condition, circumstance, effect or other item, that there is a substantial likelihood that a reasonable expert would attach importance to the event, condition, circumstance, effect or item in evaluating the Party to which it relates and/or the event, condition, circumstance, effect or item contemplated in this Agreement.
- xi) Where this Agreement requires a Party to use its "Best Endeavors" in relation to an act or omission, that Party shall do all such things as are or may be necessary or desirable so as to achieve that act or to omit taking an action, until the Parties agree that it is not reasonable to take the action or to omit taking an action.
- xii) In the interpretation of this Agreement, the contra proferentum rule of interpretation shall not apply, nor shall this Agreement be construed in favor of or against any Party by reason of the extent to which any Party or its professional advisors participated in the preparation of this Agreement.
- xiii) The use of the words "include", "including" and "in particular" in this Agreement followed by a specific example or examples shall not be construed or interpreted as limiting the meaning of the general wording preceding it and the eiusdem generis rule shall not be applied in the interpretation of such general wording

and/or such specific example or examples and the words "other" or "otherwise" shall not be construed eiusdem generis with any preceding words where a wider construction is possible.

- xiv) If any obligation or act is required to be performed on a particular day it shall be performed (unless otherwise stipulated) by 16h00 (local time at the place where the obligation or act is required to be performed) on that day.
- xv) If amounts or figures are specified in numerals and in words and if there is any discrepancy between the numerals and the words then the words shall apply.
- xvi) The expiry or termination of this Agreement shall not affect such provisions as expressly provide that they will operate after any such expiration or termination or which of necessity must continue to have effect after such expiration or termination, notwithstanding that the clauses themselves do not expressly provide for this.

1. Definitions

Insert new definitions 1.1A before 1.1:

- 1.1A.1 "Activity Schedule" means Part C4.2 of the Contract Document;
- 1.1A.2 "Additional Services" means the additional services provided by the Contractor which are outside the general scope of the Contract Services set forth in this Agreement, but are consistent with the purposes hereof and the effective operation of CCT's municipal services as provided for in clause 18;
- 1.1A.3 "Agreement" means the Contract as defined in GCC Clause 1.2, the terms of which are identified in the Acceptance part of the Form of Offer and Acceptance in Part C1.4 of the Contract Document; and "**Contract**" shall have a corresponding meaning;
- 1.1A.4 "Assets" means –
 - 1.1A.4.1 the property of CCT in respect of this Agreement, and comprising of:
 - 1.1A.4.1.1 the Site, including the boundary fences;
 - 1.1A.4.1.2 the Works, and any extensions and enhancements to the Works;
 - 1.1A.4.1.3 the building/s and structures on the Site;
 - 1.1A.4.1.4 the equipment, tools and machinery reasonably required for the operation of the Works; Equipment, tools and machinery will consist of items already on the Site at the Commencement Date and those acquired during the currency of this Agreement; and, without in any way limiting to the foregoing, shall include all lifting and ventilation equipment, machinery, pipe work and supports, control hardware and software, equipment support structures, cabling, Operation and Maintenance Manuals, drawings, plans, records, instrumentation and any extension of the Works as provided for in clause 17; and
 - 1.1A.4.1.5 chemicals and consumables brought on to the Site and fully paid for by CCT for purposes of this Agreement.
 - 1.1A.4.2 the term "Assets" shall not include:
 - 1.1A.4.2.1 the personal property of the Contractor's workmen and agents;
 - 1.1A.4.2.2 the property of other contractors and their workmen who may occupy the Site for 1.1A construction or repair purposes; and
 - 1.1A.4.2.3 special equipment acquired on a temporary basis for work not likely to be repeated.

1.1A.5 "Associated Services" means services and specialist support through this Agreement on CCT's installations which:

1.1A.5.1 form part of the bulk wastewater supply system upstream and/or downstream of the ZWWTW, or;

1.1A.5.2 may be required by CCT from time to time on its wastewater treatment systems

These associated services will be handled through the provisions of this Agreement.

1.1. A.6 "CCT" means the City of Cape Town (or "the City") or any successor-in-title; and "**Council**" shall have a corresponding meaning;

Insert new definitions after 1.1

1.1B.1 "Commencement Date" means the date the Supplier confirms receipt from the Purchaser of 1 (one) complete, signed copy of the Contract, the *Schedule of Deviations* (if any), notwithstanding the date of notification of the contract award to the Contractor.

1.1B.2 "Conditions of Contract" means the general conditions of contract and special conditions of contract including all other contract data incorporated by reference.

Insert new definition after 1.2

1.2A.1 "Contractor" or "Supplier" means the Entity (Service Provider) that is awarded the Tender and with whom the Contract has been concluded in terms of the Form of Offer and Acceptance in Part C2 of the Contract Document or any successor-in-title;

Insert new definition after 1.3

1.3A.1 "Control" of a company includes, without limiting the generality of the term –

1.3A.1.1 the beneficial ownership of the majority of the issued shares of the company; or

1.3A.1.2 the right to exercise the majority of the votes exercisable by the holders of shares in the company at a general meeting of shareholders; or

1.3A.1.3 the beneficial ownership of issued shares of the company entitling the beneficial owner thereof to exercise less than a majority of the votes attaching to all the issued shares of the company, where such voting power is sufficiently dominant relative to the spread of other shareholdings that it does constitute de facto Control of the company; or

1.3A.1.4 the right, through shareholding or otherwise, to appoint the director or those directors of the company who will, when acting jointly, be able to exercise the majority of the votes that directors of the Entity could exercise at a meeting of the Board of directors; or

1.3A.1.5 the right otherwise to control the management of the company;

Replace 1.8 with:

1.8 "Delivery" means the provision of all Services, as they occur, as required in terms of the Contract.

Insert new definition after 1.10

1.10A "Dispose" means sell, transfer, exchange, dispose of or otherwise alienate;

Insert new definition after 1.11

- 1.11A.1 "Duration" or "Contract Duration" means a period of **25** (twenty-five") years commencing from the Commencement Date, unless terminated at an earlier date as provided for in this Agreement. Nothing in this Agreement shall be construed as giving the Contractor any right of extension of this Agreement after the Termination Date, but the Employer may exercise the right, at its sole discretion, to extend the Contract Duration of the Agreement, taking into account the impact on the contract rates that may arise from such extension.
- 1.11A.2 "Employer" means the CCT or City of Cape Town, represented by the Director: Water and Sanitation;
- 1.11A.3 "Encumbrance" means any right to acquire, option or right of pre-emption, pledge, lien, assignment, hypothecation, title retention or other security agreement or arrangement; and "Encumbered" shall have a corresponding meaning;
- 1.11A.4 "Project Manager" means District Manager Operations, Wastewater Branch, Bulk Services, Cnr Voortrekker & Mike Pienaar, Bellville, Cape Town, 8001; of the City or any officer delegated by the Director: Bulk Services - Water and Sanitation Directorate to act in his stead from time to time;
- 1.11A.5 "Entity" includes any association, business, close corporation, company, concern, enterprise, firm, partnership, joint venture, person, trust, undertaking, voluntary association, body corporate, juristic person or any other similar entity, including also any governmental or quasi governmental entity;
- 1.11A.6 "Event of Default" means any of the events or circumstances specified in clause 26;
- 1.11A.7 "Exclusions" means the expenses, claims, costs or activities that the Contractor shall not be liable for, as set out in Appendix B;
- 1.11A.8 "Final Effluent" means the disinfected liquid fraction of the wastewater treatment process; and "Treated Effluent" shall have a corresponding meaning;
- 1.11A.9 "Financial Year" means the period 1 July until 30 June of any year

Delete Clause 1.15 and substitute with the following

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

Insert new definition after 1.16

- 1.16A.1 "Influent" means the wastewater received at the boundary of the Site mainly via the sewer system, which includes wastewater from residential, commercial, industrial and/or municipal sources, infiltration and inflows, but also includes the contents of sanitary buckets, chemical toilets and/or other liquid wastes;
- 1.16A.2 "Intellectual Property" means any and all intellectual property rights of any nature anywhere in the world whether registered, registerable or otherwise, including patents, trademarks, registered designs and domain names, applications for any of the foregoing, trade or business names, copyright and rights in the nature of copyright, design rights, rights in databases, know-how, trade secrets and any other intellectual property rights which subsist in computer software, computer programs, websites, documents, information, techniques, business methods, drawings, logos, instruction manuals, lists and procedures and particulars of customers, marketing methods and procedures and advertising literature, including the "look and feel" of any websites
- 1.16A.3 "Laboratory" means CCT's laboratories situated at the Scientific Services Branch in Athlone, Cape Town, as opposed to the laboratory at the Works or any other external SANAS accredited laboratory;

- 1.16A.4 "Law/s" shall mean any applicable law, proclamation, ordinance, Act of Parliament, Regulation, Policy or other enactment having the force of law in the Republic of South Africa (including any amendment thereof) and applicable from time to time to:
- 1.16A.4.1 the permitting, design, acquisition, construction, equipping, financing, ownership, possession, start-up, testing, operation, maintenance, repair, replacement or management of wastewater collection and treatment systems;
 - 1.16A.4.2 the conveyance, treatment, or discharge of Influent and Final Effluent to and from the Works;
 - 1.16A.4.3 the management, handling, processing, transportation or disposal of Sludge;
 - 1.16A.4.4 the air emissions from the Works;
 - 1.16A.4.5 the health and welfare of persons at or visiting the Works;
 - 1.16A.4.6 or any transaction or matter contemplated herein, including without limitation, any of the foregoing which pertain to sewer treatment, waste disposal, health, safety, fire, environmental protection, labor relations, building codes and preferential procurement in terms of CCT's Supply Chain Management Policy;

including, but not limited to the following legislation, as amended from time to time, namely:

- the National Environmental Management Act (Act 107 of 1998);
 - the National Water Act (Act 36 of 1998);
 - the Water Services Act (Act 108 of 1997);
 - the Local Government; Municipal Systems Act (Act 32 of 2000);
 - the Municipal Structures Act (Act 33 of 2000);
 - the Local Government: Municipal Finance Management Act, No. 56 of 2003 (hereinafter referred to as the MFMA);
 - Insolvency Act, (Act 24 of 1936);
 - Companies Act, (Act 71 of 2008);
 - the Compensation for Occupational Injuries and Diseases Act No.130 of 1993, as amended (hereinafter referred to as the COID Act);
 - the Basic Conditions of Employment Act (Act 75 of 1997);
 - the Income Tax Act (Act 58 of 1962);
 - the Labour Relations Act (Act 66 of 1995);
 - the Skills Development Act (Act 7 of 1999);
 - the Skills Development Levies Act (Act 9 of 1999);
 - the Unemployment Insurance Contributions Act (Act 4 of 2002); and
 - the Unemployment Insurance Act (Act 63 of 2001).
- 1.16A.5 "License" means all the regulatory licenses issued by the Department of Water and Sanitation in terms of the provisions of the National Water Act and the Water Services Act or the regulatory permits issued by the Department of Water and Sanitation in terms of the Water Act of 1956, to which the Works and its operation may be subject to, attached hereto as **Appendix A**;

Insert after 1.18

- 1.18A.1 "Maintenance" shall mean all of the Contractor's Contract Services in respect of the maintenance of the Assets, as more fully described in clause 6;

- 1.18A.2 "Operation" means all Contract Services to be performed by the Contractor in execution of its obligation to effect the Operational Control and Maintenance; and "operate" and "operating" shall have a corresponding meaning;
- 1.18A.3 "Operational Control" means all of the Contractor's Contract Services in respect of the operation and management of the Assets, as more fully described in clause 5;
- 1.18A.4 "Operation and Maintenance Manuals" means:
- 1.18A.4.1 the existing Operation and Maintenance Manuals for the Works; and
- 1.18A.4.2 any supplier or vendor operation and maintenance manuals in respect of any of the Assets, including SCADA; and
- 1.18A.4.3 any new operation and maintenance manuals in respect of any of the Assets;
- 1.18A.5 "Operation and Maintenance Plans" means the plans specified in 5.2.3.8

Delete Clause 1.19 and substitute with the following

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

Insert after 1.19

- 1.19A.2 "Parties" means the Employer and the Contractor, including their respective successors-in-title and/or permitted assignees; and "Party" means any one of them as the context may indicate;
- 1.19A.3 "Performance Compliance Criteria" means the guarantees of performance made by the Contractor, specifically set out in clause 5.2.2.2 and subject to penalties set out in Appendix C;
- 1.19A.4 "Process Change" means:
- 1.19A.4.1 taking a treatment process off-line permanently or for an extended time period (one month or more);
- 1.19A.4.2 using a treatment process in a manner other than its intended use;
- 1.19A.4.3 by-passing all or a portion of flow through a process; or
- 1.19A.4.4 implementing an operational change that results in major modifications to the Operation and Maintenance Plans, the Operation and Maintenance Manuals or the SOPs;

Delete Clause 1.21 and substitute with the following:

- 1.21 'Purchaser' means the City of Cape Town ("CCT") or "Employer. The address of the Purchaser is 12 Hertzog Boulevard, Cape Town, 8001 (chosen domicilium citandi et executandi).

Insert after 1.21

- 1.21A.1 "Rand" or "R" means the lawful currency of South Africa;
- 1.21A.2 "Residuals" means the materials removed from the inlet screens, the grit removal process and other designated waste disposal storage areas;

Insert after 1.23

- 1.23A.1 "SCADA" means supervisory control and data acquisition, which is a computerized management system utilized to collect data from the various components of the Works and then sends the data to a central computer that manages and controls the data;
- 1.23A.2 "Scope of Work" means the document that defines CCT's objectives and requirements and specifies the Contract Services which must or may be provided under this Agreement, which is incorporated herein by reference;

Replace 1.24 with below

- 1.24 "Services" means the operational control, maintenance and associated services to be rendered or provided by the Contractor in terms of this Agreement, including without limitation, the wastewater collection, treatment, pumping and conveyance, sludge management and all ancillary activities at, serving, or impacted on or by the Works in accordance with the Contract;

Insert after 1.24

- 1.24A.1 "Signature Date" means the date of signature of the Form of Offer and Acceptance in Part C1.4 of the Contract Document by the Party signing last in time;
- 1.24A.2 "Site" means the area on which the Works are situated, known as Portion 54 of the Farm Driftsands No. 544 in the Cape District, in extent of 26.7666 ha, together with Portion 110 (Portion of Portion 3). It is recorded that the extent of the Site may be adjusted in future at the election of CCT;
- 1.24A.3 "Sludge" means the residue removed from or remaining from the treatment, thickening or dewatering of wastewater, excluding the Residuals;
- 1.24A.4 "SOP" means a standard operating procedure ;
- 1.24A.5 "Tender" means the Offer part of the Form of Offer and Acceptance in Part C1.4 of the Contract Document, and all other documents which the Contractor submitted as Returnable Documents, as included in the Contract.
- 1.24A.6 "Termination Date" means the date on which this Agreement terminates and is no longer in force or effect, which date shall be the last day of the period referred to in clause 1.11A.1, unless earlier terminated as provided herein;
- 1.24A.7 "Uncontrollable circumstance" means an act or event beyond the control of the Party relying thereon as justification for not performing an obligation or complying with any condition required of such Party in terms of this Agreement, and that materially interferes with or materially increases the cost of performing its obligations hereunder, to the extent that such act or event is not the result of the willful or negligent act, error or omission, failure to exercise reasonable diligence, or breach of this Agreement on the part of such Party. Such acts or events shall include, and shall not be limited to, wars or revolutions, fires, floods, epidemics, quarantine restrictions, freight embargos and Acts of God;
- 1.24A.8 "VAT" means value added tax as in terms of the Value Added Tax Act No 89 of 1991; and
- 1.24A.9 "Works" means the Zandvliet Wastewater Treatment Works and associated services ("ZWWTW") situated within the boundaries of the Site and any Associated Services as defined in the Scope of Works, used for all processes and phases of the collection, management, transport and treatment of Influent and the management, transport and disposal of the Final Effluent and Sludge in accordance with the applicable Law and the Licenses.

Add the following after Clause 1.25:

- 1.28 "Working Day" means Monday to Friday excluding weekends and Public Holidays (in the Republic of South Africa).

3. General Obligations

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

- 3.2 The Parties will be liable to each other arising out of or in connection with any breach of the obligations detailed or implied in this contract, subject to clause 28.
- 3.3 If the Supplier is a joint venture, all parties in a joint venture or consortium shall be jointly and severally liable to the Purchaser in terms of the Contract and shall carry individually the minimum levels of insurance stated in the Contract, if any.
- 3.4 The Parties shall comply with all laws, regulations and bylaws of local or other authorities having jurisdiction regarding the Delivery of the Goods and/or Services and give all notices and pay all charges required by such authorities.
 - 3.4.1 The Parties agree that this Contract shall also be subject to the CCT's Supply Chain Management Policy ("SCM Policy") that was applicable on the date the bid was advertised as amended from time to time. If the Purchaser adopts a new SCM Policy which contemplates that any clause therein would apply to the Contract emanating from this tender, such clause shall also be applicable to the Contract. Please refer to this document contained on the CCT's website. Where such new SCM policies result in a material deviation from the scope of services or terms and conditions to this Contract, the Contractor has the right to apply the provisions of Clause 18.
 - 3.4.2 Abuse of the supply chain management system is not permitted and may result in termination of the Contract, restriction of the Supplier, and/or the exercise by the CCT of any other remedies available to it as described in the SCM Policy or in law.
- 3.5 The Supplier shall:
 - 3.5.1 Arrange for the documents listed below to be provided to the Purchaser prior to the issuing of the Purchase Order by the Purchaser and no later than the periods as set out in the Contract:
 - a) Proof of Insurance (Refer to Clause 11) or Insurance Broker's Warrantee,
 - b) Letter of good standing from the Compensation Commissioner, or a licensed compensation insurer (Refer to Clause 11),
 - c) Initial delivery programme, and
 - d) Other requirements as detailed in the Contract.
 - 3.5.2 Only when notified of the acceptance of the bid on the Date of Commencement of Contract, the Supplier shall commence with and carry out the Delivery of the Goods and/or Services in accordance with the Contract, to the satisfaction, of the Purchaser.
 - 3.5.3 Provide all of the necessary materials, labour, plant and equipment required for the delivery of the Goods and/or Services including any temporary services that may be required.
 - 3.5.4 Insure his workmen and employees against death or injury arising out of the delivery of the Goods.
 - 3.5.5 Be continuously represented during the Delivery of the Goods and/or Services by a competent representative duly authorised to execute instructions.
 - 3.5.6 In the event of a loss resulting in a claim against the insurance policies stated in clause 11, pay the first amount (excess) as required by the insurance policy.
 - 3.5.7 Comply with all written instructions from the Purchaser subject to clause 18.
 - 3.5.8 Complete and Deliver the goods within the period stated in clause 10, or any extensions thereof in terms of clause 21.
 - 3.5.9 Make good at his own expense, all incomplete and defective Goods during the warranty period.

- 3.5.10 Pay to the Purchaser any penalty for delay as due on demand by the Purchaser. The Supplier hereby consents to such amounts being deducted from any payment due to the Supplier.
- 3.5.11 Comply with the provisions of the OHAS Act & all relevant regulations.
- 3.5.12 Comply with all laws relating to wages and conditions generally governing the employment of labour in the Cape Town area and any applicable Bargaining Council agreements.
- 3.5.13 Deliver the Goods in accordance with the Contract and with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards.
- 3.6 The Purchaser shall:
 - 3.6.1 Issue Purchaser Orders for the Goods and/or Services required under this Contract. No liability for payment will ensue for arising out of the Delivery of the Goods and/or Services, unless a Purchase Order has been issued to the Supplier.
 - 3.6.2 Make payment to the Supplier for the Goods and/or Services as set out herein.
 - 3.6.3 Take possession of the Goods and /or Services upon Delivery by the Supplier.
 - 3.6.4 Regularly inspect the Goods to establish that it is being delivered in compliance with the Contract.
 - 3.6.5 Give any instructions and/or explanations and/or variations to the Supplier including any relevant advice to assist the Supplier to understand the Contract.
 - 3.6.6 Grant or reasonably refuse any extension of time requested by the Supplier in terms of the Contract.
 - 3.6.7 Inspect the Goods and/or Services to determine if, in the opinion of the Purchaser, it has been delivered in compliance with the Contract, alternatively in such a state that it can be properly used for the purpose for which it was intended.
 - 3.6.8 Brief the Supplier and issue all documents, information, etc. in accordance with the contract.

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

Add the following after clause 5.4:

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

The ownership of data and factual information collected by the Supplier and paid for by the Purchaser shall, after payment, vest with the Purchaser.
- 5.6 Publicity and publication
The Supplier shall not release public or media statements or publish material related to the services or agreement within two (2) years of Delivery of the Goods, without the written approval of the Purchaser, which approval shall not be unreasonably withheld.
- 5.7 Confidentiality
Both Parties shall keep all information obtained by them in the context of the agreement, confidential and shall not divulge it without the written approval of the other Party.

5.7.1 Confidentiality in respect of the Agreement

5.7.1.1 Subject to 5.7.1.2, no Party shall, without the consent of the other Party, issue or make any public announcement or statement or release or make available any information regarding this Agreement or its implementation.

5.7.1.2 The provisions of 5.7.1.1 shall not apply to a public announcement or release of information which a Party is required to make in order to comply with a statutory obligation or the requirements of a competent governmental authority or a recognised stock exchange or if such Party or one of its subsidiaries wishes to disclose any such information in its annual financial statements, in which event a copy of the announcement or statement shall, prior to publication or release, be furnished to the remaining Parties for their approval, which approval shall not unreasonably be withheld.

5.7.2 Confidentiality in respect of Information

The Contractor agrees that it shall;

5.7.2.1 not make use of or disclose or divulge to any outside party the terms of this Agreement or any information which that the Contractor may acquire during the currency of this Agreement relating to the Works, provided that this obligation will not extend to information -

5.7.2.2 which is in or comes into the public domain otherwise than through the default of the Contractor;

5.7.2.3 the disclosure of which is agreed by prior written consent of the Parties;

5.7.2.4 which is properly available to the public or disclosed or divulged pursuant to an order of a court of competent jurisdiction;

5.7.2.5 the disclosure of which is required by law, regulatory authority, or a stock exchange;

5.7.2.6 which was known to the Contractor and was not subject to an obligation of confidence;

5.7.2.7 which was independently developed by the Contractor without access to and/or using such information and/or proprietary information; or

5.7.2.8 which is rightfully received from a third party who was not bound by confidentiality undertakings not to disclose such information; and

5.7.2.9 ensure that the members of its group, officers and employees shall observe the restrictions contained in this 5.7.2.

A reciprocal agreement in terms of this clause shall apply to CCT in respect of Confidentiality of the Contractor's information,

5.8 Intellectual Property

5.8.1 The Supplier acknowledges that it shall not acquire any right, title or interest in or to the Intellectual Property of the Purchaser.

5.8.2 The Supplier hereby assigns to the Purchaser, all Intellectual Property created, developed or otherwise brought into existence by it for the purposes of the agreement, unless the Parties expressly agree otherwise in writing.

5.8.3 The Supplier shall, and warrants that it shall:

5.8.3.1 Not be entitled to use the Purchaser's Intellectual Property for any purpose other than as contemplated in the agreement;

5.8.3.2 not modify, add to, change or alter the Purchaser's Intellectual Property, or any information or data related thereto, nor may the Supplier produce any product as a result of, including and/or arising from any such information, data and Intellectual Property, and in the event that it does produce any

such product, the product shall be, and be deemed in law to be, owned by the Purchaser;

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

Add the following after clause 5.8:

5.9 Protection of Personal Information Act of 2013

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

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

of its personal information.

5.10 **PERFORMANCE MONITORING**

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

7. Performance Security

Delete clause 7.1 and replace with the following:

- 7.1 Within 14 (fourteen) days of Commencement Date the Supplier shall furnish to the Purchaser the performance security:
- 7.1.1 For the Guarantee Sum for the first contract year equal to 10% (ten percent) of the annual contract price, less VAT and CCT's contingencies, and this shall be renewed annually thereafter;
- 7.1.2 The Performance Security/Guarantee furnished shall be issued by an Approved Financial Institution listed in the Pro Forma Performance Security/Guarantee as at 13 August 2025 (being institutions approved for issue of contract guarantees by the Purchaser).

Delete clause 7.3 and replace with the following:

- 7.3 The performance security shall be furnished strictly in accordance with the terms and conditions set out in Form of Performance Security / Guarantee.

Delete clause 7.4 and replace with the following:

- 7.4 The performance security will be discharged by the Purchaser and returned to the Supplier strictly in accordance with the terms and conditions set out in the Performance Security/ Guarantee.

8. Inspections, tests and analyses

Delete Clause 8.2 and substitute with the following:

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

10. Delivery and documents

Delete clauses 10.1 and 10.2 and replace with the following:

- 10.1 Delivery of the Services shall be made by the Supplier over the duration of, and in accordance with the terms specified in the Contract and the Purchase Order, together with any Additional Services and Associated Services to be carried out on the instruction of the Purchaser.

Certain services and work in progress may not be completed at the contract expiry date, and the Parties shall therefore agree on a reasonable future date for completion, as well as any payments that may be due on completion.

- 10.2 The Purchaser shall determine on a monthly basis whether the Goods and/or Services claimed monthly by the Supplier have been delivered in compliance with the Contract, alternatively in such a state that it can be properly used for the purpose for which it was intended. When the Purchaser determines that the Goods and/or Services have been satisfactorily delivered, the Purchaser must issue an appropriate certification, or written approval, to that effect. Invoicing of the certified amounts may only occur, and must be dated, on or after the date of such written acceptance of the Services.
- 10.3 Use of the Assets
- 10.3.1 The Contractor agrees not to
- 10.3.1.1 use the Works or the Site or the Assets for any purpose other than as a wastewater treatment and Sludge handling facility and matters ancillary thereto; and
- 10.3.1.2 make any alterations or additions to the Works or the Assets without the prior written consent of the Project Manager
- 10.3.2 Handing over the Assets by the Purchaser for use by the Supplier shall be carried out as follows:
- 10.3.2.1 Within 7 days after the Commencement Date, the Contractor and the Project Manager shall visit the Site and inspect the Assets for the following purposes:
- 10.3.2.2 to re-evaluate and record the condition of the Assets in comparison to its condition at the date of the Contractor's site visit as prospective tenderer, fair wear and tear accepted. CCT shall be responsible for the necessary cost attributable to repair or replacement of any deteriorated Assets arising during the intervening period. It shall be in CCT's sole discretion whether to repair or replace any such deteriorated Assets.
- 10.3.2.4 to establish the need for the acquisition by the Contractor of equipment and special tools essential for the operation and maintenance of the Assets, in addition to the items already on the Site and belonging to CCT. CCT shall be responsible for the cost of such additional equipment and special tools provided that CCT has agreed to the necessity thereof and the method of acquisition; and
- 10.3.2.5 to make the arrangements for the handing over of possession from the present operator to CCT and again from CCT to the Contractor, within 14 days after the Commencement Date, provided that the Performance Bond and evidence of Insurances have been delivered to and approved by the Project Manager.
- 10.3.3 Based on the review and inspection of the Assets as described in Clause 10.3.14.1, which the Contractor acknowledges to be sufficient for this purpose, the Contractor assumes the risk of the adequacy and sufficiency of the Assets and the existing "as-is" condition of the Assets to the extent that such condition may affect the ability of the Contractor to comply with the provisions of this Agreement.
- 10.4 Utilities
- 10.4.1 The Contractor shall have the right and responsibility to arrange for the supply of and to pay for any and all utility services and installations whatsoever (including telephone and telecommunications) and all piping, wiring, conduits and other fixtures of every kind whatsoever related thereto or used in connection therewith.
- 10.4.2 CCT shall have the exclusive right to arrange for the supply of electricity and water to the Assets, and to negotiate and establish electric rates and water usage rates with the supplier, and any impact on the Contractor's rates arising from such rights shall be agreed between the Parties.
- 10.4.3 The Contractor shall be responsible for payment of electricity and water supply for the Works.
- 10.4.4 In the case of Electricity, the Contractor, unless otherwise instructed, shall enter into a direct supply agreement with Eskom and shall pay all deposits and provide such securities as may be required by Eskom. The costs of such deposits, securities and energy charges shall be included in the Contractor's

tendered rates.

10.5 Consumables

10.5.1 The Contractor shall, as part of the Contract Services:

10.5.1.1 arrange for the supply of chemicals, including chlorine and polyelectrolyte, subject to CCT's written approval of any supplier of such chemicals, which approval shall not be unreasonably withheld; and

10.5.1.2 oversee and manage any contracts or agreements related to the supply of chlorine and polyelectrolyte from a third party supplier;

10.5.2 The Contractor shall bear the responsibility for payments due under the aforesaid contracts or agreements to such third-party suppliers for the chlorine and polyelectrolyte.

10.5.3 Save as specifically excluded in Appendix B, the Contractor shall be responsible for any and all costs and expenses relating to consumables used in the Operation of the Assets.

10.6 Sludge and Residuals

10.6.1 Save as provided for in Appendix B, the Contractor shall have full responsibility for and shall bear the on-site costs and expenses associated with:

10.6.1.1 the dewatering and handling of both Primary and Waste Activated Sludge.

10.6.1.2 collect and store all residuals in bins or skips provided by CCT's residual and sludge removal and disposal subcontractor

10.6.2 The Contractor shall only allow the services of the supplier appointed by CCT for the removal and disposal of the Sludge and residuals.

10.6.3 The Purchaser shall provide the Contractor with proof that Sludge and Residuals disposal is performed in accordance with the applicable Law, the License and CCT's SOP, and the Contractor shall have no liability in this regard.

10.6.4 The Contractor shall keep and maintain such logs, records, manifests, bills of lading or other documentation pertaining to the Sludge and Residuals as are necessary or appropriate to comply with the applicable Law and as requested by CCT.

10.6.5 The Contractor shall collect and promptly provide CCT with a copy of all weights and measures data and information relating to quantities of Sludge and Residuals generated and removed off Site.

10.7 Operation and Maintenance Manuals

10.7.1 The Contract Services shall be performed substantially in compliance with the Operation and Maintenance Manuals, the Operation and Maintenance Plans, and SCADA.

10.7.2 The Contractor shall keep these documents and databases (including SAP) current, shall make all appropriate updates, supplement or revisions thereto and shall make such documents and databases available to CCT on request.

10.7.3 The Operation and Maintenance Manuals, including those obtained electronically, shall be maintained and updated as required.

10.7.4 Any review of the operation and maintenance documents and databases shall not:

10.7.4.1 relieve the Contractor of any of its responsibilities under this Agreement; or

10.7.4.2 impose any liability on CCT.

10.8 Suppliers Delivery obligations in terms of operational services are as follows:

10.8.1 Within 14 days after the Commencement Date, the Contractor shall operate and manage the Assets on a 24 (twenty-four) hours per day, 7 (seven) days per week basis throughout the duration of this Agreement, and shall collect, receive and treat Influent; produce and discharge Final Effluent; manage the handling, transport and disposal of Sludge and Residuals, and otherwise render and perform the Contract Services so as to comply with all the provisions of this Agreement, the Scope

of Work, the License, the applicable Laws, the Operation and Maintenance Manuals and specifically the provisions of the National Environmental Management Act (Act 107 of 1998) and the National Water Act (Act 36 of 1998).

- 10.8.2 The Contractor shall all times use its Best endeavors to operate and manage the Assets cost effectively and in terms of the applicable Laws, optimizing the use of the Assets, preserving and operating the Assets in a manner that would minimize the occurrence of breakdowns and nuisance, and according to the best standards of practice in the industry.
- 10.8.3 The Contractor undertakes and agrees to execute its obligations in respect of the Operation of the Assets and perform the Contract Services with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards.
- 10.8.4 The Contractor shall use its Best Endeavors to transfer to and apply at the Assets the benefit of the advances and improvements in technology, management practices and operating efficiencies which are developed by the Contractor through the operation of their wastewater treatment businesses and industry research and development activities over the full term of this Agreement, and which are useful and appropriate in the good faith judgment of the Contractor for carrying out the Contract Services.
- 10.8.5 The Contractor shall not implement any Process Change without the prior written approval from CCT.
- 10.8.6 The Contractor's obligations in providing the Operational Control shall include but not be limited to the obligations as set out in 5.5.2 of the specifications hereto.
- 10.8.6 Without in any way derogating from the generality of the foregoing, and in rendering the Contract Services, the Contractor shall: -
 - 10.8.6.1 take possession of the Assets according to CCT's arrangements for handover after the Commencement Date;
 - 10.8.6.2 consider the take over and employ the existing operational staff through a Section 197 of the Labor Relations Act 66 of 1995 process and maintain sufficient numbers of qualified staff available throughout the Agreement duration to provide for Operational Control of the Assets, including the 24 (twenty four) hour per day availability of a Contract Manager or his delegate whose names and contact details shall be made available at all times. In this regard, the parties agree that the staffing regulations for wastewater treatment works as determined by the Department of Water and Sanitation shall be used as a minimum requirement;
 - 10.8.6.3 train its staff on a continuous basis with emphasis on preparedness for critical issues in the processes of wastewater treatment, situations resulting from equipment failure, and problems with the Influent, as well as the maintenance and care of the Assets;
 - 10.8.6.4 develop, maintain and revise as necessary the Operation and Maintenance Manuals and the written SOPs to the extent necessary and to supplement or refine procedures provided in the Operation and Maintenance Manuals, or to describe operational practices not specified in such manuals in order to facilitate and clarify operation procedures and techniques;
 - 10.8.6.5 optimize the process controls of the various process streams, including quality monitoring by its operational staff through the on-site laboratories (analytical and bacteriological), as well as CCT's Scientific Services Laboratory and external SANAS accredited laboratories as required;
 - 10.8.6.6 provide all necessary consumables; PPE; equipment, tools, contractor owned IT systems and equipment, communication systems including cell phones and radios, as well as transport;
 - 10.8.6.7 subject to what is stated in the remainder of the Agreement, respond in a timely manner to all complaints and comments relative to wastewater collection, treatment and discharge, including odor complaints. Responses shall be made and documented in writing, all complaints and responses shall be kept on file and available for inspection, and a copy of such complaint and response shall be filed with CCT;
 - 10.8.6.8 ensure that it adheres strictly to the time periods for the conducting and completion of the Contract Services and the Operational Control as determined in this Agreement;
 - 10.8.6.9 ensure that it adheres strictly to the Scope of Work and the License in terms of which the Contract Services and Operational Control is to be carried out;
 - 10.8.6.10 ensure that it strictly complies with all applicable safety and health, as well as environmental and energy standards and regulations;

- 10.8.6.11 ensure that it strictly complies with the requirements in respect of the quality of the Final Effluent and Sludge in accordance with provisions of the Scope of Work and the License, insofar as the plant, as designed, is capable of performing;
- 10.8.6.12 provide such reports to CCT pertaining to the provision of the Contract Services and the Operational Control as may be required by CCT, from time to time, and in such format as may be reasonably required by CCT;
- 10.8.6.13 provide such reports to CCT for submission to the Department of Water and Sanitation as may be required by CCT from time to time;
- 10.8.6.14 provide adequate security and protect the integrity of the Site, Works and the Assets and the possession thereof as required by CCT from time to time; and
- 10.8.6.15 acknowledge and agree that it is responsible for compliance with all the applicable Laws insofar as its employees are concerned.
- 10.8.7 The Contractor shall permit the execution of work by any persons who may be engaged by CCT for the carrying out of work not embraced in terms of this Agreement, but directly or indirectly connected with it, and shall give all facilities necessary and proper to such persons. In the event of there being any dispute in this connection between the Contractor and such other persons, it shall be settled by the Project Manager, whose decision shall be final.
- 10.9 Suppliers Delivery obligations in terms of maintenance services are as follows:
 - 10.9.1 The obligations of the Contractor are intended to assure that the equipment, machinery, tools, buildings, structures, grounds and other assets constituting the Assets are properly and regularly maintained, repaired and/or replaced in order to preserve their long term reliability, availability, durability and efficiency, and in such a way that the Assets are returned to CCT at the end of the duration of the Agreement in a condition which does not require CCT to undertake a significant overhaul or replacement thereof in order to continue to operate the Works.
 - 10.9.2 As part of the Contract Services, the Contractor shall, and in all respects, be responsible for the Maintenance of the Assets as set out in 5.2.2.5 hereto.
 - 10.9.3 Without in any way derogating to the generality of the foregoing, the Contractor shall be obliged to:
 - 10.9.3.1 generally maintain, repair, restore and replace the Assets or any part thereof in the same manner as a careful and diligent owner;
 - 10.9.3.2 provide or make provision for all labour, materials, supplies, equipment, tools, spare parts, on-site transport, consumables and services that are necessary for the maintenance of the Assets;
 - 10.9.3.3 maintain, repair, restore and where necessary replace the Assets or any part thereof as may break down, or be damaged or require repair or maintenance;
 - 10.9.3.4 obtain three independent written quotations in respect of the Associated Services the cost of which exceeds R10 000,00 (ten thousand Rand) and subject to clause 10.9.4, which quotations must be submitted to the Project Manager for approval prior to any replacement;
 - 10.9.3.5 carry out such maintenance, refurbishment, painting, routine inspection, testing (technical and statutory), measurement of wear and tear and other operations necessary to ensure the continued good functioning of the Assets in accordance with the Operation and Maintenance Plans;
 - 10.9.3.6 devote such of its resources as are necessary to maintain, repair and restore the Assets and record all maintenance, repair, replacement or restoration done;
 - 10.9.3.7 ensure that the Assets are available for inspection at all time;
 - 10.9.3.8 provide all plant, tools and equipment, without exception, necessary for any of the Contractor's obligations in terms of this Agreement;
 - 10.9.3.9 be on standby to react to any breakdown to the Assets or any part thereof, twenty-four (24) hours per day for each and every day of the duration of this Agreement;
 - 10.9.3.10 continue to maintain, repair, restore and replace the Assets pending the settlement of any dispute;
 - 10.9.3.11 ensure strict compliance with the applicable Laws in carrying out all of its maintenance obligations in terms of this Agreement;
 - 10.9.3.12 keep CCT indemnified against all penalties and liability of every kind for any breach of the

applicable Laws, insofar as such breach of the applicable Laws relate to any non-compliance or default by the Contractor in respect of maintenance that are within the reasonable control of the Contractor;

- 10.9.3.13 prepare and implement a contingency plan for the continued Operation and Maintenance of the Assets in the event of strikes by his employees;
- 10.9.3.14 notify the Project Manager of any shut down of critical equipment (being equipment, if not functioning, will impact on the quality of the Final Effluent or will have a negative impact on public health and/or the environment), required for maintenance;
- 10.9.3.15 preserve the warranties on all equipment and machinery, while ensuring that the installation, configuration and commissioning of the equipment and machinery are within the specifications and operating conditions determined or approved by CCT;
- 10.9.3.16 supply all and any information which CCT may require to verify the performance warranties referred to in Clause 35.6;
- 10.9.3.17 perform predictive and preventative maintenance on all Assets in accordance with the Manufacturer's requirements, including the specialist maintenance services as described in Appendix G;
- 10.9.3.18 provide regular updates of the Maintenance Plan referred to in 5.2.3.8;
- 10.9.3.17 hold an annual workshop with CCT to discuss the preceding year's maintenance activities and any changes to the Maintenance Plan for the upcoming year;
- 10.9.3.18 hold an annual workshop with CCT to discuss any recommendations relating to capital improvements of the Assets for the upcoming year. The Contractor shall not be provided additional remuneration for identifying and providing planning recommendations. The Contractor shall prepare and submit an annual "capital improvements recommendation plan", within 30 (thirty) days following the workshop. Any replacement equipment must have equal or greater capacity, quality or durability than the equipment being replaced.
- 10.9.4 Save for the Exclusions referred to in Appendix B, the cost of any purchase, repair or replacement of any single item that is greater than R1,000,000 (one million Rand) (exclusive of VAT), will be borne by CCT on the basis that the Contractor shall contribute the first R1,000,000 (exclusive of VAT) and CCT the remaining balance of the cost of the item which is linked to a yearly CPA adjustment, provided that:
 - 10.9.4.1 the damage was not caused by a willful act of the Contractor or persons under its control;
 - 10.9.4.2 the damage was not caused by misuse or negligence by the Contractor or persons under its control;
 - 10.9.4.3 the damage was not caused by non-compliance with the obligations set out in 5.2.2 and the Operation and Maintenance Plans referred to therein;
 - 10.9.4.4 should the replacement item be an improved or better product that increases the treatment capacity of the Works, then the matter will in respect of such additional cost be dealt with as an extension of the Works as provided for in clause 18;
 - 10.9.4.5 the Contractor has provided CCT with three independent quotations for the cost of purchase, repair or replacement of any item, and in terms whereof CCT shall have an exclusive discretion whether to accept any of the aforesaid quotations or not; and
 - 10.9.4.6 these contributions shall only apply where the expenditure has been approved in writing by CCT, unless remedial or repair work is urgently necessary for the safety of persons or the Assets.
- 10.9.5 Any item brought onto the Site for the convenience of the Contractor, and not reasonably required for the Operation, shall remain the Contractor's property, provided that the Contractor informed CCT in writing of any such items at the time of submitting its next monthly report. Everything brought onto the Site and not so reported or items so reported but found to be necessary for the Contractor's duties shall be deemed to be the property of CCT and may not be removed from the Site during the currency of the Agreement or on termination thereof.
- 10.9.6 Provided that the Contractor or its appointed security personnel has taken all reasonable care to prevent loss, CCT shall be responsible for the cost of the replacement in respect of the Site's boundary fence. This expense and the manner in which it is incurred must be expressly approved by CCT. In the event that any loss or damage to the boundary fence was as a result of the Contractor's,

or its appointee's, negligence, then the Contractor shall be responsible for the cost of the repair or replacement of the boundary fence.

- 10.9.7 CCT's authorized representatives will visit the Site on a monthly basis or such other time period as decided by CCT's authorized representative to inspect the Assets in the presence of the Contractor and to discuss the monthly reports and problems that may have been encountered.
- 10.9.8 CCT, at its sole discretion, may have the Assets inspected annually by an agent knowledgeable in corrosion protection to report on the condition of the Assets and to advise on necessary corrosion protection requirements.
- 10.9.9 CCT, at its sole discretion, will have the Assets, the Works and all matters related to the Works inspected annually to ensure compliance with OHSA Regulations.
- 10.9.10 The Contractor shall employ in the execution of the Operational Control and Maintenance only such persons as are careful, competent and efficient and the Project Manager shall be at liberty to object to and require the Contractor to remove from the Site forthwith any person employed by the Contractor in the execution of the Operational Control or Maintenance who in the opinion of the Engineer misconducts itself or is incompetent or negligent in the proper performance of its duties, and such person shall not be again employed upon the Site without the permission of the Engineer.
- 10.9.11 On the Termination Date the Contractor shall deliver the Assets to CCT in good working order and condition, fair wear and tear accepted.

11. Insurance

Add the following after clause 11.1:

- 11.2 Without limiting the obligations of the Supplier in terms of this Contract, the Supplier shall effect and maintain the following additional insurances:
 - 11.2.1 Public liability insurances, in the name of the Supplier, covering the Supplier and the Purchaser against liability for the death of or injury to any person, or loss of or damage to any property, arising out of or in the course of this Contract, in an amount not less than **[R20 million]** for any single claim;
 - 11.2.2 Motor Vehicle Liability Insurance, in respect of all vehicles owned and / or leased by the Supplier, comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability Indemnity;
 - 11.2.3 Registration / insurance in terms of the Compensation for Occupational Injuries and Disease Act, Act 130 of 1993. This can either take the form of a certified copy of a valid Letter of Good Standing issued by the Compensation Commissioner, or proof of insurance with a licenced compensation insurer, from either the Supplier's broker or the insurance company itself (see the Pro Forma Insurance Broker's Warranty).
 - 11.2.4 In the event of under insurance or the insurer's repudiation of any claim for whatever reason, the Purchaser will retain its right of recourse against the Supplier.
- 11.3 The Supplier shall be obliged to furnish the Purchaser with proof of such insurance as the Purchaser may require from time to time for the duration of this Contract. Evidence that the insurances have been effected in terms of this clause, shall be either in the form of an insurance broker's warranty worded precisely as per the pro forma version contained in the Pro forma Insurance Broker's Warranty or copies of the insurance policies.
- 11.4 The Contractor shall ensure that any subcontractors engaged in operation and maintenance activities shall, in addition to the Public Liability and COID Insurances as described above, also take out and maintain indemnity insurance to the value of the work being undertaken.
- 11.5 The Contractor shall be obliged to furnish CCT with proof of such insurance as CCT may require from time to time for the duration of the Agreement. The evidence that the insurances have been effected in terms of this clause, shall be in the form of an insurance broker's warranty worded precisely as given in Part C1.7 Insurance Broker's Warranty in this Contract Document.

- 11.6 The Contractor shall not keep or do in or about the Site anything which is liable to enhance any of the risks against which the Assets are insured for the time being to the extent that such insurance is rendered void or voidable or the premiums of such insurance are, or become liable to be, increased.
- 11.7 Without limiting its responsibility toward CCT, the Contractor may insure its interest in all or specified items of the Assets for its own account. The Contractor shall inform CCT of all such insurance.
- 11.8 Provided the Contractor has taken all reasonable steps within its power to comply with its duty of care, and to prevent or limit damage to the Assets CCT accepts the risk for damage and consequential loss arising from the following causes:
- 11.8.1 war, invasion, act of foreign enemies, hostilities or warlike operations (whether war be declared or not) or civil war; insurrection, rebellion or revolution; mutiny, military rising, military or usurped power, martial law or state of siege or any event or cause which determines the proclamations or maintenance of martial law or state of siege;
- 11.8.2 any event which, at closing date of the Tender, is defined as a risk in terms of insurance offered by the South African Special Risks Insurance Association.
- 11.8.3 the impact of meteorites pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds; and
- 11.8.5 the design flaws of the Works by CCT or persons authorized to act on its behalf.
- 11.9 Notwithstanding the provisions of this Clause 11 and other clauses in respect of Insurances, CCT will provide all Insurances in respect of its fixed and movable Assets incorporated within the scope of Works, and shall indemnify the Contractor and its subcontractors against the cost or liability to make good any damages, loss, Third Party liability or insurance excess or deductibles arising from such insurance including:
- 11.9.1 Asset All Risk Insurance in respect of CCT's fixed and movable assets, plant and materials (including, but not limited to Acts of God; fire; theft; flood and other perils, and including the provisions of 11. 8)
- 11.9.2 Special Risk Insurance as issued by the South African Special Risk Insurance Association
- 11.9.2 Public Liability Insurance covering CCT and the Contractor for the death of or injury to any person or loss of or damage to any property arising from failure or non-performance of the Asset or the design of the Works provided that such liabilities are not attributable to the Contractor due to the Contractor's negligence, in which event the provisions of clause 11.1 to 11.8 shall apply

14. Spare Parts

Add as Clause 14.2:

- 14.2 On Contract Commencement;
- 14.2.1 CCT shall hand over, free of charge, all Spare Parts owned by CCT and stored at the Works, these to be correctly scheduled, stored, maintained and controlled by the Contractor at its cost
- 14.2.2 The Contractor shall immediately replace, at its cost, any spare part drawn down from the spare parts stock.
- 14.3 On Contract Completion, the Contractor shall hand back to the Employer, at no cost, the full inventory of the spare parts handed to the Contractor in terms of 14.2

15. Warranty

Add to Clause 15.2:

- 15.2 The warranty for this Contract shall remain valid for six (6) months from date of Delivery of the Goods and/or Services.

16. Payment

- 16.1 Payment of invoices will be made on a monthly basis, in arrears and will be in accordance with the provisions of the Pricing Data in Part C2 of the Contract Document.
- 16.2 The Contractor shall by the 20th of each month, submit a monthly tax invoice in which is detailed:
- 16.2.1 the cost for Operational Control and Maintenance as per the Activity Schedule, comprising:
- 16.2.1.1 the Fixed costs being the monthly charge;
- 16.2.1.2 the Flow dependent and Sludge mass dependent costs;
- 16.2.1.3 the On-costs for maintenance; and
- 16.2.1.4 Contract Price Adjustment.
- 16.2.2 any incidental costs incurred by the Contractor for which the Project Manager has agreed to be responsible; and
- 16.2.3 any Associated Services, extra or additional work ordered or sanctioned by the Project Manager and completed to the satisfaction of the Project Manager.
- 16.2.4 any credits for scrap metal or scrap equipment.
- 16.3 Once the CCT or designated representative has approved the pro-forma invoice or part thereof the Contractor shall submit a tax invoice accordingly.
- 16.4 CCT shall ensure that payment of the tax invoice or part thereof as may be approved by the or representative is made to the Contractor between the 23rd and 26th of the month following the submission of the tax invoice.
- 16.5 If any Party shall dispute an amount owing to the other Party, such dispute shall be dealt with in terms of the provisions of clause 27
- 16.6 Notwithstanding any amount stated on the Purchase Order, the Supplier shall only be entitled to payment for Goods and/or Services actually delivered in terms of the Specification and Drawings, or any variations thereof made in accordance with clause 18. Any contingency sum included shall be for the sole use, and at the discretion, of the Purchaser.
- 16.6.1 The Supplier can only rely on advance payment being permitted by the Purchaser in respect of the plant and materials listed in the table above. The Purchaser may, however, permit advance payment for other plant and materials in exceptional circumstances and at its sole discretion, during the course of the Contract, and upon reasonable request from the Supplier.
- 16.6.2 Advance payment for the purposes of deposits will only be provided up to a limit of 90% (ninety percent) of the value of any one item being claimed.
- 16.6.3 The Supplier shall provide the Purchaser with documentary evidence of the terms and conditions for which a deposit with order is required by a third-party manufacturer/supplier, together with the advance payment guarantee.
- 16.6.4 The Supplier will also be permitted to obtain advance payment for the balance of the value of the plant and materials in respect of which he has paid a deposit, for an item which after manufacture is stored by the Supplier. The Supplier shall, in respect of such payment, provide an advance payment guarantee, either for such balance or, if the advance payment guarantee in respect of the deposit is to be returned by the Purchaser upon request, for the whole value of the item.
- 16.7 The Purchaser will only make advanced payments to the Supplier in strict compliance with the terms and

conditions as contained in the Pro forma Advanced Payment Guarantee and only once the authenticity of such guarantee has been verified by the Purchaser's Treasury Department.

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

TABLE BELOW NOT APPLICABLE

Plant and materials which have been manufactured and are stored by the supplier	Plant and materials yet to be manufactured and for which a deposit with order is required from the supplier by a third party manufacturer/supplier, and which may be stored by the supplier:
All plant and materials contained within Appendix B- Exclusions	All material and equipment contained in Appendix B - Exclusions

17. Prices

Add the following after clause 17.1

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

18. Contract Amendments

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

18. Contract Amendments and Variations

Add the following to clause 18.1:

- 18.1 Variations means changes to the Goods and/or Services, extension of the contract period or increases in the value of the Contract as a result of written instructions issued by the Purchaser to the Supplier. Such changes are subject to prior approval by the Purchaser's delegated authority. Should the Supplier deliver any Goods not described in a written instruction from the Purchaser, the Purchaser's liability for payment shall no arise until such time as the change has been duly approved and such approval communicated to the Purchaser.
- 18.2 CCT shall have the right to instruct the Contractor in respect of Associated Services, whereupon the Contractor shall forthwith comply with such instructions, in which case:
- 18.2.1 The Contractor shall submit to the Project Manager full and detailed particulars of any claim for additional payment to which the Contractor may consider itself entitled in respect of Associated Services rendered.
- 18.2.2 Every such intent to claim shall be submitted within 30 (thirty) days of circumstances giving rise to such claim. Full details of each claim shall be submitted 30 (thirty) days thereafter, or such longer time as may be reasonably agreed between the Parties dependent on the complexity of the claim.

The Project Manager shall determine ~~the amount~~ such reasonable amount as may be rightfully due, if any, to be paid in respect of such claim.

- 18.2.3 Failure to agree as to whether or not there is an Additional Service and any failure to agree as to the amount thereof shall be referred to an arbitrator for final determination in accordance with clause 27.
- 18.3 It is envisaged that the Works will be extended during the currency of this Agreement, including possible changes in the process of wastewater treatment and sludge handling, as well as possible amendments to the Associated Services, in which case:
 - 18.3.1 Any change in the wastewater treatment and/or Sludge handling process will of necessity change the operating process/es. Bearing in mind the effect that the changes may have on this Agreement, CCT shall be entitled to select options that would lead to the most advantageous overall process or system of its choice.
 - 18.3.2 In the event of an extension of the Works or a change in the process or changes to the Associated Services, the Contractor hereby agrees and undertakes to:
 - 18.3.2.1 liaise and co-operate with CCT and with any other contractor/s in programming and effecting the process changes with the concomitant changes or extension of the Works;
 - 18.3.2.2 negotiate with possible other contractors to establish the boundaries of activities and responsibility and the effect it will have on staffing, security, insurance, responsibility for damage and third-party claims and a possible sharing of facilities.
 - 18.3.2.3 negotiate adjustment in the remuneration with CCT based on calculation of the cost effect of changes in the processes envisaged in this clause 18.2. Failing agreement between the parties on changes in remuneration, the matter shall be adjudicated by arbitration as described hereinafter; and
 - 18.3.2.4 accepts that any alteration or extension of the Works or Associated Services may cause inconvenience and additional work to be performed and carried out by it, but that CCT will only be obliged to consider additional compensation if this leads to inescapable additional cost to the Contractor.
 - 18.3.2.5 make any process changes and/or flow diversions necessary to enable connecting up of new civil structures, etc.
 - 18.3.3 No addition to or variation, consensual cancellation or novation of this Agreement and no waiver of any right arising from this Agreement or its breach or termination shall be of any force or effect unless reduced to writing and signed by all the Parties or their duly authorised representatives.

19. Cession and Assignment

Add at the end of paragraph 19.1

“, which approval shall not be unreasonably withheld”

Add the following after 19.1

- 19.2 The person or entity that Controls the Contractor may not change Control without the prior written consent of CCT,
- 19.3 CCT may, on written notice to the Contractor, cede, assign, delegate, alienate, transfer, sub-contract or otherwise part with any of its rights and/or obligations in terms of this Agreement to any person or entity without the consent of the Contractor, provided that it shall provide the Contractor with reasonable guarantees in respect of payment of the Contractor's remuneration.

- 19.4 The Contractor may request CCT to cede payments from CCT to a nominated Financial Institution as may be required.

20. Subcontracts

Add the following after clause 20.1:

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

21. Delays in the supplier's performance

Delete Clause 21.2 and 21.3 in their entirety and replace with the following:

- 21.2 If at any time during the performance of obligations contained in the Contract the Supplier or its subcontractors should encounter conditions beyond their reasonable control which impede the timely delivery of the Goods and/or Services, the Supplier shall notify the Purchaser in writing, within 7 (seven) days of first having become aware of these conditions, of the facts of the delay, its cause(s) and its probable duration. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at his discretion extend the time for Delivery, with or without the imposition of penalties, in which case the extension shall be ratified by the Parties by amendment of the Contract.

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

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

- 21.3 No provision in this Contract shall be deemed to prohibit the obtaining of Goods and/or Services from a national department, provincial department, or a local authority during the events in 21.2.

22. Penalties

Delete clause 22.1 and replace with the following:

- 22.1 The Contractor shall at all times comply with the Performance Compliance Criteria set out in clause 5.2.2.2 except to the extent that compliance is prevented or excused by Uncontrollable Circumstances, agreement between the Parties or by the provisions of this contract.
- 22.2 Except to the extent that the Contractor is relieved of its service obligations, or part thereof in accordance with 22.1S, if the Supplier fails to deliver any or all of the Goods and/or Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from amounts payable, as a penalty, sums as stated Appendix C hereto.
- 22.3 The results set out in the reports required in terms of clause 5.2.3 - Reporting Requirements, shall be deemed conclusive evidence of any performance or non-performance or non-compliance.
- 22.4 CCT may, without prejudice to any other method of recovery, deduct the amount of such financial penalties as determined in accordance with Appendix C from any remuneration due to the Contractor or which may become due to the Contractor or recover it from the Performance Bond. The payment or deduction of such penalty shall not relieve the Contractor from its performance obligations.

23. Termination for default

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

23. Termination

Insert before 23.1

23.0 Events of Default

23.0.1 The Contract is concluded on the understanding that the treatment of wastewater is an essential service and interruption of the process or malfunctioning that interferes with the proper treatment process will have serious consequences of which Parties are aware. Therefore, in general, neither Party will be entitled to action that would interrupt or seriously affect the functioning of the Works to its best capacity. Towards this end proper, continuation of treatment within reason takes precedence over purely economic consequences.

23.0.2 Each of the following shall constitute an Event of Default by the Contractor after the Commencement Date:

23.0.2.1 failure of the Contractor to comply with any material obligation or provision of this Agreement and remain in default or fail to remedy such breach within 7 (seven) Business Days of receipt of written notice calling upon it to do so, or such longer period as may be reasonably required by an experienced, prudent Contractor to correct the default event. An action plan is to be provided within 7 days, indicating the plan and program to mitigate the event and restore the plant back to its normal operations;

23.0.2.2 to the extent that such failures or refusals are not otherwise covered in this clause 23.0.2, failure or refusal by Contractor to operate and maintain the Assets in accordance with the Performance Compliance Criteria and meet the quality of Final Effluent on a rolling 3 (three) month average basis, unless failure or refusal is clearly recognized, justified and excused in terms of this Agreement;

23.0.2.3 failure of the Contractor to pay any amount which it is obliged to pay to CCT in terms of this Agreement on the due date for payment and failure to make such payment within 7 (seven) Business Days of receipt of written notice from CCT calling upon the Contractor to make such payment;

23.0.2.4 any of the Performance warranties referred to in clause 35.6 that are found to be untrue or misleading as at the date on which such warranty is given or deemed to have been given to CCT and, in respect of a breach which is capable of being remedied, the Contractor's failure or refusal to remedy such breach of warranty within 7 (seven) Business Days, or such longer period as may be reasonably required, from receipt of written notice from CCT calling upon the Contractor to do so;

23.0.2.5 the Contractor takes steps to change Control of itself without the prior written consent of CCT, which approval shall not be unreasonably withheld;

23.0.2.6 this Agreement has ceased to be of full force and effect in any material respect or valid and binding on the Contractor or enforceable in accordance with its terms;

23.0.2.7 failure to secure and maintain the Performance Bond required in terms of Clause 7 of the SCC and Annexure C;

23.0.2.8 failure to secure and maintain the insurance required in terms of Clause 11;

then CCT shall be entitled to the remedies provided for in Clause 23.1.

23.0.4 Should any Event of Default occur then, notwithstanding anything to the contrary contained herein and without prejudice to CCT's other rights in terms of this Agreement or in law, CCT shall have the right to

23.0.4.1 terminate this Agreement; and

- 23.0.4.2 claim damages as provided for within the Contract (~~including consequential damages~~); and/or
- 23.0.4.3 demand specific performance by notice to the Contractor.
- 23.0.5 As long as the Contractor has any obligation to CCT and CCT has any rights against the Contractor in terms of this Agreement, the Contractor shall promptly give notice to CCT of:
- 23.0.5.1 the occurrence of any Event of Default of which it becomes aware; or
- 23.0.5.2 any other circumstances of which it becomes aware which could reasonably be anticipated to affect the fulfilment by it of its obligations under this Agreement.
- 23.0.6 CCT shall in turn promptly give notice to the Contractor when it becomes aware of any Event of Default.
- 23.0.7 No step taken by CCT against the Contractor shall give CCT the right to withhold remuneration for the operation of the Works for any period during which the Contractor had actually operated the Works materially in accordance with its obligations.
- 23.0.8 Should CCT have to take any legal action against the Contractor to enforce any of its obligations in terms of this Agreement, then the Party/Parties liability for payment of legal fees shall be determined by the courts. Contractor shall pay all legal costs, including collection commission and VAT, incurred by CCT on an attorney and own client scale irrespective of the Magistrate's Court or High Court tariff.
- 23.0.9 Notwithstanding the anything else contained in this Agreement, should the Contractor fail to perform its duties properly and such failure would result in the interruption of the treatment process or the Works, or unnecessary serious inadequacies therein and such failure is not due to Uncontrollable circumstance, then CCT shall have the right to summarily and immediately take control over the operation and maintenance of the Works on a temporary basis through alternative agents, whether CCT proceeds with the termination of the Agreement or not. This clause will only be invoked after the remedy period has elapsed.

Add the following to the end of clause 23.1

- (d) if the Supplier fails to remedy the breach in terms of such notice

Add the following after clause 23.7:

- 23.8 In addition to the grounds for termination due to default by the Supplier, the Contract may also be terminated:
- 23.8.1 Upon the death of the Supplier who was a Sole Proprietor, or a sole member of a Close Corporation, in which case the contract will terminate forthwith.
- 23.8.2 If the Parties, by mutual agreement, terminate the Contract.
- 23.8.3 If a material irregularity vitiates the procurement process leading to the conclusion of the Contract, rendering the procurement process and the conclusion of the resulting Contract unfair, inequitable, non-transparent, uncompetitive or not cost-effective the Contract may be terminated by the Purchaser (upon conclusion of applicable processes by CCT Manager as described in the Purchaser's SCM Policy).
- 23.8.4 Reputational risk or harm to the Purchaser
- The Purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, may terminate the contract if the implementation of the contract may result in reputational risk or harm to the Purchaser as a result of (inter alia):
- a) reports of poor governance and/or unethical behaviour;

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

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

- 23.9 If the Contract is terminated in terms of clause 23.8, all obligations that were due and enforceable prior to the date of the termination, must be performed by the relevant Party.
- 23.10 CCT, in its sole and absolute discretion, shall be entitled to terminate this Agreement upon the happening of any of the following events:
- 23.10.1 if the Contractor fails to rectify an Event of Default as provided for in terms of clause 26;
- 23.10.2 If the Contractor becomes subject to a scheme of arrangement or compromise with its creditors as envisaged in the Companies Act;
- 23.10.3 If the Contractor is being wound-up, liquidated, sequestrated, deregistered or placed under judicial management, whether provisionally or finally and whether voluntarily or compulsorily;
- 23.10.4 if the Contractor commits an act of insolvency in terms of the Insolvency Act, No. 24 of 1936;
- 23.10.5 if the Contractor fails to satisfy within ten (10) days any judgment of a competent court of law for the payment of any money of which execution has not been stayed;
- 23.10.6 if an Uncontrollable Circumstance occurs relative to the obligations of the Contractor or CCT under this Agreement and such Uncontrollable circumstance or the effect thereof prevents performance of such material obligation for a period of 30 (thirty) days.
- 23.11 CCT shall give the Contractor not less than 30 (thirty) Business Days written notice of any termination made in terms of 28.1.
- 23.12 Upon termination of this Agreement, subject to the provisions of clause 7.7, CCT shall remunerate the Contractor for the Contract Services satisfactorily performed prior to the termination date and reimburse the Contractor any reasonable cost incident to the prompt and orderly termination of the Agreement, including such costs as may reasonably be incurred or committed by the Contractor in anticipation of fulfilling its contractual obligations up to the date of termination, except in the case of a termination pursuant to an Event of Default by the Contractor in accordance with the provisions variation.
- 23.13 The Contractor, in its sole and absolute discretion, shall be entitled to terminate this Agreement upon the happening of any of the following events:
- 23.13.1 if CCT fails to rectify an event of default as provided for in terms of Clause 26 as amended
- 23.13.2 if CCT has a receiver, receiver and manager, or administrative receiver appointed over the whole or substantial part of its undertakings, whereby CCT is no longer able to satisfy its obligations in terms of this contract.
- 23.13.3 if CCT has not paid any amount due to the Contractor within 30 days of the due date of payment for such amounts, and where CCT and the Contractor are unable to agree on the manner and time in which outstanding amounts shall be paid
- 23.13.4 if an Uncontrollable circumstance occurs relative to the obligations of CCT or the Contractor under this Agreement and such Uncontrollable circumstance or the effect thereof prevents performance of such material obligation for a period of 30 (thirty) days.

- 23.14 The Contractor shall give CCT not less than 30 (thirty) business days written notice of any termination made in terms of 23.13.
- 23.15 On Termination
- 23.15.1 The Contractor agrees on termination of this Agreement:
- 23.15.1.1 to deliver the Assets to CCT in good, sound operating condition, fair wear and tear accepted; and
- 23.15.1.2 not to remove from the Site any item of whatsoever nature brought onto the Site to operate the Assets or any part thereof, save and except such items as the Contractor may have brought onto the Site which are not essential to the operation of the Assets, including its own assets that have not been paid for by CCT. All other items are conclusively deemed to have become part of the Assets and the property of CCT. The Contractor shall advise the Project Manager in writing prior to termination of this agreement of such items as are brought onto the Site which the Contractor is entitled to remove on termination of this Agreement and unless the Project Manager shall have been so advised, the Contractor shall not be entitled to remove any such item; and
- 23.15.1.3 to sell to CCT any chemical stocks and consumables not paid for by CCT; and
- 23.15.1.4 to vacate the Site.
- 23.15.2 CCT and/or its Agent and the Contractor shall, on the termination of this Agreement for whatever reason, jointly inspect the condition of the Assets, including any damage thereto, at 12h00 on the day that the Contractor shall vacate the Site and/or any other date as agreed upon and in writing between CCT and the Contractor.
- 23.15.3 The Contractor shall be responsible to CCT for payment of the cost of repair or replacement or any part of the Assets that is not in a good working condition or is damaged at the date of the inspection referred to in clause 23.15.2, provided the cost is fair and reasonable and that such damage is attributable to the Contractor.
- 23.15.4 CCT may apply any portion of the Performance Bond towards the payment of the costs of such repair or replacement of the Assets (or part thereof).
- 23.15.5 The Contractor also consents to any new contractor/s of the Contract Services (if any) being present at such outgoing inspection with CCT and/or its Agent.
- 23.15.6 CCT shall make payment to the Contractor of all amounts due to the Contractor in accordance with the Agreement.

26. Termination for insolvency

Delete clause 26.1 and replace with the following:

- 26.1 In the event of the Supplier becoming bankrupt or otherwise insolvent the Purchaser may elect to:
- 26.1.1 At any time, terminate the Contract by giving written notice to the Supplier; or
- 26.1.2 Accept a Supplier's proposal (via the liquidator) to render delivery utilising the appropriate contractual mechanisms or takes steps to ensure its rights are protected and any negative impact on service delivery is mitigated.
- 26.2 In the event of the Purchaser electing to cancel the Contract in accordance with clause 26.1.1 above, the Purchaser shall make payment of all verified and signed off invoices. In the event of there being any dispute in respect of any outstanding invoices such dispute shall be dealt with in accordance with the dispute resolution mechanism in the Contract.

27. Settlement of Disputes

Amend clause 27.1 as follows:

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

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

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

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

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

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

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

28. Limitation of Liability

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

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

Add the following after clause 28.1:

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

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

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

- 28.3 The Supplier and/or its employees, agents, concessionaires, suppliers, sub-contractors or customers shall not have any claim of any nature against the purchaser for any loss, damage, injury or death which any of them may directly or indirectly suffer, whether or not such loss, damages, injury or death is caused through negligence of the Purchaser or its agents or employees.
- 28.4 Notwithstanding anything to the contrary contained in this Contract, under no circumstances whatsoever, including as a result of its negligent (including grossly negligent) acts or omissions or those of its servants, agents or contractors or other persons for whom in law it may be liable, shall any party or its servants (in whose favour this constitutes a *stipulatio alteri*) be liable for any indirect, extrinsic, special, penal, punitive, exemplary or consequential loss or damage of any kind whatsoever, whether or not the loss was actually foreseen or reasonably foreseeable), sustained by the other party, its directors and/or servants, including but not limited to any loss of profits, loss of operation time, corruption or loss of information and/or loss of contracts.
- 28.5 Each party agrees to waive all claims against the other insofar as the aggregate of compensation which might otherwise be payable exceeds the aforesaid maximum amounts payable.

Replace Clause 30.1 with the following:

- 30.1 This Agreement and all matters or disputes arising therefrom or incidental thereto shall be governed and construed in accordance with the Laws of the Republic of South Africa.

Insert after 30.1

30.2 Compliance with applicable Law

- 30.2.1 The Contractor shall perform the Contract Services in accordance with the applicable Law, and shall require all employees, agents, subcontractors and the like to comply with the applicable Law.
- 30.2.2 The Contractor shall perform and provide all sampling, laboratory testing and analyses, and quality assurance and quality control procedures and programs required by CCT from time to time and in accordance with the provisions of this Agreement.
- 30.2.3 All raw Influent and Final Effluent and dewatered samples shall be analysed at the Laboratory and to the extent that other testing laboratories are used, those laboratories shall follow acceptable laboratory procedures, provided that it shall comply with the minimum requirements of the South African National Accreditation System (SANAS). CCT may request copies of analyses performed by other laboratories on influent, in-process and effluent streams.
- 30.2.4 In connection with any actual or alleged event of non-compliance with any applicable Law, the Contractor shall, in addition to any other duties which the applicable Law may impose:
- 30.2.4.1 fully and promptly respond to all inquiries, investigations, inspections, and examinations undertaken by any relevant authority;
- 30.2.4.2 attend meetings and hearings required by the relevant authority;
- 30.2.4.3 provide corrective action plans, reports, submittals and documentation required by the relevant authority;
- 30.2.4.4 in conjunction with CCT, communicate in a timely and effective manner with the general public as to the nature of the event, the impact on the public, and the nature and timetable for the planned remediation measures;
- 30.2.4.5 immediately on receipt thereof, provide CCT with a true, correct and complete copy of any written notice of violation or non-compliance with the applicable Law; and
- 30.2.4.6 assist CCT in the defence of any legal proceedings arising from any non-compliance event.

- 30.2.5 In the event that the Contractor, or its employees, agents or subcontractors fail to comply with any applicable Law, the Contractor shall, without limiting any other remedy available to CCT upon such occurrence and notwithstanding any other provision of this Agreement:
- 30.2.5.1 immediately correct such failure and resume compliance with the applicable Law;
 - 30.2.5.2 indemnify and hold harmless CCT from any levies, impositions, penalties, or other charges;
 - 30.2.5.3 make all changes in the Operational Control and Maintenance which are necessary to assure that the failure of compliance with the applicable Law will not reoccur; and
 - 30.2.5.4 comply with any corrective action plan filed with or mandated by the relevant authority in order to remedy a failure of the Contractor to comply with the applicable Law.
- 30.2.6 The Contractor shall keep the Assets neat, clean and litter-free and ensure that the operation of the Assets does not create any odour, litter, noise, fugitive dust, vector, excessive light or other adverse environmental effects constituting a nuisance under any applicable Law, insofar as the plant, as designed is capable of performing.

31. Notices

- 31.1 Each Party chooses as its *domicilium citandi et executandi* their respective addresses set out in this clause 31 for all purposes arising out of or in connection with this Agreement at which addresses all the processes and notices arising out of or in connection with this Agreement, its breach or termination may validly be served upon or delivered to the Parties.
- 31.2 For the purpose of this Agreement the Parties' respective addresses shall be -
- 31.2.1 as regards CCT the address specified in the Acceptance part of the Form of Offer and Acceptance in Part C1.4 of the Contract Document; and
 - 31.2.2 as regards the Contractor the address specified in the Offer part of the Form of Offer and Acceptance in Part C1.4 of the Contract Document,
- or at such other address in the Republic of South Africa, not being a post office box or poste restante, or facsimile number, of which the Party concerned may notify the others in writing.
- 31.3 Any notice given in terms of this Agreement shall be in writing and shall –
- 31.3.1 if delivered by hand, be deemed to have been duly received by the addressee 1 (one) Working Day following the date of delivery;
 - 31.3.2 if delivered by courier service, be deemed to have been duly received by the addressee 1 (one) Working Day following the date of such delivery by the courier service concerned;
 - 31.3.3 if sent by registered mail, 5 (five) Working Days after mailing, and
 - 31.3.4 if transmitted by email or facsimile, be deemed to have been duly received by the addressee 1 (one) Working Day following the date of dispatch.
- 31.4 Notwithstanding anything to the contrary contained in this Agreement, a written notice or communication actually received by one of the Parties from another shall be adequate written notice or communication to such Party, provided that any provision that requires any notice to be in writing shall be complied with only if such notice in a written paper based form and, in this regard, the provisions of the Electronic Communications Act, No. 25 of 2002, shall not apply.

32. Taxes and Duties

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

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

Add the following after clause 32.3:

32.4 The VAT registration number of the CCT is 4500193497.

ADDITIONAL CONDITIONS OF CONTRACT

Add the following Clause after Clause 34:

35. Reporting Obligations

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

35.2 Co-operation

The Parties undertake at all times to do all such things as may be open to them and necessary for or incidental to the putting into effect or maintenance of the terms, conditions and/or import of this Agreement, save where any particular provision contained in this Agreement imposes upon any one or other Party the obligation (to the exclusion of the other Party) to do any act, matter or thing, in which event it shall not be the obligation of all the Parties (by the inclusion of this clause in this Agreement) to procure the doing of such act, matter or thing, but it shall only be the obligation of the Party who is specifically directed thereto.

35.3 Whole Agreement

This Agreement constitutes the whole agreement between the Parties as to the subject matter hereof and no agreement, representations or warranties between the Parties other than those set out herein are binding on the Parties. This Agreement supersedes and replaces all prior commitments, undertakings or representations, whether oral or written, between the Parties in respect of the subject matter hereof.

35.4 Severability

Any provision in this Agreement, which is or may become illegal, invalid or unenforceable shall be treated pro non scripto and severed from the balance of the Agreement without invalidating the remaining provisions of this Agreement or affecting the validity or enforceability of such remaining provisions.

35.5 Costs

Any costs, including attorney and own client costs, incurred by a Party arising out of the breach by any other Party of any of the provisions of this Agreement, shall be borne and paid for by the Party in breach.

35.6 Performance warranties

The Contractor represents and warrants to CCT that:

- 35.6.1 the execution of this Agreement and any other documents related hereto to which the Contractor is a party and the fulfilment by the Contractor of the terms and conditions hereof do not and will not conflict or violate any of the Contractor's formation documents or, to the Contractor's knowledge any Laws, which would materially adversely affect this Agreement;

- 35.6.2 there is no action, suit, claim, investigation or proceeding, at law or otherwise, before any court, pending or, to the best of the Contractor's knowledge, threatened against the Contractor, in which an unfavorable decision, ruling or finding could reasonably be expected to have a material adverse effect on the execution and delivery of this Agreement by the Contractor;
- 35.6.3 it is financially solvent;
- 35.6.4 no Event of Default has occurred or is continuing;
- 35.6.5 it and each of its employees, agents, subcontractors and contractors are competent to perform the Contract Services;
- 35.6.6 it has examined and analyzed the provisions and requirements of this Agreement, understands the nature of the Contract Services required, has satisfied itself as to the nature of all things needed for its performance in terms of this Agreement and that this Agreement is feasible of performance in accordance with all of its provisions and requirements;
- 35.6.7 it has, or will have as of the Commencement Date, adequate capacity, technical knowledge and qualified employees to fulfil all of its obligations in terms of this Agreement;
- 35.6.8 it is, or will be at the Commencement Date, in compliance with any applicable Laws relating to rendering the Contract Services and performing any obligations in terms of this Agreement;
- 35.6.9 it shall conduct its business activities in accordance with the principles and guidance as set out in the King III Code on Corporate Governance;
- 35.6.10 its business is duly registered in terms of the provisions of the relevant legislation;
- 35.6.11 the representations made by it in the Contractor's Proposal and all other information and documentation submitted to CCT by the Contractor were true, accurate and correct as of the date they were made. The representations made by the Contractor did not contain any material misrepresentation or omissions of any material facts as of the date that they were made.
- 35.6.12 it has the necessary experience in operating facilities similar to the Works; and
- 35.6.13 It has budgeted and planned for providing experienced personnel that will be available at the Site to ensure transfer of experience and operations expertise between the Contractor and its affiliates.

35.7 Warranty of Authority

Each Party warrants to each of the other Parties that it has the power, authority and legal right to sign and perform this Agreement and that this Agreement has been duly authorised by all necessary actions of its directors and constitutes valid and binding obligations on it in accordance with the terms of this Agreement.

35.8 Independent Advice

Each Party acknowledges that it has been free to secure independent legal and tax advice as to the nature and effect of all of the provisions of this Agreement and that it has either taken such independent legal advice or dispensed with the necessity of doing so. Further, each Party acknowledges that all of the provisions of this Agreement and the restrictions herein contained are fair and reasonable in all the circumstances and are part of the overall intention of the Parties.

35.9 Implementation

The Parties undertake to do all such things, perform all such acts and take all steps to procure the doing of all such things and the performance of all such acts, as may be necessary or incidental to give or be conducive to the giving of effect to the terms, conditions and import of this Agreement.

35.10 Scope of Work

- 35.10.1 Insofar as any of the provisions of this Agreement are inconsistent with the Scope of Work then, as between the Parties, the provisions of this Agreement shall prevail and the Scope of Work shall be deemed to have been modified pro tanto.
- 35.10.2 At the instance of any of any Party, the Parties shall procure the signature of any addendum that may be required for the purposes of amending the Scope of Work and/or this Agreement, as the case may be, so as to remove such conflict and conform with the provisions of this Agreement.

35.11 Uncontrollable Circumstance

- 35.11.1 Should it be impossible for the Contractor to perform its duties or part of its duties in terms of the Agreement due to force majeure or circumstances over which it has no control or which it could not and did not foresee, then its action or inaction will not be considered as conduct in breach of Agreement, provided that:
- 35.11.1.1 the Contractor takes all steps available to him to bring such condition to an expeditious end;
- 35.11.1.2 the Contractor continues to take all possible steps to optimize the treatment of the Influent by change of process or emergency ancillary treatment; and
- 35.11.1.3 the Contractor reports the existence or likelihood of occurrence of the conditions to CCT and to the Department of Water and sanitation, and to cooperate with them to limit harm and damages.
- 35.11.2 The cost of any action in terms of the above will be for the Contractor's account, except in as far as it relates to CCT's acceptance of risk described in clause 24.
- 35.11.3 In the event that the Contractor incurs additional costs in remedying the Uncontrollable Circumstances, the Contractor shall receive fair and equitable remuneration from CCT for any costs not recovered through the provisions of clause 24.

35.12 Relaxation

No latitude, extension of time or other indulgence which may be given or allowed by any Party to any of the other Parties in respect of the performance of any obligation hereunder or enforcement of any right arising from this Agreement and no single or partial exercise of any right by any Party shall under any circumstances be construed to be an implied consent by such Party or operate as a waiver or a novation of, or otherwise affect any of that Party's rights in terms of or arising from this Agreement or estop such Party from enforcing, at any time and without notice, strict and punctual compliance with each and every provision or term hereof.

35.13 Counterparts

This Agreement may be executed in counterparts and by each Party in a separate counterpart, each of which so executed shall be an original, but all of which shall together constitute one and the same instrument.

35.14 Tax Invoices (GCC Clause 32)

Section 20(1) of the Value Added Tax Act of 1991 (Act 89 of 1991) requires that a supplier (person supplying goods or services) who is registered as a VAT vendor issue to the recipient a tax invoice within 21 days of the date of a supply whether requested or not.

The Contractor shall provide a tax invoice (VAT invoice) which shall be included with each account delivered to the Employer in terms of clause 5.1.12. Failure by the Contractor to provide a tax invoice (VAT invoice) timeously may delay payment by the Employer and no interest shall accrue.

The VAT registration number of CCT is 4500193497

C.7 GENERAL CONDITIONS OF CONTRACT

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

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1. Definitions

1. The following terms shall be interpreted as indicated:
 - 1.1 'Closing time' means the date and hour specified in the bidding documents for the receipt of bids.
 - 1.2 'Contract' means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the Parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - 1.3 'Contract price' means the price payable to the supplier under the contract for the full and proper performance of his or her contractual obligations.
 - 1.4 'Corrupt practice' means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
 - 1.5 'Countervailing duties' are imposed in cases in which an enterprise abroad is subsidised by its government and encouraged to market its products internationally.

- 1.6 'Country of origin' means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognised new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 1.7 'Day' means calendar day.
- 1.8 'Delivery' means delivery in compliance with the conditions of the contract or order.
- 1.9 'Delivery ex stock' means immediate delivery directly from stock actually on hand.
- 1.10 'Delivery into consignee's store or to his site' means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
- 1.11 'Dumping' occurs when a private enterprise abroad markets its goods on its own initiative in the RSA at lower prices than that of the country of origin, and which action has the potential to harm the local industries in the RSA.
- 1.12 'Force majeure' means an event beyond the control of the supplier, not involving the supplier's fault or negligence, and not foreseeable. Such events may include, but are not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 'Fraudulent practice' means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 'GCC' means the General Conditions of Contract.
- 1.15 'Goods' means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 'Imported content' means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 'Local content' means that portion of the bidding price which is not included in the imported content, provided that local manufacture does take place.
- 1.18 'Manufacture' means the production of products in a factory using labour, materials, components and machinery, and includes other, related value-adding activities.
- 1.19 'Order' means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 'Project site', where applicable, means the place indicated in bidding documents.
- 1.21 'Purchaser' means the organisation purchasing the goods.
- 1.22 'Republic' means the Republic of South Africa.
- 1.23 'SCC' means the Special Conditions of Contract.

1.24 'Services' means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance, and other such obligations of the supplier covered under the contract.

1.25 'Written' or 'in writing' means handwritten in ink or any form of electronic or mechanical writing.

2. Application

2.1 These general conditions are applicable to all bids, contracts and orders, including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.

2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.

2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

3. General

3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable, a non-refundable fee for documents may be charged.

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

4. Standards

4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

5. Use of contract documents and information; inspection.

5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for the purposes of such performance.

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

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

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

6. Patent rights

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

7. Performance Security

- 7.1 Within 30 (thirty) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in the SCC.
- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 1.3 The performance security shall be denominated in the currency of the contract or in a freely convertible currency acceptable to the purchaser, and shall be in one of the following forms:
 - a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
 - b) A cashier's or certified cheque.
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than 30 (thirty) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in the SCC.

8. Inspections, tests and analyses

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organisation acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention of such is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier, who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal, the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.
- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of the GCC.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be

sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in the SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

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

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

11. Insurance

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

12. Transportation

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

13. Incidental Services

- 13.1 The supplier may be required to provide any or all of the following services, including additional services (if any) specified in the SCC:
- (a) performance or supervision of on-site assembly, and/or commissioning of the supplied goods;
 - (b) furnishing of tools required for the assembly and/or maintenance of the supplied goods;
 - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
 - (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the Parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
 - (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.
- 13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the Parties and shall not exceed the prevailing rates charged to other Parties by the supplier for similar services.

14. Spare parts

- 14.1 As specified in the SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:
- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
 - (b) in the event of termination of production of the spare parts:
 - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

- 15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications), or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.
- 15.2 This warranty shall remain valid for 12 (twelve) months after the goods, or any portion thereof, as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for 18 (eighteen) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in the SCC.
- 15.3 The purchaser shall notify the supplier promptly, in writing, of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the supplier shall, within the period specified in the SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.
- 15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in the SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

16. Payment

- 16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in the SCC.
- 16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of any other obligations stipulated in the contract.
- 16.3 Payments shall be made promptly by the purchaser, but in no case later than 30 (thirty) days after submission of an invoice or claim by the supplier.
- 16.4 Payment will be made in Rand unless otherwise stipulated in the SCC.

17. Prices

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

18. Contract Amendments

- 18.1 No addition to or variation, consensual cancellation or novation of this Agreement and no waiver of any right arising from this Agreement or its breach or termination shall be of any force or effect unless reduced to writing and signed by all the Parties or their duly authorised representatives.

19. Assignment

- 19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

20. Subcontracts

- 20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

- 21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.
- 21.2 If at any time during the performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his or her discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the Parties by amendment of contract.
- 21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.
- 21.4 The right is reserved to procure, outside of the contract, small quantities of supplies; or to have minor essential services executed if an emergency arises, or the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.
- 21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.
- 21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and, without prejudice to his other rights, be entitled to claim damages from the supplier.

22. Penalties

- 22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services, using the current prime interest rate, calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

23. Termination for default

- 23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:
- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
 - (b) if the supplier fails to perform any other obligation(s) under the contract; or
 - (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.
- 23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.

- 23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than 14 (fourteen) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated 14 (fourteen) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.
- 23.5 Any restriction imposed on any person by the Accounting Officer/Authority will, at the discretion of the Accounting Officer/Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person is or was, in the opinion of the Accounting Officer/Authority, actively associated.
- 23.6 If a restriction is imposed, the purchaser must, within 5 (five) working days of such imposition, furnish the National Treasury with the following information:
- (i) the name and address of the supplier and/or person restricted by the purchaser;
 - (ii) the date of commencement of the restriction;
 - (iii) the period of restriction; and
 - (iv) the reasons for the restriction.

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

- 23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, Act 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period of not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction, and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

24. Anti-dumping and countervailing duties and rights

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

25. Force majeure

- 25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if, and to the extent that, his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.
- 25.2 If a force majeure situation arises, the supplier shall notify the purchaser promptly, in writing, of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for insolvency

- 26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without

compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

- 27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the Parties shall make every effort to resolve such dispute or difference amicably, by mutual consultation.
- 27.2 If, after 30 (thirty) days, the Parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.
- 27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.
- 27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.
- 27.5 Notwithstanding any reference to mediation and/or court proceedings herein,
- (a) the Parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
 - (b) the purchaser shall pay the supplier any monies due to the supplier.

28. Limitation of Liability

- 28.1 Except in cases of criminal negligence or wilful misconduct, and in the case of infringement pursuant to Clause 6:
- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and
 - (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

29. Governing language

- 29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the Parties shall also be written in English.

30. Applicable Law

- 30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in the SCC.

31. Notices

- 31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail, and any other notice to him shall be posted by ordinary mail, to the address furnished in his bid or to the address notified later by him in writing; and such posting shall be deemed to be proper service of such notice.
- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

32. Taxes and Duties

- 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, licence fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, licence fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

33. National Industrial Participation (NIP) Programme

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

34 Prohibition of Restrictive practices

- 34.1 In terms of section 4 (1) (b) (iii) of the Competition Act, Act 89 of 1998, as amended, an agreement between or concerted practice by firms, or a decision by an association of firms, is prohibited if it is between Parties in a horizontal relationship and if a bidder(s) is/are or a contractor(s) was/were involved in collusive bidding (or bid rigging).
- 34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has/have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act, Act 89 of 1998.
- 34.3 If a bidder(s) or contractor(s) has/have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and/or terminate the contract in whole or part, and/or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding 10 (ten) years and/or claim damages from the bidder(s) or contractor(s) concerned.

C.8 ANNEXURES
NOT APPLICABLE

Annexure A – Pro Forma Insurance Broker's Warranty



Letterhead of supplier's Insurance Broker

Date _____

CCT
City Manager
Civic Centre
12 Hertzog Boulevard
Cape Town
8000

Dear Sir

TENDER NO.: 088S/2026/27

**TENDER DESCRIPTION: PROVISION OF OPERATION, MAINTENANCE AND MANAGEMENT SERVICES
FOR THE ZANDVLIET WASTEWATER TREATMENT WORKS, BLACK MAC
SCREENING STATION AND ASSOCIATED SERVICES**

NAME OF SUPPLIER: _____

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

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

Yours faithfully

Signed: _____

For: _____ (Supplier's Insurance Broker)

Annexure B – Monthly Project Labour Report

ANNEX 1

CITY OF CAPE TOWN MONTHLY PROJECT LABOUR REPORT



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

Instructions for completing and submitting forms

General

- 1 The Monthly Project Labour Reports must be completed in full, using typed, proper case characters; alternatively, should a computer not be available, handwritten in black ink.
- 2 Incomplete / incorrect / illegible forms will not be accepted.
- 3 Any conditions relating to targeted labour stipulated in the Contract (in the case of contracted out services or works) shall apply to the completion and submission of these forms.
- 4 This document is available in Microsoft Excel format upon request from the City's EPWP office, tel 021 400 9406, email EPWPLR@capetown.gov.za.

Project Details

- 5 If a field is not applicable insert the letters: NA
- 6 Only the Project Number supplied by the Corporate EPWP Office must be inserted.
The Project Number can be obtained from the Coordinator or Project Manager or from the e-mail address in point 4 above.
- 7 On completion of the contract or works project the anticipated end date must be updated to reflect the actual end date.

Beneficiary Details and Work Information

- 8 Care must be taken to ensure that beneficiary details correspond accurately with the beneficiary's ID document.

- 9 A new beneficiary is one in respect of which a new employment contract is signed in the current month. A certified ID copy must accompany this labour report on submission.
- 10 Was the beneficiary sourced from the City's job seeker database?
- 11 The contract end date as stated in the beneficiary's employment contract.
- 12 Where a beneficiary has not worked in a particular month, the beneficiary's name shall not be reflected on this form at all for the month in question.
- 13 Training will be recorded separately from normal working days and together shall not exceed the maximum of 23 days per month
- 14 Workers earning more than the maximum daily rate (currently R450 excluding any benefits) shall not be reflected on this form at all.

Submission of Forms

- 15 Signed hardcopy forms must be scanned and submitted to the City's project manager in electronic (.pdf) format, together with the completed form in Microsoft Excel format.
- 16 Scanned copies of all applicable supporting documentation must be submitted along with each monthly project labour report. Copies of employment contracts and ID documents are only required in respect of new beneficiaries.
- 17 If a computer is not available hardcopy forms and supporting documentation will be accepted.

PROJECT DETAILS

Numbers in cells below e.g (6) refer to the relevant instruction above for completing and submitting forms

CONTRACT OR WORKS PROJECT NAME: (6)		EPWP SUPPLIED PROJECT NUMBER: (6)	
DIRECTORATE:		DEPARTMENT:	
CONTRACTOR OR VENDOR NAME:		CONTRACTOR OR VENDOR E-MAIL ADDRESS:	
CONTRACTOR OR VENDOR CONTACT PERSON:		CONTRACTOR OR VENDOR TEL. NUMBER:	CELL WORK
PROJECT LABOUR REPORT CURRENT MONTH (mark with "X")			
JAN	FEB	MAR	APR
MAY	JUN	JUL	AUG
SEP	OCT	NOV	DEC
YEAR			
ACTUAL START DATE (yyyy/mm/dd)		ANTICIPATED / ACTUAL END DATE (yyyy/mm/dd) (7)	
TOTAL PROJECT EXPENDITURE / VALUE OF WORK DONE TO-DATE (INCLUDING ALL COSTS, BUT EXCLUDING VAT)			
R			

MONTHLY PROJECT LABOUR REPORT



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

BENEFICIARY DETAILS AND WORK INFORMATION

CONTRACT OR WORKS PROJECT NUMBER:				Year Month		Sheet 1 of 		
--	--	--	--	----------------------	--	-----------------------------	--	--

No.	(8) First name	(8) Surname	(8) ID number	(9) New Beneficiary (Y/N)	Gender (M/F)	Disabled (Y/N)	(10) Job seeker database (Y/N)	Contract start date (DDMMYY)	Contract end date (DDMMYY)	(12) No. days worked this month (excl. training)	(13) Training days	(14) Rate of pay per day (R – c)
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

0 0 R -

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

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

Annexure C - Pro Forma Performance Security/ Guarantee

GUARANTEE PERFORMANCE SECURITY

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means:

Physical address of Guarantor:

"Supplier" means:

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

Amount in words:

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

Amount in words:

"Contract" means: The agreement made in terms of the Form of Offer and Acceptance for tender no 088S/2026/27 and such amendments or additions to the contract as may be agreed in writing between the Parties.

PERFORMANCE GUARANTEE

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

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

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)

1.1 National Banks

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

1.2 International Banks (with branches in South Africa)

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

1.3 Insurance Companies

American International Group Inc (AIG)
Bryte Insurance Company Limited
Coface SA
Compass Insurance Company Limited
Credit Guarantee Insurance Corporation of Africa Limited
Guardrisk Insurance Company Limited
Hollard Insurance Company Limited
Infiniti Insurance Limited
Lombard Insurance Company Limited
Old Mutual Alternative Risk Transfer Insure Limited (OMART Insure)
New National Assurance Company Limited
PSG Konsult Ltd (previously Absa Insurance)
Regent Insurance Company Limited
Renasa Insurance Company Limited
Santam Limited

Annexure D - Pro Forma Advance Payment Guarantee

NOT APPLICABLE

ADVANCE PAYMENT GUARANTEE

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means:

Physical address of guarantor:

"Supplier" means:

"Contract Sum" means: The accepted tender amount for 1 (one) year (INCLUSIVE of VAT) of R

Amount in words:

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

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

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

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

Amount in words:

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

written demand from the CCT to the Guarantor at the Guarantor's physical address calling up this Advance Payment Guarantee, such demand stating that:

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

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)

Approved Financial Institution as at 13 August 2025

1.4 National Banks

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

1.5 International Banks (with branches in South Africa)

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

1.6 Insurance Companies

American International Group Inc (AIG)
Bryte Insurance Company Limited
Coface SA
Compass Insurance Company Limited
Credit Guarantee Insurance Corporation of Africa Limited
Guardrisk Insurance Company Limited
Hollard Insurance Company Limited
Infiniti Insurance Limited
Lombard Insurance Company Limited
Old Mutual Alternative Risk Transfer Insure Limited (OMART Insure)
New National Assurance Company Limited
PSG Konsult Ltd (previously Absa Insurance)
Regent Insurance Company Limited
Renasia Insurance Company Limited
Santam Limited

Annexure E – Pro Forma Tender Security

Guarantee No.: _____ [insert guarantee reference number]

The Guarantor: _____
[insert name and address of place of issue, unless indicated in the letterhead]

Name of Contract/Contract No.: _____ [insert reference number or other information identifying the contract with regard to which the tender is submitted]

The Beneficiary (the "Employer"): _____ [insert name and address of the Beneficiary]

We have been informed that _____ [insert name and address of the Tenderer] (hereinafter called the "Applicant") is submitting an tender for such Contract and that the conditions of your invitation (the "Conditions of Invitation", which are set out in a document entitled Instructions to Tenderers) require his/her offer to be supported by a Tender Security.

At the request of the Applicant, we _____ [insert name of Guarantor] hereby irrevocably undertake to pay you, the Beneficiary/Employer, any sum or sums not exceeding in total the amount of _____ [insert in figures and words the maximum amount payable and the currency in which it is payable] upon receipt by us of your demand in writing and your written statement (in the demand) that:

- (a) the Applicant has, without your agreement, withdrawn its offer after the latest time specified for its submission and before the expiry of its period of validity, or
- (b) the Applicant has refused to accept the correction of errors in its offer in accordance with such Conditions of Tender, or
- (c) you awarded the Contract to the Applicant and it has failed to commence with the contract within 7 (seven) days of the Contract Commencement Date
- (d) you awarded the Contract to the Applicant and it has failed to timeously provide the specified Performance Security/ Guarantee.

Any demand for payment must contain your signature(s) which must be authenticated by your bankers or by a notary public. The authenticated demand and statement must be received by us at the following office [insert address of office] on or before _____ [insert the date 35 days after the expiry of the validity of the Letter of Tender], when this guarantee shall expire.

The party liable for the payment of any charges: _____ [insert the name of the party].

Where this Security Guarantee/Performance Security is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)

Annexure F - Tender Returnable Documents

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

1. TENDER CONDITIONS

- 1.1 The Contract Price Adjustment (CPA) mechanism and/or provisions relating to Rate of Exchange (RoE) Variation, contained in this schedule is compulsory and binding on all Tenderers/Suppliers and this schedule (the parts relevant to the particular tender must be completed by all Tenderers / Suppliers.
- 1.2 Tenderers/Suppliers are not permitted to amend, vary, alter or delete this schedule or any part thereof unless otherwise stated in this schedule.
- 1.3 Tenderers to take note that there is **NO** CPA provisions allowed for On-cost for Associated Services provided by the Contractor on CCT's instruction, as described more fully in schedule C4.2.2.7
- 1.4 Tenderers to take note that the CPA Adjustment for labour is annually and linked to City of Cape Town adjustments with City's providing official increase letter as supporting evidence
- 1.5 Tenderers are not permitted to offer fixed and firm prices except as provided for in the Price Schedule.
- 1.6 The "BASE DATE" for contract price adjustment is one month (thirty days) prior to the tender close date.

2. CPA PROVISIONS SELECTION

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

	<u>Indicate option</u> ↓	<u>CPA Type</u>	<u>Period</u>	<u>Refer to Section</u>
A	☒ N/A	FIRM PRICES as per Pricing Schedule	Annual	<i>Pricing Schedule C.4 and Schedule F.1 (A)</i>
<u>LOCAL (RSA) TENDER CONTENT:</u>				
EITHER				
B	☐	Producer Price Index (PPI) stats sa STATICAL RELEASE P0142.1 of July 2026 Table C2 Intermediate manufactured goods	Monthly	<i>Schedule F.1 (B)</i>
OR				
C	☒ N/A	Pricelist / Quotation Based CPA	Ad-Hoc	<i>Schedule F.1 (C)</i>
OR				
D	☒ N/A	STATS SA CPI Index Based CPA	Annually	<i>Schedule F.1 (D)</i>
OR/AND				
E	☒ N/A	Sectorial Determination 1:Contract Cleaning Sector	Annually	<i>Schedule F.1 (E)</i>
OR				

E	N/A	Sectorial Determination 6: Private Security Sector	Annually	Schedule F.1 (E)
<u>IMPORTED GOODS AND / OR COMPONENTS (IF APPLICABLE)</u>				
F	N/A	ROE based CPA	Ad-Hoc	Schedule F.1 (F)
AND (IF REQUIRED), EITHER				
G	N/A	Pricelist / Quotation based CPA	Ad-Hoc / Periodic	Schedule F.1 (G)
OR				
H	N/A	Overseas CPI / PPI index based CPA	Ad-Hoc / Periodic	Schedule F.1 (H)

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

3. CONTRACT CPA APPLICATIONS AND ADMINISTRATION

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

- i. By letter to: **Director Water and Sanitation: Bulk Services, City of Cape Town, P.O. Box 655, Cape Town, 8000** or
- ii. By email to: **CPA.Request@capetown.gov.za**

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

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

effective date of the adjustment shall be issued at, and the Goods or Services supplied, invoiced and paid for at the adjusted prices. The relevant adjustment will not be applied to Purchase Orders issued

prior to the effective date.

Or

Unless indicated otherwise in the relevant schedule below, the adjustment will apply to all Purchase Orders or Purchase Order lines where the delivery date is on or after the effective date of the adjustment.

F.1 (A) – FIRM PRICES

NOT APPLICABLE

F.1 (B) – Producer Price Index (PPI)
stats sa STATICAL RELEASE P0142.1 of July 2026
Table C2 Intermediate manufactured goods

STATISTICS SOUTH AFRICA

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P0142.1

Main index numbers and annual percentage changes (Dec 2023=100)**Table C1 – Final manufactured goods**

Year and type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
2022	Index	84,9	85,8	87,9	89,5	91,1	93,0	95,1	94,6	95,3	95,7	96,2	92,1
	Rate	10,1	10,5	11,9	13,1	14,7	16,2	18,0	16,6	16,3	16,0	15,0	14,4
2023	Index	95,6	96,3	97,2	97,2	97,8	97,5	97,7	98,7	100,2	101,2	100,6	98,3
	Rate	12,7	12,2	10,6	8,6	7,3	4,8	2,7	4,3	5,1	5,8	4,6	6,7
2024	Index	100,1	100,6	101,7	102,2	102,3	102,0	101,8	101,5	101,2	100,5	100,5	101,3
	Rate	4,7	4,5	4,6	5,1	4,6	4,6	4,2	2,8	1,0	-0,7	-0,1	3,1
2025	Index	101,2	101,6	102,2	102,7	102,4	102,6	103,3	103,6	103,5	103,4	103,4	102,8
	Rate	1,1	1,0	0,5	0,5	0,1	0,6	1,5	2,1	2,3	2,9	2,9	1,5
2026	Index	103,4	103,4	104,5	107,6	110,4	110,3	109,2	..	..	..	..	..
	Rate	2,2	1,8	2,3	4,8	7,8	7,5	5,7	..	..	..	..	..

Table C2 – Intermediate manufactured goods

Year and type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
2022	Index	95,2	95,7	96,1	97,7	99,8	100,5	100,8	101,5	103,4	102,3	101,8	99,8
	Rate	21,0	19,3	18,6	17,6	15,6	15,2	14,7	13,4	13,7	11,2	8,6	14,6
2023	Index	100,5	100,5	100,9	102,2	104,2	102,8	100,8	101,0	100,4	99,3	99,5	101,0
	Rate	5,6	5,0	5,0	4,6	4,4	2,4	-0,1	-0,5	-2,9	-2,9	-2,3	1,2
2024	Index	100,7	101,5	102,6	104,0	104,6	105,2	105,0	105,2	104,8	105,2	105,8	104,2
	Rate	0,2	1,0	1,7	1,8	0,4	2,3	4,2	4,2	4,8	5,5	5,7	3,2
2025	Index	108,1	110,1	110,2	112,8	111,8	111,0	111,7	112,0	113,2	116,2	116,5	112,5
	Rate	7,3	8,5	7,4	8,5	6,9	5,5	6,4	6,5	7,6	10,9	10,7	8,0
2026	Index	119,5	118,7	120,2	124,1	127,1	124,8	122,6	..	..	..	..	..
	Rate	10,5	7,8	9,1	10,0	13,7	12,4	9,8	..	..	..	..	..

Table C3 – Electricity and water

Year and type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
2022	Index	78,5	78,5	78,3	81,1	82,5	113,1	117,8	119,6	88,0	86,5	86,5	91,4
	Rate	16,1	12,9	13,8	12,8	12,9	15,2	8,0	8,6	-1,0	10,1	7,9	10,3
2023	Index	86,2	87,4	86,3	91,8	95,3	128,4	139,4	141,0	102,5	100,4	100,4	104,9
	Rate	9,8	11,2	10,1	13,1	15,5	13,6	18,3	17,9	16,4	16,1	16,1	14,7
2024	Index	100,7	101,4	99,8	105,0	106,8	140,2	153,6	151,0	112,5	111,6	110,3	117,0
	Rate	16,8	16,0	15,6	14,4	12,1	9,2	10,2	7,1	9,8	11,2	11,2	11,5
2025	Index	110,8	112,4	109,8	116,8	118,3	155,2	161,1	158,0	129,3	129,6	128,7	129,9
	Rate	10,0	10,8	10,0	11,2	10,8	10,7	4,9	4,6	14,9	16,1	15,3	16,9
2026	Index	129,3	129,7	129,5	131,4	132,8	163,7	173,2	..	..	..	..	..
	Rate	16,7	15,4	17,9	12,5	12,3	5,5	7,5	..	..	..	..	..

CONTRACT PRICE ADJUSTMENT FORMULAE

The rates within the Price Schedule shall be adjusted monthly in accordance with the formula below.

The “BASE DATE” for contract price adjustment is one month (thirty days) prior to the tender close date.

In all the formulae, the subscript 1 is the prevailing index for the month of invoicing and the subscript 0 is the corresponding index at the tender Base Date.

1.1 LIQUID STREAM FIXED COSTS (RAND PER MONTH)

The initial tendered rate for the Liquid Stream Fixed Cost is identified as L_{F0} and shall be indicated as Rand per month. The sum claimed for the Liquid Stream Fixed Cost for an invoice Month shall be identified as L_{F1} which shall be calculated according to the formula below: (Annual Adjustment)

$$L_{F1} = L_{F0} \times L_{FA}$$

where,

L_{F1} = Sum claimed for the Liquid Stream Fixed Cost claimed, for the Invoicing Month.

L_{F0} = Liquid Stream Fixed Cost as tendered and using the Base Date.

L_{FA} = Liquid Stream Fixed Cost Contract Price Adjustment Factor.

The Liquid Stream Fixed Cost Price Adjustment Factor is based on a 100% cost increase recovery. The formula used to calculate the Contract Price Adjustment Factor is:

$$L_{FA} = (a \times LA_1/LA_0) + (b \times LB_1/LB_0) + (c \times LC_1/LC_0) + (d \times P_1/P_0)$$

where,

LA_0	Cost of staff using CCT's payrates in the grades T1 to T6, as at Base Date.
LA_1	Cost of staff using CCT's payrates in the grades T1 to T6, as per prevailing index at Invoice Month.
LB_0	Cost of staff using CCT's payrates in the grades T7 to T11, as at Base Date.
LB_1	Cost of staff using CCT's payrates in the grades T7 to T11, as per prevailing index at Invoice Month.
LC_0	Cost of staff using CCT's payrates in the grades T12 and higher, as at Base Date.
LC_1	Cost of staff using CCT's payrates in the grades T12 and higher, as per prevailing index at Invoice Month.
P_0	PO142.1 - Production Price Index, Table C2, Intermediate manufactured goods, as at Base Date
P_1	PO142.1 - Production Price Index, Table C2, Intermediate manufactured goods, as per prevailing index at Invoice Month.
a; b; c; d	The % weighting of each cost factor, and where $a + b + c + d = 1.0$

1.2 LIQUID STREAM VARIABLE COSTS PER KILOLITRE (CUBIC METRE) OF WASTEWATER RECEIVED.

The electricity supplied to the Zandvliet Wastewater Treatment Works is billed using ESKOM's local authority Municflex Tariff. This has three tariff rates (Peak, Standard and off-Peak – also known as Time-of-Use) and two seasons (High Season and Low Season). In the high season period (presently June to August), the rates per kWh are significantly higher than in the Low season. There is a likelihood that the future ESKOM tariff increases may not be the same for each time of use period and for the High and Low Season. For this reason, the liquid stream variable costs have been split into two periods to coincide with the ESKOM "Seasons".

In all the formulae,

1.2.1 ESKOM HIGH SEASON

The initial tendered rate for the Liquid Stream Variable Costs in the ESKOM High Season shall be identified as L_{VH0} and shall be indicated in Rand per kilolitre. The sum claimed for the Liquid Stream Variable Costs for an invoicing Month shall be identified as L_{VH1} which shall be calculated according to the formula below:

$$LVH1 = LVH0 \times LVHA$$

where,

$LVH1$ = Sum claimed for the Liquid Stream Variable Costs for the ESKOM High Season, for the Invoice Month

$LVH0$ = Liquid Stream Variable Costs as tendered in the ESKOM High Season at the Base Date

$LVHA$ = Liquid Stream Variable Costs Price Adjustment Factor (ESKOM High Season)

The Liquid Stream Variable Costs Price Adjustment Factor is based on a 100% cost increase recovery. The formula is shown below for Eskom High Season:

$$LVHA = (e \times C_1/C_0) + (f \times CT_1/CT_0) + (g \times SH_1/SH_0) + (h \times FS/FS_0) + S_1/S_0 \times [(i \times D_1/D_0) + (j \times K_{P1}/K_{P0}) + (k \times K_{S1}/K_{S0}) + (\ell \times K_{O1}/K_{O0})]$$

where

C_0	Chlorine Cost – Rand / kg, as at Base Date.
C_1	Chlorine Cost – Rand / kg, as at Invoice Month.
CT_0	Citric Acid Cost – Rand/kg, as at Base Date.
CT_1	Citric Acid Cost – Rand/kg, as at Invoice Month.
SH_0	Sodium Hypochlorite Cost – Rand/kg, as at Base Date.
SH_1	Sodium Hypochlorite Cost – Rand/kg, as at Invoice Month.
FS_0	Ferric Sulphate – Rand/kg, as at Base Date.
FS_1	Ferric Sulphate – Rand/kg, as at Invoice Month.
S_0	Mean COD concentration for the period of the claim – mg/l, as at Base Date
S_1	Mean COD concentration for the period of the claim – mg/l
D_0	Electricity Fixed Charge – Rand, as at Base Date
D_1	Electricity Fixed Charge – Rand, as at Invoice Month
K_{P0}	kWh rate during peak hours – Rand / kWh, as at Base Date.
K_{P1}	kWh rate during peak hours – Rand / kWh, as at Invoice Month
K_{S0}	kWh rate during standard hours – Rand / kWh, as at Base Date.
K_{S1}	kWh rate during standard hours – Rand / kWh, as at Invoice Month.
K_{O0}	kWh rate during off-peak hours – Rand / kWh, as at Base Date.
K_{O1}	kWh rate during off-peak hours – Rand / kWh, as at Invoice Month.
$e, f, g, h, i, j, k, \ell$	The % weighting of each cost factor, where $e + f + g + h + i + j + k + \ell = 1.0$

S_0 shall be the average raw wastewater influent COD in mg/l for the 12-month period ending March 2026, as indicated in the tables in 5.1.5.2

1.2.2 ESKOM LOW SEASON

The initial tendered rate for the Liquid Stream Variable Costs in the Low Season shall be identified as

LV_{L0} and shall be indicated in Rand per kilolitre. The sum claimed for the Liquid Stream Variable Costs for an invoicing Month shall be identified as LV_{L1} which shall be calculated by according to the formula below:

$$LV_{L1} = LV_{L0} \times LV_{LA}$$

where,

LV_{L1} = Sum claimed for the Liquid Stream Variable Costs for the ESKOM Low Season, for the Invoice Month.

LV_{L0} = Liquid Stream Variable Costs as tendered in the ESKOM Low Season at the Base Date.

LV_{LA} = Liquid Stream Variable Cost Price Adjustment Factor (ESKOM Low Season)

The Liquid Stream Variable Costs Price Adjustment Factor is based on a 100% cost increase recovery. The formula is shown below for ESKOM Low Season:

$$L_{VLA} = (m \times C_1/C_0) + (n \times CT_1/CT_0) + (o \times SH_1/SH_0) + (p \times FS/FS_0) + S_1/S_0 \times [(q \times D_1/D_0) + (r \times K_{P1}/K_{P0}) + (s \times K_{S1}/K_{S0}) + (t \times K_{O1}/K_{O0})]$$

where

C ₀	Chlorine Cost – Rand/kg, as at Base Date.
C ₁	Chlorine Cost – Rand/kg, as at Invoice Month.
CT ₀	Citric Acid Cost – Rand/kg, as at Base Date.
CT ₁	Citric Acid Cost – Rand/kg, as at Invoice month.
SH ₀	Sodium Hydroxide Cost – Rand/kg, as at Base Date.
SH ₁	Sodium Hydroxide Cost – Rand/kg, as at Invoice Month.
FS ₀	Ferric Sulphate - Rand/kg, as at Base Date.
FS ₁	Ferric Sulphate - Rand/kg, as at Invoice Month.
S ₀	Mean COD concentration for the period of the claim – mg/l, as at Base Date.
S ₁	Mean COD concentration for the period of the claim – mg/l, as at Invoice Month.
D ₀	Electricity Fixed Charge – Rand, as at Base Date.
D ₁	Electricity Fixed Charge – Rand, as at Invoice Month.
K _{P0}	kWh rate during peak hours – Rand / kWh, as at Base Date.
K _{P1}	kWh rate during peak hours – Rand / kWh, as at Invoice Month.
K _{S0}	kWh rate during standard hours – Rand / kWh, as at Base Date.
K _{S1}	kWh rate during standard hours – Rand / kWh, as at Invoice Month.
K _{O0}	kWh rate during off-peak hours – Rand / kWh, as at Base Date.
K _{O1}	kWh rate during off-peak hours – Rand / kWh, as at Invoice month.
m; n; o; p; q; r; s; t	The % weighting of each cost factor, where m + n + o + p + q + r + s + t = 1.0

S₀ shall be the average raw wastewater influent COD in mg/l for the 12 month period ending March 2026, as indicated in the tables in 5.1.5.2

In the event of the period of the claim covering both the ESKOM High Season and the Low Season, the period claim shall be split into two components corresponding with the relevant ESKOM Season.

2.1 SLUDGE STREAM FIXED COSTS (RAND PER MONTH)

The initial tendered Sludge Stream Fixed Costs shall be identified as S_{F0} and shall be indicated as Rand per month. The sum claimed for the Sludge Stream Fixed Costs or an invoicing Month shall be identified as S_{F1} which shall be calculated by according to the formula below. (Annual Adjustment)

$$S_{F1} = S_{F0} \times S_{FA}$$

where,

S_{F1} = Sum claimed for the Sludge Stream Fixed Cost, for the Invoice Month.

S_{F0} = Sludge Stream Fixed Cost as tendered and using the Base Date.

S_{FA} = Sludge Stream Fixed Costs Price Adjustment Factor

The Sludge Stream Fixed Costs Price Adjustment Factor is based on a 100% cost increase recovery. The formula is shown below:

$$S_{FA} = (u \times LA_1/LA_0) + (v \times LB_1/LB_0) + (w \times LC_1/LC_0) + (y \times P_1/P_0)$$

where

LA ₀	Cost of staff using CCT's payrates in the grades T1 to T6, as at Base Date.
LA ₁	Cost of staff using CCT's payrates in the grades T1 to T6, as at Invoice Month.
LB ₀	Cost of staff using CCT's payrates in the grades T7 to T11, as at Base Date.
LB ₁	Cost of staff using CCT's payrates in the grades T7 to T11, as at Invoice Month.
LC ₀	Cost of staff using CCT's payrates in the grades T12 and higher, as at Base Date.
LC ₁	Cost of staff using CCT's payrates in the grades T12 and higher, as at Invoice

	Month.
P ₀	PO142.1 - Production Price Index, Table C2, Intermediate manufactured goods, as at Base Date.
P ₁	PO142.1 - Production Price Index, Table C2, Intermediate manufactured goods, as at Invoice Month.
u; v; w; y	The % weighting of each cost factor, where u + v + w + y = 1.0

2.2 SLUDGE STREAM FIXED RATE COST PER NETT TON (1000 kg) OF PRIMARY SLUDGE DEWATERED (DRY BASIS)

The electricity supplied to the Zandvliet Wastewater treatment Works is billed using the ESKOM local authority Municflex Tariff. This has three tariff rates (Peak, Standard and off-Peak – also known as Time-of-Use) and two seasons (High Season and Low Season). In the high season period (June to August), the rates per kWh are significantly higher than in the Low season. There is a likelihood that the future ESKOM tariff increases may not be the same for each time of use and for the High and Low Season. For this reason, the sludge stream fixed rate costs have been split into two periods to coincide with the ESKOM “Seasons”.

The word “Nett” is used to mean the total quantity of sludge (dry solids basis) transferred to the dewatering belt presses minus the quantity of sludge (dry solids basis) returned to the reactors through belt washings, etc.

2.2.1 ESKOM HIGH SEASON

The initial tendered rate for the Sludge Stream Fixed Rate Cost in the High Season shall be identified as S_{VH0} and shall be indicated in Rand per Ton DS dewatered. The sum claimed for the Sludge Stream Fixed Rate Cost for an invoicing Month shall be identified as S_{VH1} which shall be calculated according to the formula below:

$$S_{VH1} = S_{VH0} \times S_{VHA}$$

where:

S_{VH1} = Sum claimed for the Sludge Stream Fixed Rate Cost for the ESKOM High Season, for the Invoice Month.

S_{VH0} = Sludge Stream Fixed Rate Cost as tendered in the ESKOM High Season, at the Base Date.

S_{VHA} = Sludge Stream Fixed Rate Cost Price Adjustment Factor (ESKOM High Season)

The Sludge Stream Fixed Rate Cost Price Adjustment Factor is based on a 100% cost increase recovery. The formula is shown below for the ESKOM High Season

$$SPP_{VHA} = (aa \times D_1/D_0) + (ab \times K_{P1}/K_{P0}) + (ac \times K_{S1}/K_{S0}) + (ad \times K_{O1}/K_{O0}) + (ae \times F_1/F_0)$$

where,

D ₀	Electricity Fixed Charge – Rand, as at Base Date.
D ₁	Electricity Fixed Charge – Rand, as at Invoice Month.
K _{P0}	kWh rate during peak hours – Rand / kWh, as at Base Date.
K _{P1}	kWh rate during peak hours – Rand / kWh, as at Invoice Month.
K _{S0}	kWh rate during standard hours – Rand / kWh, as at Base Date.
K _{S1}	kWh rate during standard hours – Rand / kWh, as at Invoice Month.
K _{O0}	kWh rate during off-peak hours – Rand / kWh, as at Base Date.
K _{O1}	kWh rate during off-peak hours – Rand / kWh, as at Invoice Month.
F ₀	Polyelectrolyte Cost – Rand / kg, as at Base Date.
F ₁	Polyelectrolyte Cost – Rand / kg, as at Invoice Month.
aa; ab; ac; ad; ae	The % weighting of each cost factor, where aa + ab + ac + ad + ae = 1.0

2.2.2 ESKOM LOW SEASON

The initial tendered rate for the Sludge Stream Fixed Rate Cost in the Low Season shall be identified as S_{VL0} and shall be indicated in Rand per Ton DS dewatered. The sum claimed for the Sludge Stream Fixed Rate Cost for invoicing Month shall be identified as S_{VL1} which shall be calculated by according to the formula below:

$$SP_{VL1} = SP_{VL0} \times SP_{VLA}$$

where:

SP_{VL1} = Sum claimed for the Sludge Stream Fixed Rate Cost for the ESKOM Low Season, for the Invoice Month.

SP_{VL0} = Sludge Stream Fixed Rate Cost as tendered in the ESKOM Low Season at the Base Date.

SP_{VLA} = Sludge Stream Fixed Rate Cost Price Adjustment Factor (ESKOM Low Season))

The Sludge Stream Fixed Rate Cost Price Adjustment Factor is based on a 100% cost increase recovery. The formula is shown below for the ESKOM Low Season

$$SP_{VLA} = (af \times D_1/D_0) + (ag \times K_{P1}/K_{P0}) + (ah \times K_{S1}/K_{S0}) + (ai \times K_{O1}/K_{O0}) + (aj \times F_1/F_0)$$

where,

D_0	Electricity Fixed Charge – Rand, as at Base Date.
D_1	Electricity Fixed Charge – Rand, as at Invoice Month.
K_{P0}	kWh rate during peak hours – Rand / kWh, as at Base Date.
K_{P1}	kWh rate during peak hours – Rand / kWh, as at Invoice Month.
K_{S0}	kWh rate during standard hours – Rand / kWh, as at Base Date.
K_{S1}	kWh rate during standard hours – Rand / kWh, as at Invoice Month.
K_{O0}	kWh rate during off-peak hours – Rand / kWh, as at Base Date.
K_{O1}	kWh rate during off-peak hours – Rand / kWh, as at Invoice Month.
F_0	Polyelectrolyte Cost – Rand / kg, as at Base Date.
F_1	Polyelectrolyte Cost – Rand / kg, as at Invoice Month.
af; ag; ah; ai; aj	The % weighting of each cost factor, where af + ag + ah + ai + aj = 1.0

2.3 SLUDGE STREAM FIXED RATE COST PER NETT TON (1000 kg) OF WAS SLUDGE DEWATERED (DRY BASIS)

The electricity supplied to the Zandvliet Wastewater treatment Works is billed using the ESKOM Municflex – Local Authority Tariff for transition zones greater than 900km, Voltages between the 500V and 66kV range and greater than 1MVA. The prevailing tariffs are available from Eskom's Tariff Booklet on their website. This has three tariff rates (Peak, Standard and off-Peak – also known as Time-of-Use) and two seasons (High Season and Low Season). In the high season period (June to August), the rates per kWh are significantly higher than in the Low season. There is a likelihood that the future ESKOM tariff increases may not be the same for each time of use and for the High and Low Season. For this reason, the sludge stream fixed rate costs have been split into two periods to coincide with the ESKOM "Seasons".

The word "Nett" is used to mean the total quantity of sludge (dry solids basis) transferred to the dewatering belt presses minus the quantity of sludge (dry solids basis) returned to the reactors through belt washings, etc.

2.2.1 ESKOM HIGH SEASON

The initial tendered rate for the Sludge Stream Fixed Rate Cost in the High Season shall be identified as S_{VH0} and shall be indicated in Rand per Ton DS dewatered. The sum claimed for the Sludge Stream Fixed Rate Cost for Month 1 shall be identified as S_{VH1} which shall be calculated according to the formula below:

$$SW_{VH1} = SW_{VH0} \times SW_{VHA}$$

where:

SW_{VH1} = Sum claimed for the Sludge Stream Fixed Rate Cost for the ESKOM High Season, for the Invoice Month.

SW_{VH0} = Sludge Stream Fixed Rate Cost as tendered in the ESKOM High Season at the Base Date.

SW_{VHA} = Sludge Stream Fixed Rate Cost Price Adjustment Factor (ESKOM High Season))

The Sludge Stream Fixed Rate Cost Price Adjustment Factor is based on a 100% cost increase recovery. The formula is shown below for the ESKOM High Season

$$SW_{VHA} = (ak \times D_1/D_0) + (al \times K_{P1}/K_{P0}) + (am \times K_{S1}/K_{S0}) + (an \times K_{O1}/K_{O0}) + (ao \times F_1/F_0)$$

where,

D_0	Electricity Fixed Charge – Rand, as at Base Date.
D_1	Electricity Fixed Charge – Rand, as at Invoice Month.
K_{P0}	kWh rate during peak hours – Rand / kWh, as at Base Date.
K_{P1}	kWh rate during peak hours – Rand / kWh, as at Invoice Month.
K_{S0}	kWh rate during standard hours – Rand / kWh, as at Base Date.
K_{S1}	kWh rate during standard hours – Rand / kWh, as at Invoice Month.
K_{O0}	kWh rate during off-peak hours – Rand / kWh, as at Base Date.
K_{O1}	kWh rate during off-peak hours – Rand / kWh, as at Invoice Month.
F_0	Polyelectrolyte Cost – Rand / kg, as at Base Date.
F_1	Polyelectrolyte Cost – Rand / kg, as at Invoice Month.
$ak; al; am; an; ao$	The % weighting of each cost factor, where $ak + al + am + an + ao = 1.0$

2.2.2 ESKOM LOW SEASON

The initial tendered rate for the Sludge Stream Fixed Rate Cost in the Low Season shall be identified as SW_{VL0} and shall be indicated in Rand per Ton DS dewatered. The sum claimed for the Sludge Stream Fixed Rate Cost for Month 1 shall be identified as SW_{VL1} which shall be calculated by according to the formula below:

$$SW_{VL1} = SW_{VL0} \times SW_{VLA}$$

where:

SW_{VL1} = Sum claimed for the Sludge Stream Fixed Rate Cost for the ESKOM Low Season, for the Invoice Month.

SW_{VL0} = Sludge Stream Fixed Rate Cost as tendered in the ESKOM Low Season at the Base Date.

SW_{VLA} = Sludge Stream Fixed Rate Cost Price Adjustment Factor (ESKOM Low Season))

The Sludge Stream Fixed Rate Cost Price Adjustment Factor is based on a 100% cost increase recovery. The formula is shown below for the ESKOM Low Season

$$SW_{VLA} = (ap \times D_1/D_0) + (aq \times K_{P1}/K_{P0}) + (ar \times K_{S1}/K_{S0}) + (as \times K_{O1}/K_{O0}) + (at \times F_1/F_0)$$

where,

D_0	Electricity Fixed Charge – Rand, as at Base Date.
D_1	Electricity Fixed Charge – Rand, as at Invoice Month.
K_{P0}	kWh rate during peak hours – Rand / kWh, as at Base Date.

K _{P1}	kWh rate during peak hours – Rand / kWh, as at Invoice Month.
K _{S0}	kWh rate during standard hours – Rand / kWh, as at Base Date.
K _{S1}	kWh rate during standard hours – Rand / kWh, as at Invoice Month.
K _{O0}	kWh rate during off-peak hours – Rand / kWh, as at Base Date.
K _{O1}	kWh rate during off-peak hours – Rand / kWh, as at Invoice Month.
F ₀	Polyelectrolyte Cost – Rand / kg, as at Base Date.
F ₁	Polyelectrolyte Cost – Rand / kg, as at Invoice Month.
ap; aq; ar; as; at	The % weighting of each cost factor, where ap + aq + ar + as + at = 1.0

The % weightings for each formulae shall be determined by the tenderer based on their own costings. These shall be completed by the tenderer in the schedule in 2.3 below.

A. BLACK MAC SCREENING STATION

1.1 LIQUID STREAM FIXED COSTS (RAND PER MONTH)

The initial tendered rate for the Liquid Stream Fixed Cost is identified as L_{F0} and shall be indicated as Rand per month. The sum claimed for the Liquid Stream Fixed Cost for Month 1 shall be identified as L_{F1} which shall be calculated according to the formula below: (Annual Adjustment)

$$L_{BMF1} = L_{BMF0} \times L_{BMFA}$$

where,

L _{BMF1}	=	Sum claimed for the Liquid Stream Fixed Cost, for the Invoice Month.
L _{BMF0}	=	Liquid Stream Fixed Cost as tendered and using the Base Date.
L _{BMFA}	=	Liquid Stream Fixed Cost Contract Price Adjustment Factor.

The Liquid Stream Fixed Cost Price Adjustment Factor is based on a 100% cost increase recovery. The formula used to calculate the Contract Price Adjustment Factor is:

$$L_{BMF} = (a \times LA_1/LA_0) + (b \times LB_1/LB_0) + (c \times LC_1/LC_0) + (d \times P_1/P_0)$$

where,

LA ₀	Cost of staff using CCT's payrates in the grades T1 to T6, as at Base Date.
LA ₁	Cost of staff using CCT's payrates in the grades T1 to T6, as at Invoice Month.
LB ₀	Cost of staff using CCT's payrates in the grades T7 to T11, as at Base Date.
LB ₁	Cost of staff using CCT's payrates in the grades T7 to T11, as at Invoice Month.
LC ₀	Cost of staff using CCT's payrates in the grades T12 and higher, as at Base Date.
LC ₁	Cost of staff using CCT's payrates in the grades T12 and higher, as at Invoice Month.
P ₀	P0142.1 - Producer Price Index, Table C2 – Intermediate manufactured goods", as at Base Date.
P ₁	P0142.1 - Producer Price Index, Table C2 – Intermediate manufactured goods", as at Invoice Month.
a; b; c; d	The % weighting of each cost factor, and where a + b + c + d =1.0

2.3 BASE RATES AND WEIGHTING FACTORS

Tenders are to complete the following schedule, with the base indices being those one month before the tender close date and the weighting being the tendered split of each factor, which must add up to one.

Refer to above tables for relevant measurement units.

2.3.1 ZANDVLIET WWTW

		Base Index		Weighting	
1.1	Liquid Stream Fixed Cost (Annual Adjustment)	LA ₀		a	
		LB ₀		b	
		LC ₀		c	
		P ₀		d	
The % weighting of each cost factor, and where a + b + c + d					1.0
1.2	Liquid Stream Variable Cost				
1.2.1	High Season	C ₀		e	
		CT ₀		f	
		SH ₀		g	
		FS ₀		h	
		S ₀			
		D ₀		i	
		K _{p0}		j	
		K _{s0}		k	
		K _{o0}		ℓ	
The % weighting of each cost factor, and where e + f + g + h + i + j + k + l					1.0
1.2.2	Low Season	C ₀		m	
		CT ₀		n	
		SH ₀		o	
		FS ₀		p	
		S ₀			
		D ₀		q	
		K _{p0}		r	
		K _{s0}		s	
		K _{o0}		t	
The % weighting of each cost factor, and where m + n + o + p + q + r + s + t					1.0
2.1	Sludge Stream Fixed Costs (Annual Adjustment)	LA ₀		u	
		LB ₀		v	
		LC ₀		w	
		P ₀		y	
The % weighting of each cost factor, and where u + v + w + y					1.0
2.2	Sludge Stream R/T - Primary				

2.2.1	High Season	D ₀		aa	
		K _{p0}		ab	
		K _{s0}		ac	
		K _{o0}		ad	
		F ₀		ae	
The % weighting of each cost factor, and where aa + ab + ac + ad + ae					1.0
2.2.2	Low Season	D ₀		af	
		K _{p0}		ag	
		K _{s0}		ah	
		K _{o0}		ai	
		F ₀		aj	
The % weighting of each cost factor, and where af + ag + ah + ai + aj					1.0
2.3	Sludge Stream R/T - WAS				
2.3.1	High Season	D ₀		ak	
		K _{p0}		al	
		K _{s0}		am	
		K _{o0}		an	
		F ₀		ao	
The % weighting of each cost factor, and where ak + al + am + an + ao					1.0
2.3.2	Low Season	D ₀		ap	
		K _{p0}		aq	
		K _{s0}		ar	
		K _{o0}		as	
		F ₀		at	
The % weighting of each cost factor, and where ap + aq + ar + as + at					1.0

2.3.2 BLACK MAC SCREENING STATION

		Base Index		Weighting	
1.1	Liquid Stream Fixed Cost (Annual Adjustment)	LA ₀		a	
		LB ₀		b	
		LC ₀		c	
		P ₀		d	
The % weighting of each cost factor, and where a + b + c + d					1.0

2.4. REVIEW OF FORMULAE

Any formulae would be reviewed and adjusted where:

- i) any index is discontinued or re-based
- ii) any ratio (e.g. C_1/Co) exceeds 1.5
- iii) for the electricity variable rates, if the change in the overall the fixed energy factor divided by the sum of the variable energy factors exceeds 1.10 or is less than 0.90, the respective weightings would have to be adjusted to accommodate potential divergent fluctuation between the fixed and variable portion of the electrical tariffs.

Signature

Print name:

On behalf of the tenderer (duly authorised)

Date

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

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

1. We, the undersigned, are submitting this tender offer as a partnership/ joint venture/ consortium and hereby authorize Mr/Ms _____, of the authorised entity _____, acting in the capacity of Lead Partner, to sign all documents in connection with the tender offer and any contract resulting from it on the partnership/joint venture/ consortium's behalf.
2. By signing this schedule the partners to the partnership/joint venture/ consortium:
 - 2.1 warrant that the tender submitted is in accordance with the main business and objectives of the partnership/joint venture/ consortium;
 - 2.2 agree that the CCT shall make all payments in terms of this Contract into the following bank account of the Lead Partner:

Account Holder: _____

Financial Institution: _____

Branch Code: _____

Account No.: _____
 - 2.3 agree that in the event that there is a change in the partnership/ joint venture/ consortium and/or should a dispute arise between the partnership/joint venture/ consortium partners, that the CCT shall continue to make any/all payments due and payable in terms of the Contract into the aforesaid bank account until such time as the CCT is presented with a Court Order or an original agreement (signed by each and every partner of the partnership/joint venture/ consortium) notifying the CCT of the details of the new bank account into which it is required to make payment.
 - 2.4 agree that they shall be jointly and severally liable to the CCT for the due and proper fulfilment by the successful tenderer/supplier of its obligations in terms of the Contract as well as any damages suffered by the CCT as a result of breach by the successful tenderer/supplier. The partnership/joint venture/ consortium partners hereby renounce the benefits of exclusion and division.
 - 2.5 confirm that the percentage participation and workshare (the percentage of the value of the work to be carried out by each partner/member to the total contract value) is as tabled below

SIGNED BY THE PARTNERS OF THE PARTNERSHIP/ JOINT VENTURE/

%

CONSORTIUM			WORKSHARE
NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY	
Lead partner		Signature..... Name..... Designation.....	
		Signature..... Name..... Designation.....	
		Signature..... Name..... Designation.....	
		Signature..... Name..... Designation.....	
		Signature..... Name..... Designation.....	
		Signature..... Name..... Designation.....	

Note: A copy of the fully signed and witnessed Joint Venture Agreement shall be appended to Schedule F,11 *List of Other Documents Attached by Tenderer Schedule*

Schedule F.3: Declaration for Procurement above R10 million

If the value of the transaction is expected to exceed R10 million (VAT included) the tenderer (and in addition in the case of a Joint Venture/Consortium or Closed Corporation, each partner/member) shall complete and sign the following questionnaire, attach the necessary documents. Each member/partner shall attach its completed and signed Declaration to this Schedule F.3:

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

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

If YES, submit audited annual financial statements:

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

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

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

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

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

- 2.2 If YES, provide particulars:

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

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

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

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

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

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

If YES, furnish particulars below

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

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

Name Tenderer (or member/partner)
Date

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

1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to invitations to tender:
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

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

- 1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

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

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	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.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

The following definitions shall apply to this schedule:

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

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

POINTS AWARDED FOR PRICE

THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

90/10

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

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

POINTS AWARDED FOR PRICE

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

90/10

Where:

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

5. POINTS AWARDED FOR SPECIFIC GOALS

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

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

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

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

Table 1: Specific Goals (SG) – Points Allocated and Claimed

Tenderers must indicate the preference points claimed for each specific goal applicable to them, for the purposes of this tender.

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

The specific goals allocated points in terms of this tender	To be Completed by the Organ of State		To be Completed by the Tenderer	
	Number of points Allocated (90/10 system)	Number of points Allocated (80/20 system)	Number of points claimed (90/10 system)	Number of points claimed (80/20 system)
Promotion of Micro and Small Enterprises	4	8		
Enterprise Supplier Development and Socio-Economic Development	3	6		
Skills Development <u>OR</u> Employee Share Scheme	3	6		

Table B2: Awards above R50 mil (VAT Inclusive)

#	Specific goals allocated points	Preference Points (90/10)
1	Promotion of Micro and Small Enterprises <i>Micro and Small enterprises as per National Small Enterprise Act, 1996 (Act No.102 of 1996)</i> <i>SME partnership, sub-contracting, joint venture or consortiums</i>	4
2	Enterprise Supplier Development and Socio-Economic Development <i>> 15% of total expenditure = 3 points</i> <i>> 10% up to 15% of total expenditure = 2 points</i> <i>>= 5% up to 10% of total expenditure = 1 points</i> <i>< 5% of total expenditure = 0 points</i>	3
3	Skills Development OR Employee Share Scheme	3
3.1	Skills Development <i>> 5% of total expenditure = 3 points</i> <i>> 3% up to 5% of total expenditure = 2 points</i> <i>>= 1% up to 3% of total expenditure = 1 points</i> <i>< 1% of total expenditure = 0 points</i>	
3.2	OR Employee Share Scheme <i>> 15% employee ownership = 3 points</i> <i>> 10% up to 15% employee ownership = 2 point</i> <i>>= 5% up to 10% employee ownership = 1 point</i> <i>< 5% employee ownership = 0 point</i>	
	Total points	10

DECLARATION WITH REGARD TO COMPANY/FIRM

5.3 Name of company/firm.....

5.4 Company registration number:

5.5 TYPE OF COMPANY/ FIRM

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

[Tick applicable box]

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

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 4.1 and 4.2, the Supplier may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or Supplier, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

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

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

Table 2: Specific Goals – Declaration by the Tenderer

Tenderers must complete this table to declare the amounts and percentages applicable to the specific goals they are claiming.

NB: In completing Table 2 below, please consult **Notes for Verification** below

The specific goals allocated points in terms of this tender	To be Completed by the Tenderer	
	Refer to “Notes for verification”	Amount Declared (excluding VAT)
<u>SG1</u> Promotion of Micro and Small Enterprises	(i) Total Turnover	
<u>SG2</u> Enterprise Supplier Development and Socio Economic Development	(ii) Total Enterprise Supplier Development Expenditure	
	(iii) Total Socio-Economic Development Expenditure	
	(iv) Total Expenditure	
<u>SG3.1</u> Skills Development	(v) Total Skills Development Expenditure	
	(vi) Total expenditure	
OR <u>SG3.2</u> Employee Share Scheme	(vii) Employee Share Scheme Ownership %	

Tenderer Confirmation:

I confirm that the amounts declared in Table 2 above are accurate and in accordance with the *‘The Broad-Based Black Economic Empowerment (B-BBEE) Act 53 of 2003, as amended.* .

Signature of Tenderer (Authorised to represent the tenderer)	Date	Name and Surname	Address

Notes for Verification:

All amounts disclosed should be as per the most recent Annual Financial Statements (not older than 12 months) and defined as per the B-BBEE Act

- SG1 – Specific Goal 1
Promotion of Micro and Small Enterprises
 (i) Total Turnover
 Micro enterprises with a turnover of up to R20million and Small enterprises with a turnover up to R80 million, as per National Small Enterprise Act, 1996 (Act No.102 of 1996)
- SG2 – Specific Goal 2
Enterprise Supplier Development and Socio-Economic Development
 (ii) Total Enterprise Supplier Development Expenditure
 Qualifying expenditure as defined in the B-BBEE Act: Statement 400 "THE GENERAL PRINCIPLES FOR MEASURING ENTERPRISE AND SUPPLIER DEVELOPMENT"

 (iii) Total Enterprise Socio Economic Development Expenditure
 Qualifying expenditure as defined in the B-BBEE Act: Statement 500 "THE GENERAL PRINCIPLES FOR MEASURING THE SOCIO - ECONOMIC DEVELOPMENT ELEMENT"

 (iv) Total Expenditure
 Total Expenditure as per the most recent Annual Financial Statements (not older than 12 months)
- SG3.1 – Specific Goal 3
Skills Development
 (v) Total Skills Development Expenditure
 Qualifying expenditure as defined in the B-BBEE Act: Statement 300 "THE GENERAL PRINCIPLES FOR MEASURING SKILLS DEVELOPMENT"

 (vi) Total expenditure
 Total expenditure as per the most recent Annual Financial Statements (not older than 12 months)
- SG3.2 – Specific Goal 3
Employee Share Scheme
 (vii) Employee Share Scheme Ownership %
 Total employee ownership as per employee share certificate at the date of tender closing.

The below table (Table 3) must be completed by a B-BBEE Verification Agency (*Note 1) **OR** Commissioner of Oaths
 (Refer to *Note 3.2 for the detailed declaration):

Table 3:

Signature and Stamp	Date	Name and Surname	Address

***Note 1**

1.1 Tendering entity that undergoes B-BBEE verification

- Where a tendering entity undergoes B-BBEE verification, a B-BBEE certificate valid as at the date of tender closing, must be attached to the bid submission or must be made available upon request within the specified period.
- All amounts disclosed in Table 2, should be amounts used in the B-BBEE verification process undergone by the tendering entity
- The B-BBEE verification agency must complete Table 3 above, to confirm the following amounts disclosed by the bidder in Table 2:
 - (ii) Total Enterprise Supplier Development Expenditure;
 - (iii) Total Socio-Economic Development Expenditure;
 - (v) Total Skills Development Expenditure
- Where the tendering entity is a Joint Venture/ Consortium, the amounts in Table 2 must be consolidated, with an accompanying consolidated B-BBEE certificate valid as at the date of tender closing must be attached to the bid submission or must be made available upon request within the specified period.

1.2 If the tendering entity does not undergo B-BBEE verification and qualifies as a B-BBEE Qualifying Small Enterprise (QSE) and Exempted Micro-Enterprises (EME)

- Table 3 must be completed by a Commissioner of Oaths to confirm the following amounts disclosed by the bidder in Table 2:
 - (ii) Total Enterprise Supplier Development Expenditure;
 - (iii) Total Socio-Economic Development Expenditure;
 - (v) Total Skills Development Expenditure

***Note 2**

2.1 The tendering entity must attach with the bid submission or must be made available upon request within the specified period; the most recent (where applicable) audited financial statements to enable validation of the following amounts disclosed by the bidder in Table 2:

- (i) Total Turnover
- (iv) Total Expenditure
- (vi) Total expenditure

2.2 Companies who are required to be audited by legislation, must submit audited financial statements, not older than 12 months with the bid submission or must be made available upon request within the specified period.

***Note 3**

Sworn affidavit to be deposed by the Commissioner of Oaths to the QSE or EME.

I, the undersigned,

Full Name and Surname (Authorised to represent the tenderer)	
Identity Number	

Hereby declare under oath as follows

3.1 The contents of this statement are to the best of my knowledge a true reflection of facts.

3.2 I am a Member/ Director/ Owner of the following enterprise and am duly authorised to act on its behalf.

Enterprise Name:	
Trading Name (If Applicable):	

Registration Number:	
Enterprise Physical Address:	
Type of Entity (CC, Pty (Ltd), Sole Prop etc):	
Nature of Business:	

3.3 I hereby declare under oath that based on the Financial Statements / Management Accounts and information available on the latest financial year end _____

3.3.1 The annual Total Revenue was less than R50 000 000.00 (Fifty Million Rand);

3.3.2 The following amounts disclosed in Table 2 are accurate, complete, consistent with the BBBEE Act (see Notes for Verification) and based on the Financial Statements / Management Accounts and information available on the latest financial year end _____

As per Table 2	Amount Declared (excluding VAT)
(ii) Total Enterprise Supplier Development Expenditure	
(iii) Total Socio-Economic Development Expenditure	
(iv) Total Expenditure	
(v) Total Skills Development Expenditure	
(vi) Total expenditure	
(vii) Employee Share Scheme Ownership %	

3.4 I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the owners of the enterprise which I represent I this matter.

3.5 The sworn affidavit will be valid for a period of 12 months from the date signed by the commissioner.

--

Commissioner of Oaths

Signature, Date and Stamp

--

Deponent Signature and Date

3.6 KEY NOTES OF DETERMINING VALIDITY OF SWORN AFFIDAVITS

BBBEE Certificates/ Sworn Affidavits	Returnable for declaration requirement must be attached with the bid submission or must be made available upon request within the specified period - Certified and Valid copy of BBBEE Certificate issued by a SANAS Accredited Verification Agent, or - Certified and Valid copy of Sworn Affidavit for either EME or QSE (see key notes below to determine Validity of a Sworn Affidavit); or - Valid copy of BBBEE Certificate issued by CIPC for EME's only KEY NOTES OF DETERMINING VALIDITY OF SWORN AFFIDAVITS Tenderers submitting Sworn Affidavits must ensure that the affidavits meet the following key pointers to ensure their validity: (a) Name/s of deponent as they appear in the identity document and the identity number. (b) Designation of the deponent as the Director/ Member must be indicated in order to know that person is duly authorised to depose of an affidavit (mark the applicable option). (c) Name of enterprise as per enterprise registration documents issued by CIPC, where applicable, and enterprise business address. (d) Amounts as per Table 2 must be inserted (No blank spaces to be left). (e) Indicate total revenue for the year under review and whether it is based on audited financial statements or management accounts (mark the applicable option). (f) Financial year end as per the enterprise's registration documents, which was used to determine the total revenue (financial year end to be stipulated by day/ month/ year). (g) Date deponent signed and date of Commissioner of Oath must be the same. (The sworn affidavit must be signed in the presence of the Commissioner of Oath. Furthermore, the Commissioner must also sign and stamp). (h) Commissioner of Oath cannot be an employee or ex officio of the enterprise because, a person cannot by law, commission a sworn affidavit in which they have an interest. If the relevant documentation/ information as stipulated in the enquiry is not submitted and/or does not meet the above requirements; tenderers will be disqualified.
---	--

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

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

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

2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the tenderer or their authorised representative declare their position in relation to the evaluating/adjudicating authority.

3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid by the Tenderer. In the case of Joint Venture, including a Closed Corporation or Consortium, copies of this questionnaire must be completed by each member/partner and attached to this Schedule F5
 - 3.1 Full Name of tenderer or his or her representative: _____
 - 3.2 Full Name of Joint Venture member/partner: _____
 - 3.3 Identity Number: _____
 - 3.4 Position occupied in the Company (director, trustee, shareholder²): _____
 - 3.5 Company or Close Corporation Registration Number: _____
 - 3.6 Tax Reference Number: _____
 - 3.7 VAT Registration Number: _____
 - 3.8 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
 - 3.9 Are you presently in the service of the state? **YES / NO**
 - 3.9.1 If yes, furnish particulars: _____
 - 3.10 Have you been in the service of the state for the past twelve months? **YES / NO**
 - 3.10.1 If yes, furnish particulars: _____
 - 3.11 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**
 - 3.11.1 If yes, furnish particulars: _____
 - 3.12 Are you, aware of any relationship (family, friend, other) between any other tenderer and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**
 - 3.12.1 If yes, furnish particulars: _____

- 3.13 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: _____
- 3.14 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: _____
- 3.15 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract? **YES / NO**
3.14.1 If yes, furnish particulars: _____
- 3.16 Have you, or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company been in the service of the CCT in the past twelve months? **YES / NO**
3.15.1 If yes, furnish particulars: _____
- 3.17 Do you have any employees who was in the service of the CCT at a level of T14 or higher at the time they left the employ of the CCT, and who was involved in any of the CCT's bid committees for this bid? **YES / NO**
3.16.1 If yes, furnish particulars: _____

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

Full Name	Identity Number	State Employee Number

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

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

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

Date

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

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

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

Schedule F.6: Conflict of Interest Declaration

1. The tenderer, or each member/partner in the case of a Joint Venture, Closed Corporation or Consortium, shall declare whether it has any conflict of interest in the transaction for which the tender is submitted. **(Please mark with X).**

Copies of this declaration must be completed and attached for all member/partners in the Joint Venture, Closed Corporation or Consortium.

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

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

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

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

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

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

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

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

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

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

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

Date

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

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

- 1 The tender offer of any tenderer may be rejected if that tenderer or any of its directors/members have:
- a) abused the municipality's / municipal entity's supply chain management system or committed any fraudulent conduct in relation to such system;
 - b) been convicted for fraud or corruption during the past five years;
 - c) willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - d) been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004) or Database of Restricted Suppliers.
- 2 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Tenderer Name: _____

Member/partner name: if applicable: _____

Item	Question	Yes	No
2.1	Is the tenderer or any of its directors/members listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (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.	Yes ☐	No ☐
2.1.1	If so, furnish particulars:		
2.2	Is the tenderer or any of its directors/members listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004) or Database of Restricted Suppliers? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.	Yes ☐	No ☐
2.2.1	If so, furnish particulars:		
2.3	Was the tenderer or any of its directors/members convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
2.3.1	If so, furnish particulars:		

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

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

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

Date

Signature
Print name:
On behalf of the Member/Party (duly authorised)

Date

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

To: THE CITY MANAGER, City of Cape Town

From: _____
(Name of tenderer)

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

The tenderer:

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

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

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

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

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

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

Date

Schedule F.9: Certificate of Independent Tender Determination

I, the undersigned, in submitting this tender number **088S/2026/27** and tender description: **Provision of Operation, Maintenance and Management Services for the Zandvliet Wastewater Treatment Works, Black Mac Screening Station and Associated Services** in response to the tender invitation made by THE CCT, do hereby make the following statements, which I certify to be true and complete in every respect:

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

1. I have read and I understand the contents of this Certificate;
2. I understand that this tender will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorised by the tenderer to sign this Certificate, and to submit this tender, on behalf of the tenderer;
4. Each person whose signature appears on this tender has been authorised by the tenderer to determine the terms of, and to sign, the tender on behalf of the tenderer;
5. For the purposes of this Certificate and this tender, I understand that the word 'competitor' shall include any individual or organisation other than the tenderer, whether or not affiliated with the tenderer, who:
 - (a) has been requested to submit a tender in response to this tender invitation;
 - (b) could potentially submit a tender in response to this tender invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the tenderer and/or is in the same line of business as the tenderer.
6. The tenderer has arrived at this tender independently from and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium¹ will not be construed as collusive price quoting.
7. In particular, without limiting the generality of paragraphs 5 and 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation);
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit a tender;
 - (e) the submission of a tender which does not meet the specifications and conditions of the tender; or
 - (f) tendering with the intention not to win the contract.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this tender invitation relates.
9. The terms of this tender have not been and will not be disclosed by the tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to tenders and contracts, tenders that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act, Act 89 of 1998, and/o/r may be reported to the National Prosecuting Authority (NPA) for criminal investigation, and/or may be restricted from conducting business with the public sector for a period not exceeding 10 (ten) years in terms of the Prevention and Combating of Corrupt Activities Act, Act 12 of 2004, or any other applicable legislation.

Signature

Print name:

On behalf of the tenderer (duly authorised)

Date

(¹ Consortium: Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.)

Schedule F.10: Proposed Deviations And Qualifications By Tenderer

The Tenderer should record any **proposed** deviations or qualifications they may wish to make to the tender documents in this Returnable Schedule. Alternatively, a tenderer may state such proposed deviations and qualifications in a covering letter attached to his tender and reference such letter in this schedule. Any proposed deviations or qualifications contained in a covering letter which is not referenced in this schedule will not be considered.

The Tenderer's attention is drawn to clause 2.3.7.2 of the Standard Conditions of Tender referenced in the Tender Data regarding the CCT's handling of material deviations and qualifications.

If no deviations or qualifications are proposed, the schedule hereunder is to be marked NIL and signed by the Tenderer.

PAGE	CLAUSE OR ITEM	PROPOSED DEVIATION OR QUALIFICATION

List relevant documentation attached in Schedule F.10 below.

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

 Date

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

The tenderer has attached to this schedule, the following additional documentation:

	Date of Document	Title of Document or Description (refer to clauses / schedules of this tender document where applicable)
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		

Attach additional pages if more space is required.

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

Date

Schedule F.12: Record of Addenda to Tender Documents

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

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

Attach additional pages if more space is required.

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

 Date

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

The following information shall be provided with the Tender:

1. Key Personnel Curriculum Vitae
2. Key Personnel Qualifications
3. Key Personnel Classifications
4. Key Personnel Registrations
5. Bidder Proposed Organogram

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

Date

PAGE LEFT INTENIONAL OPEN

Schedule F.13.A: Tenderer's Experience (Years)

The Tenderer is referred to clause 2.2.1.1.4, Table 2.2.1.1.4-2 and shall indicate on the schedule below all verifiable contract years in managing, operating and maintaining municipal wastewater treatment works projects in South Africa that have been successfully completed in the past fifteen years, or that are presently in progress.

Up to **55 points out of 100 points** will be awarded for this schedule

Where the entity tendering is a joint venture, the track record of each party to the joint venture must be submitted as part of this schedule (additional pages may be added if necessary). A score for each will be combined in proportion to the percentage contribution of each party to the joint venture.

The final outcome of the functionality scoring may be subject to the verification of references and bidder must ensure that all references are verifiable and contactable

Additional supporting documentation can be attached to this page.

SCHEDULE F.13.B: TENDERERS EXPERIENCE - YEARS

TENDERER'S YEARS OF MANAGING, OPERATING AND MAINTAINING A CLASS A MUNICIPAL WASTEWATER TREATMENT WORKS IN SOUTH AFRICA (Up to 20 score points)			YEARS CLAIMED
Years claimed as substantiated below (overlapping periods not to be added together)			
TITLE AND BRIEF DESCRIPTION OF PROJECTS	EMPLOYER (include contact details)	DATE COMMENCED	DATE COMPLETED

TENDERER'S YEARS OF MANAGING, OPERATING AND MAINTAINING A CLASS A MUNICIPAL MBR WASTEWATER TREATMENT WORKS IN SOUTH AFRICA OF OVER 18 MLD CAPACITY (up to 20 score points)			
TITLE AND BRIEF DESCRIPTION OF PROJECTS	VALUE OF CONTRACT	EMPLOYER (include contact details)	YEARS

TENDER NO: 088S/2026/27

TENDERER'S YEARS OF MANAGING, OPERATING AND MAINTAINING CLASS A MUNICIPAL WASTEWATER TREATMENT WORKS SLUDGE BELT PRESS FACILITIES IN SOUTH AFRICA OF AT LEAST 45 TON DRY SOLIDS PER DAY
(up to **15 score points**)

TITLE AND BRIEF DESCRIPTION OF PROJECT	VALUE OF CONTRACT	EMPLOYER (include contact details)	YEARS

SIGNED ON BEHALF OF TENDERER:

Schedule F.13.B: Key Personnel

The tenderer is referred to clause 2.2.1.1.4, Table 2.2.1.1.4-5.1 to 5.7 of the Tender Data and shall insert in the spaces provided below details of the key personnel already in the employment of the tenderer, this a specific requirement for consideration of its tender. The Curriculum Vitae and supporting documentation of each individual meeting the experience and qualification requirements detailed in 2.2.1.1.5 b) must be appended to this schedule.

Up to **50 points** will be awarded for this Schedule

CONTRACTS MANAGER (maximum 10 points)		CURRENT EMPLOYER:		
NAME	JOB TITLE	QUALIFICATIONS	NO. OF YEARS SPECIFIED EXPERIENCE	
MAINTENANCE MANAGER (maximum 10 points)				
NAME	JOB TITLE	QUALIFICATIONS	NO. OF YEARS SPECIFIED EXPERIENCE	
PLANT MANAGER (maximum 10 points)				
NAME	JOB TITLE	QUALIFICATIONS	DWS GRADE AND REGISTRATION NO.	NO YEARS SPECIFIED EXPERIENCE
ASSISTANT PLANT MANAGER (maximum 10 points)				
NAME	JOB TITLE	QUALIFICATIONS	DWS GRADE AND REGISTRATION NO.	NO YEARS SPECIFIED EXPERIENCE

- Contract Manager must be in the permanent employment of the tendering entity of time of tender closure
- Maintenance Manager / Plant Manager / Assistant Manager is allowed to be Sub-Contracted, and a signed letter of undertaking or memorandum of understanding must be submitted by the tendering entity at tender closing

GMR 2(1) (maximum 5 points)				
NAME	JOB TITLE	QUALIFICATIONS	REGISTRATION NO.	NO YEARS SPECIFIED EXPERIENCE

SIGNED ON BEHALF OF TENDERER:

Schedule F.13.C: Proposed Workplans

The Tenderer shall attach to this page its proposed Workplan (Approach and Methodology) in accordance with the requirements of clause 2.2.1.1.4 of the Tender Data

It should be noted that while a programme may form part of the required work plan, more than a programme is expected in response to this requirement. The work plan must indicate the approach and methodology that the tenderer intends following in order to reach the required outcomes. The work plan must show that the tenderer has appreciated the Scope of Work, and has good insight as to what actions or activities are required in order to comply with the Employer's objectives. The work plan must provide the items listed in c Table 2.2.1.1.4-1 and Clause 2.2.1.1.4 i) of the Tender Data. Tenderers should however keep their submissions in this regard to a maximum of 60 pages.

SIGNED ON BEHALF OF TENDERER:

Schedule F.14: Appeal Application

annexure 'B'

OFFICIAL RECEIPT
(Valid only if printed
by official cash
receiving machine)

IRISITI ESESIKWENI
(Isemthethweni kuphela
xa ishicilelwe
ngumatshini wokukhupa
irisiti osesikweni.)

AMPTELIKE KWITANSIE
(Geldig alleenlik indien deur
amptelike kontantvangs
masjien gedruk.)

GL DATA CAPTURE RECEIPT
(CASHIERTO RETAIN A COPY)

RECEIPT NO: _____

DATE: _____

SAP GL:

8	1	0	1	0	0
---	---	---	---	---	---

PROFIT CENTRE:

1	3	0	5	0	0	0	1
---	---	---	---	---	---	---	---

NAME/COMPANY NAME:

AMOUNT:

						R	3	0	0	-	0	0
--	--	--	--	--	--	---	---	---	---	---	---	---

SERVICE DEPARTMENT DETAILS-

DEPARTMENT: LEGAL SERVICES: APPEALS UNIT

CONTACT PERSON: CHARLENE CEBEKHULU / MELANIE CLOETE

PHONE NO: 021 400 2503 / 021 400 3788

OFFICIAL RECEIPT
(Valid only if printed
by official cash
receiving machine)

IRISITI ESESIKWENI
(Isemthethweni kuphela
xa ishicilelwe
ngumatshini wokukhupa
irisiti osesikweni.)

AMPTELIKE KWITANSIE
(Geldig alleenlik indien deur
amptelike kontantvangs
masjien gedruk.)

GL DATA CAPTURE RECEIPT
(CASHIERTO RETAIN A COPY)

RECEIPT NO: _____

DATE: _____

SAP GL:

8	1	0	1	0	0
---	---	---	---	---	---

PROFIT CENTRE:

1	3	0	5	0	0	0	1
---	---	---	---	---	---	---	---

NAME/COMPANY NAME:

AMOUNT:

						R	3	0	0	-	0	0
--	--	--	--	--	--	---	---	---	---	---	---	---

SERVICE DEPARTMENT DETAILS-

DEPARTMENT: LEGAL SERVICES: APPEALS UNIT

CONTACT PERSON: CHARLENE CEBEKHULU / MELANIE CLOETE

PHONE NO: 021 400 2503 / 021 400 3788

CIVIC CENTRE IZIKO LOLUNTU BURGERSENTRUM
12 HERTZOG BOULEVARD CAPE TOWN 8001 P O BOX 298 CAPE TOWN 8000
www.capetown.gov.za


 Making progress possible. Together.

C.9 APPENDICES

APPENDIX A - LICENSE

A.1 CURRENT LICENSE

The following documents are attached hereto:

“LICENCE INTERMS OF CHAPTER 4 OF THE NATIONAL WATER ACT. 1998 (ACT NO.36 OF1998)”

“LICENCE NO: 27/2/1/G822/102/1” (CCT busy with Licence Amendment)



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X313, Pretoria, 0001, Sedibeng Building, 185 Schoeman Street, Pretoria,
Tel: (012) 33 7500 Fax (012) 323-4472 / (012) 326 - 2715

LICENCE IN TERMS OF CHAPTER 4 OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

I, **Trevor Balzer**, in my capacity as Acting Director-General in the Department of Water Affairs and acting under authority of the powers delegated to me by the Minister of Water and Environmental Affairs, hereby authorise the following water uses in respect of this licence.

SIGNED: Trevor Balzer

DATE: 21/07/2011

LICENCE NO: 27/2/1/G822/102/1
FILE NO: 16/2/G203/D29/X7

1. **Water user:** City of Cape Town
Postal Address of applicant: P.O. Box 16548
VLAEBERG
8135
2. **Water Uses**
 - 2.1 Section 21(f) of the Act: Discharging waste or water containing waste into a water resource, subject to the conditions set out in Appendices I and II.
3. **Property on which the use will be exercised**
 - 3.1 Portion 54 of Farm 544 – Cape Town (T14343/1966)
4. **Registered owner of the Property**
 - 4.1 City of Cape Town
5. **Licence and Review Period**

This license is valid for a period of twenty (20) years from the date of issuance and as provided for under Section 49 of the Act, it will be reviewed after two (2) years thereafter every five (5) years.
6. **Definitions**

B 03659

Any terms, words and expressions as defined in the National Water Act, 1998 (Act 36 of 1998) shall bear the same meaning when used in this licence.

Licence No: 27/2/1/G822/102/1
File No: 16/2/G203/D29/X7

"The Regional Head" means The Chief Director: Western Cape, Department of Water Affairs, Private Bag X16 Sanlamhof, Bellville, 7532.

"The Department" means the Department of Water Affairs.

7. Description of activity

The licence authorises City of Cape Town to discharge a maximum quantity of 33 580 000 m³/annum at a maximum rate of 92 000 m³/day of treated effluent from Zandvliet Waste Water Treatment Works (WWTW) into Kuils River. The discharge point is geographically located at the following point: S 34° 02' 55.9" and E 18° 43' 18.9". The activity is undertaken in the Berg Water Management Area within quaternary catchment G22E.

Licence No: 27/2/1/G822/102/1
File No: 16/2/G203/D29/X7

APPENDIX I

General conditions for all water uses

1. This licence is subject to all applicable provisions of the National Water Act, 1998 (Act 36 of 1998).
2. The responsibility for complying with the provisions of the licence is vested in the Licensee and not any other person or body.
3. The Licensee must immediately inform the Regional Head of any change of name, address, premises and/or legal status.
4. If the property in respect of which this licence is issued is subdivided or consolidated, the Licensee must provide full details of all changes in respect of the properties to the Regional Head of the Department within 60 days of the said change taking place.
5. If a water user association is established in the area to manage the resource, membership of the Licensee to this association is compulsory.
6. The Licensee shall be responsible for any water use charges or levies imposed by a responsible authority.
7. While effect must be given to the Reserve as determined in terms of the Act, where a desktop determination of the Reserve has been used in issuance of a licence, when a comprehensive determination of the Reserve has finally been made; it shall be given effect to.
8. When compulsory licensing is implemented for the water resource in respect of which this licence was issued, the water use authorised in this licence could be subject to appropriate reduction.
9. The licence shall not be construed as exempting the Licensee from compliance with the provisions of any other applicable Act, Ordinance, Regulation or By-law.
10. The licence and amendment of this licence are also subject to all the applicable procedural requirements and other applicable provisions of the Act, as amended from time to time.
11. The Licensee shall conduct an annual internal audit on compliance with the conditions of licence. A report on the audit shall be submitted to the Regional Head within one month of the finalisation of the audit.
12. The Licensee shall appoint an independent external auditor to conduct an annual audit on compliance with the conditions of this licence. The first audit must be conducted within 3 (three) months of the date this licence and a report on the audit shall be submitted to the Regional Head within one month of finalisation of the report.
13. Flow metering, recording and integrating devices shall be maintained in a sound state of repair and calibrated by a competent person at intervals of not more than two years. Calibration certificates shall be available for inspection by the Regional Head or his representative upon request.
14. Any incident that causes or may cause water pollution shall be reported to the Regional Head or his/her designated representative within 24 hours.



Licence No: 27/2/1/G822/102/1
File No: 16/2/G203/D29/X7

APPENDIX II

Section 21(f) of the Act: Discharging waste or water containing waste into a water resource

1. QUANTITY OF WATER CONTAINING WASTE

- 1.1 This licence authorises the discharge of treated waste water from Zandvliet WWTW into Kuils River of a maximum quantity of thirty three million five hundred and eighty thousand cubic metres per annum (33 580 000 m³/a) at a maximum rate of ninety two thousand cubic metres a day (92 000 m³/d) of treated effluent into Kuils River.
- 1.2 The quantity of treated water containing waste authorised to be discharged in terms of this licence must not be exceeded without prior authorisation by the responsible authority.

2. QUALITY OF WATER CONTAINING WASTE

- 2.1 The quality of the treated water containing waste discharged into the Kuils River may not exceed the following non-exceedance values or range:

Variable (mg/l)	Limit
pH	>6.5 - <8.0
EC	75mS/m
Chemical Oxygen Demand	<75mg/l
Ammonia (as N)	2 mg/l
Orthophosphate (as P) *	1 mg/l
Nitrate (as N)	6 mg/l
Chloride (as Cl)	<200 mg/l
Suspended solids	25 mg/l
Residual Chlorine	0.1 mg/l
<i>E coli</i> *	1000 in cfu per 100ml

* Relaxed limits

- 2.2 A plan must be submitted to the to the Regional Head within six months from the date of issuance of this licence on how the licensee would reduce the faecal coliform/ *E. coli* to 0 cfu/100ml and the phosphate concentration to comply with the reserve requirements.
- 2.3 Should the quality of the water in the unnamed tributary of Kuils River downstream of the discharge point be found to be unacceptable even though the effluent which is discharged complies with the quality requirements specified in condition 2.1 of Appendix II, the Licensee must immediately implement further measures to improve the quality of the effluent.

3. MONITORING

- 3.1 Quantity
- 3.1.1 The quantity of wastewater discharged into the Kuils River shall be metered and recorded daily.
- 3.1.2 The quantity of influent treated at the Zandvliet WWTWs shall be metered and recorded daily.



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- 3.1.3 Monitoring for the quantity of wastewater shall be done at the point where the wastewater is discharged into the Kuils River.
- 3.1.4 Flow metering, recording and integrating devices shall be maintained in a sound state of repair and calibrated by a competent person at intervals of not more than two years. Calibration certificates shall be available for inspection by the Regional Head or his representative upon request.
- 3.2 Quality of the effluent
- 3.2.1 The quality of the waste shall be monitored by taking grab samples every week at the monitoring points described in condition 4.1.2 of Annexure II. Each sample shall be analysed according to condition 5.1 of Annexure II for the following variables:

Variable	units
pH	
EC	in mS/m
Chemical Oxygen Demand	in mg/l
Ammonia (as N)	in mg/l
Orthophosphate (as P)	in mg/l
Nitrate (as N)	in mg/l
Chloride (as Cl)	in mg/l
Suspended solids	in mg/l
Residual Chlorine	in mg/l
<i>E coli</i>	in cfu per 100ml

and/ or any other variable as may be required from time to time by the Regional Head.

- 3.3 The date, time and monitoring point in respect of each sample taken shall be recorded together with the results of the analysis.
- 3.4 The licensee must avail a list of all industries discharging their waste into the Waste Water Treatment Plant with expected variables to be monitored.

4. MONITORING POINTS

- 4.1 Monitoring for quality and flow shall only be carried out at the monitoring points listed below:
- 4.1.1 Monitoring points for flow shall be undertaken at the inlet point of the sewage works; and at the waste discharge point.
- 4.1.2 Monitoring points for quality shall be undertaken at the following monitoring points:
- 4.1.2.1 At the outlet point of the sewage works where the wastewater is discharged into the Kuils River; and
- 4.1.2.2 At the Kuils River, upstream and downstream of the waste discharge point.
- 4.2 Both monitoring points for flow and for quality must be identified in consultation and approved by the Regional Head.
- 4.3 The identified monitoring points shall not be changed prior to notification and written approval by the Regional Head.

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- 4.4. The Licensee must revise the monitoring program and submit a revised detailed monitoring program for the entire system including the affected water resource (surface and ground water) to the Regional Head within six (6) months after the issuance of the licence.
- 4.5. The Licensee shall summarise the surface water quality data and interpretation thereof in an annual report to be submitted to the Regional Head for the purposes of quantifying the potential impact of the Zandvliet Wastewater Treatment Works.

5. METHODS OF ANALYSIS

- 5.1. Analyses shall be carried out in accordance with methods prescribed by and obtainable from the South African National Standards (SANS), in terms of the Standards Act, Act 30 of 1982.
- 5.2. The methods of analysis shall not be changed prior to notification and written approval by the Minister or delegated nominee.
- 5.3.1 The impact of activities of Zandvliet Wastewater Treatment Works on the surface water resource must not exceed the following reserve requirements for the water quality component of the surface water reserve for the area:

Variable (mg/l)	Limit
Sodium (mg/l) ¹	<200
Magnesium (mg/l) ¹	<100
Chloride(mg/l) ¹	<200
Calcium(mg/l) ¹	<80
Sulphate(mg/l) ¹	<400
Phosphate(mg/l) ²	<0.06 mg/l
Total inorganic Nitrogen(mg N/l) ²	<8.02 mg/l
pH (range)	>6.5 < 8.0
Major inorganic salts	
MgSO ₄ (mg/l)	<16
Na ₂ SO ₄ (mg/l)	<20
MgCl(mg/l)	<15
CaCl ₂ (mg/l)	<21
NaCl(mg/l)	<191.01
CaSO ₄ (mg/l)	<351
¹ : 95 th percentile compliance ² : 50 th percentile compliance	

6. REPORTING

- 6.1. The information required in terms of condition 3.2.1, 3.4 and 4.1.2 of Annexure II shall be submitted monthly to the Regional Head, under reference 16/2/7/G203/D29/X7.
- 6.2. The information required in terms of condition 3.1.1 and 3.1.2 of Annexure II shall be submitted biannually to the Regional Head, under reference 16/2/7/G203/D29/X7.
- 6.3. Information submitted must be graphically illustrated to indicate the fluctuation trends for compliance with the effluent standards.



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- 6.4 The occurrence of any incident which causes or may cause water pollution shall immediately be reported to the Regional Head.

7. STORMWATER MANAGEMENT

- 7.1 Storm water leaving the Licensee's premises shall in no way be contaminated by any substance, whether such substance is a solid, liquid, vapour or gas of a combination thereof which is produced, used, stored dumped or spilled on the premises.
- 7.2 Increased runoff due to vegetation clearance and soil compaction must be managed, and steps must be taken to ensure that storm water does not lead to bank instability and excessive levels of silt entering the streams.
- 7.3 The Licensee shall ensure that no stormwater will ingress into the sewage system and that no sewage will ingress into the stormwater system.
- 7.4 Wastewater impoundments must be designed, constructed and managed to ensure that there is sufficient capacity to contain the 1:50 year flood event, with a minimum of 0.8 m freeboard. Freeboard will be defined as the difference between the water level and the crest of the overflow.
- 7.5 Waste water systems must be properly maintained on a continuous basis.
- 7.6 Stormwater shall be diverted from the impoundments and roads and shall be managed in such a manner as to disperse runoff and to prevent the concentration of the stormwater flow.

8. OPERATION OF THE WASTE WATER TREATMENT WORKS

- 8.1 The waste water treatment works shall be supervised and controlled by a suitably qualified and experienced employee of the Licensee who shall have under his control an adequate number of operators who have been classified in terms of Regulation 2834 dated 27 December 1985 (or any update thereto) and in terms of section 26 of the Act, to ensure proper functioning of the works and processes at all times.
- 8.2 Suitably qualified and experienced mechanical and electrical artisans shall be available to be called in for inspection and maintenance of the works.
- 8.3 No abattoir waste such as blood or paunch content, or any other waste, which may deleteriously affect the efficient functioning of the works or final water containing waste, shall be received in the waste water treatment works.

8.4 Malfunctions

- 8.4.1 Accurate and up-to-date records shall be kept of all system malfunctions resulting in effluent disposal not in accordance with the requirements of this licence. The records shall be available for inspection by the Regional Head upon request. Such malfunctions shall be tabulated under the following headings with a full explanation of all the contributory circumstances:

- 8.4.1.1 operating errors;
- 8.4.1.2 mechanical failures (including design, installation or maintenance);
- 8.4.1.3 environmental factors (e.g. flood);
- 8.4.1.4 loss of supply services (e.g. power failure); and
- 8.4.1.5 other causes.

8.5 Fencing, notices and drains

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- 8.5.1 The sites of the waste water treatment works, pond system and drying beds, shall be adequately fenced to prevent entry of animals and unauthorised persons.
- 8.5.2 Notices manufactured of durable weatherproof material prohibiting unauthorised entry and warning against the use of water containing waste for drinking and washing purposes shall be displayed at prominent places along all fences and at entrance gates. Such notices shall be worded in the official languages applicable in the area.
- 8.5.3 Cut-off drains shall be provided around the waste water treatment works to prevent storm-water ingress into the surrounding of the works. These drains shall be designed to contain the maximum runoff, which could be expected over a period of 24 hours with a frequency of once in every 20 years.

8.6 Pipelines

- 8.6.1 The pipelines used for the conveyance of water containing waste shall be painted in a conspicuous colour or manufactured of a coloured material distinctly different from the colour of the pipelines in which drinking water is flowing to avoid the possibility of any cross-connections of the different pipelines.
- 8.6.2 All stop-valves and taps on the pipelines conveying water containing waste shall be of a type that can be opened and closed by means of a loose wrench. This wrench shall be in the safekeeping of a responsible member of the staff to prevent unauthorised use thereof.
- 8.6.3 Notices manufactured of a durable weatherproof material warning against the use of water containing waste for drinking and washing purposes shall be displayed at prominent places where the waste is being reused and at all taps. Such notices shall be worded in the official languages applicable in the area.

9. PUMPSTATIONS

- 9.1 The Licensee shall design all new pump stations in such a manner that environmental and health risks due to the discharge of untreated sewage into water resources are kept to a minimum.
- 9.2 No new pump stations will be allowed within the 1:100 year floodline.
- 9.3 The Licensee shall develop and implement a scheduled monitoring and maintenance plan for all sewage pump stations and manholes under its control.
- 9.4 All pump stations shall have an emergency containment facility with sufficient capacity to ensure untreated effluent retention up to a 24-hour period.
- 9.5 The Licensee must supply the co-ordinates of all the pump stations in the area of jurisdiction before the first review of the Licence

10. MANHOLES

- 10.1 The Licensee shall ensure that:
- 10.2 Manholes are covered at all times with a suitable cover that can not be removed by unauthorised persons;
- 10.3 Manhole covers of a material that is less prone to theft are used.

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- 10.4 No new WWTWs lines and manholes shall be constructed within the 1:100 year flood line; and
- 10.5 Existing WWTWs lines and manholes situated within the 1:100 year flood lines shall be sealed adequately to ensure minimal ingress of water during any rainfall event.

11. EXTERNAL AUDIT

- 11.1 An external auditor must perform annual auditing of the performance of the works.
- 11.2 The reports generated by the auditors must be submitted to the Regional Head by the end of March every year.

12. GENERAL

- 12.1 No intractable or toxic waste shall be allowed to find its way into the sewage purification works and/or be discharged with the final waste. The Licensee shall take all steps possible to prevent discharge of any substance into the sewers, which could have a deleterious effect on the operation of works and/or final waste.
- 12.2 As built design drawings of the WWTWs must be submitted to the Regional Head within a year from the date of issuance of this licence, for approval.

13. SITE SPECIFIC CONDITIONS

- 13.1 Activities that may result in significant adverse effects on instream and riparian habitat should be avoided where less environmentally harmful alternatives are available. Less environmentally harmful alternatives must therefore be provided. Should none of these alternatives deem feasible, environmentally sound engineering and management practices should be employed for all actions which may adversely affect the instream and riparian habitat.
- 13.2 Water containing waste or effluent must be treated to comply with the water quality requirements specified in the General standards as published in Government Notice 991 of 18 May 1984, and the Reserve.
- 13.3 Any sludge removed from the sewage treatment plant shall be quantified, analysed, classified and managed according to the requirements of chapter 5 of the National Environmental Management: Waste Act, 2008 (Act 59 of 2008) and the Guideline for the Utilization and Disposal of Wastewater Sludge (volumes 1 – 5), dated March 2006 and any updates thereafter, to the satisfaction of the Regional Head
- 13.4 Wastewater sludge or any other solid waste from WWTWs may be alienated for utilisation or disposal thereof, only in terms of a written agreement and provided that the responsibility for complying with the requirements contained in this licence is accepted by the licensee and such other party, jointly or separately.
- 13.5 Measures should be implemented to re-use water containing waste or appropriate technological treatment options investigated and implemented.

13.6 River Health Monitoring

- 13.6.1 An Aquatic Scientist approved by the Regional Head must establish a monitoring program approved by the Regional Head within the river systems surrounding the Zandvliet WWTWs to assess river health indices, within six months of receipt of this licence. Sampling shall be done once during summer season and once during the

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winter season, annually to reflect the status of the river systems. The results must be submitted to Regional Head, under reference 16/2/7/G203/D29/X7.

13.7 Testing for Toxicity

- 13.7.1 Toxicity testing is to be performed on the water containing waste in order to determine the risk to the receiving environment.
- 13.7.2 Any data gathered in an investigation must be reported annually during March of each year to the Regional Head.
- 13.7.3 If any toxicity levels as specified are exceeded, the Licensee must institute an investigation to determine the cause of toxicity

13.8 Introduction of Direct Estimation of Ecological Effect Potential (DEEEP)

The Licensee shall participate in an initiative such as DEEEP to determine the toxicity of complex water containing waste. Both acute and chronic toxicity must be addressed and at least three taxonomic groups must be present when toxicity tests are performed.

13.9 Section 21(e) of the Act: engaging in a controlled activity identified as such in section 37(1) or declared under section 38(1) – irrigating with wastewater

- 13.9.1 The licensee must submit a section 21(e) application for engaging in a controlled activity identified as such in section 37(1) or declared under section 38(1) – irrigating with wastewater; to the Department of Water Affairs, if this water use is currently in practice or would be considered in future and the following conditions should be taken into consideration:
 - 13.9.1.1 Activities that may result in significant adverse effects on instream and riparian habitat should be avoided. Less environmentally harmful alternatives must therefore be provided as an alternative. Should none of the alternatives deem feasible, environmentally sound engineering and management practices should be employed for all actions which may adversely affect the instream and riparian habitat.
 - 13.9.1.2 The soil type of the land to be irrigated must be determined, purely because soils of the poorly drained classes are seldom suitable for waste application unless some form of artificial drainage is installed. If waste water applications are limited by drainage conditions, then the water has to be applied in small amounts at very frequent intervals.
 - 13.9.1.3 Activities that lead to elevated levels of turbidity must be minimized. The use of a proper irrigation method could limit soil erosion and the subsequent sediment transport to surface water with excess runoff, i.e., drip and sprinkler irrigation instead of furrow irrigation.
 - 13.9.1.4 There should be a buffer zone that prevents any irrigation within the 1: 100 year flood line or within a 100 meter horizontal distance from a water course (whichever one is furthest). Alternatively, the applicant can build attenuation dams that will prevent or minimize the waste water runoff from seeping into the water resource.
 - 13.9.1.5 Invasive alien vegetation that may arise especially due to the waste water irrigation activity should be prevented at all cost.



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13.10 Section 21 (g) of the Act: disposing of waste in a manner which may detrimentally impact on a water resource;

13.10.1 The Licensee must submit an application to the Department of Water Affairs for the Section 21(g) water use, which is for disposing of waste in a manner which may detrimentally impact on a water resource within six (6) months from the date of issuance of this licence. The following conditions should be taken into consideration:

13.10.1.1 The Licensee shall conduct and complete a groundwater investigation study to determine the impact and any mitigating actions that could be required, this should include a hydro census study which must cover an area of 2km radius and a groundwater monitoring plan that should be submitted to the Regional Head within six (6) months from the date of issuance of this licence.

13.10.1.2 The Licensee must ensure that all activities that might have impact on groundwater be managed and included in the monitoring network.

[END OF LICENCE]





This is to certify that

Zandvliet

Owned By

City of Cape Town Metropolitan Municipality
Western Cape

has been registered in terms of Regulation 3630 as per the Water
Services Act (Act 108 of 199) as a

Class A

[100]

for the operation of water care works used for the purification,
treatment or disposal of effluent.

Director-General:Water & Sanitation

2025-03-12

Date of issue



This certificate is issued without alteration or erasure of any kind



water & sanitation
Department
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

APPENDIX B - EXCLUSIONS**B1 EXCLUSIONS**

- B1.1 The Contractor shall not be liable for the cost of off-site sludge transport and disposal. CCT shall provide this service as provided by the Sludge Disposal Contract.
- B1.2 The Contractor shall not be liable for Municipal Rates relating to the site and or property.
- B1.3 The Contractor shall not be responsible for the Insurance of the CCT's Assets, nor their Third Party, SASRIA and other insurance requirements. Unrecovered claims, excesses and deductibles of any claim for any damages shall be for the CCT's account, unless it is clearly established that such damages arose from the negligence or wilful acts of the Contractor, who shall then be liable for such reasonable excesses or deductibles only.
- B1.4 The Contractor's maintenance obligations for the maintenance, repair and replacement of the any future extension or upgrade of the ZWWTW implemented by CCT shall come into force and effect on the date the entire extension or upgrade has been finally commissioned by the CCT's construction contractor, and has been accepted as complete and taken over by CCT, subject to:
- B1.4.1 the extension or upgrade meeting all its designed performance specifications;
 - B1.4.2 the exclusion of any remedial, repair or replacement requirements attributable to, or being the responsibility of the CCT's construction contractor during its construction maintenance period, contractual warranties and defects liabilities
 - B1.4.3 all plant, equipment and components being deemed to have a life expectancy equal to that specified by the original equipment manufacturers (OEM's) from the date of the CCT taking over the same
- B1.4 The Contractor shall not be liable for the replacement of MBR membranes, as the City will execute this through its Capital Works programme or an outsourced contract.

If it is established that any membrane cassette is irreparably damaged by the negligence or wilful acts of the Contractor, the Contractor shall be liable for its share of the replacement costs, being the shortfall in the OEM warranty (normally 8 to 11 years life expectancy) of the membranes and the actual life achieved up to the replacement date.

APPENDIX C – PERFORMANCE CRITERIA AND PENALTIES**C1 PENALTIES****C1.1 Penalties**

In accordance with clause 25 of the SCC, if CCT's Performance Compliance values are not met, as set out here below, a financial penalty shall be imposed on the Contractor. The Guarantee Reference Number, Specific Test Standard and Name, and Penalty are shown below in Table C1:

Table C1: Penalties associated with Performance Compliance Criteria (refer 5.2.2.2)

Guarantee Reference No.	Specific Test Standard and Name	Requirement	Penalty (R)
G1	COD	Per mg/l above Guarantee value per day (or part of a day)	R90
G2	TSS	Per mg/l above Guarantee value per day (or part of a day)	R120
G3	Ammonia-Nitrogen (as N)	Per mg/l above Guarantee value per day (or part of a day)	R840
G4	Orthophosphate (as P)	Per mg/l above Guarantee value per day (or part of a day)	R840
G5	Nitrate (as N)	Per mg/l above Guarantee value per day (or part of a day)	R840
G6	Chloride (as Cl)	Per mg/l above Guarantee value per day (or part of a day)	R840
G7	Residual Chlorine (as Cl)	Per mg/l above Guarantee value per day (or part of a day)	R8 400
G8	<i>E. coli</i>	Above Guarantee value per day (or part of a day)	R8 400
G9	<i>pH</i>	Outside pH range per day (or part of a day)	R840
G10	Reliability – Inlet SCADA and Associated Process control equipment	Downtime greater than Guarantee value per financial year	R530 000
G11	Reliability – Inlet Trash Max system	Downtime greater than Guarantee value per financial year	R950 000
G12	Reliability – Inlet Screw systems	Downtime greater than Guarantee value per financial year	R950 000
G13	Reliability – Course screw systems	Downtime greater than Guarantee value per financial year	R950 000
G14	Reliability – Inlet Fine Screens and associated plant systems	Downtime greater than Guarantee value per financial year	R950 000

G15	Reliability – Inlet Screen Washing systems	Downtime greater than Guarantee value per financial year	R950 000
G16	Reliability – Inlet Grit Removal, Washing & Classifying systems	Downtime greater than Guarantee value per financial year	R950 000
G17	Reliability - Inlet Upper Screw pump systems	Downtime greater than Guarantee value per financial year	R950 000
G18	Reliability - Primary Treatment systems	Downtime greater than Guarantee value per financial year	n/a
G19	Reliability – Secondary Treatment (CAS) SCADA and associated process control equipment	Downtime greater than Guarantee value per financial year	R210 000
G20	Reliability – Secondary Treatment (CAS) Activated Sludge system	Downtime greater than Guarantee value per financial year	R420 000
G21	Reliability – MBR Treatment, SCADA and associated Process Control equipment	Downtime greater than Guarantee value per financial year	R420 000
G22	Reliability – MBR Fine Screen system	Downtime greater than Guarantee value per financial year	R420 000
G23	Reliability – MBR A Membrane Reactor system	Downtime greater than Guarantee value per financial year	R420 000
G24	Reliability – MBR B Membrane Reactor system	Downtime greater than Guarantee value per financial year	R420 000
G25	Reliability – MBR Pump Station system	Downtime greater than Guarantee value per financial year	R420 000
G26	Reliability- Chlorination System	Downtime greater than Guarantee value per financial year	R1 360 000
G27	Reliability – Liquor Return Pumping system	Downtime greater than Guarantee value per financial year	R950 000
G28	Reliability – Polymer Preparation Plant system	Downtime greater than Guarantee value per financial year	R950 000
G29	Reliability – Primary Belt Press system	Downtime greater than Guarantee value per financial year	R690 000
G30	Reliability – WAS Belt Press system	Downtime greater than Guarantee value per financial year	R690 000
G31	Primary Thickened Sludge (Per cent Dry Solids)	Per Percentage dry solids below Guarantee value per day (or part of a day)	R340
G32	Secondary Thickened Sludge (Per cent Dry Solids)	Per Percentage dry solids below Guarantee value per day (or part of a day)	R 340

Remarks

The Penalties will not be applied where the non-compliance is beyond the reasonable control of the Contractor and if the Works, or relevant portion, as designed, is incapable of meeting the compliance requirements.

For G1 to G9 the weekly 24-hour composite samples (as defined in Appendix E3) shall represent the Contractors operational performance with respect to the imposition of financial penalties. Upon being informed by CCT's laboratories of failure, the Contractor shall be allowed to submit spot (or grab samples) daily until the sample complies with the requirements stated within the Schedule of Guarantees in Appendix B. The Contractor shall note G1 to G9 and G31 & G32 shall be imposed daily (or part of a day).

All penalties are cumulative (that is a failure for TSS shall not exclude the COD penalty, etc).

Reliability penalty shall be assessed and imposed at the end of CCT's financial year.

Downtime for each item of Assets shall be defined as the number of hours that item of Assets will be out of service for both planned and unplanned maintenance activities.

Guarantees G1 and G3 shall be escalated as the increases volume and the electricity price.

Guarantee G2 shall be escalated as CCT's sludge disposal rate.

Guarantees G6 and G7 shall be escalated as per the Chlorine Cost Index.

Reliability Guarantees (G10 – G30 (inclusive)) shall be escalated as per the Production Price Index (all groups).

Guarantee G31 & G32 shall be escalated as per City's sludge disposal rate.

C1.2 Escalation

The increase in cost of the Performance Compliance Criteria shall be as shown below in Table C2:

Table C2: Method of escalation of penalties

Guarantee	Escalation
G1 & G3	$V_1/V_0 \times E_1/E_0$
G2	SC_1/SC_0
G5 & G6	C_1/C_0
G10 – G30 (inclusive)	P_1/P_0
G31 & G32	SC_1/SC_0

where

V_0	Volume of influent per day at Agreement commencement (99 Mℓ/ d)
V_1	Volume of influent on specific day of failure
E_0	Electrical Cost per day at Agreement commencement
E_1	Electrical Cost on specific day of failure
C_1	Chlorine Cost Index on specific day of failure
C_0	Chlorine Cost Index at Agreement commencement
P_1	Production Price Index (all groups) on specific day of failure
P_0	Production Price Index (all groups) at Agreement commencement

SC ₀	City Cost of Sludge Transport and Disposal Contract at Agreement commencement
SC ₁	City Cost of Sludge Transport and Disposal Contract on specific day of failure

The base date for the indices, subscript ₀, shall be the tender close date.

C2 PERFORMANCE CRITERIA

The Contractor shall at all times through the Contract have sufficient personnel, plant and equipment together with the necessary Support Resources to respond, 24 hours a day for 365 days a year, to any non-conformance or emergency within the response times scheduled below:

Performance Criteria Reference Number	Event	Response Time	Penalty (R) subject to the maximum in C1.1 above
PC1	Service disruptions affecting the whole of the works	2 hours	R2000 per hour after the 2-hour response time
PC2	Service disruptions affecting less than 30% of the works performance	4 hours	R1000 per hour after the 4-hour response time

In the case of unplanned maintenance and emergencies, system failures, events beyond the control of the Contractor, as well as the lead times for repairs or replacement of equipment as required by the OEMs and or suppliers, reasonable consideration shall be given to a corresponding increase in the response time will be granted by the Employer.

APPENDIX D – CONSUMPTION DATA

E1 RAW SEWAGE INFLOWS

The historical volumes and characteristics of the Raw Sewage influent received at the Head of Works shall be provided at the compulsory site inspection.

A copy of the tenderer's process simulation must be attached to this schedule for assessment by CCT. Where this shows fundamental flaws in a Tenderer's understanding or assumptions on the process flows, that Tenderer's tender may be declared invalid, at CCT's sole discretion.

Whilst the primary settling tanks may strip out some of the loading onto the CAS & MBR streams, Tenderer's must ensure that there is adequate loading available to the latter so as to achieve their designed performance requirements. CCT does not wish to overload the PST's to the detriment of the CAS and MBR streams, as well as avoiding generating disproportional PST sludge volumes.

E2 ELECTRICITY

The schedule of installed electrical equipment is attached overpage. CCT has provided this information in good faith, but shall not be liable for any missing or inaccurate data.

Tenderer's must carry out their own assessment and modelling for electrical power usage over the contract, for incorporation in the R/kl rate for Electricity. A copy of the model must be attached to this Appendix for assessment by CCT. Where CCT believes that a Tenderer's resultant R/kl may be too low, CCT at its sole discretion, may declare that Tenderer's tender invalid.

Notwithstanding the above, the successful Tenderer shall carry the full risk and cost of any shortfall or error in its tendered R/kl for electricity, with no recourse to CCT in this regard.

Tenderer's shall make use of the prevailing Eskom "Local Authority Municflex Tariff" energy tariffs at the tender close date. These are available from Eskom's website or from the NERSA, the electricity regulator.

E3 CHEMICALS

Tenderer's must make their own evaluation of types of chemicals, consumptions and costs for incorporation in their tendered rates including for, but not limited to:

- odour control
- pre-chlorination and final disinfection
- PST sludge belt presses
- WAS sludge belt-presses
- MBR membrane maintenance chemicals, as per the OEM's requirements
- cleaning chemicals
- mould control
- weed control
- laboratory chemicals and reagents
- pest control (rats, moles etc)

No claims or adjustment to rates will be accepted by CCT for any errors or shortfalls in the successful tenderer's assumptions.

APPENDIX D2 – ENERGY CONSUMPTION DATA

INSTALLED POWER - ENTIRE WORKS

The following schedule has been provided by CCT as a guide to Tenderers.

Tenderers must make their energy consumption assessments and calculations of the kWh and kVA Demand and Access charges for inclusion in their rates covering the duration of the Contract. Tenderers must submit a detailed energy model with their tender to enable CCT to assess its validity and viability.

CCT shall not be held liable for the correctness of this information and how it is applied by the successful Tender in developing its rates, and the successful Tenderer shall have no right or recourse to adjust its rates nor submit any claim whatsoever arising therefrom.

A: ZANDVLIET WWTW

Lower Screw Pump Station + Inlet Works				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Main Line Actuated Sluice gates	5,0	DOL	4	0
Inlet Actuated Sluice gates	3,0	DOL	6	0
Trash Max Screens	2,2	VSD	3	1
Trash Rack Clamshell Crane	7,5	DOL	1	0
Trash Rack Screen Hoist	0,4	VSD	1	0
Trash Rack Belt Conveyor	3,0	DOL	1	0
Screw Actuated Sluice gates	1,5	DOL	5	0
Screw Pumps	185,0	SS	4	1
Oil Pot Pumps	1,5	DOL	8	2
Perforated Plate screen & Drive	2,2	VSD	5	0
Screen Actuated Sluice gates	1,5	DOL	5	0
Course Screens	1,5	VSD	5	1
Course Screens Compactor	5,5	DOL	2	1
Course Screens Washer	6,0	DOL	2	1
Course Screen Actuated valves	1,5	DOL	1	0
Course Screen Solenoid valves	0,1	DOL	6	0
Fine Screen Actuated Sluice gates	0,8	DOL	5	0
Fine Screens	1,5	VSD	4	1
Brush Drive Fine Screens	2,2	VSD	4	1
Fine Screens Compactor	5,5	DOL	2	0
Fine Screens Washer	6,0	DOL	2	0
Fine Screens Crane	13,2	DOL	1	0
Bull Gear (Degritters)	1,5	DOL	4	0
Pump (Degritters)	11,2	DOL	4	0
Degritter Actuated sluice gates	1,4	DOL	9	0
Degritter Actuated sluice gates	0,7	DOL	3	0
Degritter Actuated valves	0,2	DOL	4	0
Grit Classifier - paddle	1,5	DOL	4	0
Grit Classifier - pump	0,8	DOL	4	0
Grit Classifier - conveyor	1,5	DOL	4	0
Grit Classifier - compressor	11,2	DOL	2	0
Actuated Drain Valves	0,1	DOL	4	0
Activated diversion gate	0,8	DOL	4	0

Activated Sluice gate-overflow	0,7	DOL	3	0
Skip Dolleys	1,1	DOL	4	0
Odour Control Units	4,2	DOL	2	0
Blower-Odour control	7,5	DOL	4	0
S&L Compressor	11,2	DOL	2	0
Various Actuators	0,8	DOL	24	0
Area & Building Aircons (total)	6,7		2	0
Area & Building Lighting	4,9		1	0
Panels	35,0		1	0
UPS	25,0		2	0
Generator (1260kVA)	1 008,0		1	0

Primary Settling tanks

Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Bridge Motors	0,2	DOL	8	0
Primary Sludge Pumps	18,5	VSD	2	1
Gland Leakage Pumps	0,9	VSD	1	0
Primary Macerator	2,2	DOL	1	0
Actuated sluice gates	1,4	DOL	4	0
Actuated valves	0,8	DOL	4	0
Area & Building Aircons	2,2		2	0
Area & Building Fans (total)	1,1		1	0
Area & Building lighting (total)	2,2		1	0
Panels	10,0		1	0
UPS	10,0		1	0

Primary Sludge Pump Station

Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Pumps 1&2	18,5	DOL	2	1
Pump Fans	0,8	VSD	2	1
Gland Leakage (sump pump)	0,9	VSD	1	0
Macerator	2,2	DOL	1	0
Actuated valves	0,2	DOL	4	0
Crane complete	5,2		1	0
Area & Building Aircons	2,2		2	0
Area & Building Fans	1,1		1	0
Area & Building lighting (total)	2,2		1	0
Panels	15,0		1	0
UPS	20,0		1	0

Dewatering Plant				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Primary Cyclone	15,0	DOL	1	0
Hydraulic Power Packs	1,1	DOL	10	2
Belt Drives	5,5	VSD	10	2
Linear Screen Drives	2,2	VSD	6	1
WAS Feed Pumps	22,0	VSD	6	1
WAS Feed Pumps	22,0	VSD	6	1
WAS motor cooling	0,2	VSD	6	1
Primary Feed Pumps	15,0	VSD	4	1
Primary motor cooling	0,2	VSD	4	1
Primary Recirc. Pumps	37,0	DOL	2	1
Primary Poly Feed Pumps	1,5	VSD	4	1
Primary Cyclone	15,0	VSD	1	0
Primary Degritted Pumps	7,5	DOL	2	1
Grit Classifier	1,5	DOL	1	0
Grit stirrer	0,6	DOL	1	0
Grit screw conveyor	1,5	DOL	1	0
Grit Skip Dolly	1,1	DOL	1	0
Primary Feed Pumps	15,0	DOL	4	1
Actuated valves Feed	0,8	-	4	0
Actuated valves Recirc	0,2	-	13	0
Hoist	3,4	DOL	1	0
Poly Blowers	1,8	VSD	4	0
Poly Vibrators	0,2	VSD	8	2
Dust Extractors	11,0	VSD	1	0
Poly Blower	1,8	DOL	4	0
Poly Tank Mixers	1,1	DOL	2	0
Poly Mixers	0,8	DOL	4	0
Poly Heaters	1,0	DOL	4	0
Poly Rotary Vane Feeders	0,3	DOL	4	0
Poly solenoid valves	0,1	DOL	4	0
Poly actuated valves	0,1	DOL	4	0
Poly Feed pumps	1,6	DOL	10	2
Poly Lube Pumps	0,9	VSD	3	0
Poly actuated valves	0,1	DOL	23	19
Primary Belt drives	5,5	-	4	1
Primary hydraulic pack	1,1	-	4	1
Primary Filtrate Pumps	15,0	DOL	2	0
Crane	13,2		3	0
Primary Screw Conveyors	7,5	DOL	2	0
Primary Cake motors	6,5	DOL	6	0
Primary Cake Pumps & cooling	55,1	VSD	3	0
Primary Cake silos	5,5	VSD	4	0
Primary Cake bridge breakers	0,2	VSD	6	0
Primary Silo Discharge Screws	7,5	DOL	4	0
Primary solenoid valves	0,1	DOL	4	0
Pesticide dosing pump	0,2	DOL	1	0
Pesticide stirrer	0,6	DOL	1	0
Compressor & Dryer	5,5	DOL	2	1
WAS Holding Aerators	37,0	SS	6	0
WAS Holding Telescopic valves	4,0	SS	2	0

WAS Feed pumps & cooling	22,2	VSD	6	1
WAS Actuated Valves	0,2	VSD	18	0
WAS Extraction Fans	3,3	VSD	4	0
WAS Extraction Fans	5,5	VSD	5	0
WAS linear drives	2,2	-	6	1
WAS belt drives	5,5	-	6	1
WAS hydraulic pack	1,1	-	6	1
WAS Screw Conveyors	7,5	DOL	2	0
WAS Poly Feed Pumps	1,5	VSD	6	1
WAS Screw Conveyors	7,5	DOL	2	0
WAS Cake Pumps & Cooling	55,2	VSD	3	1
WAS Silo Discharge screws	5,5	DOL	4	0
WAS Silo bridge breakers	0,2	DOL	4	0
WAS Filtrate Pumps	55,0	SS	3	1
WAS Filtrate Crane	15,7	SS	1	0
Actuated valves/gates WAS	0,2	-	9	0
WAS Filtrate Extraction Fan	5,5	-	1	0
Service Water Pumps	75,0	VSD	4	1
Service Water Drain Pumps	2,2	-	1	0
Service Water Compressor & cooling	2,2	VSD	1	0
Service Water Crane	4,5	-	3	0
scum pumps to WAS holding	1,1	-	6	1
Actuated valves other	0,2	-	15	1
Odour Control	5,0	DOL	1	0
H-VAC	7,0	DOL	1	0
FANS - Extraction	0,3	DOL	8	0
Area & Building Aircons	6,7	DOL	4	0
Service water MCC Aircons	2,2	DOL	2	0
Area & Building Lighting	5,7		1	0
Generator (2030kVA)	1 624,0		1	0
Panels	35,0		1	0
UPS	5,0		10	0

Upper Screw Pump Station				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Screw Pumps	185,0	SS	5	1
Oil Pot Pumps	1,5	DOL	10	2
Various Actuators	10,0	DOL	1	0
Activated Sluice gate	1,5	DOL	5	0
Crane motors x 2	2,6	DOL	2	0
Odour Control Units	4,2	DOL	1	0
Area & Building Aircons (total)	56,0		2	0
Fans	11,0		1	0
Generator (1260kVA)	1 008,0		1	0
Lighting	9,5		1	0
Panels	20,0		1	0
UPS	30,0		1	0
CAS Plants A & B				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Aerators (90 kw)	90,0	VSD	6	0
Aerators (75 kw)	75,0	VSD	10	0
Aerators (55 kw)	55,0	VSD	4	0
Submersible Mixers	7,7	DOL	16	0
Lifting Davits	2,3	DOL	16	0
Activated Sluice gates	2,3	DOL	2	0
AE-AX Recycle Pumps	22,0	VSD	6	2
Crane	3,0	DOL	1	0
RAS Pumps	40,0	VSD	4	0
Telescopic actuated valves	0,8	-	8	0
WAS Pumps	3,0	DOL	4	0
Crane	3,0	DOL	2	0
Lifting Davits	1,5	DOL	2	0
SST Bridges	0,2	DOL	24	0
Telescopic actuated valves	0,8	-	8	0
SST Scum crane	3,0	DOL	1	0
SST Scum submersible pump	3,7	DOL	2	0
Central WAS Pumps	30,0	DOL	2	0
Central WAS Macerator	4,0	DOL	1	0
Scum pumps	3,7	DOL	2	0
Cranes	3,0	DOL	2	0
Compressors	5,5	DOL	2	0
Airlift Blowers	18,0	DOL	1	0
Actuated Sluice gates	0,8	DOL	12	0
Actuated tilting weirs	5,5	DOL	4	0
PLC Power Supply	55,0		2	0
Area & Building Aircons (total)	5,2		6	0
Area & Building Lighting	38,1		1	0
Generator (980 kVA)	712,0		1	0
Generator (1030 kVA)	824,0		1	0
Panels	35,0		1	0
UPS	10,0		4	0

Chlorination & Contact Tanks				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Air compressors	7,5	DOL	2	1
Heaters	0,4	DOL	6	0
Extractor Fans	0,8	DOL	6	0
High Pressure Fans	0,8	DOL	4	0
Actuated louvres	1,1	DOL	5	0
Dry Scrubber Blower	15,0	DOL	1	0
Multi-stage booster pumps	11,0	DOL	3	0
Actuated Sluice gates	0,8	DOL	2	0
Travelling Crane	4,1		3	0
Area & Building Aircons (total)	1,1		1	0
Panels	10,0		1	0
UPS	15,0		1	0
MBR Fine Screens				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Splitter actuator	0,6	DOL	1	0
sluice gate actuator	0,4	DOL	6	0
Fine Screen Motor	0,6	DOL	6	1
Fine Screen Screw Conveyor	1,5	DOL	6	1
Common Screw Conveyor	3,0	DOL	2	1
Common Screw Compactor	4,0	DOL	2	1
Sump pump	2,4	DOL	1	0
Various Valves feeders etc	0,2	DOL	18	0
Gantry	5,0	DOL	1	0
Skip Dolly	0,6	DOL	2	0
Blower	5,0		1	0
Odour Control	4,2		1	0
Area & Building Aircons	5,2		2	0
Area & Building lighting (total)	5,6		1	0
Panels	10,0		1	0
UPS	15,0		1	0

MBR Pumpstation				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Pumps	55,0	VSD	4	0
Pump cooling	0,8	DOL	4	0
Sump pump	2,2	DOL	1	0
Actuated Valves	1,6	DOL	5	0
Actuated Valves	0,8	DOL	4	0
Crane travel, traverse, hoist	16,2	VSD	1	0
Various Valves feeders	8,0	DOL	1	0
Area & Building Aircons	2,8		2	0
Area & Building lighting (total)	5,6		1	0
Panels	15,0		1	0
UPS	20,0		1	0
MBR-A Plant				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Actuated sluice gates	0,5	DOL	9	0
Membrane Feed Pumps	55,0	VSD	3	0
Membrane Flash Mixer	2,2	DOL	1	0
Membrane Tank Drain Pumps	15,0	VSD	2	0
Membrane Actuated sluice gates	0,4	DOL	15	0
Membrane tank portal Crane	5,5	VSD	1	0
Permeate Analysers	1,5	DOL	3	0
Recycle Mixers	7,0	DOL	2	0
Sample Sump pump	0,1	DOL	1	0
Anaerobic Mixers	5,5	DOL	6	0
Anoxic Mixers	7,5	DOL	6	0
AX-AN Recycle Pumps	2,5	VSD	2	0
Aerobic activated sluice	0,8		1	0
Aerobic actuated valves	0,8	VSD	6	0
AE-AX Recycle Pumps	7,0	VSD	2	0
Aerobic scum pump	7,0	VSD	1	0
Filtration gantry crane	8,2	VSD	1	0
Filtration activated valves	0,2		6	0
Filtration solenoid valves	0,1		6	0
Permeate pumps	45,0	VSD	6	0
Permeate solenoid valves	0,1		6	0
WAS Pumps	7,5	VSD	2	0
WAS Scum Pumps	18,5	VSD	2	0
Membrane Tank Drain Pumps	15,0	VSD	2	0
Membrane solenoid valves	0,1		1	0
Air Scour Blowers	132,0	VSD	3	1
Air Scour gantry	7,0	VSD	1	0
FBDA Blowers	200,0	VSD	3	1
FBDA Blower Fans	4,0	VSD	6	2

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FBDA Ventilation Fans	5,5	VSD	9	0
FBDA Actuated Valves	0,1	VSD	4	0
Membrane Tank Drain Pumps	45,0	VSD	2	0
Citric Acid Bag unloader	1,9	DOL	1	0
Citric Acid mixer	0,6	DOL	1	0
Citric Acid dosing	0,6	DOL	3	2
Citric Acid vibrator + Conveyor	1,9	DOL	1	0
Citric Acid dust collection	0,8	DOL	1	0
Citric Acid Fan	0,8	DOL	1	0
Sodium Hypo Vent Fans	0,8	VSD	7	0
Sodium Hypo dosing	0,6		4	0
Sodium Hypo scum pumps	0,1		2	0
Sodium Hypo solenoid valves	0,1		7	0
Instrument Air compressors	7,5	DOL	2	0
Desicant Dryers	0,3	DOL	2	0
Instrument Solenoid valves	0,1	DOL	4	0
Service water pumps	11,0	VSD	4	1
Overhead gantry	8,2	VSD	1	0
Vacuum pumps	0,1	VSD	6	0
HVAC	12,0	DOL	5	0
Air compressors	18,5	DOL	2	0
Ventilation Fans	5,5	DOL	2	0
High Mast Lights	4,0		20	0
Generator (1600 kVA)	1 280,0	-	1	0
Panels	45,0		1	0
UPS	15,0		6	0

MBR-B Plant				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Anaerobic Mixers	2,2	DOL	12	0
Inlet actuated sluice gates	0,6	DOL	3	0
Outlet actuated sluice gates	0,4	DOL	3	0
Drain pumps	0,5	DOL	3	0
Anoxic Mixers	4,0	DOL	12	0
AX-AN Recycle Pumps	2,5	VSD	9	3
Drain pumps	0,5	DOL	3	0
Knife gate actuated valves	0,5	DOL	3	0
Outlet actuated sluice gates	0,4	DOL	3	0
Scum outlet actuated sluice gates	0,6	DOL	3	0
Actuated globe valves	0,5	DOL	20	0
Membrane Feed Pumps	20,0	VSD	9	1
Actuated sluice gates	0,6	DOL	1	0
Rotating Scum skimmer	1,1	DOL	1	0
Travelling Crane	7,6	-	1	0
Ventilation Fans	5,5	DOL	3	0
Drain pumps	18,5	DOL	3	0
AE-AX Recycle Pumps	7,5	VSD	9	3
ML channel actuated sluice gates	1,1	DOL	1	0
ML recycle actuated sluice gates	0,6	DOL	3	0
ML RAS recycle actuated sluice gates	1,1	DOL	1	0
ML swing recycle actuated sluice gates	0,6	DOL	3	0
Swing Recycle Pumps	20,0	VSD	4	1
Drain pumps	18,5	DOL	3	0
Membrane Tank Drain Pumps	18,5	VSD	3	1
WAS/Scum Pumps	18,5	VSD	2	1
Withdrawal activated sluice gate	0,7		1	0
Scum Spray activated	0,6	VSD	1	0
WAS sluice activated	1,1	VSD	1	0
Filter sluice activated	1,4	VSD	9	3
Permeate/backpulse pumps	75,0	VSD	9	0
Solenoid Valves	0,1	VSD	9	0
FBDA Blowers	160,0	VSD	5	1
Actuated Valves	0,1	VSD	19	0
Solenoid Valves	0,1	VSD	9	0
Air Scour Blowers	132,0	VSD	6	1
Lifting Equipment	4,4		1	0
Condensing Unit	45,0	VSD	4	0
Actuated Valves	0,1	VSD	7	0
Ventilation Fans	5,5	DOL	9	0
Machine room Ventilation Fans	15,0	DOL	3	0
Membrane Tank Drain Pumps	18,5	VSD	3	1
~~Vacuum pumps~~	~~11,0~~	~~VSD~~	~~9~~	~~0~~
Air compressors	18,5	DOL	2	0
Sodium Hydroxide mixers	1,5	DOL	2	0

Sodium Hydroxide dosing pump	0,6	VSD	4	0
Sodium Hydroxide transfer pump	1,5	VSD	1	0
Sodium Hydroxide Fans	1,5		1	0
Sodium Hydroxide Scum pumps	0,1		2	0
Citric Acid bag loader	5,5	DOL	1	0
Citric Acid vibrator	1,1	DOL	1	0
Citric Acid dosing	0,6	DOL	4	0
Citric Acid mixer	1,1	DOL	1	0
Citric Acid crane	4,5	DOL	1	0
Citric Acid screw conveyor	1,5	DOL	1	0
mass flow meters	0,2	DOL	2	0
Citric Acid Desiccant dryer	2,5	DOL	2	0
Citric Acid Dust Extractor	1,1	DOL	1	0
Ferric Sulphate dosing pumps	1,5	VSD	10	0
Ferric Sulphate Transfer pumps	1,1	DOL	2	0
Ferric Sulphate mixers	1,5	DOL	2	0
Dosing Skids	0,1	DOL	2	0
Formic Acid dosing	0,8	DOL	4	0
Fans	0,8	DOL	2	0
Meters	0,1	VSD	6	0
Instrument Air compressors	18,5	VSD	2	0
Instrument Air Dryer	0,7	1	3	0
Solenoid valves	0,1		7	0
Condensate	0,8		1	0
Ventilation Fans	1,5		2	0
Service water	11,0	VSD	4	0
UV Disinfection unit	7,5	-	1	0
UV valves	0,1	-	4	0
Lifting Equipment tanks	1,1	-	1	0
Lifting Equipment blowers	4,4	-	1	0
Lifting Equipment pump room	5,5	-	1	0
Lifting Equipment recycle pumps	1,1	-	6	0
Lifting Equipment swing recycle pumps	5,5	-	1	0
Lifting Equipment pump room	1,1	-	1	0
Area & Building Aircons	5,2		4	0
MCC Aircons	19,7		4	0
Area & Building Lighting	0,1		476	0
Odour Control	1,1		1	0
Generator (1260kVA)	1 008,0		2	0
Panels	65,0		1	0
UPS	10,0		10	0

TREATED EFFLUENT RE-USE PUMP STATION				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Pumps	75,0	DOL	2	0
Drainage Pump	7,5	DOL	1	0
Screen	7,5	DOL	1	0
Screen conveyor	2,2	DOL	1	0
Skip Dolley	1,1	DOL	1	0
Crane	4,2		1	0
Actuated Valves various	0,7		1	0
Panels	5,0		1	0

Old Admin Facility, Old Entrance, New Entrance Gate & Guard Building				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Area & Building Aircons (total)	1,1		1	0
Geyser	3,0		3	0
Gate	3,0		1	0
Workshop & Stores				
Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Area & Building Aircons (total)	1,1		5	0
Travelling Crane	7,5		1	0
Geyser	1,0		1	0
Area & Building Lighting	2,8		1	0
Compressor	5,5		1	0

B: BLACK MAC SCREENING STATION

Equipment	Power Rating kW	Motor Type	Total Number Installed	Standby
Effluent pumps	11,0	DOL	2	0
Recirculation pumps	0,6	DOL	2	0
Course Mechanical Screen	0,8	DOL	2	0
Fine Mechanical Screen	0,8	DOL	2	0
Washer Compactor	6,0	DOL	2	1
Skip Dolly	0,4	DOL	2	1
Vortex Degritter	0,6	DOL	2	0
Grit Classifier	1,1	DOL	2	0
Grit Pumps pumps	5,5	DOL	2	0
Screenings Conveyor	0,4	DOL	3	0
Inclined Auger	0,7	DOL	3	0
Activated sluice gates	0,9	VSD	9	0
Travelling Crane	2,2	DOL	1	0
Fans	8,0	DOL	2	0
Odour Control Units	4,2	DOL	1	0
Blower-Odour control	2,2	DOL	1	0
Nutrient Dosing pumps	0,1	DOL	1	0
Area & Building Lighting	3,0		1	0
Panels	5,0		1	0
UPS	10,0		2	0
Generator	104,0		1	0

APPENDIX D3 – CHEMICAL CONSUMPTION DATA

ZANDVLIET WWTW – CHEMICAL CONSUMPTION

The schedule below has been provided by CCT as a guide to Tenderers.

This reflects the average monthly consumption over a twelve-month period, the early part of which certain parts of the works were being commissioned with reduced chemical consumption.

This also excludes other chemicals including, but not limited to cleaning chemicals; weed killers; odor control unit chemicals and media replacement; disinfectants; pest control; mold control chemicals; HTH; sanitizers, soaps and cleansers etc.

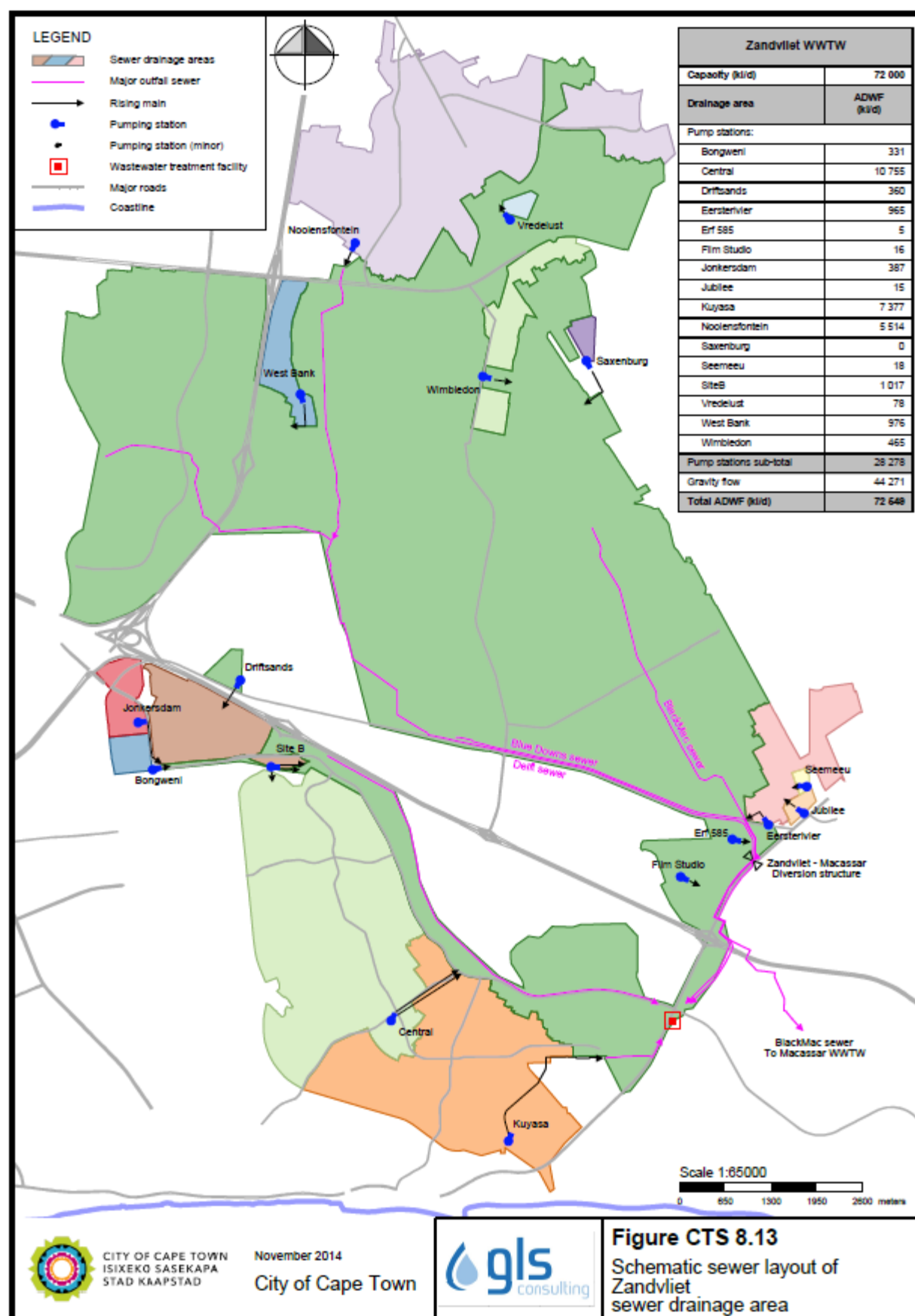
Tenderers should make their own chemical consumption assessments, as well as choice of specialty chemicals and include for all costs, including for all deposits, container rentals, storage, holding costs and working capital in their unit rates

CCT shall not be held liable for the correctness of this information and how it is applied by the successful Tenderer in developing its rates, and the successful Tenderer shall have no right or recourse to adjust its rates nor submit any claim whatsoever arising here from.

Chemical	Average monthly consumption (kg)	Comment
Chlorine gas	6 150	One ton cylinders
WAS Belt Press polyelectrolyte	5 460	
PST Belt Press polyelectrolyte	2 720	
MBR Sodium hypochlorite	7 490	
MBR Citric Acid	5 310	
Ferric Sulphate		To be used in the future as and when required

Tenderers should make their own assessment of the chemicals used at the Black Mac Screening station.

APPENDIX E - ZANDVLIET DRAINAGE REGION



APPENDIX F**SPECIALIST MAINTENANCE SERVICES AND THE ASSET REGISTER****G-1 SPECIALIST MAINTENANCE SERVICES**

In addition to the Tenderers ongoing maintenance, repair and replacement responsibilities of all the works assets, the City also requires that the Tenderer appoints specialist, independent service providers to inspect and carry out full preventative maintenance services in accordance with the OEM requirements and accepted best practices on the assets scheduled below. This shall also include re-calibration of the equipment where applicable. The service provider shall also submit a report on the work carried out and the state of repair of the assets. Either the OEM, or their approved agent shall provide these services, unless otherwise mutually agreed.

No additional payment shall be made for these specialist services, and all costs shall be deemed to be included in the Tenderers fixed monthly rates.

ZANDVLIET WWTW –
INSPECTION, LOAD TESTING, TESTING, SERVICING AND CALIBRATION OF EQUIPMENT

#	Group	Item / Equipment / Activity	Calibration / Service Frequency	Specialist Outsourcing	Comments (Type of Service, etc.)	Legal Requirement (Yes / No)
1	Building and Grounds Maintenance	Total of 69 Airconditioning units Aircons Service (Admin & MBR B) - package unit = 28; 24 split units; 5 fresh air systems 12 Under ceiling Units	Quarterly	Approved agent	Service of HVAC & Aircons (Quarterly) and Regular Replacements (Average x5 per annum)	No (Contractual)
2	Building and Grounds Maintenance	Ride-on Lawnmower x 1 Kudu x 1 (Maintenance, etc.) CCT Assets	6 Monthly	Yes	Service & repairs of lawnmower	No (Contractual)
3	Building and Grounds Maintenance	Grass Cutting Equipment (CCT Assets) (Maintenance, etc.) (2 x brush cutters) Additional 2 required (contractor asset)	6 Monthly	Yes	Service & repairs of grass cutting equipment	No (Contractual)
4	Building and Grounds Maintenance	Pest Control - Moles, Rodents & Mosquitoes	Generally monthly	Yes	Required pest, mole, rodent and insect control to protect buildings and MCC (electrical wires). Mosquito and fly control to protect building (paint) and personnel	No (Contractual)
5	IT	Zandvliet site Internet, Telephone, Cell Phone & PBX system, and wireless router management	Yearly	Yes	Full testing, maintenance	No (Contractual)

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#	Group	Item / Equipment / Activity	Calibration / Service Frequency	Specialist Outsourcing	Comments (Type of Service, etc.)	Legal Requirement (Yes / No)
6	Electrical	Transformers	Monthly	By CCT	Scheduled service	No (Contractual)
7	Process Equipment	Flow Meters (Inflow + Outflow) x13 7 x inflow (3 x area inflow + 4 x Influent flow to ZVT) 6 x outflow (3 x weir flows + MBR Outflow + Service water)	Annually	Yes	Service, calibration certificates & repairs All listed required to be calibrated yearly for accurate inflow and outflow calculations acceptable to DWS	Yes
8	Process Equipment	Chlorine Scales x 8	Annually	Yes	Service, calibration certificates & repairs if required	Yes
9	Process Equipment	Chlorine header system Equipment (minor service) x8 cylinders (2 banks of 4)	Annual (minor)	No	Service, calibration & replacement of chlorine equipment	AIA pressure test is legal
10	Process Equipment	Chlorine header system Equipment (Major service) x8 cylinders (2 banks of 4)	Annual (major)	Yes	Service, calibration & replacement of chlorine equipment parts	Legal requirement for MHI (Medium)
11	Process Equipment	Weigh Bridge	Every 2 years	Yes	Service & calibration of weigh bridge	Yes
12	Process Equipment	Weigh Software Licence	Annually	Yes	Software licence for weigh bridge for reporting	No (Contractual)
13	Process Equipment	Portable DO Meters (2 x DO Meters on CCT asset)	Annually	Yes	Service & calibration of DO meter	No (Contractual)
14	Process Equipment	Portable TSS Meters (2 x TSS meters on CCT asset)	Annually	No	Service & calibration of TSS meter	No (Contractual)
15	Process Equipment	Generator Services (6x Himoinsa)	Annually	Yes	Service of Generators	No (Contractual)
16	Process Equipment	Generator Services (2x Perkins with imported spares)	Annually	Yes	Service of Generators	No (Contractual)
17	Process Equipment	Compressor Services (8 x compressors + 3 x mobile CCT asset)	Quarterly - OEM (every 2000 run hours)	Yes	Service of Compressors	No (Contractual)
18	Process Equipment	FBDA Blowers - MBR B (5 x Howden Blowers)	Annually (for two years. Third year is major)	Yes	Service of FBDA Blowers	No (Contractual)
19	Process Equipment	FBDA Blowers - MBR A (3 x Howden Blowers)	Annually (for two years. Third year is major)	Yes	Service of FBDA Blowers	No (Contractual)

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#	Group	Item / Equipment / Activity	Calibration / Service Frequency	Specialist Outsourcing	Comments (Type of Service, etc.)	Legal Requirement (Yes / No)
20	Process Equipment	FBDA Blowers (MBR-A and MBR-B)	Earlier of every 3 years or 80000 run hours	Yes	MAJOR Service of FBDA Blowers	No (Contractual)
21	Process Equipment	Air Scour (Aerzen) Blower - MBR A + B (9 x compressors)	Annually	Yes	Service of Air Scour Blowers	No (Contractual)
22	Process Equipment	Odour Control Units Service	6 Monthly	Yes	Service of Odour Control Units	No (Contractual)
23	Process Equipment	Online DO Meter Service (28 x Online DO meters)	Annually	Yes	Service & calibration of DO meters	No (Contractual)
24	Process Equipment	Sludge Blanket Meters (16 x Sludge blanket meters)	Annually	Yes	Service & calibration of sludge blanket meters	No (Contractual)
25	Process Equipment	MBR Analysers x 4 inline services, calibration and maintenance	Annually	Yes	Service & calibration of online analysers	No (Contractual)
26	Process Equipment	All other Analysers, calibration and maintenance	Annually	Yes	Service & calibration of online analysers	No (Contractual)
27	Process Equipment	Gearbox oil analysis	Quarterly	Yes	Supply sample bottles and external oil analysis	No (Contractual)
28	Process Equipment	Diesel bulk tank cleaning & Additive (x 10 bulk tanks)	Yearly	Yes	Annual cleaning of the bulk tanks. Adding in additive and then compare results	No (Contractual)
29	Process Equipment	MBR Membrane Care & Performance Monitoring & Reporting	Monthly	Yes (or proof of expertise)	detailed analysis and comprehensive report	Warranty requirement
30	Process Equipment	Main breaker services (54 breakers)	Yearly	Yes	Service & repairs of main breakers	Legal OSH
31	Process Equipment	PF Correction panel services (14 Panels)	Yearly	Yes	Service & repair of panels	No (Contractual)
32	Process Equipment	Rotar Stator pumps at Dewatering Servicing and replacement of Pinjoint seals to prevent premature failure and subsequent gearbox replacement. (29 Netzch Positive displacement pumps)	Every 5 years	Yes	Preventative maintenance	No (Contractual)
33	Process Equipment	Generator Diesel Costs - Maintenance runs: Required to run three (3X) offload test for 30 minutes and one (1X) onload test per month for 60 minutes.	Monthly	No	Required to run three (3X) offload test for 30 minutes and one (1X) onload test per month for 60 minutes.	No (Contractual)

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#	Group	Item / Equipment / Activity	Calibration / Service Frequency	Specialist Outsourcing	Comments (Type of Service, etc.)	Legal Requirement (Yes / No)
34	Process Equipment	SCADA back up and IT services	Yearly	Yes	System checks & modifications	No (Contractual)
35	Safety	Gas Monitor Units (Mobile) x2	6 Monthly	Yes	Service & Calibration Certificates	Yes
36	Safety	Alcohol Breathalyser	Annually	Yes	Calibration certificates, service & replacement	No (Contractual)
37	Safety	Fire Extinguishers (59 extinguishers)	Annually	Yes	Service & replacement of fire extinguisher	Yes
38	Safety	Fire Hydrants x17	Annually	Yes	Service & repairs of hydrants	Yes
39	Safety	BA Sets x5	Annually	Yes	Service BA cylinders	Yes
40	Safety	Chlorine Facility Audit (by Chlorine supplier) / yearly requirement	Annual cost	Yes	Annual technical + H&S audit	Yes
41	Safety	Fire Alarm Systems (Full plant) Insurer confirmation requirement	6 Monthly	Yes	Service of fire detection systems	Yes
42	Safety	Pressure Vessels x10	Annually	Yes	Pressure Vessels	Yes
43	Safety	Lifting Equipment Service, calibration and load testing (Overhead Cranes, etc.)	Quarterly Inspection	Yes	Service & calibration; Load tests & certification	Yes
44	Safety	CCTV System	Yearly	Yes	Contractual requirement to keep cameras fully operational	No (Contractual)
45	Safety	Security system (Panic button)	Yearly	Yes	Monitoring and Panic button activation	No (Contractual)
46	Safety	Occupational Hygiene Surveys (AIA)	Every 2 years	Yes	Hygiene Surveys	Yes
47	Safety	Personal Floating Devices (PFDs)	every 3 years	Yes	Life Jackets . Specified by CCT for open water aerated reactors for different weighted users	Yes CCT approved specification
48	Legal / ISO	Tenderers ISO certifications, standards , systems and procedures	Yearly	Yes	Surveillance / Certification	No (Contractual)
49	Legal / ISO	OHSA Legal Audit + legal register updates	Every 2 years	Yes	Safety Legal Audit	Yes
50	Legal / ISO	Environmental Legal Audit + Register updates	Every 2 years	Yes	Environmental Legal Audit	No (Contractual)

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#	Group	Item / Equipment / Activity	Calibration / Service Frequency	Specialist Outsourcing	Comments (Type of Service, etc.)	Legal Requirement (Yes / No)
51	Legal / ISO	Energy Legal Audit + Legal Register updates	Every 2 years	Yes	Energy Legal Audit	No (Contractual)
52	Legal / ISO	Structural Inspection	Every year	Yes	Structural Inspection	Yes
53	Legal / ISO	Process Audit + License Audit	Yearly	Yes	Compliance audit	No (Contractual)
54	Legal / ISO	W2RAP	Yearly	Yes	Safety Legal and Contractual	Yes
55	Legal / ISO	System review & preparation DWS audit process	Yearly Every 2 years	Yes	Target- Green Drop Status	Yes
56	Other	sump/channel inspections - Vacuum Tankers (projected minimum 24 days per annum)	As and when required	Yes	7 x Inlet channel & 8 x screw pump lower bearing inspection, scum boxes for fats removal (no discharge into dewatering)	No
57	Other	Invasive Reeds, Trees & external Fence line clearance	Throughout year	Yes	Alien Invasive Trees in wetland, reed removal, Inside & outside fence firebreak	

The Asset Register, which includes CCT's replacement value estimate as of June 2026

The replacement values exclude:

- design and fabrication costs
- works inspections and testing where required
- transport to the works
- plant and equipment for offloading and installation
- labour installation costs
- consumable installation costs
- trial testing and commissioning costs
- provision/update of O&M manuals and Asset Register
- the Tenderer's overheads and profit requirements
- all civil, building, pipework, roads, stormwater and fencing works

CCT shall not be held liable for the correctness of this information and how it is applied by the Tenderer in developing its rates for maintenance, repairs and replacement of these assets. The successful Tenderer shall have no right or recourse to adjust its rates nor submit any claim arising therefrom

Tenderers are to take into account the age of the existing assets, based on the commissioning date and commencement of the Trial Operation Period as follows:

Section of the Works	TOP date or handover date
Weighbridge and Control Room	2020/10/12
Security entrance, fence line	2020/10/21
New Admin Building	2021/08/02
Dewatering Building	2021/05/25

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Inlet up to PSTs; MBVR PST,	2021/11/04
MBR B Plant and MBR Fine Screens	2022/04/11
Maintenance workshop and Store	2022/08/11
CAS A Reactor	2023/03/03
CAS B Reactor	2023/09/14
Chlorination Facility	2023/08/28
MBR A Refurbishment	2023/12/14

Tenderers must take into account that some of the original civil structures, building works, electro-mechanical equipment, as well as buried inter-connecting pipework that were retained during the above upgrade are not included in the Asset register. Tenderers to provide for the associated maintenance, repair and replacement costs for the same in the fixed monthly rates.

The costs of the ancillary components of any piece of equipment (motors, pumps etc) have not been scheduled separately, and tenderers must make their own cost assumptions for these components, again with no recourse to CCT for any incorrect assumptions by the Tenderer.

Zandvliet WWTW Asset Register				Replacement Value as at: 30.06.2026	1 454 892 317
Replacement value, excluding overheads, design, fabrication, delivery, installation and commissioning costs. Excludes all Civil and Building Works and buried pipework.					
Asset Name	Location	Major Asset Group (New)	Parent Asset (NEW)	Asset Component / Type (NEW)	Unit Price
Outlet - Coagulant Dosing Diffuser 2	CAS-A	Mechanical	Ferric Sulphate Dosing CAS-A	Diffuser	146 919
Outlet - Coagulant Dosing Diffuser 1	CAS-A	Mechanical	Ferric Sulphate Dosing CAS-A	Diffuser	146 919
Coagulant Dosing Anoxic Basin	CAS-A	Mechanical	Ferric Sulphate Dosing CAS-A	Diffuser	146 919
Sodium Hydroxide Dosing Anoxic Basin	CAS-A	Mechanical	Sodium Hydroxide Dosing CAS-A	Diffuser	146 919
SST Bridge 6A Motor 2	CAS-A	Electrical	SST 6A	Motor	-
SST Bridge 6A Motor 1	CAS-A	Electrical	SST 6A	Motor	-
SST Bridge 6A Gearbox 2	CAS-A	Mechanical	SST 6A	Gearbox	-
SST Bridge 6A Gearbox 1	CAS-A	Mechanical	SST 6A	Gearbox	-
SST Bridge 6A	CAS-A	Mechanical	SST 6A	Bridge	3 650 968
SST Bridge 5A Motor 2	CAS-A	Electrical	SST 5A	Motor	-
SST Bridge 5A Motor 1	CAS-A	Electrical	SST 5A	Motor	-
SST Bridge 5A Gearbox 2	CAS-A	Mechanical	SST 5A	Gearbox	-
SST Bridge 5A Gearbox 1	CAS-A	Mechanical	SST 5A	Gearbox	-
SST Bridge 5A	CAS-A	Mechanical	SST 5A	Bridge	3 650 968
SST Bridge 4A Motor 2	CAS-A	Electrical	SST 4A	Motor	-
SST Bridge 4A Motor 1	CAS-A	Electrical	SST 4A	Motor	-
SST Bridge 4A Gearbox 2	CAS-A	Mechanical	SST 4A	Gearbox	-
SST Bridge 4A Gearbox 1	CAS-A	Mechanical	SST 4A	Gearbox	-
SST Bridge 4A	CAS-A	Mechanical	SST 4A	Bridge	3 950 558
SST Bridge 3A Motor 2	CAS-A	Electrical	SST 3A	Motor	-
SST Bridge 3A Motor 1	CAS-A	Electrical	SST 3A	Motor	-
SST Bridge 3A Gearbox 2	CAS-A	Mechanical	SST 3A	Gearbox	-
SST Bridge 3A Gearbox 1	CAS-A	Mechanical	SST 3A	Gearbox	-
SST Bridge 3A	CAS-A	Mechanical	SST 3A	Bridge	3 950 558
SST Bridge 2A Motor 2	CAS-A	Electrical	SST 2A	Motor	-
SST Bridge 2A Motor 1	CAS-A	Electrical	SST 2A	Motor	-
SST Bridge 2A Gearbox 2	CAS-A	Mechanical	SST 2A	Gearbox	-
SST Bridge 2A Gearbox 1	CAS-A	Mechanical	SST 2A	Gearbox	-
SST Bridge 2A	CAS-A	Mechanical	SST 2A	Bridge	3 950 558

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SST Bridge 1A Motor 2	CAS-A	Electrical	SST 1A	Motor	-
SST Bridge 1A Motor 1	CAS-A	Electrical	SST 1A	Motor	-
SST Bridge 1A Gearbox 2	CAS-A	Mechanical	SST 1A	Gearbox	-
SST Bridge 1A Gearbox 1	CAS-A	Mechanical	SST 1A	Gearbox	-
SST Bridge 1A	CAS-A	Mechanical	SST 1A	Bridge	3 950 558
CAS A&B - Aerator Junction boxes and cabling	CAS-A	Electrical	Secondary Settling Tanks	Junciton boxes aerators	239 835
CAS A/B & MBR-A - Additional junction boxes	CAS-A	Electrical	Reactor CAS-A	Junciton boxes	52 851
CAS A & B/ MBR-A - Additional Electrical Works	CAS-A	Electrical	Reactor CAS-A	Junciton boxes	109 335
SECTION B - Bioreactor Outlet Baffles	CAS-A	Mechanical	Reactor CAS-A	Weir	155 305
Section B - Retrofit Breakers and Digital Power meters as CAS A & B MCC's (Kaltron Quote VO 54)	CAS-A	Electrical	MCC CAS-A	Breakers	388 390
Section B - Invertor with Lithium batteries and UPS with lead acid batteries for PLC - (Kaltron Quote VO 53) Inverter back up system	CAS-A	Electrical	MCC CAS-A	Inverters	281 077
Section B - Final Effluent measurment (Kaltron VO 65)	CAS-A	Electrical	Contact tank	Weir	105 242
Central inlet pipe and stilling well/ chamber for SST's (for one complete tank)	CAS-A	Mechanical	SSTs Common	Inlet Stilling basin	5 595 773
SS V-notch weirs for full circumference of the clarifier	CAS-A	Mechanical	SSTs Common	V-notch weirs	347 548
SS scum baffle plates for full circumference of the clarifier	CAS-A	Mechanical	SSTs Common	scum baffles	1 410 035
SS Scum trough/ box and draw-off mechanism	CAS-A	Mechanical	SSTs Common	Scum trough	456 931
SS Scum withdrawal pipework, flanges and fittings (for all clarifiers)	CAS-A	Mechanical	SSTs Common	Scum pipework	90 828
Sloped-bottom clarifier Full Bridge and supports complete with centre bearings, sludge scrapers, end carriage, drive, access ladders and associated equipment New SSTs	CAS-A	Mechanical	SSTs Common	SST scrappers	3 074 010
Central inlet pipe and stilling well/ chamber for SST's (for one complete tank) New SSTs	CAS-A	Mechanical	SSTs Common	Inlet stilling basin	2 356 698
SS V-notch weirs (75 mm deep) for full circumference of the clarifier New SSTs	CAS-A	Mechanical	SSTs Common	V-notch weirs	195 814
SS scum baffle plates for full circumference of the clarifier New SSTs	CAS-A	Mechanical	SSTs Common	scum baffles	700 488

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SS Scum trough/ box and draw-off mechanism New SSTs	CAS-A	Mechanical	SSTs Common	Scum trough	885 674
SS Scum withdrawal pipework, flanges and fittings (for all clarifiers) New SSTs	CAS-A	Mechanical	SSTs Common	Scum pipework	89 252
Section B - CAS A/B - SSTs - Change in Scum Box and Isolation Valve quantities	CAS-A	Mechanical	SSTs Common	Scum Boxes	1 745 406
RAS Pump Station Crawl Beam	CAS-A	Mechanical	CAS-A	Crawl Beam	219 701
Surface Aerator 10 - Aerobic Zone 3 Motor	CAS-A	Electrical	Surface Aerator 10	Motor	-
Surface Aerator 10 - Aerobic Zone 3 Gearbox	CAS-A	Mechanical	Surface Aerator 10	Gearbox	-
Surface Aerator 10 - Aerobic Zone 3	CAS-A	Mechanical	Surface Aerator 10	Surface Aerator	885 602
Surface Aerator 9 - Aerobic Zone 3 Motor	CAS-A	Electrical	Surface Aerator 9	Motor	-
Surface Aerator 9 - Aerobic Zone 3 Gearbox	CAS-A	Mechanical	Surface Aerator 9	Gearbox	-
Surface Aerator 9 - Aerobic Zone 3	CAS-A	Mechanical	Surface Aerator 9	Surface Aerator	885 602
Surface Aerator 8 - Aerobic Zone 3 Motor	CAS-A	Electrical	Surface Aerator 8	Motor	-
Surface Aerator 8 - Aerobic Zone 3 Gearbox	CAS-A	Mechanical	Surface Aerator 8	Gearbox	-
Surface Aerator 8 - Aerobic Zone 3	CAS-A	Mechanical	Surface Aerator 8	Surface Aerator	1 199 428
Surface Aerator 7 - Aerobic Zone 3 Motor	CAS-A	Electrical	Surface Aerator 7	Motor	-
Surface Aerator 7 - Aerobic Zone 3 Gearbox	CAS-A	Mechanical	Surface Aerator 7	Gearbox	-
Surface Aerator 7 - Aerobic Zone 3	CAS-A	Mechanical	Surface Aerator 7	Surface Aerator	1 199 428
Surface Aerator 6 - Aerobic Zone 2 Motor	CAS-A	Electrical	Surface Aerator 6	Motor	-
Surface Aerator 6 - Aerobic Zone 2 Gearbox	CAS-A	Mechanical	Surface Aerator 6	Gearbox	-
Surface Aerator 6 - Aerobic Zone 2	CAS-A	Mechanical	Surface Aerator 6	Surface Aerator	1 199 428
Surface Aerator 5 - Aerobic Zone 2 Motor	CAS-A	Electrical	Surface Aerator 5	Motor	-
Surface Aerator 5 - Aerobic Zone 2 Gearbox	CAS-A	Mechanical	Surface Aerator 5	Gearbox	-
Surface Aerator 5 - Aerobic Zone 2	CAS-A	Mechanical	Surface Aerator 5	Surface Aerator	1 199 428
Surface Aerator 4 - Aerobic Zone 2 Motor	CAS-A	Electrical	Surface Aerator 4	Motor	-
Surface Aerator 4 - Aerobic Zone 2 Gearbox	CAS-A	Mechanical	Surface Aerator 4	Gearbox	-
Surface Aerator 4 - Aerobic Zone 2	CAS-A	Mechanical	Surface Aerator 4	Surface Aerator	1 199 428
Surface Aerator 3 - Aerobic Zone 1 Motor	CAS-A	Electrical	Surface Aerator 3	Motor	-
Surface Aerator 3 - Aerobic Zone 1 Gearbox	CAS-A	Mechanical	Surface Aerator 3	Gearbox	-
Surface Aerator 3 - Aerobic Zone 1	CAS-A	Mechanical	Surface Aerator 3	Surface Aerator	1 293 557
Surface Aerator 2 - Aerobic Zone 1 Motor	CAS-A	Electrical	Surface Aerator 2	Motor	-
Surface Aerator 2 - Aerobic Zone 1 Gearbox	CAS-A	Mechanical	Surface Aerator 2	Gearbox	-
Surface Aerator 2 - Aerobic Zone 1	CAS-A	Mechanical	Surface Aerator 2	Surface Aerator	1 293 557

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Surface Aerator 1 - Aerobic Zone 1 Motor	CAS-A	Electrical	Surface Aerator 1	Motor	-
Surface Aerator 1 - Aerobic Zone 1 Gearbox	CAS-A	Mechanical	Surface Aerator 1	Gearbox	-
Surface Aerator 1 - Aerobic Zone 1	CAS-A	Mechanical	Surface Aerator 1	Surface Aerator	1 293 557
WAS Pump 2 Motor	CAS-A	Electrical	WAS Pump 2	Motor	-
WAS Pump 2 Gearbox	CAS-A	Mechanical	WAS Pump 2	Gearbox	-
WAS Pump 2	CAS-A	Mechanical	WAS Pump 2	Sludge Pump	189 140
WAS Pump 1 Motor	CAS-A	Electrical	WAS Pump 1	Motor	-
WAS Pump 1 Gearbox	CAS-A	Mechanical	WAS Pump 1	Gearbox	-
WAS Pump 1	CAS-A	Mechanical	WAS Pump 1	Sludge Pump	189 140
AeAx Submersible Recycle Pump 3 Motor	CAS-A	Electrical	Ae-Ax Submersible Recycle Pump 3	Motor	-
AeAx Submersible Recycle Pump 3 Gearbox	CAS-A	Mechanical	Ae-Ax Submersible Recycle Pump 3	Gearbox	-
AeAx Submersible Recycle Pump 3	CAS-A	Mechanical	Ae-Ax Submersible Recycle Pump 3	Submersible Pump	886 602
AeAx Submersible Recycle Pump 2 Motor	CAS-A	Electrical	Ae-Ax Submersible Recycle Pump 2	Motor	-
AeAx Submersible Recycle Pump 2 Gearbox	CAS-A	Mechanical	Ae-Ax Submersible Recycle Pump 2	Gearbox	-
AeAx Submersible Recycle Pump 2	CAS-A	Mechanical	Ae-Ax Submersible Recycle Pump 2	Submersible Pump	886 602
AeAx Submersible Recycle Pump 1 Motor	CAS-A	Electrical	Ae-Ax Submersible Recycle Pump 1	Motor	-
AeAx Submersible Recycle Pump 1 Gearbox	CAS-A	Mechanical	Ae-Ax Submersible Recycle Pump 1	Gearbox	-
AeAx Submersible Recycle Pump 1	CAS-A	Mechanical	Ae-Ax Submersible Recycle Pump 1	Submersible Pump	886 602
RAS Submersible Pump 2 Motor	CAS-A	Electrical	RAS Submersible Pump 2	Motor	-
RAS Submersible Pump 2 Gearbox	CAS-A	Mechanical	RAS Submersible Pump 2	Gearbox	-
RAS Submersible Pump 2	CAS-A	Mechanical	RAS Submersible Pump 2	Submersible Pump	663 635
RAS Submersible Pump 1 Motor	CAS-A	Electrical	RAS Submersible Pump 1	Motor	-
RAS Submersible Pump 1 Gearbox	CAS-A	Mechanical	RAS Submersible Pump 1	Gearbox	-
RAS Submersible Pump 1	CAS-A	Mechanical	RAS Submersible Pump 1	Submersible Pump	663 635
Submersible Mixer 8 - Anoxic Zone 3 Motor	CAS-A	Electrical	Submersible Mixer 8	Motor	-
Submersible Mixer 8 - Anoxic Zone 3 Gearbox	CAS-A	Mechanical	Submersible Mixer 8	Gearbox	-
Submersible Mixer 8 - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 8	Mixer	263 394
Submersible Mixer 7 - Anoxic Zone 3 Motor	CAS-A	Electrical	Submersible Mixer 7	Motor	-
Submersible Mixer 7 - Anoxic Zone 3 Gearbox	CAS-A	Mechanical	Submersible Mixer 7	Gearbox	-
Submersible Mixer 7 - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 7	Mixer	263 394
Submersible Mixer 6 - Anoxic Zone 3 Motor	CAS-A	Electrical	Submersible Mixer 6	Motor	-
Submersible Mixer 6 - Anoxic Zone 3 Gearbox	CAS-A	Mechanical	Submersible Mixer 5	Gearbox	-
Submersible Mixer 6 - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 6	Mixer	263 394
Submersible Mixer 5 - Anoxic Zone 3 Motor	CAS-A	Electrical	Submersible Mixer 5	Motor	-

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Submersible Mixer 5 - Anoxic Zone 3 Gearbox	CAS-A	Mechanical	Submersible Mixer 5	Gearbox	-
Submersible Mixer 5 - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 5	Mixer	263 394
Submersible Mixer 4 - Anoxic Zone 3 Motor	CAS-A	Electrical	Submersible Mixer 4	Motor	-
Submersible Mixer 4 - Anoxic Zone 3 Gearbox	CAS-A	Mechanical	Submersible Mixer 4	Gearbox	-
Submersible Mixer 4 - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 4	Mixer	263 394
Submersible Mixer 3 - Anoxic Zone 3 Motor	CAS-A	Electrical	Submersible Mixer 3	Motor	-
Submersible Mixer 3 - Anoxic Zone 3 Gearbox	CAS-A	Mechanical	Submersible Mixer 3	Gearbox	-
Submersible Mixer 3 - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 3	Mixer	263 394
Submersible Mixer 2 - Anoxic Zone 2 Motor	CAS-A	Electrical	Submersible Mixer 2	Motor	-
Submersible Mixer 2 - Anoxic Zone 2 Gearbox	CAS-A	Mechanical	Submersible Mixer 2	Gearbox	-
Submersible Mixer 2 - Anoxic Zone 2	CAS-A	Mechanical	Submersible Mixer 2	Mixer	263 394
Submersible Mixer 1 - Anoxic Zone 1 Motor	CAS-A	Electrical	Submersible Mixer 1	Motor	-
Submersible Mixer 1 - Anoxic Zone 1 Gearbox	CAS-A	Mechanical	Submersible Mixer 1	Gearbox	-
Submersible Mixer 1 - Anoxic Zone 1	CAS-A	Mechanical	Submersible Mixer 1	Mixer	263 394
Submersible Mixer 8 Lifting Davit - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 8	Lifting Davit	173 147
Submersible Mixer 7 Lifting Davit - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 7	Lifting Davit	173 147
Submersible Mixer 6 Lifting Davit - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 6	Lifting Davit	173 147
Submersible Mixer 5 Lifting Davit - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 5	Lifting Davit	173 147
Submersible Mixer 4 Lifting Davit - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 4	Lifting Davit	173 147
Submersible Mixer 3 Lifting Davit - Anoxic Zone 3	CAS-A	Mechanical	Submersible Mixer 3	Lifting Davit	173 147
Submersible Mixer 2 Lifting Davit - Anoxic Zone 2 Gearbox 3	CAS-A	Mechanical	Submersible Mixer 2	Gearbox	-
Submersible Mixer 2 Lifting Davit - Anoxic Zone 2 Gearbox 2	CAS-A	Mechanical	Submersible Mixer 2	Gearbox	-
Submersible Mixer 2 Lifting Davit - Anoxic Zone 2 Gearbox 1	CAS-A	Mechanical	Submersible Mixer 2	Gearbox	-
Submersible Mixer 2 Lifting Davit - Anoxic Zone 2	CAS-A	Mechanical	Submersible Mixer 2	Lifting Davit	173 147
Submersible Mixer 1 Lifting Davit - Anoxic Zone 1 Gearbox 3	CAS-A	Mechanical	Submersible Mixer 1	Gearbox	-
Submersible Mixer 1 Lifting Davit - Anoxic Zone 1 Gearbox 2	CAS-A	Mechanical	Submersible Mixer 1	Gearbox	-
Submersible Mixer 1 Lifting Davit - Anoxic Zone 1 Gearbox 1	CAS-A	Mechanical	Submersible Mixer 1	Gearbox	-
Submersible Mixer 1 Lifting Davit - Anoxic Zone 1	CAS-A	Mechanical	Submersible Mixer 1	Lifting Davit	173 147
Biological Reactor Bypass to SST's Sluice Gate Wall-mounted Penstock	CAS-A	Mechanical	Ferric Sulphate Line	Sluice Gate	-

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Outlet Tilting Weir 2	CAS-A	Mechanical	Outlet	Tilting Weir	87 512
Outlet Tilting Weir 1	CAS-A	Mechanical	Outlet	Tilting Weir	87 512
Outlet Sluice Gate 6 Wall-mounted Penstock	CAS-A	Mechanical	Outlet Sluice Gate 6 Wall-mounted Penstock	Sluice Gate	217 249
Outlet Sluice Gate 5 Wall-mounted Penstock	CAS-A	Mechanical	Outlet Sluice Gate 5 Wall-mounted Penstock	Sluice Gate	217 249
Outlet Sluice Gate 4 Wall-mounted Penstock	CAS-A	Mechanical	Outlet Sluice Gate 4 Wall-mounted Penstock	Sluice Gate	217 249
Outlet Sluice Gate 3 Wall-mounted Penstock	CAS-A	Mechanical	Outlet Sluice Gate 3 Wall-mounted Penstock	Sluice Gate	217 249
Outlet Sluice Gate 2 Wall-mounted Penstock	CAS-A	Mechanical	Outlet Sluice Gate 2 Wall-mounted Penstock	Sluice Gate	217 249
Outlet Sluice Gate 1 Wall-mounted Penstock	CAS-A	Mechanical	Outlet Sluice Gate 1 Wall-mounted Penstock	Sluice Gate	217 249
AE-AX Recycle Pump 1 & 2 Lifting Davit	CAS-A	Mechanical	Ae-Ax Submersible Recycle Pump 2	Lifting Davit	173 147
AE-AX Recycle Pump 3 Lifting Davit	CAS-A	Mechanical	AeAx Submersible Recycle Pump 3	Lifting Davit	173 147
RAS Pump Station Crawl Beam Lifting Beam	CAS-A	Mechanical	RAS Pump Station	Lifting beam	-
SST Bridge 1A Wheel 1	CAS-A	Mechanical	SST 1A	Wheel	-
SST Bridge 1A Wheel 2	CAS-A	Mechanical	SST 1A	Wheel	-
SST Bridge 1A Wheel 3	CAS-A	Mechanical	SST 1A	Wheel	-
SST Bridge 1A Wheel 4	CAS-A	Mechanical	SST 1A	Wheel	-
SST Bridge 1A Bottom Scraper	CAS-A	Mechanical	SST 1A	Bottom Scraper	-
SST Bridge 1A Scum Scraper	CAS-A	Mechanical	SST 1A	Scum Scraper	-
SST Bridge 1A Scum Removal Box 1	CAS-A	Mechanical	SST 1A	Scum Removal Box	-
SST Bridge 1A Scum Removal Box 2	CAS-A	Mechanical	SST 1A	Scum Removal Box	-
SST Bridge 2A Wheel 1	CAS-A	Mechanical	SST 2A	Wheel	-
SST Bridge 2A Wheel 2	CAS-A	Mechanical	SST 2A	Wheel	-
SST Bridge 2A Wheel 3	CAS-A	Mechanical	SST 2A	Wheel	-
SST Bridge 2A Wheel 4	CAS-A	Mechanical	SST 2A	Wheel	-
SST Bridge 2A Bottom Scraper	CAS-A	Mechanical	SST 2A	Bottom Scraper	-
SST Bridge 2A Scum Scraper	CAS-A	Mechanical	SST 2A	Scum Scraper	-
SST Bridge 2A Scum Removal Box 1	CAS-A	Mechanical	SST 2A	Scum Removal Box	-
SST Bridge 2A Scum Removal Box 2	CAS-A	Mechanical	SST 2A	Scum Removal Box	-
SST Bridge 3A Wheel 1	CAS-A	Mechanical	SST 3A	Wheel	-

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SST Bridge 3A Wheel 2	CAS-A	Mechanical	SST 3A	Wheel	-
SST Bridge 3A Wheel 3	CAS-A	Mechanical	SST 3A	Wheel	-
SST Bridge 3A Wheel 4	CAS-A	Mechanical	SST 3A	Wheel	-
SST Bridge 3A Bottom Scraper	CAS-A	Mechanical	SST 3A	Bottom Scraper	-
SST Bridge 3A Scum Scraper	CAS-A	Mechanical	SST 3A	Scum Scraper	-
SST Bridge 3A Scum Removal Box 1	CAS-A	Mechanical	SST 3A	Scum Removal Box	-
SST Bridge 3A Scum Removal Box 2	CAS-A	Mechanical	SST 3A	Scum Removal Box	-
SST Bridge 4A Wheel 1	CAS-A	Mechanical	SST 4A	Wheel	-
SST Bridge 4A Wheel 2	CAS-A	Mechanical	SST 4A	Wheel	-
SST Bridge 4A Wheel 3	CAS-A	Mechanical	SST 4A	Wheel	-
SST Bridge 4A Wheel 4	CAS-A	Mechanical	SST 4A	Wheel	-
SST Bridge 4A Bottom Scraper	CAS-A	Mechanical	SST 4A	Bottom Scraper	-
SST Bridge 4A Scum Scraper	CAS-A	Mechanical	SST 4A	Scum Scraper	-
SST Bridge 4A Scum Removal Box 1	CAS-A	Mechanical	SST 4A	Scum Removal Box	-
SST Bridge 4A Scum Removal Box 2	CAS-A	Mechanical	SST 4A	Scum Removal Box	-
SST Bridge 5A Wheel 1	CAS-A	Mechanical	SST 5A	Wheel	-
SST Bridge 5A Wheel 2	CAS-A	Mechanical	SST 5A	Wheel	-
SST Bridge 5A Wheel 3	CAS-A	Mechanical	SST 5A	Wheel	-
SST Bridge 5A Wheel 4	CAS-A	Mechanical	SST 5A	Wheel	-
SST Bridge 5A Bottom Scraper	CAS-A	Mechanical	SST 5A	Bottom Scraper	-
SST Bridge 5A Scum Scraper	CAS-A	Mechanical	SST 5A	Scum Scraper	-
SST Bridge 5A Scum Removal Box 1	CAS-A	Mechanical	SST 5A	Scum Removal Box	-
SST Bridge 5A Scum Removal Box 2	CAS-A	Mechanical	SST 5A	Scum Removal Box	-
SST Bridge 6A Wheel 1	CAS-A	Mechanical	SST 6A	Wheel	-
SST Bridge 6A Wheel 2	CAS-A	Mechanical	SST 6A	Wheel	-
SST Bridge 6A Wheel 3	CAS-A	Mechanical	SST 6A	Wheel	-
SST Bridge 6A Wheel 4	CAS-A	Mechanical	SST 6A	Wheel	-
SST Bridge 6A Bottom Scraper	CAS-A	Mechanical	SST 6A	Bottom Scraper	-
SST Bridge 6A Scum Scraper	CAS-A	Mechanical	SST 6A	Scum Scraper	-
SST Bridge 6A Scum Removal Box 1	CAS-A	Mechanical	SST 6A	Scum Removal Box	-
SST Bridge 6A Scum Removal Box 2	CAS-A	Mechanical	SST 6A	Scum Removal Box	-
Submersible Mixer 1 Lifting Davit - Anoxic Zone 1 Anchor	CAS-A	Mechanical	Submersible Mixer 1	Lifting Davit	-
Submersible Mixer 1 - Anoxic Zone 1 Coupling	CAS-A	Mechanical	Submersible Mixer 1	Coupling	-
Submersible Mixer 1 - Anoxic Zone 1 Shaft/Blades	CAS-A	Mechanical	Submersible Mixer 1	Shaft/Blades	-

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Submersible Mixer 2 Lifting Davit - Anoxic Zone 2 Anchor	CAS-A	Mechanical	Submersible Mixer 2	Lifting Davit	-
Submersible Mixer 2 - Anoxic Zone 2 Coupling	CAS-A	Mechanical	Submersible Mixer 2	Coupling	-
Submersible Mixer 2 - Anoxic Zone 2 Shaft/Blades	CAS-A	Mechanical	Submersible Mixer 2	Shaft/Blades	-
Submersible Mixer 3 Lifting Davit - Anoxic Zone 3 Anchor	CAS-A	Mechanical	Submersible Mixer 3	Lifting Davit	-
Submersible Mixer 3 - Anoxic Zone 3 Coupling	CAS-A	Mechanical	Submersible Mixer 3	Coupling	-
Submersible Mixer 3 - Anoxic Zone 3 Shaft/Blades	CAS-A	Mechanical	Submersible Mixer 3	Shaft/Blades	-
Submersible Mixer 4 Lifting Davit - Anoxic Zone 3 Anchor	CAS-A	Mechanical	Submersible Mixer 4	Lifting Davit	-
Submersible Mixer 4 - Anoxic Zone 3 Coupling	CAS-A	Mechanical	Submersible Mixer 4	Coupling	-
Submersible Mixer 4 - Anoxic Zone 3 Shaft/Blades	CAS-A	Mechanical	Submersible Mixer 4	Shaft/Blades	-
Submersible Mixer 5 Lifting Davit - Anoxic Zone 3 Anchor	CAS-A	Mechanical	Submersible Mixer 5	Lifting Davit	-
Submersible Mixer 5 - Anoxic Zone 3 Coupling	CAS-A	Mechanical	Submersible Mixer 5	Coupling	-
Submersible Mixer 5 - Anoxic Zone 3 Shaft/Blades	CAS-A	Mechanical	Submersible Mixer 5	Shaft/Blades	-
Submersible Mixer 6 Lifting Davit - Anoxic Zone 3 Anchor	CAS-A	Mechanical	Submersible Mixer 6	Lifting Davit	-
Submersible Mixer 6 - Anoxic Zone 3 Coupling	CAS-A	Mechanical	Submersible Mixer 6	Coupling	-
Submersible Mixer 6 - Anoxic Zone 3 Shaft/Blades	CAS-A	Mechanical	Submersible Mixer 6	Shaft/Blades	-
Submersible Mixer 7 Lifting Davit - Anoxic Zone 3 Anchor	CAS-A	Mechanical	Submersible Mixer 7	Lifting Davit	-
Submersible Mixer 7 - Anoxic Zone 3 Coupling	CAS-A	Mechanical	Submersible Mixer 7	Coupling	-
Submersible Mixer 7 - Anoxic Zone 3 Shaft/Blades	CAS-A	Mechanical	Submersible Mixer 7	Shaft/Blades	-
Submersible Mixer 8 Lifting Davit - Anoxic Zone 3 Anchor	CAS-A	Mechanical	Submersible Mixer 8	Lifting Davit	-
Submersible Mixer 8 - Anoxic Zone 3 Coupling	CAS-A	Mechanical	Submersible Mixer 8	Coupling	-
Submersible Mixer 8 - Anoxic Zone 3 Shaft/Blades	CAS-A	Mechanical	Submersible Mixer 8	Shaft/Blades	-
Final Effluent Collection Chamber – Outlet to CCT distribution chamber	CAS-A	Mechanical	Reactor CAS-A	Wall Mounted Sluice Gate	175 890
Chlorine Contact Tank – Inlet to CCT distribution chamber	CAS-A	Mechanical	Reactor CAS-A	Wall Mounted Sluice Gate	175 890
Chlorine Contact Tank – Inlet and outlet of each CCT	CAS-A	Mechanical	Reactor CAS-A	Wall Mounted Sluice Gate	105 361
Chlorine Contact Tank – Inlet and outlet of each CCT	CAS-A	Mechanical	Reactor CAS-A	Wall Mounted Sluice Gate	153 386
CAS A – Reactor Aerobic Zone Outlet to SST	CAS-A	Mechanical	Reactor CAS-A	Weir	32 609
CAS A – Emergency overflow to SST	CAS-A	Mechanical	Reactor CAS-A	Weir	32 609
Service Water Supply Chamber	CAS-A	Mechanical	Reactor CAS-A	Weir	8 736
CAS A – Aerobic zone to central WAS sump	CAS-A	Mechanical	Reactor CAS-A	Weir	70 042
CAS A – Emergency overflow to SST	CAS-A	Mechanical	Reactor CAS-A	Weir	591 938

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Harmonic Filter 1	CAS-A	Electrical	CAS-A MCC	Harmonic Filter	579 310
Harmonic Filter 2	CAS-A	Electrical	CAS-A MCC	Harmonic Filter	579 310
Outlet - Coagulant Dosing Diffuser 2	CAS-B	Mechanical	Ferric Sulphate Dosing CAS-B	Chemical Diffuser	146 919
Outlet - Coagulant Dosing Diffuser 1	CAS-B	Mechanical	Ferric Sulphate Dosing CAS-B	Chemical Diffuser	146 919
Coagulant Dosing - Anoxic Basin	CAS-B	Mechanical	Ferric Sulphate Dosing CAS-B	Chemical Diffuser	146 919
Sodium Hydroxide Dosing - Anoxic Basin	CAS-B	Mechanical	Sodium Hydroxide Dosing CAS-B	Chemical Diffuser	146 919
SST Bridge 6A Motor 2	CAS-B	Electrical	SST Bridge 6A	Motor	-
SST Bridge 6A Motor 1	CAS-B	Electrical	SST Bridge 6A	Motor	-
SST Bridge 6A Gearbox 2	CAS-B	Mechanical	SST Bridge 6A	Gearbox	-
SST Bridge 6A Gearbox 1	CAS-B	Mechanical	SST Bridge 6A	Gearbox	-
SST Bridge 6A	CAS-B	Mechanical	SST Bridge 6A	Bridge	3 650 968
SST Bridge 5A Motor 2	CAS-B	Electrical	SST Bridge 5A	Motor	-
SST Bridge 5A Motor 1	CAS-B	Electrical	SST Bridge 5A	Motor	-
SST Bridge 5A Gearbox 2	CAS-B	Mechanical	SST Bridge 5A	Gearbox	-
SST Bridge 5A Gearbox 1	CAS-B	Mechanical	SST Bridge 5A	Gearbox	-
SST Bridge 5A	CAS-B	Mechanical	SST Bridge 5A	Bridge	3 650 968
SST Bridge 4A Motor 2	CAS-B	Electrical	SST Bridge 4B	Motor	-
SST Bridge 4A Motor 1	CAS-B	Electrical	SST Bridge 4B	Motor	-
SST Bridge 4A Gearbox 2	CAS-B	Mechanical	SST Bridge 4B	Gearbox	-
SST Bridge 4A Gearbox 1	CAS-B	Mechanical	SST Bridge 4B	Gearbox	-
SST Bridge 4A	CAS-B	Mechanical	SST Bridge 4A	Bridge	3 950 558
SST Bridge 3A Motor 2	CAS-B	Electrical	SST Bridge 3A	Motor	-
SST Bridge 3A Motor 1	CAS-B	Electrical	SST Bridge 3A	Motor	-
SST Bridge 3A Gearbox 2	CAS-B	Mechanical	SST Bridge 3A	Gearbox	-
SST Bridge 3A Gearbox 1	CAS-B	Mechanical	SST Bridge 3A	Gearbox	-
SST Bridge 3B	CAS-B	Mechanical	SST Bridge 3A	Bridge	3 950 558
SST Bridge 2A Motor 2	CAS-B	Electrical	SST Bridge 2A	Motor	-
SST Bridge 2A Motor 1	CAS-B	Electrical	SST Bridge 2A	Motor	-
SST Bridge 2A Gearbox 2	CAS-B	Mechanical	SST Bridge 2A	Gearbox	-
SST Bridge 2A Gearbox 1	CAS-B	Mechanical	SST Bridge 2A	Gearbox	-
SST Bridge 2A	CAS-B	Mechanical	SST Bridge 2A	Bridge	3 950 558
SST Bridge 1A Motor 2	CAS-B	Electrical	SST Bridge 1A	Motor	-
SST Bridge 1A Motor 1	CAS-B	Electrical	SST Bridge 1B	Motor	-
SST Bridge 1A Gearbox 2	CAS-B	Mechanical	SST Bridge 1A	Gearbox	-

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SST Bridge 1A Gearbox 1	CAS-B	Mechanical	SST Bridge 1A	Gearbox	-
SST Bridge 1A	CAS-B	Mechanical	SST Bridge 1A	Bridge	3 950 558
CAS A&B - Aerator Junction boxes and cabling	CAS-B	Electrical	Secondary Settling Tanks	Junction boxes aerators	239 835
CAS A/B & MBR-A - Additional junction boxes	CAS-B	Electrical	Reactor CAS-B	Junction boxes	52 851
CAS A & B/ MBR-A - Additional Electrical Works	CAS-B	Electrical	Reactor CAS-B	Junction boxes	109 335
SECTION B - Bioreactor Outlet Baffles	CAS-B	Mechanical	Reactor CAS-B	Weir	155 305
Section B - Retrofit Breakers and Digital Power meters as CAS A & B MCC's (Kaltron Quote VO 54)	CAS-B	Electrical	MCC CAS-B	Breakers	388 390
Section B - Inverter with Lithium batteries and UPS with lead acid batteries for PLC - (Kaltron Quote VO 53) Inverter back up system	CAS-B	Electrical	MCC CAS-B	Inverters	281 077
Section B - Final Effluent measurement (Kaltron VO 65)	CAS-B	Electrical	Contact tank	Weir	105 242
Central inlet pipe and stilling well/ chamber for SST's (for one complete tank)	CAS-B	Mechanical	SSTs Common	Inlet Stilling basin	5 595 773
SS V-notch weirs for full circumference of the clarifier	CAS-B	Mechanical	SSTs Common	V-notch weirs	347 548
SS scum baffle plates for full circumference of the clarifier	CAS-B	Mechanical	SSTs Common	scum baffles	1 410 035
SS Scum trough/ box and draw-off mechanism	CAS-B	Mechanical	SSTs Common	Scum trough	456 931
SS Scum withdrawal pipework, flanges and fittings (for all clarifiers)	CAS-B	Mechanical	SSTs Common	Scum pipework	90 828
Sloped-bottom clarifier Full Bridge and supports complete with centre bearings, sludge scrapers, end carriage, drive, access ladders and associated equipment New SSTs	CAS-B	Mechanical	SSTs Common	SST scrapers	3 074 010
Central inlet pipe and stilling well/ chamber for SST's (for one complete tank) New SSTs	CAS-B	Mechanical	SSTs Common	Inlet Pipe	2 356 698
SS V-notch weirs (75 mm deep) for full circumference of the clarifier New SSTs	CAS-B	Mechanical	SSTs Common	V-notch weirs	195 814
SS scum baffle plates for full circumference of the clarifier New SSTs	CAS-B	Mechanical	SSTs Common	scum baffles	700 488
SS Scum trough/ box and draw-off mechanism New SSTs	CAS-B	Mechanical	SSTs Common	Scum trough	885 674
SS Scum withdrawal pipework, flanges and fittings (for all clarifiers) New SSTs	CAS-B	Mechanical	SSTs Common	Scum pipework	89 252

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Section B - CAS A/B - SSTs - Change in Scum Box and Isolation Valve quantities	CAS-B	Mechanical	SSTs Common	scum baffles	1 745 406
RAS Pump Station Crawl Beam	CAS-B	Mechanical	RAS Pump Station	Lifting Equipment	0
Surface Aerator 10 - Aerobic Zone 3 Gearbox	CAS-B	Mechanical	Surface Aerator 10	Gearbox	0
Surface Aerator 10 - Aerobic Zone 3	CAS-B	Mechanical	Surface Aerator 10	Surface Aerator	885 602
Surface Aerator 9 - Aerobic Zone 3 Gearbox	CAS-B	Mechanical	Surface Aerator 9	Gearbox	0
Surface Aerator 9 - Aerobic Zone 3	CAS-B	Mechanical	Surface Aerator 9	Surface Aerator	885 602
Surface Aerator 8 - Aerobic Zone 3 Gearbox	CAS-B	Mechanical	Surface Aerator 8	Gearbox	0
Surface Aerator 8 - Aerobic Zone 3	CAS-B	Mechanical	Surface Aerator 8	Surface Aerator	1 199 428
Surface Aerator 7 - Aerobic Zone 3 Gearbox	CAS-B	Mechanical	Surface Aerator 7	Gearbox	0
Surface Aerator 7 - Aerobic Zone 3	CAS-B	Mechanical	Surface Aerator 7	Surface Aerator	1 199 428
Surface Aerator 6 - Aerobic Zone 2 Gearbox	CAS-B	Mechanical	Surface Aerator 6	Gearbox	0
Surface Aerator 6 - Aerobic Zone 2	CAS-B	Mechanical	Surface Aerator 6	Surface Aerator	1 199 428
Surface Aerator 5 - Aerobic Zone 2 Gearbox	CAS-B	Mechanical	Surface Aerator 5	Gearbox	0
Surface Aerator 5 - Aerobic Zone 2	CAS-B	Mechanical	Surface Aerator 5	Surface Aerator	1 199 428
Surface Aerator 4 - Aerobic Zone 2 Gearbox	CAS-B	Mechanical	Surface Aerator 4	Gearbox	0
Surface Aerator 4 - Aerobic Zone 2	CAS-B	Mechanical	Surface Aerator 4	Surface Aerator	1 199 428
Surface Aerator 3 - Aerobic Zone 1 Gearbox	CAS-B	Mechanical	Surface Aerator 3	Gearbox	0
Surface Aerator 3 - Aerobic Zone 1	CAS-B	Mechanical	Surface Aerator 3	Surface Aerator	1 293 557
Surface Aerator 2 - Aerobic Zone 1 Gearbox	CAS-B	Mechanical	Surface Aerator 2	Gearbox	0
Surface Aerator 2 - Aerobic Zone 1	CAS-B	Mechanical	Surface Aerator 2	Surface Aerator	1 293 557
Surface Aerator 1 - Aerobic Zone 1 Gearbox	CAS-B	Mechanical	Surface Aerator 1	Gearbox	0
Surface Aerator 1 - Aerobic Zone 1	CAS-B	Mechanical	Surface Aerator 1	Surface Aerator	1 293 557
Surface Aerator 10 - Aerobic Zone 3 Motor	CAS-B	Electrical	Surface Aerator 10	Motor	-
Surface Aerator 9 - Aerobic Zone 3 Motor	CAS-B	Electrical	Surface Aerator 9	Motor	-
Surface Aerator 8 - Aerobic Zone 3 Motor	CAS-B	Electrical	Surface Aerator 8	Motor	-
Surface Aerator 7 - Aerobic Zone 3 Motor	CAS-B	Electrical	Surface Aerator 7	Motor	-
Surface Aerator 6 - Aerobic Zone 2 Motor	CAS-B	Electrical	Surface Aerator 6	Motor	-
Surface Aerator 5 - Aerobic Zone 2 Motor	CAS-B	Electrical	Surface Aerator 5	Motor	-
Surface Aerator 4 - Aerobic Zone 2 Motor	CAS-B	Electrical	Surface Aerator 4	Motor	-
Surface Aerator 3 - Aerobic Zone 1 Motor	CAS-B	Electrical	Surface Aerator 3	Motor	-
Surface Aerator 2 - Aerobic Zone 1 Motor	CAS-B	Electrical	Surface Aerator 2	Motor	-
Surface Aerator 1 - Aerobic Zone 1 Motor	CAS-B	Electrical	Surface Aerator 1	Motor	-
WAS Pump 2 Gearbox	CAS-B	Mechanical	WAS Pump 2	Gearbox	-

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WAS Pump 2	CAS-B	Mechanical	WAS Pump 2	Motor	189 140
WAS Pump 1 Gearbox	CAS-B	Mechanical	WAS Pump 1	Gearbox	-
WAS Pump 1	CAS-B	Mechanical	WAS Pump 1	Motor	189 140
WAS Pump 2 Motor	CAS-B	Electrical	WAS Pump 2	Motor	-
WAS Pump 1 Motor	CAS-B	Electrical	WAS Pump 1	Motor	-
AeAx Submersible Recycle Pump 3 Motor	CAS-B	Electrical	Ae-Ax Submersible Recycle Pump 3	Motor	-
AeAx Submersible Recycle Pump 3 Gearbox	CAS-B	Mechanical	Ae-Ax Submersible Recycle Pump 3	Gearbox	-
AeAx Submersible Recycle Pump 3	CAS-B	Mechanical	Ae-Ax Submersible Recycle Pump 3	Submersible Pump	886 602
AeAx Submersible Recycle Pump 2 Motor	CAS-B	Electrical	Ae-Ax Submersible Recycle Pump 2	Motor	-
AeAx Submersible Recycle Pump 2 Gearbox	CAS-B	Mechanical	Ae-Ax Submersible Recycle Pump 2	Gearbox	-
AeAx Submersible Recycle Pump 2	CAS-B	Mechanical	Ae-Ax Submersible Recycle Pump 2	Submersible Pump	886 602
AeAx Submersible Recycle Pump 1 Motor	CAS-B	Electrical	Ae-Ax Submersible Recycle Pump 1	Motor	-
AeAx Submersible Recycle Pump 1 Gearbox	CAS-B	Mechanical	Ae-Ax Submersible Recycle Pump 1	Gearbox	-
AeAx Submersible Recycle Pump 1	CAS-B	Mechanical	Ae-Ax Submersible Recycle Pump 1	Submersible Pump	886 602
RAS Submersible Pump 2	CAS-B	Mechanical	RAS Submersible Pump 2	Motor	663 635
RAS Submersible Pump 1	CAS-B	Mechanical	RAS Submersible Pump 1	Motor	663 635
RAS Submersible Pump 2 Motor	CAS-B	Electrical	RAS Submersible Pump 2	Motor	-
RAS Submersible Pump 1 Motor	CAS-B	Electrical	RAS Submersible Pump 1	Motor	-
Submersible Mixer 8 - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 8	Motor	263 394
Submersible Mixer 7 - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 7	Motor	263 394
Submersible Mixer 6 - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 6	Motor	263 394
Submersible Mixer 5 - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 5	Motor	263 394
Submersible Mixer 4 - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 4	Motor	263 394
Submersible Mixer 3 - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 3	Motor	263 394
Submersible Mixer 2 - Anoxic Zone 2	CAS-B	Mechanical	Submersible Mixer 2	Motor	263 394
Submersible Mixer 1 - Anoxic Zone 1 Motor	CAS-B	Electrical	Submersible Mixer 1	Motor	-
Submersible Mixer 1 - Anoxic Zone 1	CAS-B	Mechanical	Submersible Mixer 2	Motor	263 394
Submersible Mixer 8 - Anoxic Zone 3 Motor	CAS-B	Electrical	Submersible Mixer 2	Motor	-
Submersible Mixer 7 - Anoxic Zone 3 Motor	CAS-B	Electrical	Submersible Mixer 3	Motor	-
Submersible Mixer 6 - Anoxic Zone 3 Motor	CAS-B	Electrical	Submersible Mixer 4	Motor	-
Submersible Mixer 5 - Anoxic Zone 3 Motor	CAS-B	Electrical	Submersible Mixer 5	Motor	-
Submersible Mixer 4 - Anoxic Zone 3 Motor	CAS-B	Electrical	Submersible Mixer 6	Motor	-
Submersible Mixer 3 - Anoxic Zone 3 Motor	CAS-B	Electrical	Submersible Mixer 7	Motor	-
Submersible Mixer 2 - Anoxic Zone 2 Motor	CAS-B	Electrical	Submersible Mixer 8	Motor	-

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Submersible Mixer 8 Lifting Davit - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 8	Lifting Davit	173 147
Submersible Mixer 7 Lifting Davit - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 7	Lifting Davit	173 147
Submersible Mixer 6 Lifting Davit - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 6	Lifting Davit	173 147
Submersible Mixer 5 Lifting Davit - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 5	Lifting Davit	173 147
Submersible Mixer 4 Lifting Davit - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 4	Lifting Davit	173 147
Submersible Mixer 3 Lifting Davit - Anoxic Zone 3	CAS-B	Mechanical	Submersible Mixer 3	Lifting Davit	173 147
Submersible Mixer 2 Lifting Davit - Anoxic Zone 2	CAS-B	Mechanical	Submersible Mixer 2	Lifting Davit	173 147
Submersible Mixer 1 Lifting Davit - Anoxic Zone 1	CAS-B	Mechanical	Submersible Mixer 1	Lifting Davit	173 147
Biological Reactor Bypass to SST's Sluice Gate Wall-mounted Penstock	CAS-B	Mechanical	Outlet	Wall-mounted Penstock	-
Outlet Tilting Weir 2	CAS-B	Mechanical	Outlet	Tilting Weir	87 512
Outlet Tilting Weir 1	CAS-B	Mechanical	Outlet	Tilting Weir	87 512
Outlet Sluice Gate - HandStop 6 Stoplog	CAS-B	Mechanical	Outlet Sluice Gate 6 Wall-mounted Penstock	Stoplog	-
Outlet Sluice Gate - HandStop 5 Stoplog	CAS-B	Mechanical	Outlet Sluice Gate 5 Wall-mounted Penstock	Stoplog	-
Outlet Sluice Gate - HandStop 4 Stoplog	CAS-B	Mechanical	Outlet Sluice Gate 4 Wall-mounted Penstock	Stoplog	-
Outlet Sluice Gate - HandStop 3 Stoplog	CAS-B	Mechanical	Outlet Sluice Gate 3 Wall-mounted Penstock	Stoplog	-
Outlet Sluice Gate - HandStop 2 Stoplog	CAS-B	Mechanical	Outlet Sluice Gate 2 Wall-mounted Penstock	Stoplog	-
Outlet Sluice Gate - HandStop 1 Stoplog	CAS-B	Mechanical	Outlet Sluice Gate 1 Wall-mounted Penstock	Stoplog	-
Outlet Sluice Gate 6 Wall-mounted Penstock	CAS-B	Mechanical	Outlet Sluice Gate 6 Wall-mounted Penstock	Wall-mounted Penstock	217 249
Outlet Sluice Gate 5 Wall-mounted Penstock	CAS-B	Mechanical	Outlet Sluice Gate 5 Wall-mounted Penstock	Wall-mounted Penstock	217 249
Outlet Sluice Gate 4 Wall-mounted Penstock	CAS-B	Mechanical	Outlet Sluice Gate 4 Wall-mounted Penstock	Wall-mounted Penstock	217 249
Outlet Sluice Gate 3 Wall-mounted Penstock	CAS-B	Mechanical	Outlet Sluice Gate 3 Wall-mounted Penstock	Wall-mounted Penstock	217 249
Outlet Sluice Gate 2 Wall-mounted Penstock	CAS-B	Mechanical	Outlet Sluice Gate 2 Wall-mounted Penstock	Wall-mounted Penstock	217 249

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Outlet Sluice Gate 1 Wall-mounted Penstock	CAS-B	Mechanical	Outlet Sluice Gate 1 Wall-mounted Penstock	Wall-mounted Penstock	217 249
AE-AX Recycle Pump 1 & 2 Lifting Davit	CAS-B	Mechanical	AE-AX Recycle Pump 1 & 2 Lifting Davit	Lifting Equipment	173 147
AE-AX Recycle Pump 3 Lifting Davit	CAS-B	Mechanical	AE-AX Recycle Pump 3 Lifting Davit	Lifting Equipment	173 147
SST Bridge 1A Wheel 1	CAS-B	Mechanical	SST Bridge 1B	Wheel	-
SST Bridge 1A Wheel 2	CAS-B	Mechanical	SST Bridge 1B	Wheel	-
SST Bridge 1A Wheel 3	CAS-B	Mechanical	SST Bridge 1B	Wheel	-
SST Bridge 1A Wheel 4	CAS-B	Mechanical	SST Bridge 1B	Wheel	-
SST Bridge 1A Bottom Scraper	CAS-B	Mechanical	SST Bridge 1B	Bottom Scraper	-
SST Bridge 1A Scum Scraper	CAS-B	Mechanical	SST Bridge 1B	Scum Scraper	-
SST Bridge 1A Scum Removal Box 1	CAS-B	Mechanical	SST Bridge 1B	Scum Removal Box	-
SST Bridge 1A Scum Removal Box 2	CAS-B	Mechanical	SST Bridge 1B	Scum Removal Box	-
SST Bridge 2A Wheel 1	CAS-B	Mechanical	SST Bridge 2B	Wheel	-
SST Bridge 2A Wheel 2	CAS-B	Mechanical	SST Bridge 2B	Wheel	-
SST Bridge 2A Wheel 3	CAS-B	Mechanical	SST Bridge 2B	Wheel	-
SST Bridge 2A Wheel 4	CAS-B	Mechanical	SST Bridge 2B	Wheel	-
SST Bridge 2A Bottom Scraper	CAS-B	Mechanical	SST Bridge 2B	Bottom Scraper	-
SST Bridge 2A Scum Scraper	CAS-B	Mechanical	SST Bridge 2B	Scum Scraper	-
SST Bridge 2A Scum Removal Box 1	CAS-B	Mechanical	SST Bridge 2B	Scum Removal Box	-
SST Bridge 2A Scum Removal Box 2	CAS-B	Mechanical	SST Bridge 2B	Scum Removal Box	-
SST Bridge 3A Wheel 1	CAS-B	Mechanical	SST Bridge 3B	Wheel	-
SST Bridge 3A Wheel 2	CAS-B	Mechanical	SST Bridge 3B	Wheel	-
SST Bridge 3A Wheel 3	CAS-B	Mechanical	SST Bridge 3B	Wheel	-
SST Bridge 3A Wheel 4	CAS-B	Mechanical	SST Bridge 3B	Wheel	-
SST Bridge 3A Bottom Scraper	CAS-B	Mechanical	SST Bridge 3B	Bottom Scraper	-
SST Bridge 3A Scum Scraper	CAS-B	Mechanical	SST Bridge 3B	Scum Scraper	-
SST Bridge 3A Scum Removal Box 1	CAS-B	Mechanical	SST Bridge 3B	Scum Removal Box	-
SST Bridge 3A Scum Removal Box 2	CAS-B	Mechanical	SST Bridge 3B	Scum Removal Box	-
SST Bridge 4A Wheel 1	CAS-B	Mechanical	SST Bridge 4B	Wheel	-
SST Bridge 4A Wheel 2	CAS-B	Mechanical	SST Bridge 4B	Wheel	-
SST Bridge 4A Wheel 3	CAS-B	Mechanical	SST Bridge 4B	Wheel	-
SST Bridge 4A Wheel 4	CAS-B	Mechanical	SST Bridge 4B	Wheel	-
SST Bridge 4A Bottom Scraper	CAS-B	Mechanical	SST Bridge 4B	Bottom Scraper	-
SST Bridge 4A Scum Scraper	CAS-B	Mechanical	SST Bridge 4B	Scum Scraper	-

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SST Bridge 4A Scum Removal Box 1	CAS-B	Mechanical	SST Bridge 4B	Scum Removal Box	-
SST Bridge 4A Scum Removal Box 2	CAS-B	Mechanical	SST Bridge 4B	Scum Removal Box	-
SST Bridge 5A Wheel 1	CAS-B	Mechanical	SST Bridge 5B	Wheel	-
SST Bridge 5A Wheel 2	CAS-B	Mechanical	SST Bridge 5B	Wheel	-
SST Bridge 5A Wheel 3	CAS-B	Mechanical	SST Bridge 5B	Wheel	-
SST Bridge 5A Wheel 4	CAS-B	Mechanical	SST Bridge 5B	Wheel	-
SST Bridge 5A Bottom Scraper	CAS-B	Mechanical	SST Bridge 5B	Bottom Scraper	-
SST Bridge 5A Scum Scraper	CAS-B	Mechanical	SST Bridge 5B	Scum Scraper	-
SST Bridge 5A Scum Removal Box 1	CAS-B	Mechanical	SST Bridge 5B	Scum Removal Box	-
SST Bridge 5A Scum Removal Box 2	CAS-B	Mechanical	SST Bridge 5B	Scum Removal Box	-
SST Bridge 6A Wheel 1	CAS-B	Mechanical	SST Bridge 6B	Wheel	-
SST Bridge 6A Wheel 2	CAS-B	Mechanical	SST Bridge 6B	Wheel	-
SST Bridge 6A Wheel 3	CAS-B	Mechanical	SST Bridge 6B	Wheel	-
SST Bridge 6A Wheel 4	CAS-B	Mechanical	SST Bridge 6B	Wheel	-
SST Bridge 6A Bottom Scraper	CAS-B	Mechanical	SST Bridge 6B	Bottom Scraper	-
SST Bridge 6A Scum Scraper	CAS-B	Mechanical	SST Bridge 6B	Scum Scraper	-
SST Bridge 6A Scum Removal Box 1	CAS-B	Mechanical	SST Bridge 6B	Scum Removal Box	-
SST Bridge 6A Scum Removal Box 2	CAS-B	Mechanical	SST Bridge 6B	Scum Removal Box	-
Final Effluent Collection Chamber – Outlet to CCT distribution chamber	CAS-B	Mechanical	Reactor CAS-B	Wall Mounted Sluice Gate	175 890
Chlorine Contact Tank – Inlet to CCT distribution chamber	CAS-B	Mechanical	Reactor CAS-B	Wall Mounted Sluice Gate	175 890
Chlorine Contact Tank – Inlet and outlet of each CCT	CAS-B	Mechanical	Reactor CAS-B	Wall Mounted Sluice Gate	105 361
Chlorine Contact Tank – Inlet and outlet of each CCT	CAS-B	Mechanical	Reactor CAS-B	Wall Mounted Sluice Gate	153 386
CAS B – Reactor Aerobic Zone Outlet to SST	CAS-B	Mechanical	Reactor CAS-B	Weir	32 609
CAS B – Emergency overflow to SST	CAS-B	Mechanical	Reactor CAS-B	Weir	32 609
CAS B – Aerobic zone to central WAS sump	CAS-B	Mechanical	Reactor CAS-B	Weir	70 042
CAS B – Emergency overflow to SST	CAS-B	Mechanical	Reactor CAS-B	Weir	591 938
Harmonic Filter 1	CAS-B	Electrical	CAS B MCC	Harmonic Filter	579 310
Harmonic Filter 2	CAS-B	Electrical	CAS B MCC	Harmonic Filter	579 310
Aerobic Basin - Actuated V Port Knife Gate Valve 1	MBR-A	Mechanical	Aerobic Basin MBR-A	Sluice Gate	157 326
Aerobic Basin - Actuated V Port Knife Gate Valve 1 Motor	MBR-A	Electrical	Aerobic Basin MBR-A	Motor	-

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Aerobic Basin - Actuated V Port Knife Gate Valve 2	MBR-A	Mechanical	Aerobic Basin MBR-A	Sluice Gate	157 326
Aerobic Basin - Actuated V Port Knife Gate Valve 2 Motor	MBR-A	Electrical	Aerobic Basin MBR-A	Motor	-
Aerobic Basin - Actuated V Port Knife Gate Valve 3	MBR-A	Mechanical	Aerobic Basin MBR-A	Sluice Gate	157 326
Aerobic Basin - Actuated V Port Knife Gate Valve 3 Motor	MBR-A	Electrical	Aerobic Basin MBR-A	Motor	-
Aerobic Basin - Actuated V Port Knife Gate Valve 4	MBR-A	Mechanical	Aerobic Basin MBR-A	Sluice Gate	157 326
Aerobic Basin - Actuated V Port Knife Gate Valve 4 Motor	MBR-A	Electrical	Aerobic Basin MBR-A	Motor	-
Aerobic Basin - Actuated V Port Knife Gate Valve 5	MBR-A	Mechanical	Aerobic Basin MBR-A	Sluice Gate	157 326
Aerobic Basin - Actuated V Port Knife Gate Valve 5 Motor	MBR-A	Electrical	Aerobic Basin MBR-A	Motor	-
Membrane plant ventilation/air ejection system	MBR-A	Mechanical	Air Ejection System MBR	Air Ejection System MBR-B	301 934
Air Receiver 1	MBR-A	Mechanical	Air Receiver 1	Air Receiver	99 630
Air Receiver 2	MBR-A	Mechanical	Air Receiver 2	Air Receiver	99 630
Air Scour Blower 1 Gearbox	MBR-A	Mechanical	Air Scour Blower 1	Gearbox	-
Air Scour Blower 1 Inlet Filter	MBR-A	Mechanical	Air Scour Blower 1	Filter	-
Air Scour Blower 1 Motor	MBR-A	Electrical	Air Scour Blower 1	Motor	-
Air Scour Blower 1	MBR-A	Mechanical	Air Scour Blower 1	Blower	1 592 596
Air Scour Blower 2 Gearbox	MBR-A	Mechanical	Air Scour Blower 2	Gearbox	-
Air Scour Blower 2 Inlet Filter	MBR-A	Mechanical	Air Scour Blower 2	Filter	-
Air Scour Blower 2 Motor	MBR-A	Electrical	Air Scour Blower 2	Motor	-
Air Scour Blower 2	MBR-A	Mechanical	Air Scour Blower 2	Blower	1 592 596
Air Scour Blower 3 Gearbox	MBR-A	Mechanical	Air Scour Blower 3	Gearbox	-
Air Scour Blower 3 Inlet Filter	MBR-A	Mechanical	Air Scour Blower 3	Filter	-
Air Scour Blower 3 Motor	MBR-A	Electrical	Air Scour Blower 3	Motor	-
Air Scour Blower 3	MBR-A	Mechanical	Air Scour Blower 3	Blower	1 592 596
Air/ Water Separator 1	MBR-A	Mechanical	Air/ Water Separator 1	Separator	28 090
Air/ Water Separator 2	MBR-A	Mechanical	Air/ Water Separator 2	Separator	28 090
Sample to Ammonia Transmitter VA Meter (Rotameter)	MBR-A	Instrumentation	Ammonia Analyser MBR-A	VA Meter (Rotameter)	-
Anaerobic Mixer 1 Gearbox	MBR-A	Mechanical	Anaerobic Mixer 1	Gearbox	-
Anaerobic Mixer 1 Motor	MBR-A	Electrical	Anaerobic Mixer 1	Motor	-
Anaerobic Mixer 1	MBR-A	Mechanical	Anaerobic Mixer 1	Mixer	258 629
Anaerobic Mixer 2 Gearbox	MBR-A	Mechanical	Anaerobic Mixer 2	Gearbox	-
Anaerobic Mixer 2 Motor	MBR-A	Electrical	Anaerobic Mixer 2	Motor	-
Anaerobic Mixer 2	MBR-A	Mechanical	Anaerobic Mixer 2	Mixer	258 629
Anaerobic Mixer 3 Gearbox	MBR-A	Mechanical	Anaerobic Mixer 3	Gearbox	-

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Anaerobic Mixer 3 Motor	MBR-A	Electrical	Anaerobic Mixer 3	Motor	-
Anaerobic Mixer 3	MBR-A	Mechanical	Anaerobic Mixer 3	Mixer	258 629
Anaerobic Mixer 4 Gearbox	MBR-A	Mechanical	Anaerobic Mixer 4	Gearbox	-
Anaerobic Mixer 4 Motor	MBR-A	Electrical	Anaerobic Mixer 4	Motor	-
Anaerobic Mixer 4	MBR-A	Mechanical	Anaerobic Mixer 4	Mixer	258 629
Anaerobic Mixer 5 Gearbox	MBR-A	Mechanical	Anaerobic Mixer 5	Gearbox	-
Anaerobic Mixer 5 Motor	MBR-A	Electrical	Anaerobic Mixer 5	Motor	-
Anaerobic Mixer 5	MBR-A	Mechanical	Anaerobic Mixer 5	Mixer	258 629
Anaerobic Mixer 6 Gearbox	MBR-A	Mechanical	Anaerobic Mixer 6	Gearbox	-
Anaerobic Mixer 6 Motor	MBR-A	Electrical	Anaerobic Mixer 6	Motor	-
Anaerobic Mixer 6	MBR-A	Mechanical	Anaerobic Mixer 6	Mixer	258 629
Anoxic Mixer 1 Gearbox	MBR-A	Mechanical	Anoxic Mixer 1	Gearbox	-
Anoxic Mixer 1 Motor	MBR-A	Electrical	Anoxic Mixer 1	Motor	-
Anoxic Mixer 1	MBR-A	Mechanical	Anoxic Mixer 1	Mixer	258 629
Anoxic Mixer 2 Gearbox	MBR-A	Mechanical	Anoxic Mixer 2	Gearbox	-
Anoxic Mixer 2 Motor	MBR-A	Electrical	Anoxic Mixer 2	Motor	-
Anoxic Mixer 2	MBR-A	Mechanical	Anoxic Mixer 2	Mixer	258 629
Anoxic Mixer 3 Gearbox	MBR-A	Mechanical	Anoxic Mixer 3	Gearbox	-
Anoxic Mixer 3 Motor	MBR-A	Electrical	Anoxic Mixer 3	Motor	-
Anoxic Mixer 3	MBR-A	Mechanical	Anoxic Mixer 3	Mixer	258 629
Anoxic Mixer 4 Gearbox	MBR-A	Mechanical	Anoxic Mixer 4	Gearbox	-
Anoxic Mixer 4 Motor	MBR-A	Electrical	Anoxic Mixer 4	Motor	-
Anoxic Mixer 4	MBR-A	Mechanical	Anoxic Mixer 4	Mixer	258 629
Anoxic Mixer 5 Gearbox	MBR-A	Mechanical	Anoxic Mixer 5	Gearbox	-
Anoxic Mixer 5 Motor	MBR-A	Electrical	Anoxic Mixer 5	Motor	-
Anoxic Mixer 5	MBR-A	Mechanical	Anoxic Mixer 5	Mixer	258 629
Anoxic Mixer 6 Gearbox	MBR-A	Mechanical	Anoxic Mixer 6	Gearbox	-
Anoxic Mixer 6 Motor	MBR-A	Electrical	Anoxic Mixer 6	Motor	-
Anoxic Mixer 6	MBR-A	Mechanical	Anoxic Mixer 6	Mixer	258 629
Ax-An Recycle Pump 1	MBR-A	Mechanical	AX-AN pump 1	Pump	362 979
Ax-An Recycle Pump 2	MBR-A	Mechanical	AX-AN pump 2	Pump	362 979
Tesys-T	MBR-A	Electrical	Blower Room HVAC Fan 1	Voltage Monitor	-
Tesys-T	MBR-A	Electrical	Blower Room HVAC Fan 2	Voltage Monitor	-
Tesys-T	MBR-A	Electrical	Blower Room HVAC Fan 3	Voltage Monitor	-

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Tesys-T	MBR-A	Electrical	Blower Room HVAC Fan 4	Voltage Monitor	-
Tesys-T	MBR-A	Electrical	Blower Room HVAC Fan 5	Voltage Monitor	-
Citric Acid CIP Room Fan Filter	MBR-A	Mechanical	CIP Citric Acid Dosing MBR-A	Air Filter	-
PLC Card	MBR-A	Electrical	CIP Citric Acid Dosing MBR-A	Voltage Monitor	-
Citric Acid CIP Dosing Pump 1	MBR-A	Mechanical	CIP Citric Acid Dosing Pump 1	Dosing Pump	78 257
Citric Acid CIP Dosing Pump 1 Inline Strainer	MBR-A	Mechanical	CIP Citric Acid Dosing Pump 1	Inline Strainer	-
Citric Acid CIP Dosing Pump 1 Inline Strainer (Motor)	MBR-A	Electrical	CIP Citric Acid Dosing Pump 1	Motor	-
Citric Acid Mixer (Gearbox)	MBR-A	Electrical	CIP Citric Acid Dosing Pump 1	Gearbox	-
Citric Acid Screw Conveyor (Gearbox)	MBR-A	Mechanical	CIP Citric Acid Dosing Pump 1	Gearbox	-
Citric Acid CIP Dosing Pump 2	MBR-A	Mechanical	CIP Citric Acid Dosing Pump 2	Dosing Pump	78 257
Citric Acid CIP Dosing Pump 2 Inline Strainer	MBR-A	Mechanical	CIP Citric Acid Dosing Pump 2	Inline Strainer	-
Citric Acid CIP Room Fan (Gearbox)	MBR-A	Mechanical	CIP Citric Acid Dosing Pump 2	Gearbox	-
Citric Acid CIP Dosing Pump 3	MBR-A	Mechanical	CIP Citric Acid Dosing Pump 3	Dosing Pump	78 257
Citric Acid CIP Dosing Pump 3 Inline Strainer	MBR-A	Mechanical	CIP Citric Acid Dosing Pump 3	Inline Strainer	-
Compressor 1 (Gearbox)	MBR-A	Electrical	CIP Citric Acid Dosing Pump 3	Gearbox	-
Compressor 1 (Motor)	MBR-A	Electrical	CIP Citric Acid Dosing Pump 3	Motor	-
Chemical room ventilation system	MBR-A	Mechanical	CIP Citric Acid MBR-A	CIP Citric Acid MBR-A	14 330
CIP: Citric acid dosing system (bundled skids and cabinet etc) as specified	MBR-A	Mechanical	CIP Citric Acid MBR-A	CIP Citric Acid MBR-A	444 003
Citric acid batching dust collection system	MBR-A	Mechanical	CIP Citric Acid MBR-A	Dust collection system	426 734
Access platform	MBR-A	Mechanical	CIP Citric Acid MBR-A	Platform	50 322
MBR A: Citric acid dosing room overhead travelling crane	MBR-A	Mechanical	CIP Citric Acid MBR-A	Crane	484 837
Tesys-T	MBR-A	Electrical	CIP Citric Acid MBR-A	Voltage Monitor	-
Citric Acid Bulk Bag Unloader - Pneumatic control box	MBR-A	Mechanical	CIP Citric Acid MBR-A	Pneumatic Control Box	-
Citric Acid Bulk Bag Unloader - Vibrator Motor	MBR-A	Electrical	CIP Citric Acid MBR-A	Motor	-
Citric Acid Bulk Bag Unloader	MBR-A	Mechanical	CIP Citric Acid MBR-A	Bulk Unloader	135 629
Citric Acid Calibration Tube	MBR-A	Mechanical	CIP Citric Acid MBR-A	Calibration Tube	-
Citric Acid CIP Dosing Pulsation Dampener	MBR-A	Mechanical	CIP Citric Acid MBR-A	Pulsation Dampener	29 214
Citric Acid CIP Dosing Pulsation Damper	MBR-A	Mechanical	CIP Citric Acid MBR-A	Pulsation Dampener	29 214
Chemical room ventilation system Sodium Hypochlorite	MBR-A	Mechanical	CIP Sodium Hypochlorite MBR-A	CIP Sodium Hypochlorite MBR-A	-

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CIP: Sodium hypochlorite dosing system (bundled skids and cabinet etc) as specified	MBR-A	Mechanical	CIP Sodium Hypochlorite MBR-A	CIP Sodium Hypochlorite MBR-A	444 003
Scum suppression system: Sodium hypochlorite dosing system	MBR-A	Mechanical	CIP Sodium Hypochlorite MBR-A	CIP Sodium Hypochlorite MBR-A	198 783
Access platform	MBR-A	Mechanical	CIP Sodium Hypochlorite MBR-A	Platform	50 322
Citric Acid Dosing Inline Strainer 1	MBR-A	Mechanical	Citric Acid Dosing Inline Strainer 1	Inline Strainer	-
Citric Acid Dosing Inline Strainer 2	MBR-A	Mechanical	Citric Acid Dosing Inline Strainer 2	Inline Strainer	-
Citric Acid Dust Extractor	MBR-A	Mechanical	Citric Acid Dust Extractor	Dust Extractor	284 271
Tesys-T	MBR-A	Electrical	Citric Acid Dust Extractor Fan	Voltage Monitor	-
Citric Acid Screw Conveyer Gearbox	MBR-A	Mechanical	Citric Acid Make Up	Gearbox	-
Citric Acid Screw Conveyor Motor	MBR-A	Electrical	Citric Acid Make Up	Motor	-
Citric Acid Mixer	MBR-A	Mechanical	Citric Acid Mixer	Mixer	182 215
Citric Acid Mixer Gearbox	MBR-A	Mechanical	Citric Acid Mixer	Gearbox	-
Citric Acid Mixer Gearbox	MBR-A	Mechanical	Citric Acid Mixer	Gearbox	-
Citric Acid Mixer Motor	MBR-A	Electrical	Citric Acid Mixer	Motor	-
Tesys-T	MBR-A	Electrical	Citric Acid Mixer	Voltage Monitor	-
Citric Acid Room Chain Lift	MBR-A	Mechanical	Citric Acid Room Chain Lift	Chain Lift	42 697
Citric Acid Room Chain Lift	MBR-A	Mechanical	Citric Acid Room Crane	Chain Lift	-
Citric Acid Room Safety Shower	MBR-A	Mechanical	Citric Acid Room Safety Shower	Safety Shower	17 416
Citric Acid Screw Conveyor	MBR-A	Mechanical	Citric Acid Screw Conveyor	Conveyor	109 714
Citric Acid Screw Conveyor Gearbox	MBR-A	Mechanical	Citric Acid Screw Conveyor	Gearbox	-
Tesys-T	MBR-A	Electrical	Citric Acid Screw Conveyor	Voltage Monitor	-
Citric Acid Storage Tank	MBR-A	Mechanical	Citric Acid Storage Tank	Tank	174 977
Double Door on Service Water Feed To Citric Acid Tank	MBR-A	Mechanical	Citric Acid Tank	Double Door	-
Crane - Air Scour Blower Room Chain Block	MBR-A	Mechanical	Crane - Air Scour Blower Room	Chain Block	-
Crane - Air Scour Blower Room Gearbox 1	MBR-A	Mechanical	Crane - Air Scour Blower Room	Gearbox	-
Crane - Air Scour Blower Room Gearbox 2	MBR-A	Mechanical	Crane - Air Scour Blower Room	Gearbox	-
Crane - Air Scour Blower Room Gearbox 3	MBR-A	Mechanical	Crane - Air Scour Blower Room	Gearbox	-
Crane - Air Scour Blower Room Lifting Beam	MBR-A	Mechanical	Crane - Air Scour Blower Room	Lifting Beam	-
Crane - Air Scour Blower Room Lifting Beam (Motor)	MBR-A	Electrical	Crane - Air Scour Blower Room	Motor	-
Crane - Air Scour Blower Room Motor 1	MBR-A	Electrical	Crane - Air Scour Blower Room	Motor	-
Crane - Air Scour Blower Room Motor 2	MBR-A	Electrical	Crane - Air Scour Blower Room	Motor	-
Crane - Air Scour Blower Room Motor 3	MBR-A	Electrical	Crane - Air Scour Blower Room	Motor	-
Crane - Air Scour Blower Room Remote Control	MBR-A	Mechanical	Crane - Air Scour Blower Room	Remote Control	192 691

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Crane - Air Scour Blower Room	MBR-A	Mechanical	Crane - Air Scour Blower Room	Lifting Equipment	532 674
Desiccant Air Dryer 1	MBR-A	Mechanical	Desiccant Air Dryer 1	Air Dryer	212 341
Filter - Air Dryer Inlet 1	MBR-A	Mechanical	Desiccant Air Dryer 1	Air Filter	-
Filter - Air Dryer Outlet 1	MBR-A	Mechanical	Desiccant Air Dryer 1	Air Filter	-
Desiccant Air Dryer 2	MBR-A	Mechanical	Desiccant Air Dryer 2	Air Dryer	169 873
Filter - Air Dryer Inlet 2	MBR-A	Mechanical	Desiccant Air Dryer 2	Air Filter	-
Filter - Air Dryer Outlet 2	MBR-A	Mechanical	Desiccant Air Dryer 2	Air Filter	-
Drain Pump 1 Gearbox	MBR-A	Mechanical	Drain Pump 1	Gearbox	-
Drain Pump 1 Motor	MBR-A	Electrical	Drain Pump 1	Motor	-
Drain Pump 1	MBR-A	Mechanical	Drain Pump 1	Pump	402 521
Drain Pump 2 Gearbox	MBR-A	Mechanical	Drain Pump 2	Gearbox	-
Drain Pump 2 Motor	MBR-A	Electrical	Drain Pump 2	Motor	-
Drain Pump 2	MBR-A	Mechanical	Drain Pump 2	Pump	402 521
FBDA Blower 2	MBR-A	Mechanical	FBDA Blower 2	Blower	3 794 623
FBDA Blower 2 Motor	MBR-A	Electrical	FBDA Blower 1	Motor	-
FBDA Blower 3	MBR-A	Mechanical	FBDA Blower 3	Blower	3 794 623
FBDA Blower 3 Motor	MBR-A	Electrical	FBDA Blower 1	Motor	-
FBDA Blower 1	MBR-A	Mechanical	FBDA Blower 1	Blower	3 794 623
FBDA Blower 1 Motor	MBR-A	Electrical	FBDA Blower 1	Motor	-
Double Door on FBDA Blower 1 Discharge	MBR-A	Mechanical	FBDA Blower 1	Double Door	-
FBDA Blower 1 Blow Off Valve	MBR-A	Mechanical	FBDA Blower 1	Blow Off Valve	-
FBDA Blower 1 Blow-off Valve Silencer	MBR-A	Mechanical	FBDA Blower 1	Silencer	-
FBDA Blower 1 Inlet Filter	MBR-A	Mechanical	FBDA Blower 1	Blower Filter	-
FBDA Blower 1 Inlet Silencer	MBR-A	Mechanical	FBDA Blower 1	Silencer	-
FBDA Blower 1 Oil System Pump	MBR-A	Mechanical	FBDA Blower 1	Oil Pump	-
Guide Vane on FBDA Blower 1 Outlet Diffuser Vane	MBR-A	Mechanical	FBDA Blower 1	Guide Vane	-
Guide Vane on FBDA Blower 1 Variable Inlet Guide Vane	MBR-A	Mechanical	FBDA Blower 1	Guide Vane	-
Double Door on FBDA Blower 2 Discharge	MBR-A	Mechanical	FBDA Blower 2	Double Door	-
FBDA Blower 2 Blow Off Valve	MBR-A	Mechanical	FBDA Blower 2	Blow Off Valve	-
FBDA Blower 2 Blow-off Valve Silencer	MBR-A	Mechanical	FBDA Blower 2	Silencer	-
FBDA Blower 2 Inlet Filter	MBR-A	Mechanical	FBDA Blower 2	Blower Filter	-
FBDA Blower 2 Inlet Silencer	MBR-A	Mechanical	FBDA Blower 2	Silencer	-
FBDA Blower 2 Motor	MBR-A	Electrical	FBDA Blower 2	Motor	-
FBDA Blower 2 Oil System Pump	MBR-A	Mechanical	FBDA Blower 2	Oil Pump	-

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Guide Vane on FBDA Blower 2 Outlet Diffuser Vane	MBR-A	Mechanical	FBDA Blower 2	Guide Vane	-
Guide Vane on FBDA Blower 2 Variable Inlet Guide Vane	MBR-A	Mechanical	FBDA Blower 2	Guide Vane	-
Double Door on FBDA Blower 3 Discharge	MBR-A	Mechanical	FBDA Blower 3	Double Door	-
FBDA Blower 3 Blow Off Valve	MBR-A	Mechanical	FBDA Blower 3	Blow Off Valve	-
FBDA Blower 3 Blow-off Valve Silencer	MBR-A	Mechanical	FBDA Blower 3	Silencer	-
FBDA Blower 3 Inlet Filter	MBR-A	Mechanical	FBDA Blower 3	Blower Filter	-
FBDA Blower 3 Inlet Silencer	MBR-A	Mechanical	FBDA Blower 3	Silencer	-
FBDA Blower 3 Motor	MBR-A	Electrical	FBDA Blower 3	Motor	-
FBDA Blower 3 Oil System Pump	MBR-A	Mechanical	FBDA Blower 3	Oil Pump	-
Guide Vane on FBDA Blower 3 Outlet Diffuser Vane	MBR-A	Mechanical	FBDA Blower 3	Guide Vane	-
Guide Vane on FBDA Blower 3 Variable Inlet Guide Vane	MBR-A	Mechanical	FBDA Blower 3	Guide Vane	-
Diffusers and Membrane assembly	MBR-A	Mechanical	FBDA Pipe work	Diffusers	1 394 532
Supports for drain pumps pipes	MBR-A	Mechanical	Filtration Drain Pumps	Supports for drain pumps pipes	5 536
Filtration Train 1 - Membrane Cassette 1	MBR-A	Mechanical	Filtration Train 1	Membrane Cassette	10 551 823
Filtration Train 1 - Membrane Cassette 2	MBR-A	Mechanical	Filtration Train 1	Membrane Cassette	10 551 823
Filtration Train 1 - Membrane Cassette 3	MBR-A	Mechanical	Filtration Train 1	Membrane Cassette	10 551 823
Filtration Train 1 - Membrane Cassette 4	MBR-A	Mechanical	Filtration Train 1	Membrane Cassette	10 551 823
Filtration Train 1 - Membrane Cassette 5	MBR-A	Mechanical	Filtration Train 1	Membrane Cassette	10 551 823
Filtration Train 1 - Mixed Liquor (Baffle Wall - Weir)	MBR-A	Mechanical	Filtration Train 1	Weir	42 271
Filtration Train 1	MBR-A	Mechanical	Filtration Train 1	Filtration Train	8 218 958
Filtration Train 2 - Membrane Cassette 1	MBR-A	Mechanical	Filtration Train 2	Membrane Cassette	10 551 823
Filtration Train 2 - Membrane Cassette 2	MBR-A	Mechanical	Filtration Train 2	Membrane Cassette	10 551 823
Filtration Train 2 - Membrane Cassette 3	MBR-A	Mechanical	Filtration Train 2	Membrane Cassette	10 551 823
Filtration Train 2 - Membrane Cassette 4	MBR-A	Mechanical	Filtration Train 2	Membrane Cassette	10 551 823
Filtration Train 2 - Membrane Cassette 5	MBR-A	Mechanical	Filtration Train 2	Membrane Cassette	10 551 823
Filtration Train 2 - Mixed Liquor (Baffle Wall - Weir)	MBR-A	Mechanical	Filtration Train 2	Weir	42 271
Filtration Train 2	MBR-A	Mechanical	Filtration Train 2	Filtration Train	8 218 958
Filtration Train 3 - Membrane Cassette 1	MBR-A	Mechanical	Filtration Train 3	Membrane Cassette	10 551 823
Filtration Train 3 - Membrane Cassette 2	MBR-A	Mechanical	Filtration Train 3	Membrane Cassette	10 551 823
Filtration Train 3 - Membrane Cassette 3	MBR-A	Mechanical	Filtration Train 3	Membrane Cassette	10 551 823
Filtration Train 3 - Membrane Cassette 4	MBR-A	Mechanical	Filtration Train 3	Membrane Cassette	10 551 823
Filtration Train 3 - Membrane Cassette 5	MBR-A	Mechanical	Filtration Train 3	Membrane Cassette	10 551 823
Filtration Train 3 - Mixed Liquor (Baffle Wall - Weir)	MBR-A	Mechanical	Filtration Train 3	Weir	42 271

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Filtration Train 3	MBR-A	Mechanical	Filtration Train 3	Filtration Train	8 218 958
Filtration Train 4 - Membrane Cassette 1	MBR-A	Mechanical	Filtration Train 4	Membrane Cassette	10 551 823
Filtration Train 4 - Membrane Cassette 2	MBR-A	Mechanical	Filtration Train 4	Membrane Cassette	10 551 823
Filtration Train 4 - Membrane Cassette 3	MBR-A	Mechanical	Filtration Train 4	Membrane Cassette	10 551 823
Filtration Train 4 - Membrane Cassette 4	MBR-A	Mechanical	Filtration Train 4	Membrane Cassette	10 551 823
Filtration Train 4 - Membrane Cassette 5	MBR-A	Mechanical	Filtration Train 4	Membrane Cassette	10 551 823
Filtration Train 4 - Mixed Liquor (Baffle Wall - Weir)	MBR-A	Mechanical	Filtration Train 4	Weir	42 271
Filtration Train 4	MBR-A	Mechanical	Filtration Train 4	Filtration Train	8 218 958
Filtration Train 5 - Membrane Cassette 1	MBR-A	Mechanical	Filtration Train 5	Membrane Cassette	10 551 823
Filtration Train 5 - Membrane Cassette 2	MBR-A	Mechanical	Filtration Train 5	Membrane Cassette	10 551 823
Filtration Train 5 - Membrane Cassette 3	MBR-A	Mechanical	Filtration Train 5	Membrane Cassette	10 551 823
Filtration Train 5 - Membrane Cassette 4	MBR-A	Mechanical	Filtration Train 5	Membrane Cassette	10 551 823
Filtration Train 5 - Membrane Cassette 5	MBR-A	Mechanical	Filtration Train 5	Membrane Cassette	10 551 823
Filtration Train 5 - Mixed Liquor (Baffle Wall - Weir)	MBR-A	Mechanical	Filtration Train 5	Weir	42 271
Filtration Train 5	MBR-A	Mechanical	Filtration Train 5	Filtration Train	8 218 958
Filtration Train 6 - Membrane Cassette 1	MBR-A	Mechanical	Filtration Train 6	Membrane Cassette	10 551 823
Filtration Train 6 - Membrane Cassette 2	MBR-A	Mechanical	Filtration Train 6	Membrane Cassette	10 551 823
Filtration Train 6 - Membrane Cassette 3	MBR-A	Mechanical	Filtration Train 6	Membrane Cassette	10 551 823
Filtration Train 6 - Membrane Cassette 4	MBR-A	Mechanical	Filtration Train 6	Membrane Cassette	10 551 823
Filtration Train 6 - Membrane Cassette 5	MBR-A	Mechanical	Filtration Train 6	Membrane Cassette	10 551 823
Filtration Train 6 - Mixed Liquor (Baffle Wall - Weir)	MBR-A	Mechanical	Filtration Train 6	Weir	42 271
Filtration Train 6	MBR-A	Mechanical	Filtration Train 6	Filtration Train	8 218 958
GRP Covers for the Membrane Filtration Tanks	MBR-A	Mechanical	Filtration Trains Common	Covers	1 887 221
MBR A – Filtration Train Inlet	MBR-A	Mechanical	Filtration Trains Common MBR-A	Weir	17 759
MBR A – Filtration Train Outlet	MBR-A	Mechanical	Filtration Trains Common MBR-A	Weir	36 327
Harmonic Filter	MBR-A	Electrical	Harmonic Filter 1	Harmonic Filter	1 158 828
Harmonic Filter	MBR-A	Electrical	Harmonic Filter 2	Harmonic Filter	1 158 828
Tesys-T	MBR-A	Electrical	HVAC Fan 1	Voltage Monitor	-
Blower Room - HVAC Fan 1 (Gearbox)	MBR-A	Mechanical	HVAC Fan 1	Gearbox	-
Blower Room - HVAC Fan 1 Inlet Filter	MBR-A	Mechanical	HVAC Fan 1	Air Filter	-
Tesys-T	MBR-A	Electrical	HVAC Fan 2	Voltage Monitor	-
Blower Room - HVAC Fan 2 (Gearbox)	MBR-A	Mechanical	HVAC Fan 2	Gearbox	-
Blower Room - HVAC Fan 2 (Motor)	MBR-A	Electrical	HVAC Fan 2	Motor	-
Blower Room - HVAC Fan 2 Inlet Filter	MBR-A	Mechanical	HVAC Fan 2	Air Filter	253 762

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Blower Room - HVAC Fan 3 (Gearbox)	MBR-A	Mechanical	HVAC Fan 3	Gearbox	-
Blower Room - HVAC Fan 3 (Motor)	MBR-A	Electrical	HVAC Fan 3	Motor	-
Blower Room - HVAC Fan 3 Inlet Filter	MBR-A	Mechanical	HVAC Fan 3	Air Filter	-
Blower Room - HVAC Fan 4 (Gearbox)	MBR-A	Mechanical	HVAC Fan 4	Gearbox	-
Blower Room - HVAC Fan 4 (Motor)	MBR-A	Electrical	HVAC Fan 4	Motor	-
Blower Room - HVAC Fan 4 Inlet Filter	MBR-A	Mechanical	HVAC Fan 4	Air Filter	-
Blower Room - HVAC Fan 5 (Gearbox)	MBR-A	Mechanical	HVAC Fan 5	Gearbox	-
Blower Room - HVAC Fan 5 (Motor)	MBR-A	Electrical	HVAC Fan 5	Motor	-
Blower Room HVAC Fan 5 Inlet Filter	MBR-A	Mechanical	HVAC Fan 5	Air Filter	-
Compressor 1	MBR-A	Mechanical	Instrument Compressor 1	Compressor	671 910
Compressor 1 Motor	MBR-A	Electrical	Instrument Compressor 1	Motor	-
Compressor 2 Motor	MBR-A	Electrical	Instrument Compressor 2	Motor	-
Compressor 2	MBR-A	Mechanical	Instrument Compressor 2	Compressor	671 910
Air receiver (moisture trap)	MBR-A	Mechanical	Instrument Compressors	Moisture trap	13 975
Condensate management system	MBR-A	Mechanical	Instrument Compressors	Condensate management system	34 799
Separator units and filter sets	MBR-A	Mechanical	Instrument Compressors	Separator units and filter sets	105 472
MBR A Membrane Train Feed Pump 1	MBR-A	Mechanical	MBR A Membrane Train Feed Pump 1	Pump	1 339 533
MBR A Membrane Train Feed Pump 2	MBR-A	Mechanical	MBR A Membrane Train Feed Pump 2	Pump	1 339 533
MBR A Membrane Train Feed Pump 3	MBR-A	Mechanical	MBR A Membrane Train Feed Pump 3	Pump	1 339 533
Process Air Mixing Diffusers - MBR A Membrane Tanks Feed Channel	MBR-A	Mechanical	MBR-A Diffusers	Diffuser	-
Section C - MBRA - PORTAL CRANE OVER MEMBRANE TANKS	MBR-A	Mechanical	MBR-A Membrane Crane	Crane	1 014 762
Section C - MBRA - Membrane tank feed (MTF) Pump Station overhead Gantry - Modification of existing, manufacture, supply, corrosion protection and install	MBR-A	Mechanical	MBR-A MTF Pump Gantry	Gantry	359 823
MBR A – Transfers Pump to Membrane Distribution Channel	MBR-A	Mechanical	MBR-A Reactor	Weir	10 738
SECTION C - MBRA - Anaerobic Zone scum sump scum suppression system	MBR-A	Mechanical	MBR-A Reactor	Scum Suppression	413 193
MBR A - Pump room - Additional Access ladder and platform	MBR-A	Mechanical	MBR-A Reactor	Ladder	59 879
MBR A - Bioreactor - Aeration Zone scum Baffles	MBR-A	Mechanical	MBR-A Reactor	Baffles	55 100

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MBR A - Diffuser mixing system in Membrane Tank feed channel.	MBR-A	Mechanical	MBR-A Reactor	Mixer	48 407
MBR A - Bioreactor - Access ramp and trolley	MBR-A	Mechanical	MBR-A Reactor	Ramp	46 211
MBR A - Bioreactor - Brackets to cross floor joints for FBDA pipe supports	MBR-A	Mechanical	MBR-A Reactor	Brackets	52 147
MBR A - Membrane Inspection Tank support frame and grating	MBR-A	Mechanical	MBR-A Reactor	Support Frame	167 929
MBR A - Bioreactor - Access structure over FBDA piping to S-Recycle Penstocks	MBR-A	Mechanical	MBR-A Reactor	Ladder	28 920
Service Water to MBR A Aerobic Zone 1 VA Meter (Rotameter)	MBR-A	Instrumentation	MBR-A Service Water	VA Meter (Rotameter)	-
Service Water to MBR A Aerobic Zone 2 VA Meter (Rotameter)	MBR-A	Instrumentation	MBR-A Service Water	VA Meter (Rotameter)	-
Service Water to MBR A Aerobic Zone 2 VA Meter (Rotameter)	MBR-A	Instrumentation	MBR-A Service Water	VA Meter (Rotameter)	-
Service Water to MBR A Aerobic Zone 3 VA Meter (Rotameter)	MBR-A	Instrumentation	MBR-A Service Water	VA Meter (Rotameter)	-
Service Water to MBR A Anaerobic Zone VA Meter (Rotameter)	MBR-A	Instrumentation	MBR-A Service Water	VA Meter (Rotameter)	-
Accumulators	MBR-A	Mechanical	MBR-A Service Water	Accumulators	269 203
Service Water Pump Package	MBR-A	Mechanical	MBR-A Service Water	Booster	-
Service Water Pump Strainer	MBR-A	Mechanical	MBR-A Service Water	Strainer	-
Service Water Pump Package (Consists of 4 pumps)	MBR-A	Mechanical	MBR-A Service Water	Pump Package	1 503 862
Membrane Cassette Overhead Lifting Crane	MBR-A	Mechanical	Membrane Cassette Crane	Lifting Equipment	-
Membrane Unit lifting Bracket	MBR-A	Mechanical	Membrane Unit lifting Bracket	Membrane Unit lifting Bracket	25 896
Sample to Nitrate Transmitter VA Meter (Rotameter)	MBR-A	Instrumentation	Nitrate Analyser	VA Meter (Rotameter)	-
Oil/ Water Separator	MBR-A	Mechanical	Oil/ Water Separator	Separator	12 921
Overhead Gantry Crane Chain Block	MBR-A	Mechanical	Overhead Gantry Crane	Chain Block	-
Overhead Gantry Crane Gearbox 1	MBR-A	Mechanical	Overhead Gantry Crane	Gearbox	-
Overhead Gantry Crane Gearbox 2	MBR-A	Mechanical	Overhead Gantry Crane	Gearbox	-
Overhead Gantry Crane Gearbox 3	MBR-A	Mechanical	Overhead Gantry Crane	Gearbox	-
Overhead Gantry Crane Lifting Beam	MBR-A	Mechanical	Overhead Gantry Crane	Lifting Beam	-
Overhead Gantry Crane Motor 1	MBR-A	Electrical	Overhead Gantry Crane	Motor	-
Overhead Gantry Crane Motor 2	MBR-A	Electrical	Overhead Gantry Crane	Motor	-
Overhead Gantry Crane Motor 3	MBR-A	Electrical	Overhead Gantry Crane	Motor	-

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Overhead Gantry Crane Remote Control	MBR-A	Mechanical	Overhead Gantry Crane	Remote Control	-
Overhead Gantry Crane	MBR-A	Mechanical	Overhead Gantry Crane	Lifting Equipment	589 740
Penstock 1 - Bioreactor - Recycle Channel to Aerobic Zone	MBR-A	Mechanical	Penstock 1	Stoplog	-
Penstock 1 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 1	Stoplog	-
Penstock 1 - Transfer Pumps to MLSS Recycle Channel (A Recycle)	MBR-A	Mechanical	Penstock 1	Stoplog	-
Sluice Gate on Penstock 1 - Transfer Pumps to MLSS Recycle Channel (A Recycle)	MBR-A	Mechanical	Penstock 1	Sluice Gate	62 252
Wall Mounted Penstock on Penstock 1 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 1	Sluice Gate	90 843
Wall Mounted Penstock on Penstock 1 - Recycle Channel to Aerobic Zone	MBR-A	Mechanical	Penstock 1	Sluice Gate	91 770
Penstock 2 - Bioreactor - Recycle Channel to Aerobic Zone	MBR-A	Mechanical	Penstock 2	Stoplog	-
Penstock 2 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 2	Stoplog	-
Penstock 2 - Transfer Pumps to MLSS Recycle Channel (A Recycle)	MBR-A	Mechanical	Penstock 2	Stoplog	-
Wall Mounted Penstock on Penstock 2 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 2	Sluice Gate	152 023
Wall Mounted Penstock on Penstock 2 - Recycle Channel to Aerobic Zone	MBR-A	Mechanical	Penstock 2	Sluice Gate	152 023
Wall Mounted Penstock on Penstock 2 - Transfer Pumps to MLSS Recycle Channel (A Recycle)	MBR-A	Mechanical	Penstock 2	Sluice Gate	140 158
Penstock 3 - Bioreactor - Recycle Channel to Aerobic Zone	MBR-A	Mechanical	Penstock 3	Stoplog	-
Penstock 3 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 3	Stoplog	-
Penstock 3 - Transfer Pumps to MLSS Recycle Channel (A Recycle)	MBR-A	Mechanical	Penstock 3	Stoplog	-
Wall Mounted Penstock on Penstock 3 - Transfer Pumps to MLSS Recycle Channel (A Recycle)	MBR-A	Mechanical	Penstock 3	Sluice Gate	140 158
Wall Mounted Penstock on Penstock 3 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 3	Sluice Gate	152 023
Wall Mounted Penstock on Penstock 3 - Recycle Channel to Aerobic Zone	MBR-A	Mechanical	Penstock 3	Sluice Gate	126 068

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Penstock 4 - Bioreactor - Recycle Channel to Aerobic Zone	MBR-A	Mechanical	Penstock 4	Stoplog	-
Penstock 4 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 4	Stoplog	-
Wall Mounted Penstock on Penstock 4 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 4	Sluice Gate	152 023
Wall Mounted Penstock on Penstock 4 - Recycle Channel to Aerobic Zone	MBR-A	Mechanical	Penstock 4	Sluice Gate	126 068
Penstock 5 - Bioreactor - Recycle Channel to Aerobic Zone	MBR-A	Mechanical	Penstock 5	Stoplog	-
Penstock 5 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 5	Stoplog	-
Wall Mounted Penstock on Penstock 5 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 5	Sluice Gate	152 023
Wall Mounted Penstock on Penstock 5 - Recycle Channel to Aerobic Zone	MBR-A	Mechanical	Penstock 5	Sluice Gate	126 068
Penstock 6 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 6	Stoplog	-
Wall Mounted Penstock on Penstock 6 - Feed Channel to Membrane Tanks	MBR-A	Mechanical	Penstock 6	Sluice Gate	152 023
Permeate Pump 1 Motor	MBR-A	Electrical	Permeate Pump 1	Motor	-
Permeate Pump 1	MBR-A	Mechanical	Permeate Pump 1	Pump	1 442 669
Permeate Pump 1 Gearbox	MBR-A	Mechanical	Permeate Pump 1	Gearbox	-
Permeate Pump 2 Motor	MBR-A	Electrical	Permeate Pump 2	Motor	-
Permeate Pump 2	MBR-A	Mechanical	Permeate Pump 2	Pump	1 442 669
Permeate Pump 2 Gearbox	MBR-A	Mechanical	Permeate Pump 2	Gearbox	-
Permeate Pump 3 Motor	MBR-A	Electrical	Permeate Pump 3	Motor	-
Permeate Pump 3	MBR-A	Mechanical	Permeate Pump 3	Pump	1 442 669
Permeate Pump 3 Gearbox	MBR-A	Mechanical	Permeate Pump 3	Gearbox	-
Permeate Pump 4 Motor	MBR-A	Electrical	Permeate Pump 4	Motor	-
Permeate Pump 4	MBR-A	Mechanical	Permeate Pump 4	Pump	1 442 669
Permeate Pump 4 Gearbox	MBR-A	Mechanical	Permeate Pump 4	Gearbox	-
Permeate Pump 5 Motor	MBR-A	Electrical	Permeate Pump 5	Motor	-
Permeate Pump 5	MBR-A	Mechanical	Permeate Pump 5	Pump	1 442 669
Permeate Pump 5 Gearbox	MBR-A	Mechanical	Permeate Pump 5	Gearbox	-
Permeate Pump 6 Motor	MBR-A	Electrical	Permeate Pump 6	Motor	-
Permeate Pump 6	MBR-A	Mechanical	Permeate Pump 6	Pump	1 442 669
Permeate Pump 6 Gearbox	MBR-A	Mechanical	Permeate Pump 6	Gearbox	-

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Sample to Phosphate Transmitter VA Meter (Rotameter)	MBR-A	Instrumentation	Phosphate Analyser	VA Meter (Rotameter)	-
Penstock - Anaerobic/Anoxic Division Wall	MBR-A	Mechanical	Reactor MBR-A	Sluice Gate	-
Channel Mounted Penstock on Penstock - Recycle Channel to A Recycle Channel and Anoxic Zone	MBR-A	Mechanical	Reactor MBR-A	Sluice Gate	83 427
Penstock - Recycle Channel to A Recycle Channel and Anoxic Zone	MBR-A	Mechanical	Reactor MBR-A	Stoplog	-
Sample Collection Tank Sump Pump	MBR-A	Mechanical	Sample Collection Tank Sump Pump	Pump	187 248
Sample Collection Tank Sump Pump Gearbox	MBR-A	Mechanical	Sample Collection Tank Sump Pump	Gearbox	-
Sample Collection Tank Sump Pump Motor	MBR-A	Electrical	Sample Collection Tank Sump Pump	Motor	-
License upgrade to Adroit 8	MBR-A	PLC	SCADA Software - MBR-A remote view	Adroit Software	107 676
Aerobic Zone Scum Suppression Equipment	MBR-A	Mechanical	Scum Suppression Aerobic Basin MBR-A	Scum Suppression Equipment MBR-A	770 195
Scum Suppression Spray - Ring Main 1	MBR-A	Mechanical	Scum Suppression Aerobic Basin MBR-A	Sprayer Nozzle	281 704
Scum Suppression Spray - Ring Main 2	MBR-A	Mechanical	Scum Suppression Aerobic Basin MBR-A	Sprayer Nozzle	281 704
Scum Suppression Spray - Ring Main 3	MBR-A	Mechanical	Scum Suppression Aerobic Basin MBR-A	Sprayer Nozzle	281 704
Scum Suppression Spray - Ring Main 4	MBR-A	Mechanical	Scum Suppression Aerobic Basin MBR-A	Sprayer Nozzle	281 704
Scum Suppression Spray - Ring Main 5	MBR-A	Mechanical	Scum Suppression Aerobic Basin MBR-A	Sprayer Nozzle	281 704
Sodium Hypo Dosing into Scum Suppression - CIP Injector 1	MBR-A	Mechanical	Sodium Hypo Dosing into Scum Suppression - CIP Injector 1	Injector	-
Sodium Hypochlorite Calibration Tube	MBR-A	Mechanical	Sodium Hypochlorite Calibration Tube	Calibration Tube	-
Sodium Hypochlorite CIP Dosing Pulsation Dampener	MBR-A	Mechanical	Sodium Hypochlorite CIP Dosing Pulsation Dampener	Pulsation Dampener	11 011
Sodium Hypochlorite CIP Dosing Pulsation Damper	MBR-A	Mechanical	Sodium Hypochlorite CIP Dosing Pulsation Damper	Pulsation Dampener	11 011
Sodium Hypochlorite CIP Dosing Pump 1	MBR-A	Mechanical	Sodium Hypochlorite CIP Dosing Pump 1	Dosing Pump	117 571
Sodium Hypochlorite CIP Dosing Pump 1 Inline Strainer	MBR-A	Mechanical	Sodium Hypochlorite CIP Dosing Pump 1	Strainer	-
Sodium Hypochlorite CIP Dosing Pump 1 Motor	MBR-A	Electrical	Sodium Hypochlorite CIP Dosing Pump 1	Motor	-
Sodium Hypochlorite CIP Dosing Pump 2	MBR-A	Mechanical	Sodium Hypochlorite CIP Dosing Pump 2	Dosing Pump	117 571
Sodium Hypochlorite CIP Dosing Pump 2 Inline Strainer	MBR-A	Mechanical	Sodium Hypochlorite CIP Dosing Pump 2	Strainer	-
Sodium Hypochlorite CIP Dosing Pump 2 Motor	MBR-A	Electrical	Sodium Hypochlorite CIP Dosing Pump 2	Motor	-
Sodium Hypochlorite CIP Dosing Pump 3	MBR-A	Mechanical	Sodium Hypochlorite CIP Dosing Pump 3	Dosing Pump	117 571
Sodium Hypochlorite CIP Dosing Pump 3 Inline Strainer	MBR-A	Mechanical	Sodium Hypochlorite CIP Dosing Pump 3	Strainer	-
Sodium Hypochlorite CIP Dosing Pump 3 Motor	MBR-A	Electrical	Sodium Hypochlorite CIP Dosing Pump 3	Motor	-
Sodium Hypochlorite CIP Dosing Pump 4	MBR-A	Mechanical	Sodium Hypochlorite CIP Dosing Pump 4	Dosing Pump	117 571

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Sodium Hypochlorite CIP Dosing Pump 4 Inline Strainer	MBR-A	Mechanical	Sodium Hypochlorite CIP Dosing Pump 4	Strainer	-
Sodium Hypochlorite CIP Dosing Pump 4 Motor	MBR-A	Electrical	Sodium Hypochlorite CIP Dosing Pump 4	Motor	-
Sodium Hypochlorite CIP Room Fan Filter	MBR-A	Mechanical	Sodium Hypochlorite CIP Room Fan	Air Filter	-
Tesys-T	MBR-A	Electrical	Sodium Hypochlorite CIP Room Fan	Voltage Monitor	-
Sodium Hypochlorite Room Safety Shower	MBR-A	Mechanical	Sodium Hypochlorite Room Safety Shower	Safety Shower	17 416
Sodium Hypochlorite Scum Suppression Pulsation Dampener	MBR-A	Mechanical	Sodium Hypochlorite Scum Suppression Pulsation Damper	Pulsation Dampener	11 011
Sodium Hypochlorite Scum Suppression Pulsation Damper	MBR-A	Mechanical	Sodium Hypochlorite Scum Suppression Pulsation Damper	Pulsation Dampener	11 011
Sodium Hypochlorite Scum Suppression Pump 5	MBR-A	Mechanical	Sodium Hypochlorite Scum Suppression Pump 5	Dosing Pump	117 571
Sodium Hypochlorite Scum Suppression Pump 5 Inline Strainer	MBR-A	Mechanical	Sodium Hypochlorite Scum Suppression Pump 5	Strainer	-
Sodium Hypochlorite Scum Suppression Pump 5 Motor	MBR-A	Electrical	Sodium Hypochlorite Scum Suppression Pump 5	Motor	-
Sodium Hypochlorite Scum Suppression Pump 6	MBR-A	Mechanical	Sodium Hypochlorite Scum Suppression Pump 6	Dosing Pump	117 571
Sodium Hypochlorite Scum Suppression Pump 6 Inline Strainer	MBR-A	Mechanical	Sodium Hypochlorite Scum Suppression Pump 6	Strainer	-
Sodium Hypochlorite Scum Suppression Pump 6 Motor	MBR-A	Electrical	Sodium Hypochlorite Scum Suppression Pump 6	Motor	-
Sodium Hypochlorite Dosing Inline Strainer 1	MBR-A	Mechanical	Sodium Hypochlorite Storage Tank	Strainer	-
Sodium Hypochlorite Dosing Inline Strainer 2	MBR-A	Mechanical	Sodium Hypochlorite Storage Tank	Strainer	-
Sodium Hypochlorite Storage Tank	MBR-A	Mechanical	Sodium Hypochlorite Storage Tank	Tank	189 429
Double Door on Service Water To Sodium Hypochlorite Tank	MBR-A	Mechanical	Sodium Hypochlorite Tank	Double Door	-
MBR A Membrane Train Feed Pump 1 (Gearbox)	MBR-A	Mechanical	Train Feed Pump 1	Gearbox	-
MBR A Membrane Train Feed Pump 1 (Motor)	MBR-A	Electrical	Train Feed Pump 1	Motor	-
MBR A Membrane Train Feed Pump 2 (Gearbox)	MBR-A	Mechanical	Train Feed Pump 2	Gearbox	-
MBR A Membrane Train Feed Pump 2 (Motor)	MBR-A	Electrical	Train Feed Pump 2	Motor	-
MBR A Membrane Train Feed Pump 3 (Gearbox)	MBR-A	Mechanical	Train Feed Pump 3	Gearbox	-
MBR A Membrane Train Feed Pump 3 (Motor)	MBR-A	Electrical	Train Feed Pump 3	Motor	-
Vacuum Pump 1	MBR-A	Mechanical	Vacuum Pump 1	Pump	11 045
Vacuum Pump 2	MBR-A	Mechanical	Vacuum Pump 2	Pump	11 045

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Vacuum Pump 3	MBR-A	Mechanical	Vacuum Pump 3	Pump	11 045
Vacuum Pump 4	MBR-A	Mechanical	Vacuum Pump 4	Pump	11 045
Vacuum Pump 5	MBR-A	Mechanical	Vacuum Pump 5	Pump	11 045
Vacuum Pump 6	MBR-A	Mechanical	Vacuum Pump 6	Pump	11 045
WAS Pump 1 Motor	MBR-A	Electrical	WAS Pump 1	Motor	-
WAS Pump 1	MBR-A	Mechanical	WAS Pump 1	Pump	291 836
WAS Pump 1 Gearbox	MBR-A	Mechanical	WAS Pump 1	Gearbox	-
WAS Pump 2 Motor	MBR-A	Electrical	WAS Pump 2	Motor	-
WAS Pump 2	MBR-A	Mechanical	WAS Pump 2	Pump	291 836
WAS Pump 2 Gearbox	MBR-A	Mechanical	WAS Pump 2	Gearbox	-
Supports for WAS pumps	MBR-A	Mechanical	WAS Pumps	Supports for WAS pumps	5 536
Flash Mixer at Dosing Point N Motor	MBR-A	Electrical	Flash Mixer MBR-A	Motor	-
Flash Mixer at Dosing Point N	MBR-A	Mechanical	Flash Mixer MBR-A	Mixer	115 740
Membrane Cassette Crane	MBR-A	Mechanical	Membrane Cassette Crane	Lifting Equipment	1 455 567
Double Door on Scum Spray Service Water	MBR-A	Mechanical	MBR-A Service Water	Double Door	-
Penstock - Aerobic Zone Scum Sump	MBR-A	Mechanical	Scum Valve MBR-A	Sluice Gate	70 835
Inverter	MBR-A	Electrical	Inverter	Inverter	-
200 Pipe to Scum Sump at Aerobic Zone B3	MBR-B	Mechanical	MBR-B Scum removal pipe	Sluice Gate	62 833
AeAx Recycle Pump 1 (Motor)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 1	Motor	-
AeAx Recycle Pump 1 (Gearbox)	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 1	Gearbox	-
AeAx Recycle Pump 1	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 1	Pump	262 099
Minit Control and Status (Flygt)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 1	Control (Flygt)	-
AeAx Recycle Pump 2 (Motor)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 2	Motor	-
AeAx Recycle Pump 2 (Gearbox)	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 2	Gearbox	-
AeAx Recycle Pump 2	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 2	Pump	262 099
Minit Control and Status (Flygt)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 2	Control (Flygt)	-
AeAx Recycle Pump 3 (Motor)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 3	Motor	-
AeAx Recycle Pump 3 (Gearbox)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 3	Gearbox	-
AeAx Recycle Pump 3	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 3	Pump	262 099
Minit Control and Status (Flygt)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 3	Control (Flygt)	-
AeAx Recycle Pump 4 (Motor)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 4	Motor	-
AeAx Recycle Pump 4 (Gearbox)	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 4	Gearbox	-
AeAx Recycle Pump 4	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 4	Pump	262 099

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Minit Control and Status (Flygt)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 4	Control (Flygt)	-
AeAx Recycle Pump 5 (Motor)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 5	Motor	-
AeAx Recycle Pump 5 (Gearbox)	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 5	Gearbox	-
AeAx Recycle Pump 5	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 5	Pump	262 099
Minit Control and Status (Flygt)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 5	Control (Flygt)	-
AeAx Recycle Pump 6 (Motor)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 6	Motor	-
AeAx Recycle Pump 6 (Gearbox)	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 6	Gearbox	-
AeAx Recycle Pump 6	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 6	Pump	262 099
Minit Control and Status (Flygt)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 6	Control (Flygt)	-
AeAx Recycle Pump 7 (Motor)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 7	Motor	-
AeAx Recycle Pump 7 (Gearbox)	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 7	Gearbox	-
AeAx Recycle Pump 7	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 7	Pump	262 099
Minit Control and Status (Flygt)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 7	Control (Flygt)	-
AeAx Recycle Pump 8 (Motor)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 8	Motor	-
AeAx Recycle Pump 8 (Gearbox)	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 8	Gearbox	-
AeAx Recycle Pump 8	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 8	Pump	262 099
Minit Control and Status (Flygt)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 8	Control (Flygt)	-
AeAx Recycle Pump 9 (Motor)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 9	Motor	-
AeAx Recycle Pump 9 (Gearbox)	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 9	Gearbox	-
AeAx Recycle Pump 9	MBR-B	Mechanical	Ae-Ax Submersible Recycle Pump 9	Pump	262 099
Minit Control and Status (Flygt)	MBR-B	Electrical	Ae-Ax Submersible Recycle Pump 9	Control (Flygt)	-
Aerobic Scum Withdrawal Gate No.1	MBR-B	Mechanical	Aerobic Zone MBR-B	Sluice Gate	146 276
Aerobic Scum Withdrawal Gate No.2	MBR-B	Mechanical	Aerobic Zone MBR-B	Sluice Gate	146 276
Aerobic Scum Withdrawal Gate No.3	MBR-B	Mechanical	Aerobic Zone MBR-B	Sluice Gate	146 276
Aerobic Scum Withdrawal Gate No.4	MBR-B	Mechanical	Aerobic Zone MBR-B	Sluice Gate	146 276
Aerobic Scum Withdrawal Gate No.6	MBR-B	Mechanical	Aerobic Zone MBR-B	Sluice Gate	146 276
Aerobic Scum Withdrawal Gate No.7	MBR-B	Mechanical	Aerobic Zone MBR-B	Sluice Gate	146 276
UF Membrane Air Scour Blower 1 (Motor)	MBR-B	Electrical	Air Scour Blower 1	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Blower 1 (Gearbox)	MBR-B	Mechanical	Air Scour Blower 1	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Blower 1 (Driver)	MBR-B	Electrical	Air Scour Blower 1	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Equipment 1 (Compressor)	MBR-B	Electrical	Air Scour Blower 1	Compressor	-

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UF Membrane Air Scour Equipment 1	MBR-B	Mechanical	Air Scour Blower 1	UF Membrane Air Scour Equipment	1 887 137
Harmonics Filter	MBR-B	Electrical	Air Scour Blower 1	Harmonics Filter	-
UF Membrane Air Scour Blower 2 (Motor)	MBR-B	Electrical	Air Scour Blower 2	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Blower 2 (Gearbox)	MBR-B	Mechanical	Air Scour Blower 2	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Blower 2 (Driver)	MBR-B	Electrical	Air Scour Blower 2	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Equipment 2 (Compressor)	MBR-B	Mechanical	Air Scour Blower 2	Compressor	1 887 137
UF Membrane Air Scour Equipment 2	MBR-B	Electrical	Air Scour Blower 2	UF Membrane Air Scour Equipment	-
Harmonics Filter	MBR-B	Electrical	Air Scour Blower 2	Harmonics Filter	-
UF Membrane Air Scour Blower 3 (Motor)	MBR-B	Electrical	Air Scour Blower 3	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Blower 3 (Gearbox)	MBR-B	Mechanical	Air Scour Blower 3	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Blower 3 (Driver)	MBR-B	Electrical	Air Scour Blower 3	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Equipment 3 (Compressor)	MBR-B	Electrical	Air Scour Blower 3	Compressor	1 626 842
UF Membrane Air Scour Equipment 3	MBR-B	Electrical	Air Scour Blower 3	UF Membrane Air Scour Equipment	-
Harmonics Filter	MBR-B	Electrical	Air Scour Blower 3	Harmonics Filter	-
UF Membrane Air Scour Blower 4 (Motor)	MBR-B	Electrical	Air Scour Blower 4	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Blower 4 (Gearbox)	MBR-B	Mechanical	Air Scour Blower 4	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Blower 4 (Driver)	MBR-B	Electrical	Air Scour Blower 4	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Equipment 4 (Compressor)	MBR-B	Electrical	Air Scour Blower 4	Compressor	1 626 842
UF Membrane Air Scour Equipment 3	MBR-B	Mechanical	Air Scour Blower 4	UF Membrane Air Scour Equipment	1 887 137
Harmonics Filter	MBR-B	Electrical	Air Scour Blower 4	Harmonics Filter	-
UF Membrane Air Scour Blower 5 (Motor)	MBR-B	Electrical	Air Scour Blower 5	UF Membrane Air Scour Equipment	-

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UF Membrane Air Scour Blower 5 (Gearbox)	MBR-B	Mechanical	Air Scour Blower 5	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Blower 5 (Driver)	MBR-B	Electrical	Air Scour Blower 5	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Equipment 5 (Compressor)	MBR-B	Mechanical	Air Scour Blower 5	Compressor	1 887 137
UF Membrane Air Scour Equipment 5	MBR-B	Electrical	Air Scour Blower 5	UF Membrane Air Scour Equipment	-
Harmonics Filter	MBR-B	Electrical	Air Scour Blower 5	Harmonics Filter	-
UF Membrane Air Scour Blower 6 (Motor)	MBR-B	Electrical	Air Scour Blower 6	motor	-
UF Membrane Air Scour Blower 6 (Gearbox)	MBR-B	Mechanical	Air Scour Blower 6	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Blower 6 (Driver)	MBR-B	Electrical	Air Scour Blower 6	UF Membrane Air Scour Equipment	-
UF Membrane Air Scour Equipment 6 (Compressor)	MBR-B	Mechanical	Air Scour Blower 6	Compressor	1 887 137
UF Membrane Air Scour Equipment 6	MBR-B	Mechanical	Air Scour Blower 6	UF Membrane Air Scour Equipment	-
Harmonics Filter	MBR-B	Electrical	Air Scour Blower 6	Harmonics Filter	-
Anaerobic Mixer 1 Motor	MBR-B	Electrical	Anaerobic Mixer 1	Motor	-
Anaerobic Mixer 1 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 1	Gearbox	-
Anaerobic Mixer 1	MBR-B	Mechanical	Anaerobic Mixer 1	Mixer	147 198
Anaerobic Mixer 1 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 1	Shaft	-
Anaerobic Mixer 1 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 1	Coupling	-
Anaerobic Mixer 10 Motor	MBR-B	Electrical	Anaerobic Mixer 10	Motor	-
Anaerobic Mixer 10 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 10	Gearbox	-
Anaerobic Mixer 10	MBR-B	Mechanical	Anaerobic Mixer 10	Mixer	147 198
Anaerobic Mixer 10 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 10	Shaft	-
Anaerobic Mixer 10 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 10	Coupling	-
Anaerobic Mixer 11 Motor	MBR-B	Electrical	Anaerobic Mixer 11	Motor	-
Anaerobic Mixer 11 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 11	Gearbox	-
Anaerobic Mixer 11	MBR-B	Mechanical	Anaerobic Mixer 11	Mixer	147 198
Anaerobic Mixer 11 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 11	Shaft	-
Anaerobic Mixer 11 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 11	Coupling	-
Anaerobic Mixer 12 Motor	MBR-B	Electrical	Anaerobic Mixer 12	Motor	-
Anaerobic Mixer 12 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 12	Gearbox	-

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Anaerobic Mixer 12	MBR-B	Mechanical	Anaerobic Mixer 12	Mixer	147 198
Anaerobic Mixer 12 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 12	Shaft	-
Anaerobic Mixer 12 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 12	Coupling	-
Anaerobic Mixer 2 Motor	MBR-B	Electrical	Anaerobic Mixer 2	Motor	-
Anaerobic Mixer 2 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 2	Gearbox	-
Anaerobic Mixer 2	MBR-B	Mechanical	Anaerobic Mixer 2	Mixer	147 198
Anaerobic Mixer 2 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 2	Shaft	-
Anaerobic Mixer 2 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 2	Coupling	-
Anaerobic Mixer 3 Motor	MBR-B	Electrical	Anaerobic Mixer 3	Motor	-
Anaerobic Mixer 3 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 3	Gearbox	-
Anaerobic Mixer 3	MBR-B	Mechanical	Anaerobic Mixer 3	Mixer	147 198
Anaerobic Mixer 3 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 3	Shaft	-
Anaerobic Mixer 3 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 3	Coupling	-
Anaerobic Mixer 4 Motor	MBR-B	Electrical	Anaerobic Mixer 4	Motor	-
Anaerobic Mixer 4 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 4	Gearbox	-
Anaerobic Mixer 4	MBR-B	Mechanical	Anaerobic Mixer 4	Mixer	147 198
Anaerobic Mixer 4 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 4	Shaft	-
Anaerobic Mixer 4 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 4	Coupling	-
Anaerobic Mixer 5 Motor	MBR-B	Electrical	Anaerobic Mixer 5	Motor	-
Anaerobic Mixer 5 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 5	Gearbox	-
Anaerobic Mixer 5	MBR-B	Mechanical	Anaerobic Mixer 5	Mixer	147 198
Anaerobic Mixer 5 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 5	Shaft	-
Anaerobic Mixer 5 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 5	Coupling	-
Anaerobic Mixer 6 Motor	MBR-B	Electrical	Anaerobic Mixer 6	Motor	-
Anaerobic Mixer 6 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 6	Gearbox	-
Anaerobic Mixer 6	MBR-B	Mechanical	Anaerobic Mixer 6	Mixer	147 198
Anaerobic Mixer 6 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 6	Shaft	-
Anaerobic Mixer 6 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 6	Coupling	-
Anaerobic Mixer 7 Motor	MBR-B	Electrical	Anaerobic Mixer 7	Motor	-
Anaerobic Mixer 7 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 7	Gearbox	-
Anaerobic Mixer 7	MBR-B	Mechanical	Anaerobic Mixer 7	Mixer	147 198
Anaerobic Mixer 7 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 7	Shaft	-
Anaerobic Mixer 7 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 7	Coupling	-
Anaerobic Mixer 8 Motor	MBR-B	Electrical	Anaerobic Mixer 8	Motor	-

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Anaerobic Mixer 8 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 8	Gearbox	-
Anaerobic Mixer 8	MBR-B	Mechanical	Anaerobic Mixer 8	Mixer	147 198
Anaerobic Mixer 8 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 8	Shaft	-
Anaerobic Mixer 8 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 8	Coupling	-
Anaerobic Mixer 9 Motor	MBR-B	Electrical	Anaerobic Mixer 9	Motor	-
Anaerobic Mixer 9 Gearbox	MBR-B	Mechanical	Anaerobic Mixer 9	Gearbox	-
Anaerobic Mixer 9	MBR-B	Mechanical	Anaerobic Mixer 9	Mixer	147 198
Anaerobic Mixer 9 (Shaft)	MBR-B	Mechanical	Anaerobic Mixer 9	Shaft	-
Anaerobic Mixer 9 (Coupling)	MBR-B	Mechanical	Anaerobic Mixer 9	Coupling	-
Anaerobic Sluice Gate 1	MBR-B	Mechanical	Anaerobic Sluice Gate 1	Sluice Gate	84 444
Anaerobic Sluice Gate 2	MBR-B	Mechanical	Anaerobic Sluice Gate 2	Sluice Gate	84 444
Anaerobic Sluice Gate No.5	MBR-B	Mechanical	Anaerobic Sluice Gate No.5	Sluice Gate	84 444
Anaerobic Sluice Gate No.6	MBR-B	Mechanical	Anaerobic Sluice Gate No.6	Sluice Gate	84 444
Anoxic Mixer 1 (Motor)	MBR-B	Electrical	Anoxic Mixer 1	Motor	-
Anoxic Mixer 1 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 1	Gearbox	-
Anoxic Mixer 1	MBR-B	Mechanical	Anoxic Mixer 1	Mixer	236 276
Anoxic Mixer 1 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 1	Anoxic Mixer	-
Anoxic Mixer 1 (Blades)	MBR-B	Mechanical	Anoxic Mixer 1	Anoxic Mixer	-
Anoxic Mixer 1 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 1	Anoxic Mixer	-
Anoxic Mixer 10 (Motor)	MBR-B	Electrical	Anoxic Mixer 10	Motor	22 112
Anoxic Mixer 10 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 10	Gearbox	-
Anoxic Mixer 10	MBR-B	Mechanical	Anoxic Mixer 10	Mixer	236 276
Anoxic Mixer 10 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 10	Anoxic Mixer	-
Anoxic Mixer 10 (Blades)	MBR-B	Mechanical	Anoxic Mixer 10	Anoxic Mixer	-
Anoxic Mixer 10 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 10	Anoxic Mixer	-
Anoxic Mixer 11 (Motor)	MBR-B	Electrical	Anoxic Mixer 11	Motor	-
Anoxic Mixer 11 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 11	Gearbox	-
Anoxic Mixer 11	MBR-B	Mechanical	Anoxic Mixer 11	Mixer	236 276
Anoxic Mixer 11 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 11	Anoxic Mixer	-
Anoxic Mixer 11 (Blades)	MBR-B	Mechanical	Anoxic Mixer 11	Anoxic Mixer	-
Anoxic Mixer 11 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 11	Anoxic Mixer	-
Anoxic Mixer 12 (Motor)	MBR-B	Electrical	Anoxic Mixer 12	Motor	-
Anoxic Mixer 12 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 12	Gearbox	-
Anoxic Mixer 12	MBR-B	Mechanical	Anoxic Mixer 12	Mixer	236 276

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Anoxic Mixer 12 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 12	Anoxic Mixer	-
Anoxic Mixer 12 (Blades)	MBR-B	Mechanical	Anoxic Mixer 12	Anoxic Mixer	-
Anoxic Mixer 12 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 12	Anoxic Mixer	-
Anoxic Mixer 2 (Motor)	MBR-B	Electrical	Anoxic Mixer 2	Motor	-
Anoxic Mixer 2 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 2	Gearbox	-
Anoxic Mixer 2	MBR-B	Mechanical	Anoxic Mixer 2	Mixer	236 276
Anoxic Mixer 2 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 2	Anoxic Mixer	-
Anoxic Mixer 2 (Blades)	MBR-B	Mechanical	Anoxic Mixer 2	Anoxic Mixer	-
Anoxic Mixer 2 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 2	Anoxic Mixer	-
Anoxic Mixer 3 (Motor)	MBR-B	Electrical	Anoxic Mixer 3	Motor	-
Anoxic Mixer 3 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 3	Gearbox	-
Anoxic Mixer 3	MBR-B	Mechanical	Anoxic Mixer 3	Mixer	236 276
Anoxic Mixer 3 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 3	Anoxic Mixer	-
Anoxic Mixer 3 (Blades)	MBR-B	Mechanical	Anoxic Mixer 3	Anoxic Mixer	-
Anoxic Mixer 3 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 3	Anoxic Mixer	-
Anoxic Mixer 4 (Motor)	MBR-B	Electrical	Anoxic Mixer 4	Motor	-
Anoxic Mixer 4 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 4	Gearbox	-
Anoxic Mixer 4	MBR-B	Mechanical	Anoxic Mixer 4	Anoxic Mixers	236 276
Anoxic Mixer 4 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 4	Anoxic Mixer	-
Anoxic Mixer 4 (Blades)	MBR-B	Mechanical	Anoxic Mixer 4	Anoxic Mixer	-
Anoxic Mixer 4 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 4	Anoxic Mixer	-
Anoxic Mixer 5 (Motor)	MBR-B	Electrical	Anoxic Mixer 5	Motor	-
Anoxic Mixer 5 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 5	Gearbox	-
Anoxic Mixer 5	MBR-B	Mechanical	Anoxic Mixer 5	Anoxic Mixers	236 276
Anoxic Mixer 5 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 5	Anoxic Mixer	-
Anoxic Mixer 5 (Blades)	MBR-B	Mechanical	Anoxic Mixer 5	Anoxic Mixer	-
Anoxic Mixer 5 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 5	Anoxic Mixer	-
Anoxic Mixer 6 (Motor)	MBR-B	Electrical	Anoxic Mixer 6	Motor	-
Anoxic Mixer 6 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 6	Gearbox	-
Anoxic Mixer 6	MBR-B	Mechanical	Anoxic Mixer 6	Anoxic Mixers	236 276
Anoxic Mixer 6 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 6	Anoxic Mixer	-
Anoxic Mixer 6 (Blades)	MBR-B	Mechanical	Anoxic Mixer 6	Anoxic Mixer	-
Anoxic Mixer 6 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 6	Anoxic Mixer	-
Anoxic Mixer 7 (Motor)	MBR-B	Electrical	Anoxic Mixer 7	Motor	-

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Anoxic Mixer 7 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 7	Gearbox	-
Anoxic Mixer 7	MBR-B	Mechanical	Anoxic Mixer 7	Mixer	236 276
Anoxic Mixer 7 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 7	Anoxic Mixer	-
Anoxic Mixer 7 (Blades)	MBR-B	Mechanical	Anoxic Mixer 7	Anoxic Mixer	-
Anoxic Mixer 7 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 7	Anoxic Mixer	-
Anoxic Mixer 8 (Motor)	MBR-B	Electrical	Anoxic Mixer 8	Motor	-
Anoxic Mixer 8 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 8	Gearbox	-
Anoxic Mixer 8	MBR-B	Mechanical	Anoxic Mixer 8	Mixer	236 276
Anoxic Mixer 8 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 8	Anoxic Mixer	-
Anoxic Mixer 8 (Blades)	MBR-B	Mechanical	Anoxic Mixer 8	Anoxic Mixer	-
Anoxic Mixer 8 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 8	Anoxic Mixer	-
Anoxic Mixer 9 (Motor)	MBR-B	Electrical	Anoxic Mixer 9	Motor	-
Anoxic Mixer 9 (Gearbox)	MBR-B	Mechanical	Anoxic Mixer 9	Gearbox	-
Anoxic Mixer 9	MBR-B	Mechanical	Anoxic Mixer 9	Mixer	236 276
Anoxic Mixer 9 (Coupling)	MBR-B	Mechanical	Anoxic Mixer 9	Anoxic Mixer	-
Anoxic Mixer 9 (Blades)	MBR-B	Mechanical	Anoxic Mixer 9	Anoxic Mixer	-
Anoxic Mixer 9 (Bearings)	MBR-B	Mechanical	Anoxic Mixer 9	Anoxic Mixer	-
AxAn Recycle Pump 1 (Motor)	MBR-B	Electrical	AxAn Recycle Pump 1	Motor	-
AxAn Recycle Pump 1 (Gearbox)	MBR-B	Mechanical	AxAn Recycle Pump 1	Gearbox	-
AxAn Recycle Pump 1	MBR-B	Mechanical	AxAn Recycle Pump 1	Pump	158 223
AxAn Recycle Pump 2 (Motor)	MBR-B	Electrical	AxAn Recycle Pump 2	Motor	-
AxAn Recycle Pump 2 (Gearbox)	MBR-B	Mechanical	AxAn Recycle Pump 2	Gearbox	-
AxAn Recycle Pump 2	MBR-B	Mechanical	AxAn Recycle Pump 2	Pump	158 223
AxAn Recycle Pump 3 (Motor)	MBR-B	Electrical	AxAn Recycle Pump 3	Motor	0
AxAn Recycle Pump 3 (Gearbox)	MBR-B	Mechanical	AxAn Recycle Pump 3	Gearbox	-
AxAn Recycle Pump 3	MBR-B	Mechanical	AxAn Recycle Pump 3	Pump	158 223
AxAn Recycle Pump 4 (Motor)	MBR-B	Electrical	AxAn Recycle Pump 4	Motor	-
AxAn Recycle Pump 4 (Gearbox)	MBR-B	Mechanical	AxAn Recycle Pump 4	Gearbox	-
AxAn Recycle Pump 4	MBR-B	Mechanical	AxAn Recycle Pump 4	Pump	158 223
AxAn Recycle Pump 5 (Motor)	MBR-B	Electrical	AxAn Recycle Pump 5	Motor	-
AxAn Recycle Pump 5 (Gearbox)	MBR-B	Mechanical	AxAn Recycle Pump 5	Gearbox	-
AxAn Recycle Pump 5	MBR-B	Mechanical	AxAn Recycle Pump 5	Pump	158 223
AxAn Recycle Pump 6 (Motor)	MBR-B	Electrical	AxAn Recycle Pump 6	Motor	-
AxAn Recycle Pump 6 (Gearbox)	MBR-B	Mechanical	AxAn Recycle Pump 6	Gearbox	-

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AxAn Recycle Pump 6	MBR-B	Mechanical	AxAn Recycle Pump 6	Pump	158 223
AxAn Recycle Pump 7 (Motor)	MBR-B	Electrical	AxAn Recycle Pump 7	Motor	-
AxAn Recycle Pump 7 (Gearbox)	MBR-B	Mechanical	AxAn Recycle Pump 7	Gearbox	-
AxAn Recycle Pump 7	MBR-B	Mechanical	AxAn Recycle Pump 7	Pump	158 223
AxAn Recycle Pump 8 (Motor)	MBR-B	Electrical	AxAn Recycle Pump 8	Motor	-
AxAn Recycle Pump 8 (Gearbox)	MBR-B	Mechanical	AxAn Recycle Pump 8	Gearbox	-
AxAn Recycle Pump 8	MBR-B	Mechanical	AxAn Recycle Pump 8	Pump	158 223
AxAn Recycle Pump 9 (Motor)	MBR-B	Electrical	AxAn Recycle Pump 9	Motor	-
AxAn Recycle Pump 9 (Gearbox)	MBR-B	Mechanical	AxAn Recycle Pump 9	Gearbox	-
AxAn Recycle Pump 9	MBR-B	Mechanical	AxAn Recycle Pump 9	Pump	158 223
Minit Control and Status (Flygt)	MBR-B	Electrical	AxAn Recycle Pump 1	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	AxAn Recycle Pump 2	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	AxAn Recycle Pump 3	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	AxAn Recycle Pump 4	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	AxAn Recycle Pump 5	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	AxAn Recycle Pump 6	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	AxAn Recycle Pump 7	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	AxAn Recycle Pump 8	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	AxAn Recycle Pump 9	Control (Flygt)	-
Blower Building Ventilation Fan 1 (Motor)	MBR-B	Electrical	Blower Building Ventilation Fan 1	Motor	-
Blower Building Ventilation Fan 1 (Gearbox)	MBR-B	Mechanical	Blower Building Ventilation Fan 1	Gearbox	-
Blower Building Ventilation Fan 2 (Motor)	MBR-B	Electrical	Blower Building Ventilation Fan 2	Motor	-
Blower Building Ventilation Fan 2 (Gearbox)	MBR-B	Mechanical	Blower Building Ventilation Fan 2	Gearbox	-
Blower Building Ventilation Fan 3 (Motor)	MBR-B	Electrical	Blower Building Ventilation Fan 3	Motor	-
Blower Building Ventilation Fan 3 (Gearbox)	MBR-B	Mechanical	Blower Building Ventilation Fan 3	Gearbox	-
Blower Building Ventilation Fan 4 (Motor)	MBR-B	Electrical	Blower Building Ventilation Fan 4	Motor	-
Blower Building Ventilation Fan 4 (Gearbox)	MBR-B	Mechanical	Blower Building Ventilation Fan 4	Gearbox	-
Blower Building Ventilation Fan 5 (Motor)	MBR-B	Electrical	Blower Building Ventilation Fan 5	Motor	-
Blower Building Ventilation Fan 5 (Gearbox)	MBR-B	Mechanical	Blower Building Ventilation Fan 5	Gearbox	-
Blower Building Ventilation Fan 6 (Motor)	MBR-B	Electrical	Blower Building Ventilation Fan 6	Motor	-
Blower Building Ventilation Fan 6 (Gearbox)	MBR-B	Mechanical	Blower Building Ventilation Fan 6	Gearbox	-
Blower Building Ventilation Fan 7 (Motor)	MBR-B	Electrical	Blower Building Ventilation Fan 7	Motor	-
Blower Building Ventilation Fan 7 (Gearbox)	MBR-B	Mechanical	Blower Building Ventilation Fan 7	Gearbox	-
Blower Building Ventilation Fan 8 (Motor)	MBR-B	Electrical	Blower Building Ventilation Fan 8	Motor	-

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Blower Building Ventilation Fan 8 (Gearbox)	MBR-B	Mechanical	Blower Building Ventilation Fan 8	Gearbox	-
Blower Building Ventilation Fan 9 (Motor)	MBR-B	Electrical	Blower Building Ventilation Fan 9	Motor	-
Blower Building Ventilation Fan 9 (Gearbox)	MBR-B	Mechanical	Blower Building Ventilation Fan 9	Gearbox	-
Storage Tanks	MBR-B	Mechanical	CIP Citric Acid MBR-B	Tanks	-
CIP: Citric acid dosing system (bundled skids and cabinet etc) as specified	MBR-B	Mechanical	CIP Citric Acid MBR-B	Dosing Cabinet	537 442
Storage tank	MBR-B	Mechanical	CIP Citric Acid MBR-B	Tank	96 269
Citric acid Batching Equipment	MBR-B	Mechanical	CIP Citric Acid MBR-B	Batching system	692 824
Citric acid batching dust collection system	MBR-B	Mechanical	CIP Citric Acid MBR-B	Dust collection system	408 180
Access platform	MBR-B	Mechanical	CIP Citric Acid MBR-B	Platform	47 172
MBR B - Citric acid bag loader	MBR-B	Mechanical	CIP Citric Acid MBR-B	Bag loader	533 391
Sodium Hypochlorite Pressurized Supply Line Operating Diaphragm	MBR-B	Mechanical	CIP Sodium Hypochlorite MBR-B	Diaphragm	-
CIP: Sodium hypochlorite dosing system (bundled skids and cabinet etc) as specified	MBR-B	Mechanical	CIP Sodium Hypochlorite MBR-B	Dosing Cabinet	537 442
Scum suppression system: Sodium hypochlorite dosing system	MBR-B	Mechanical	CIP Sodium Hypochlorite MBR-B	Scum suppression	148 065
Storage tank	MBR-B	Mechanical	CIP Sodium Hypochlorite MBR-B	Tank	96 269
Access platform	MBR-B	Mechanical	CIP Sodium Hypochlorite MBR-B	Platform	47 172
Citric Acid Bulk Bag Unloader	MBR-B	Mechanical	CIP Citric Acid MBR-B	Bag loader	-
Citric Acid Dosing Pump 1 (Motor)	MBR-B	Electrical	Citric Acid Dosing Pump 1	Citric Acid Dosing Pumps	-
Citric Acid Dosing Pump 1 (Gearbox)	MBR-B	Mechanical	Citric Acid Dosing Pump 1	Citric Acid Dosing Pumps	142 312
Citric Acid Dosing Pump 1 (Driver)	MBR-B	Electrical	Citric Acid Dosing Pump 1	Citric Acid Dosing Pumps	-
Citric Acid Dosing Pump 1	MBR-B	Mechanical	Citric Acid Dosing Pump 1	Citric Acid Dosing Pumps	-
Citric Acid Dosing Pump 2 (Motor)	MBR-B	Electrical	Citric Acid Dosing Pump 2	Citric Acid Dosing Pumps	-
Citric Acid Dosing Pump 2 (Gearbox)	MBR-B	Mechanical	Citric Acid Dosing Pump 2	Citric Acid Dosing Pumps	142 312
Citric Acid Dosing Pump 2 (Driver)	MBR-B	Electrical	Citric Acid Dosing Pump 2	Citric Acid Dosing Pumps	-

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Citric Acid Dosing Pump 2	MBR-B	Mechanical	Citric Acid Dosing Pump 2	Citric Acid Dosing Pumps	-
Citric Acid Dosing Pump 3 (Motor)	MBR-B	Electrical	Citric Acid Dosing Pump 3	Citric Acid Dosing Pumps	-
Citric Acid Dosing Pump 3 (Gearbox)	MBR-B	Mechanical	Citric Acid Dosing Pump 3	Citric Acid Dosing Pumps	142 312
Citric Acid Dosing Pump 3 (Driver)	MBR-B	Electrical	Citric Acid Dosing Pump 3	Citric Acid Dosing Pumps	-
Citric Acid Dosing Pump 3	MBR-B	Mechanical	Citric Acid Dosing Pump 3	Citric Acid Dosing Pumps	-
Citric Acid Dosing Pump 4 (Motor)	MBR-B	Electrical	Citric Acid Dosing Pump 4	Citric Acid Dosing Pumps	-
Citric Acid Dosing Pump 4 (Gearbox)	MBR-B	Mechanical	Citric Acid Dosing Pump 4	Citric Acid Dosing Pumps	142 312
Citric Acid Dosing Pump 4 (Driver)	MBR-B	Electrical	Citric Acid Dosing Pump 4	Citric Acid Dosing Pumps	-
Citric Acid Dosing Pump 4	MBR-B	Mechanical	Citric Acid Dosing Pump 4	Citric Acid Dosing Pumps	-
Citric Acid Make-Up Tank Mixer	MBR-B	Mechanical	Citric Acid Make-Up Tank Mixer MBR-B	Mixer	86 188
Compactor 1 (Washer)	MBR Fine Screens	Mechanical	Compactor 1	Washer	621 589
Compactor 1 (Screw Compactor)	MBR Fine Screens	Electrical	Compactor 1	Screw Compactor	576 383
Compactor 1 (Perforated Screen)	MBR Fine Screens	Electrical	Compactor 1	Perforated Screen	-
Compactor 1 (Motor)	MBR Fine Screens	Mechanical	Compactor 1	Motor	-
Compactor 1 (Gearbox)	MBR Fine Screens	Electrical	Compactor 1	Gearbox	-
Compactor 1	MBR Fine Screens	Electrical	Compactor 1	Compactor	-
Compactor 2 (Washer)	MBR Fine Screens	Mechanical	Compactor 2	Washer	621 589
Compactor 2 (Screw Compactor)	MBR Fine Screens	Electrical	Compactor 2	Screw Compactor	576 383
Compactor 2 (Perforated Screen)	MBR Fine Screens	Mechanical	Compactor 2	Perforated Screen	-

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Compactor 2 (Motor)	MBR Fine Screens	Electrical	Compactor 2	Motor	-
Compactor 2 (Gearbox)	MBR Fine Screens	Mechanical	Compactor 2	Gearbox	-
Compactor 2	MBR Fine Screens	Electrical	Compactor 2	Compactor	-
Compactor Screenings Conveyor 1 (Rollers)	MBR Fine Screens	Mechanical	Compactor Screenings Conveyor 1	Rollers	-
Compactor Screenings Conveyor 1 (Motor)	MBR Fine Screens	Electrical	Compactor Screenings Conveyor 1	Motor	-
Compactor Screenings Conveyor 1 (Gearbox)	MBR Fine Screens	Mechanical	Compactor Screenings Conveyor 1	Centreless Screw	347 766
Compactor Screenings Conveyor 1	MBR Fine Screens	Electrical	Compactor Screenings Conveyor 1	Conveyor	322 474
Compactor Screenings Conveyor 2 (Rollers)	MBR Fine Screens	Mechanical	Compactor Screenings Conveyor 2	Rollers	-
Compactor Screenings Conveyor 2 (Motor)	MBR Fine Screens	Electrical	Compactor Screenings Conveyor 2	Motor	-
Compactor Screenings Conveyor 2 (Gearbox)	MBR Fine Screens	Mechanical	Compactor Screenings Conveyor 2	Centreless Screw	347 766
Compactor Screenings Conveyor 2	MBR Fine Screens	Electrical	Compactor Screenings Conveyor 2	Conveyor	322 474
Desiccant Dryers 2	MBR-B	Mechanical	Desiccant Dryer 1	Desiccant Dryers	120 514
Desiccant Dryers 1	MBR-B	Mechanical	Desiccant Dryer 2	Desiccant Dryers	120 514
FBDA Blowers 1 (Pre-Filter)	MBR-B	Mechanical	FBDA Blower 1	Pre-Filter	-
FBDA Blowers 1 (Post-Filter)	MBR-B	Electrical	FBDA Blower 1	Post Filter	-
FBDA Blowers 1 (Motor)	MBR-B	Electrical	FBDA Blower 1	Motor	-
FBDA Blowers 1 (Gearbox)	MBR-B	Mechanical	FBDA Blower 1	Gearbox	-
FBDA Blowers 1 (Compressor)	MBR-B	Mechanical	FBDA Blower 1	Compressor	2 557 680
FBDA Blowers 1	MBR-B	Electrical	FBDA Blower 1	FBDA Blower	3 560 141
FBDA Blowers 2 (Pre-Filter)	MBR-B	Mechanical	FBDA Blower 2	Pre-Filter	-
FBDA Blowers 2 (Post-Filter)	MBR-B	Electrical	FBDA Blower 2	Post Filter	-
FBDA Blowers 2 (Motor)	MBR-B	Electrical	FBDA Blower 2	Motor	-
FBDA Blowers 2 (Gearbox)	MBR-B	Mechanical	FBDA Blower 2	Gearbox	-
FBDA Blowers 2 (Compressor)	MBR-B	Mechanical	FBDA Blower 2	Compressor	2 557 680
FBDA Blowers 2	MBR-B	Electrical	FBDA Blower 2	FBDA Blower	3 560 141
FBDA Blowers 3 (Pre-Filter)	MBR-B	Mechanical	FBDA Blower 3	Pre-Filter	-

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FBDA Blowers 3 (Post-Filter)	MBR-B	Electrical	FBDA Blower 3	Post Filter	-
FBDA Blowers 3 (Motor)	MBR-B	Electrical	FBDA Blower 3	Motor	-
FBDA Blowers 3 (Gearbox)	MBR-B	Mechanical	FBDA Blower 3	Gearbox	-
FBDA Blowers 3 (Compressor)	MBR-B	Mechanical	FBDA Blower 3	Compressor	2 557 680
FBDA Blowers 3	MBR-B	Electrical	FBDA Blower 3	FBDA Blowers	3 560 141
FBDA Blowers 4 (Pre-Filter)	MBR-B	Mechanical	FBDA Blower 4	Pre-Filter	-
FBDA Blowers 4 (Post-Filter)	MBR-B	Electrical	FBDA Blower 4	Post Filter	-
FBDA Blowers 4 (Motor)	MBR-B	Electrical	FBDA Blower 4	Motor	-
FBDA Blowers 4 (Gearbox)	MBR-B	Mechanical	FBDA Blower 4	Gearbox	-
FBDA Blowers 4 (Compressor)	MBR-B	Mechanical	FBDA Blower 4	Compressor	2 557 680
FBDA Blowers 4	MBR-B	Electrical	FBDA Blower 4	FBDA Blowers	3 560 141
FBDA Blowers 5 (Pre-Filter)	MBR-B	Mechanical	FBDA Blower 5	Pre-Filter	-
FBDA Blowers 5 (Post-Filter)	MBR-B	Electrical	FBDA Blower 5	Post Filter	-
FBDA Blowers 5 (Motor)	MBR-B	Electrical	FBDA Blower 5	Motor	-
FBDA Blowers 5 (Gearbox)	MBR-B	Mechanical	FBDA Blower 5	Gearbox	-
FBDA Blowers 5 (Compressor)	MBR-B	Mechanical	FBDA Blower 5	Compressor	2 557 680
FBDA Blowers 5	MBR-B	Electrical	FBDA Blower 5	FBDA Blowers	3 560 141
Filtration Tank Feed Pumps 1 (Motor)	MBR-B	Mechanical	Filtration Tank Feed Pumps 1	Motor	-
Filtration Tank Feed Pumps 1 (Gearbox)	MBR-B	Mechanical	Filtration Tank Feed Pumps 1	Gearbox	-
Filtration Tank Feed Pumps 1	MBR-B	Mechanical	Filtration Tank Feed Pumps 1	Pump	553 026
Filtration Tank Feed Pumps 2 (Motor)	MBR-B	Electrical	Filtration Tank Feed Pumps 2	Motor	-
Filtration Tank Feed Pumps 2 (Gearbox)	MBR-B	Mechanical	Filtration Tank Feed Pumps 2	Gearbox	-
Filtration Tank Feed Pumps 2	MBR-B	Electrical	Filtration Tank Feed Pumps 2	Pump	553 026
Filtration Tank Feed Pumps 3 (Motor)	MBR-B	Electrical	Filtration Tank Feed Pumps 3	Motor	-
Filtration Tank Feed Pumps 3 (Gearbox)	MBR-B	Mechanical	Filtration Tank Feed Pumps 3	Gearbox	-
Filtration Tank Feed Pumps 3	MBR-B	Electrical	Filtration Tank Feed Pumps 3	Pump	553 026
Filtration Tank Feed Pumps 4 (Motor)	MBR-B	Electrical	Filtration Tank Feed Pumps 4	Motor	-
Filtration Tank Feed Pumps 4 (Gearbox)	MBR-B	Mechanical	Filtration Tank Feed Pumps 4	Gearbox	-
Filtration Tank Feed Pumps 4	MBR-B	Mechanical	Filtration Tank Feed Pumps 4	Pump	553 026
Filtration Tank Feed Pumps 5 (Motor)	MBR-B	Electrical	Filtration Tank Feed Pumps 5	Motor	-
Filtration Tank Feed Pumps 5 (Gearbox)	MBR-B	Mechanical	Filtration Tank Feed Pumps 5	Gearbox	-
Filtration Tank Feed Pumps 5	MBR-B	Electrical	Filtration Tank Feed Pumps 5	Pump	553 026
Filtration Tank Feed Pumps 6 (Motor)	MBR-B	Electrical	Filtration Tank Feed Pumps 6	Motor	-
Filtration Tank Feed Pumps 6 (Gearbox)	MBR-B	Mechanical	Filtration Tank Feed Pumps 6	Gearbox	-

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Filtration Tank Feed Pumps 6	MBR-B	Mechanical	Filtration Tank Feed Pumps 6	Pump	553 026
Filtration Tank Feed Pumps 7 (Motor)	MBR-B	Electrical	Filtration Tank Feed Pumps 7	Motor	-
Filtration Tank Feed Pumps 7 (Gearbox)	MBR-B	Mechanical	Filtration Tank Feed Pumps 7	Gearbox	-
Filtration Tank Feed Pumps 7	MBR-B	Mechanical	Filtration Tank Feed Pumps 7	Pump	553 026
Filtration Tank Feed Pumps 8 (Motor)	MBR-B	Electrical	Filtration Tank Feed Pumps 8	Motor	-
Filtration Tank Feed Pumps 8 (Gearbox)	MBR-B	Mechanical	Filtration Tank Feed Pumps 8	Gearbox	-
Filtration Tank Feed Pumps 8	MBR-B	Mechanical	Filtration Tank Feed Pumps 8	Pump	553 026
Filtration Tank Feed Pumps 9 (Motor)	MBR-B	Electrical	Filtration Tank Feed Pumps 9	Motor	-
Filtration Tank Feed Pumps 9 (Gearbox)	MBR-B	Mechanical	Filtration Tank Feed Pumps 9	Gearbox	-
Filtration Tank Feed Pumps 9	MBR-B	Mechanical	Filtration Tank Feed Pumps 9	Pump	553 026
Membrane filtration trains 1	MBR-B	Mechanical	Filtration Train 1	Zeeweed Membranes and Cassette	By CCT
Flow Control Baffle to Filtration Train 1	MBR-B	Mechanical	Filtration Train 1	Flow control baffle	28 661
Membrane filtration trains 2	MBR-B	Mechanical	Filtration Train 2	Zeeweed Membranes and Cassette	By CCT
Flow Control Baffle to Filtration Train 2	MBR-B	Mechanical	Filtration Train 2	Flow control baffle	28 661
Membrane filtration trains 3	MBR-B	Mechanical	Filtration Train 3	Zeeweed Membranes and Cassette	By CCT
Flow Control Baffle to Filtration Train 3	MBR-B	Mechanical	Filtration Train 3	Flow control baffle	28 661
Membrane filtration trains 4	MBR-B	Mechanical	Filtration Train 4	Zeeweed Membranes and Cassette	By CCT
Flow Control Baffle to Filtration Train 4	MBR-B	Mechanical	Filtration Train 4	Flow control baffle	28 661
Membrane filtration trains 5	MBR-B	Mechanical	Filtration Train 5	Zeeweed Membranes and Cassette	By CCT
Flow Control Baffle to Filtration Train 5	MBR-B	Mechanical	Filtration Train 5	Flow control baffle	28 661
Membrane filtration trains 6	MBR-B	Mechanical	Filtration Train 6	Zeeweed Membranes and Cassette	By CCT
Flow Control Baffle to Filtration Train 6	MBR-B	Mechanical	Filtration Train 6	Flow control baffle	28 661
Membrane filtration trains 7	MBR-B	Mechanical	Filtration Train 7	Zeeweed Membranes and Cassette	By CCT
Flow Control Baffle to Filtration Train 7	MBR-B	Mechanical	Filtration Train 7	Flow control baffle	28 661
Membrane filtration trains 8	MBR-B	Mechanical	Filtration Train 8	Zeeweed Membranes and Cassette	By CCT
Flow Control Baffle to Filtration Train 8	MBR-B	Mechanical	Filtration Train 8	Flow control baffle	28 661

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Membrane filtration trains 9	MBR-B	Mechanical	Filtration Train 9	Zeeweed Membranes and Cassette	By CCT
Flow Control Baffle to Filtration Train 9	MBR-B	Mechanical	Filtration Train 9	Flow control baffle	28 661
GRP covers for membrane tanks	MBR-B	Mechanical	Filtration Trains	GRP Covers	4 178 071
Fine Screen Sluice Gate 1	MBR-B	Mechanical	Fine Screen Sluice Gate 1	Sluice Gate	257 614
Fine Screen Sluice Gate 1	MBR-B	Mechanical	Fine Screen Sluice Gate 1	Sluice Gate	-
Fine Screen Sluice Gate 2	MBR-B	Mechanical	Fine Screen Sluice Gate 2	Sluice Gate	257 614
Fine Screen Sluice Gate 2	MBR-B	Mechanical	Fine Screen Sluice Gate 2	Sluice Gate	-
Fine Screen Sluice Gate 3	MBR-B	Mechanical	Fine Screen Sluice Gate 3	Sluice Gate	257 614
Fine Screen Sluice Gate 3	MBR-B	Mechanical	Fine Screen Sluice Gate 3	Sluice Gate	-
Fine Screen Sluice Gate 4	MBR-B	Mechanical	Fine Screen Sluice Gate 4	Sluice Gate	257 614
Fine Screen Sluice Gate 4	MBR-B	Mechanical	Fine Screen Sluice Gate 4	Sluice Gate	-
Fine Screen Sluice Gate 5	MBR-B	Mechanical	Fine Screen Sluice Gate 5	Sluice Gate	257 614
Fine Screen Sluice Gate 5	MBR-B	Mechanical	Fine Screen Sluice Gate 5	Sluice Gate	-
Fine Screen Sluice Gate 6	MBR-B	Mechanical	Fine Screen Sluice Gate 6	Sluice Gate	257 614
Fine Screen Sluice Gate 6	MBR-B	Mechanical	Fine Screen Sluice Gate 6	Sluice Gate	-
Fine Screens Integrated Conveyor 1 (Motor)	MBR Fine Screens	Electrical	Fine Screens Integrated Conveyor 1	Motor	-
Fine Screens Integrated Conveyor 1 (Belt)	MBR Fine Screens	Mechanical	Fine Screens Integrated Conveyor 1	Centreless Screw	347 766
Fine Screens Integrated Conveyor 2 (Motor)	MBR Fine Screens	Electrical	Fine Screens Integrated Conveyor 2	Motor	-
Fine Screens Integrated Conveyor 2 (Belt)	MBR Fine Screens	Mechanical	Fine Screens Integrated Conveyor 2	Centreless Screw	347 766
Fine Screens Integrated Conveyor 3 (Motor)	MBR Fine Screens	Electrical	Fine Screens Integrated Conveyor 3	Motor	-
Fine Screens Integrated Conveyor 3 (Belt)	MBR Fine Screens	Mechanical	Fine Screens Integrated Conveyor 3	Centreless Screw	347 766
Fine Screens Integrated Conveyor 4 (Motor)	MBR Fine Screens	Electrical	Fine Screens Integrated Conveyor 4	Motor	-
Fine Screens Integrated Conveyor 4 (Belt)	MBR Fine Screens	Mechanical	Fine Screens Integrated Conveyor 4	Centreless Screw	347 766
Fine Screens Integrated Conveyor 5 (Motor)	MBR Fine Screens	Electrical	Fine Screens Integrated Conveyor 5	Motor	-
Fine Screens Integrated Conveyor 5 (Belt)	MBR Fine Screens	Mechanical	Fine Screens Integrated Conveyor 5	Centreless Screw	347 766

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Fine Screens Integrated Conveyor 6 (Motor)	MBR Fine Screens	Electrical	Fine Screens Integrated Conveyor 6	Motor	-
Fine Screens Integrated Conveyor 6 (Belt)	MBR Fine Screens	Mechanical	Fine Screens Integrated Conveyor 6	Centreless Screw	347 766
Gensets - Bulk Diesel Tanks - Supply, Install and Test (for Section A of the Works)	MBR-B	Mechanical	Generators MBR-B	Fuel Tanks	1 233 056
Inspection Tank to WAS/Scum Tank Sluice Gate	MBR-B	Mechanical	Inspection Tank to WAS/Scum Tank Sluice Gate	Sluice Gate	71 629
Instrument Compressor 1 (Motor)	MBR-B	Electrical	Instrument Compressors	Motor	-
Instrument Compressor 1 (Gearbox)	MBR-B	Mechanical	Instrument Compressors	Gearbox	-
Instrument Compressor 1 (Dehumidifier)	MBR-B	Electrical	Instrument Compressors	Dehumidifier	-
Instrument Compressor 1	MBR-B	Mechanical	Instrument Compressors	Compressor	494 669
Instrument Compressor 2 (Motor)	MBR-B	Electrical	Instrument Compressors	Motor	-
Instrument Compressor 2 (Gearbox)	MBR-B	Mechanical	Instrument Compressors	Gearbox	-
Instrument Compressor 2 (Dehumidifier)	MBR-B	Mechanical	Instrument Compressors	Dehumidifier	-
Instrument Compressor 2	MBR-B	Mechanical	Instrument Compressors	Compressor	494 669
Condensate management system	MBR-B	Mechanical	Instrument Compressors	Condensate management system	32 514
Separator units and filter sets	MBR-B	Mechanical	Instrument Compressors	Separator units and filter sets	65 438
Air Receiver 1	MBR-B	Mechanical	Instrument Compressors	Air Receivers	93 371
Air Receiver 2	MBR-B	Mechanical	Instrument Compressors	Air Receivers	93 371
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 01	MBR-B	Mechanical	MB-Ae Return Sluice to Aerobic Zone Sluice Gate 01	Sluice Gate	188 490
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 02	MBR-B	Mechanical	MB-Ae Return Sluice to Aerobic Zone Sluice Gate 02	Sluice Gate	188 490
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 03	MBR-B	Mechanical	MB-Ae Return Sluice to Aerobic Zone Sluice Gate 03	Sluice Gate	188 490
MBR – Flow split to MBR A and MBR B downstream of fine screens.	MBR Fine Screens	Mechanical	MBR Fine Screens	Sluice Gate	354 821
MBR fine screening gantry	MBR Fine Screens	Mechanical	MBR Fine Screens	Gantry	500 283
MBR B membrane tanks overhead travelling crane	MBR-B	Mechanical	MBR Fine Screens	Crane	918 094
External blower manual lifting equipment	MBR-B	Mechanical	MBR Fine Screens	Gantry	95 264

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Screenings Conveyor units, with pipework and chutes	MBR Fine Screens	Mechanical	MBR Fine Screens	Conveyors	656 668
Screenings Compactors/ Screw Presses with pipework and chutes	MBR Fine Screens	Mechanical	MBR Fine Screens	Screening Equipment	1 173 711
Skip Dolly System, rails, etc.	MBR Fine Screens	Mechanical	MBR Fine Screens	Dolly System	328 772
Skip Dolley 2 (Motor)	MBR Fine Screens	Mechanical	MBR Fine Screens	Motor	-
Skip Dolley 2 (Automatic Cable Reel)	MBR Fine Screens	Mechanical	MBR Fine Screens	Automated Cable Reel	161 453
Skip Dolley 1 (Motor)	MBR Fine Screens	Electrical	MBR Fine Screens	Motor	-
Skip Dolley 1 (Automatic Cable Reel)	MBR Fine Screens	Electrical	MBR Fine Screens	Automated Cable Reel	161 453
Screened Wastewater Sluice Gate 3 (Seal)	MBR Fine Screens	Mechanical	MBR Fine Screens	Seal	-
Screened Wastewater Sluice Gate 3 (Spindle)	MBR Fine Screens	Mechanical	MBR Fine Screens	Spindle	-
Screened Wastewater Sluice Gate 3 (Control Unit)	MBR Fine Screens	Mechanical	MBR Fine Screens	Control Unit	-
Screened Wastewater Sluice Gate 2 (Seal)	MBR Fine Screens	Mechanical	MBR Fine Screens	Seal	-
Screened Wastewater Sluice Gate 2 (Spindle)	MBR Fine Screens	Mechanical	MBR Fine Screens	Spindle	-
Screened Wastewater Sluice Gate 2 (Control Unit)	MBR Fine Screens	Mechanical	MBR Fine Screens	Control Unit	-
Screened Wastewater Sluice Gate 1 (Seal)	MBR Fine Screens	Mechanical	MBR Fine Screens	Seal	-
Screened Wastewater Sluice Gate 1 (Spindle)	MBR Fine Screens	Mechanical	MBR Fine Screens	Spindle	-
Screened Wastewater Sluice Gate 1 (Control Unit)	MBR Fine Screens	Mechanical	MBR Fine Screens	Control Unit	-
Fine Screen Sluice Gate 6 (Seal)	MBR Fine Screens	Mechanical	MBR Fine Screens	Seal	-
Fine Screen Sluice Gate 6 (Spindle)	MBR Fine Screens	Mechanical	MBR Fine Screens	Spindle	-
Fine Screen Sluice Gate 6 (Control Unit)	MBR Fine Screens	Mechanical	MBR Fine Screens	Control Unit	-

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Fine Screen Sluice Gate 5 (Seal)	MBR Fine Screens	Mechanical	MBR Fine Screens	Seal	-
Fine Screen Sluice Gate 5 (Spindle)	MBR Fine Screens	Mechanical	MBR Fine Screens	Spindle	-
Fine Screen Sluice Gate 5 (Control Unit)	MBR Fine Screens	Mechanical	MBR Fine Screens	Control Unit	-
Fine Screen Sluice Gate 4 (Seal)	MBR Fine Screens	Mechanical	MBR Fine Screens	Seal	-
Fine Screen Sluice Gate 4 (Spindle)	MBR Fine Screens	Mechanical	MBR Fine Screens	Spindle	-
Fine Screen Sluice Gate 4 (Control Unit)	MBR Fine Screens	Mechanical	MBR Fine Screens	Control Unit	-
Fine Screen Sluice Gate 3 (Seal)	MBR Fine Screens	Mechanical	MBR Fine Screens	Seal	-
Fine Screen Sluice Gate 3 (Spindle)	MBR Fine Screens	Mechanical	MBR Fine Screens	Spindle	-
Fine Screen Sluice Gate 3 (Control Unit)	MBR Fine Screens	Mechanical	MBR Fine Screens	Control Unit	-
Fine Screen Sluice Gate 2 (Seal)	MBR Fine Screens	Mechanical	MBR Fine Screens	Seal	-
Fine Screen Sluice Gate 2 (Spindle)	MBR Fine Screens	Mechanical	MBR Fine Screens	Spindle	-
Fine Screen Sluice Gate 2 (Control Unit)	MBR Fine Screens	Mechanical	MBR Fine Screens	Control Unit	-
Fine Screen Sluice Gate 1 (Seal)	MBR Fine Screens	Mechanical	MBR Fine Screens	Seal	-
Fine Screen Sluice Gate 1 (Spindle)	MBR Fine Screens	Mechanical	MBR Fine Screens	Spindle	-
Fine Screen Sluice Gate 1 (Control Unit)	MBR Fine Screens	Mechanical	MBR Fine Screens	Control Unit	-
MBR B membrane tanks rails	MBR-B	Mechanical	MBR-B Reactor	Hand Rails	611 169
MBR B blower room overhead travelling crane	MBR-B	Mechanical	MBR-B Reactor	Crane	542 352
MBR B blower room rails	MBR-B	Mechanical	MBR-B Reactor	Hand Rails	499 705
Dolly system including tracks, etc.	MBR Fine Screens	Mechanical	MBR-B Reactor	Dolly system	103 970
MBR B pump room mobile manual lifting equipment	MBR-B	Mechanical	MBR-B Reactor	Gantry	15 451
MBR B pump room gantry lifting equipment	MBR-B	Mechanical	MBR-B Reactor	Gantry	69 273

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MBR B: Citric acid dosing room overhead travelling crane	MBR-B	Mechanical	MBR-B Reactor	Crane	389 109
MBR B Ax-An recycle pumps gantry	MBR-B	Mechanical	MBR-B Reactor	Gantry	731 269
MBR B Ae-Ax recycle pumps gantry	MBR-B	Mechanical	MBR-B Reactor	Gantry	508 694
MBR B swing recycle mixed liquor recycle pumps gantry	MBR-B	Mechanical	MBR-B Reactor	Gantry	90 799
MBR B membrane tanks feed pumps manual lifting equipment	MBR-B	Mechanical	MBR-B Reactor	Gantry	7 925
MBR B mixer manual mobile lifting equipment	MBR-B	Mechanical	MBR-B Reactor	Gantry	7 925
MBR B reactor basin cart	MBR-B	Mechanical	MBR-B Reactor	Gantry	23 105
Scum/Foam Suppression Spray equipment	MBR-B	Mechanical	MBR-B Reactor	Scum suppression	231 045
MBR B Plant - MCC Room False Flooring (for Section A of the Works)	MBR-B	Mechanical	MBR-B MCC	Flooring (MCC)	1 258 858
Cable Trench Covers	MBR-B	Electrical	MBR-B MCC	Cable Trench Covers	281 040
Ethernet Switch 24 Channel	MBR-B	Electrical	MBR-B MCC	Channel	-
Power Supply	MBR-B	Electrical	MBR-B MCC	Supply	-
Power Supply	MBR-B	Electrical	MBR-B MCC	Supply	-
CPU	MBR-B	Electrical	MBR-B MCC	CPU	-
MBR B – Inlet to anaerobic zone	MBR-B	Mechanical	MBR-B Reactor	Sluice Gate	351 864
MBR B – Outlet of aerobic zone to Membrane Tank Feed Pumps	MBR-B	Mechanical	MBR-B Reactor	Sluice Gate	348 355
MBR B – Downward opening sluice gate upstream of Membrane tank feed pumps to WAS sump	MBR-B	Mechanical	MBR-B Reactor	Sluice Gate	275 178
MBR B – Downward opening sluice gate at inlet of membrane filtration train Actuators	MBR-B	Mechanical	MBR-B Reactor	Sluice Gate	1 601 621
MBR B – mixed liquor return to aerobic zone	MBR-B	Mechanical	MBR-B Reactor	Sluice Gate	289 881
MBR B – aerobic zone outlet to scum collection chamber (downward opening)	MBR-B	Mechanical	MBR-B Reactor	Sluice Gate	385 644
MBR B – Downstream of Mixed Liquor Swing Recycle Pumps Isolation	MBR-B	Mechanical	MBR-B Reactor	Sluice Gate	160 762
MBR B – membrane train outlet to WAS sump	MBR-B	Mechanical	MBR-B Reactor	Sluice Gate	184 898
MBR B – between WAS sump and membrane inspection sump	MBR-B	Mechanical	MBR-B Reactor	Sluice Gate	111 583
MBR B – Inlet to Anaerobic Zone	MBR-B	Mechanical	MBR-B Reactor	Weirs	25 685
MBR B – Anaerobic Zone 1 to Anaerobic Zone 2	MBR-B	Mechanical	MBR-B Reactor	Weirs	12 843
MBR B – Anaerobic Zone 2 to Anoxic Zone 1	MBR-B	Mechanical	MBR-B Reactor	Weirs	25 685

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MBR B – Anoxic Zone 2 to Anoxic Zone 1	MBR-B	Mechanical	MBR-B Reactor	Weirs	25 685
MBR B – Anoxic Zone 2 to Aerobic Zone	MBR-B	Mechanical	MBR-B Reactor	Weirs	42 809
MBR B – Membrane tank Feed Pumps to MBR TANKS Distribution Channel	MBR-B	Mechanical	MBR-B Reactor	Weirs	18 041
MBR B – Filtration Train Inlet	MBR-B	Mechanical	MBR-B Reactor	Weirs	38 528
MBR B – Filtration Train Outlet	MBR-B	Mechanical	MBR-B Reactor	Weirs	38 528
MBR B – Ax-An Recycle Pump Outlet	MBR-B	Mechanical	MBR-B Reactor	Weirs	20 486
MBR B – Ae-Ax Recycle Pump Outlet	MBR-B	Mechanical	MBR-B Reactor	Weirs	20 486
MBR B – Membrane to Aerobic Zone Inlet	MBR-B	Mechanical	MBR-B Reactor	Weirs	6 880
MBR B – Swing Recycle Pump Outlet	MBR-B	Mechanical	MBR-B Reactor	Weirs	9 148
MBR B - Swing recycle pumps splash covers	MBR-B	Mechanical	MBR-B Reactor	GRP Covers	23 493
Mixed Liquor Channel pH Meter	MBR-B	Instrumentation	MBR-B Reactor	Mixed Liquor	290 708
Area Velocity Flow meter including sensor, transmitter and mounting materials (Recycle Channel)	MBR-B	Instrumentation	MBR-B Reactor	Mixed Liquor	475 453
Aerobic Scum Withdrawal Gate No.7 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Aerobic Scum Withdrawal Gate No.7 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Aerobic Scum Withdrawal Gate No.7 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Aerobic Scum Withdrawal Gate No.4 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Aerobic Scum Withdrawal Gate No.4 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Aerobic Scum Withdrawal Gate No.4 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Aerobic Scum Withdrawal Gate No.2 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Aerobic Scum Withdrawal Gate No.2 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Aerobic Scum Withdrawal Gate No.2 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
WAS Withdrawal Sluice Gate (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
WAS Withdrawal Sluice Gate (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
WAS Withdrawal Sluice Gate (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Scum Withdrawal Sluice Gate (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Scum Withdrawal Sluice Gate (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Scum Withdrawal Sluice Gate (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Aerobic Scum Withdrawal Gate No.6 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Aerobic Scum Withdrawal Gate No.6 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Aerobic Scum Withdrawal Gate No.6 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Aerobic Scum Withdrawal Gate No.3 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Aerobic Scum Withdrawal Gate No.3 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-

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Aerobic Scum Withdrawal Gate No.3 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Aerobic Scum Withdrawal Gate No.1 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Aerobic Scum Withdrawal Gate No.1 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Aerobic Scum Withdrawal Gate No.1 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Mixed Liquor Swing Recycle Sluice Gate 03 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Mixed Liquor Swing Recycle Sluice Gate 03 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Mixed Liquor Swing Recycle Sluice Gate 03 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Mixed Liquor Swing Recycle Sluice Gate 02 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Mixed Liquor Swing Recycle Sluice Gate 02 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Mixed Liquor Swing Recycle Sluice Gate 02 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Mixed Liquor Swing Recycle Sluice Gate 01 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Mixed Liquor Swing Recycle Sluice Gate 01 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Mixed Liquor Swing Recycle Sluice Gate 01 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 03 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 03 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 03 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 02 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 02 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 02 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 01 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 01 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
MB-Ae Return Sluice to Aerobic Zone Sluice Gate 01 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Mixed Liquor Recycle Sluice Gate (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Mixed Liquor Recycle Sluice Gate (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-

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Mixed Liquor Recycle Sluice Gate (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Mixed Liquor Recycle Sluice Gate (Actuator)	MBR-B	Mechanical	MBR-B Reactor	Gate	142 375
Anaerobic Sluice Gate No.5 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Anaerobic Sluice Gate No.6 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Anaerobic Sluice Gate No.5 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Anaerobic Sluice Gate No.6 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Anaerobic Sluice Gate No.5 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Anaerobic Sluice Gate No.6 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Anaerobic Sluice Gate 2 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Anaerobic Sluice Gate 2 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Anaerobic Sluice Gate 2 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Anaerobic Sluice Gate 1 (Seal)	MBR-B	Mechanical	MBR-B Reactor	Seal	-
Anaerobic Sluice Gate 1 (Spindle)	MBR-B	Mechanical	MBR-B Reactor	Spindle	-
Anaerobic Sluice Gate 1 (Control Unit)	MBR-B	Mechanical	MBR-B Reactor	Control Unit	-
Fibre Panel	MBR-B	Electrical	MCC MBR B Citric Acid	Fibre Patch Panel	-
CPU	MBR-B	PLC	MCC MBR B Citric Acid	CPU PLC	-
Fibre Panel	MBR-B	Electrical	MCC MBR B Sodium Hypochlorite	Fibre Patch Panel	-
CPU	MBR-B	PLC	MCC MBR B Sodium Hypochlorite	CPU PLC	-
Fibre Panel	MBR-B	Electrical	MCC MBR B2	Fibre Patch Panel	-
CPU	MBR-B	PLC	MCC MBR B2	CPU PLC	-
Fibre Panel	MBR-B	Electrical	MCC MBR B3	Fibre Patch Panel	-
CPU	MBR-B	PLC	MCC MBR B3	CPU PLC	-
Fibre Panel	MBR-B	Electrical	MCC MBR-B Air Scour	Fibre Patch Panel	-
CPU	MBR-B	PLC	MCC MBR-B Air Scour	CPU PLC	-
Fibre Panel	MBR-B	Electrical	MCC MBR-B FBDA	Fibre Patch Panel	-
CPU	MBR-B	PLC	MCC MBR-B FBDA	CPU PLC	-
Harmonic Filter 1	MBR-B	Electrical	MCC MBR-B UV	Harmonic Filter	-
Harmonic Filter 2	MBR-B	Electrical	MCC MBR-B UV	Harmonic Filter	-
Fibre Panel	MBR-B	Electrical	MCC MBR-B UV	Fibre Patch Panel	-
CPU	MBR-B	PLC	MCC MBR-B UV	CPU PLC	-
Fibre Panel	MBR-B	Electrical	MCC MBR-B UV	Fibre Patch Panel	-
CRA	MBR-B	PLC	MCC MBR-B UV	CRA	-
Mechanical Fine Screens 1 (Wear Strip)	MBR Fine Screens	Mechanical	Fine Screens 1	Wear Strip	-

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Mechanical Fine Screens 1 (Sprocket)	MBR Fine Screens	Mechanical	Fine Screens 1	Sprocket	-
Mechanical Fine Screens 1 (Perforated Plate)	MBR Fine Screens	Mechanical	Fine Screens 1	Perforated Plate	-
Mechanical Fine Screens 1 (Gearbox)	MBR Fine Screens	Mechanical	Fine Screens 1	Gearbox	-
Mechanical Fine Screens 1 (Chain)	MBR Fine Screens	Mechanical	Fine Screens 1	Chain	-
Mechanical Fine Screens 1 (Brushes)	MBR Fine Screens	Mechanical	Fine Screens 1	Brushes	-
Mechanical Fine Screens 1 (Brush Cleaning Plate)	MBR Fine Screens	Mechanical	Fine Screens 1	Crush Cleaning Plate	-
Mechanical Fine Screens 1 (Motor)	MBR Fine Screens	Mechanical	Fine Screens 1	Motor	-
Mechanical Fine Screens 1	MBR Fine Screens	Mechanical	Fine Screens 1	Fine Screens	2 570 922
Fine Screens Integrated Conveyor 1	MBR Fine Screens	Mechanical	Fine Screens 1	Conveyor	347 766
Mechanical Fine Screens 2 (Wear Strip)	MBR Fine Screens	Mechanical	Fine Screens 2	Wear Strip	-
Mechanical Fine Screens 2 (Sprocket)	MBR Fine Screens	Mechanical	Fine Screens 2	Sprocket	-
Mechanical Fine Screens 2 (Perforated Plate)	MBR Fine Screens	Mechanical	Fine Screens 2	Perforated Plate	-
Mechanical Fine Screens 2 (Motor)	MBR Fine Screens	Mechanical	Fine Screens 2	Motor	-
Mechanical Fine Screens 2 (Gearbox)	MBR Fine Screens	Mechanical	Fine Screens 2	Gearbox	-
Mechanical Fine Screens 2 (Chain)	MBR Fine Screens	Mechanical	Fine Screens 2	Chain	-
Mechanical Fine Screens 2 (Brushes)	MBR Fine Screens	Mechanical	Fine Screens 2	Brushes	-
Mechanical Fine Screens 2 (Brush Cleaning Plate)	MBR Fine Screens	Mechanical	Fine Screens 2	Crush Cleaning Plate	0
Mechanical Fine Screens 2	MBR Fine Screens	Mechanical	Fine Screens 2	Fine Screens	2 570 922
Fine Screens Integrated Conveyor 2	MBR Fine Screens	Mechanical	Fine Screens 2	Conveyor	347 766

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Mechanical Fine Screens 3 (Wear Strip)	MBR Fine Screens	Mechanical	Fine Screens 3	Wear Strip	-
Mechanical Fine Screens 3 (Sprocket)	MBR Fine Screens	Mechanical	Fine Screens 3	Sprocket	-
Mechanical Fine Screens 3 (Perforated Plate)	MBR Fine Screens	Mechanical	Fine Screens 3	Perforated Plate	-
Mechanical Fine Screens 3 (Motor)	MBR Fine Screens	Mechanical	Fine Screens 3	Motor	-
Mechanical Fine Screens 3 (Gearbox)	MBR Fine Screens	Mechanical	Fine Screens 3	Gearbox	-
Mechanical Fine Screens 3 (Chain)	MBR Fine Screens	Mechanical	Fine Screens 3	Chain	-
Mechanical Fine Screens 3 (Brushes)	MBR Fine Screens	Mechanical	Fine Screens 3	Brushes	-
Mechanical Fine Screens 3 (Brush Cleaning Plate)	MBR Fine Screens	Mechanical	Fine Screens 3	Crush Cleaning Plate	-
Mechanical Fine Screens 3	MBR Fine Screens	Mechanical	Fine Screens 3	Fine Screens	2 570 922
Fine Screens Integrated Conveyor 3	MBR Fine Screens	Mechanical	Fine Screens 3	Conveyor	347 766
Mechanical Fine Screens 4 (Wear Strip)	MBR Fine Screens	Mechanical	Fine Screens 4	Wear Strip	-
Mechanical Fine Screens 4 (Sprocket)	MBR Fine Screens	Mechanical	Fine Screens 4	Sprocket	-
Mechanical Fine Screens 4 (Perforated Plate)	MBR Fine Screens	Mechanical	Fine Screens 4	Perforated Plate	-
Mechanical Fine Screens 4 (Motor)	MBR Fine Screens	Mechanical	Fine Screens 4	Motor	-
Mechanical Fine Screens 4 (Gearbox)	MBR Fine Screens	Mechanical	Fine Screens 4	Gearbox	-
Mechanical Fine Screens 4 (Chain)	MBR Fine Screens	Mechanical	Fine Screens 4	Chain	-
Mechanical Fine Screens 4 (Brushes)	MBR Fine Screens	Mechanical	Fine Screens 4	Brushes	-
Mechanical Fine Screens 4 (Brush Cleaning Plate)	MBR Fine Screens	Mechanical	Fine Screens 4	Crush Cleaning Plate	-
Mechanical Fine Screens 4	MBR Fine Screens	Mechanical	Fine Screens 4	Fine Screens	2 570 922

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Fine Screens Integrated Conveyor 4	MBR Fine Screens	Mechanical	Fine Screens 4	Conveyor	347 766
Mechanical Fine Screens 5 (Wear Strip)	MBR Fine Screens	Mechanical	Fine Screens 5	Wear Strip	-
Mechanical Fine Screens 5 (Sprocket)	MBR Fine Screens	Mechanical	Fine Screens 5	Sprocket	-
Mechanical Fine Screens 5 (Perforated Plate)	MBR Fine Screens	Mechanical	Fine Screens 5	Perforated Plate	-
Mechanical Fine Screens 5 (Motor)	MBR Fine Screens	Mechanical	Fine Screens 5	Motor	-
Mechanical Fine Screens 5 (Gearbox)	MBR Fine Screens	Mechanical	Fine Screens 5	Gearbox	-
Mechanical Fine Screens 5 (Chain)	MBR Fine Screens	Mechanical	Fine Screens 5	Chain	-
Mechanical Fine Screens 5 (Brushes)	MBR Fine Screens	Mechanical	Fine Screens 5	Brushes	-
Mechanical Fine Screens 5 (Brush Cleaning Plate)	MBR Fine Screens	Mechanical	Fine Screens 5	Crush Cleaning Plate	-
Mechanical Fine Screens 5	MBR Fine Screens	Mechanical	Fine Screens 5	Fine Screens	2 570 922
Fine Screens Integrated Conveyor 5	MBR Fine Screens	Mechanical	Fine Screens 5	Conveyor	347 766
Mechanical Fine Screens 6 (Wear Strip)	MBR Fine Screens	Mechanical	Fine Screens 6	Wear Strip	-
Mechanical Fine Screens 6 (Sprocket)	MBR Fine Screens	Mechanical	Fine Screens 6	Sprocket	-
Mechanical Fine Screens 6 (Perforated Plate)	MBR Fine Screens	Mechanical	Fine Screens 6	Perforated Plate	-
Mechanical Fine Screens 6 (Motor)	MBR Fine Screens	Mechanical	Fine Screens 6	Motor	-
Mechanical Fine Screens 6 (Gearbox)	MBR Fine Screens	Mechanical	Fine Screens 6	Gearbox	-
Mechanical Fine Screens 6 (Chain)	MBR Fine Screens	Mechanical	Fine Screens 6	Chain	-
Mechanical Fine Screens 6 (Brushes)	MBR Fine Screens	Mechanical	Fine Screens 6	Brushes	-
Mechanical Fine Screens 6 (Brush Cleaning Plate)	MBR Fine Screens	Mechanical	Fine Screens 6	Crush Cleaning Plate	-

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Mechanical Fine Screens 6	MBR Fine Screens	Mechanical	Fine Screens 6	Fine Screens	2 570 922
Fine Screens Integrated Conveyor 6	MBR Fine Screens	Mechanical	Fine Screens 6	Conveyor	347 766
Membrane unit lifting bracket / cradle	MBR-B	Mechanical	Membrane cradle	Cradle	48 134
Minit Control and Status (Flygt)	MBR-B	Electrical	Filtration Tank Feed Pump 1	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	Filtration Tank Feed Pump 2	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	Filtration Tank Feed Pump 3	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	Filtration Tank Feed Pump 4	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	Filtration Tank Feed Pump 5	Control (Flygt)	-
Minit Control and Status (Flygt)	MBR-B	Electrical	Filtration Tank Feed Pump 6	Control (Flygt)	-
Membrane Filtration Tank Drain Pump 1 (Motor)	MBR-B	Mechanical	Membrane Filtration Tank Drain Pump 1	Motor	-
Membrane Filtration Tank Drain Pump 1 (Gearbox)	MBR-B	Mechanical	Membrane Filtration Tank Drain Pump 1	Gearbox	-
Membrane Filtration Tank Drain Pump 1	MBR-B	Mechanical	Membrane Filtration Tank Drain Pump 1	Membrane Filtration Tank Drain Pumps	1 368 817
Membrane Filtration Tank Drain Pump 2 (Motor)	MBR-B	Mechanical	Membrane Filtration Tank Drain Pump 2	Motor	-
Membrane Filtration Tank Drain Pump 2 (Gearbox)	MBR-B	Mechanical	Membrane Filtration Tank Drain Pump 2	Gearbox	-
Membrane Filtration Tank Drain Pump 2	MBR-B	Mechanical	Membrane Filtration Tank Drain Pump 2	Membrane Filtration Tank Drain Pumps	1 368 817
Membrane Filtration Tank Drain Pump 3 (Motor)	MBR-B	Mechanical	Membrane Filtration Tank Drain Pump 3	Motor	-
Membrane Filtration Tank Drain Pump 3 (Gearbox)	MBR-B	Mechanical	Membrane Filtration Tank Drain Pump 3	Gearbox	-
Membrane Filtration Tank Drain Pump 3	MBR-B	Mechanical	Membrane Filtration Tank Drain Pump 3	Membrane Filtration Tank Drain Pumps	1 368 817
Membrane Train Feed Sluice Gate 1	MBR-B	Mechanical	Membrane Train Feed Sluice Gate 1	Sluice Gate	188 490
Membrane Train Feed Sluice Gate 2	MBR-B	Mechanical	Membrane Train Feed Sluice Gate 2	Sluice Gate	188 490
Membrane Train Feed Sluice Gate 3	MBR-B	Mechanical	Membrane Train Feed Sluice Gate 3	Sluice Gate	188 490
Membrane Train Feed Sluice Gate 4	MBR-B	Mechanical	Membrane Train Feed Sluice Gate 4	Sluice Gate	188 490
Membrane Train Feed Sluice Gate 5	MBR-B	Mechanical	Membrane Train Feed Sluice Gate 5	Sluice Gate	188 490
Membrane Train Feed Sluice Gate 6	MBR-B	Mechanical	Membrane Train Feed Sluice Gate 6	Sluice Gate	188 490
Membrane Train Feed Sluice Gate 7	MBR-B	Mechanical	Membrane Train Feed Sluice Gate 7	Sluice Gate	188 490
Membrane Train Feed Sluice Gate 8	MBR-B	Mechanical	Membrane Train Feed Sluice Gate 8	Sluice Gate	188 490
Membrane Train Feed Sluice Gate 9	MBR-B	Mechanical	Membrane Train Feed Sluice Gate 9	Sluice Gate	188 490
Mixed Liquor Recycle Sluice Gate	MBR-B	Mechanical	Mixed Liquor Swing Recycle Sluice Gate	Sluice Gate	282 115
Mixed Liquor Swing Recycle Pump 1 (Motor)	MBR-B	Electrical	Mixed Liquor Swing Recycle Pump 1	Motor	-
Mixed Liquor Swing Recycle Pump 1 (Gearbox)	MBR-B	Mechanical	Mixed Liquor Swing Recycle Pump 1	Gearbox	-

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Mixed Liquor Swing Recycle Pump 1	MBR-B	Mechanical	Mixed Liquor Swing Recycle Pump 1	Pump	553 748
Minit Control and Status (Flygt)	MBR-B	Electrical	Mixed Liquor Swing Recycle Pump 1	Control (Flygt)	-
Mixed Liquor Swing Recycle Pump 2 (Motor)	MBR-B	Electrical	Mixed Liquor Swing Recycle Pump 2	Motor	-
Mixed Liquor Swing Recycle Pump 2 (Gearbox)	MBR-B	Mechanical	Mixed Liquor Swing Recycle Pump 2	Gearbox	-
Mixed Liquor Swing Recycle Pump 2	MBR-B	Mechanical	Mixed Liquor Swing Recycle Pump 2	Pump	553 748
Minit Control and Status (Flygt)	MBR-B	Electrical	Mixed Liquor Swing Recycle Pump 2	Control (Flygt)	-
Mixed Liquor Swing Recycle Pump 3 (Motor)	MBR-B	Electrical	Mixed Liquor Swing Recycle Pump 3	Motor	-
Mixed Liquor Swing Recycle Pump 3 (Gearbox)	MBR-B	Mechanical	Mixed Liquor Swing Recycle Pump 3	Gearbox	-
Mixed Liquor Swing Recycle Pump 3	MBR-B	Mechanical	Mixed Liquor Swing Recycle Pump 3	Pump	553 748
Minit Control and Status (Flygt)	MBR-B	Electrical	Mixed Liquor Swing Recycle Pump 3	Control (Flygt)	-
Mixed Liquor Swing Recycle Pump 4 (Motor)	MBR-B	Electrical	Mixed Liquor Swing Recycle Pump 4	Motor	-
Mixed Liquor Swing Recycle Pump 4 (Gearbox)	MBR-B	Mechanical	Mixed Liquor Swing Recycle Pump 4	Gearbox	-
Mixed Liquor Swing Recycle Pump 4	MBR-B	Mechanical	Mixed Liquor Swing Recycle Pump 4	Pump	553 748
Minit Control and Status (Flygt)	MBR-B	Electrical	Mixed Liquor Swing Recycle Pump 4	Control (Flygt)	-
Mixed Liquor Swing Recycle Sluice Gate 01	MBR-B	Mechanical	Mixed Liquor Swing Recycle Sluice Gate 01	Sluice Gate	148 009
Mixed Liquor Swing Recycle Sluice Gate 02	MBR-B	Mechanical	Mixed Liquor Swing Recycle Sluice Gate 02	Sluice Gate	148 009
Mixed Liquor Swing Recycle Sluice Gate 03	MBR-B	Mechanical	Mixed Liquor Swing Recycle Sluice Gate 03	Sluice Gate	148 009
Plinth (per mini-sub)	MBR-B	Electrical	MV Switch Gear MBR-B	Plinth	81 502
Permeate/ Back pulse Pump 1 (Motor)	MBR-B	Mechanical	Permeate Pump 1	Motor	-
Permeate/ Back pulse Pump 1 (Gearbox)	MBR-B	Electrical	Permeate Pump 1	Gearbox	-
Permeate/ Back pulse Pump 1	MBR-B	Mechanical	Permeate Pump 1	Pump	1 728 837
Permeate/ Back pulse Pump 2 (Motor)	MBR-B	Electrical	Permeate Pump 2	Motor	-
Permeate/ Back pulse Pump 2 (Gearbox)	MBR-B	Mechanical	Permeate Pump 2	Gearbox	-
Permeate/ Back pulse Pump 2	MBR-B	Mechanical	Permeate Pump 2	Pump	1 728 837
Permeate/ Back pulse Pump 3 (Motor)	MBR-B	Electrical	Permeate Pump 3	Motor	-
Permeate/ Back pulse Pump 3 (Gearbox)	MBR-B	Mechanical	Permeate Pump 3	Gearbox	-
Permeate/ Back pulse Pump 3	MBR-B	Mechanical	Permeate Pump 3	Pump	1 728 837
Permeate/ Back pulse Pump 4 (Motor)	MBR-B	Electrical	Permeate Pump 4	Motor	-
Permeate/ Back pulse Pump 4 (Gearbox)	MBR-B	Electrical	Permeate Pump 4	Gearbox	-
Permeate/ Back pulse Pump 4	MBR-B	Mechanical	Permeate Pump 4	Pump	1 728 837
Permeate/ Back pulse Pump 5 (Motor)	MBR-B	Mechanical	Permeate Pump 5	Motor	-
Permeate/ Back pulse Pump 5 (Gearbox)	MBR-B	Electrical	Permeate Pump 5	Gearbox	-

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Permeate/ Back pulse Pump 5	MBR-B	Mechanical	Permeate Pump 5	Pump	1 728 837
Permeate/ Back pulse Pump 6 (Motor)	MBR-B	Electrical	Permeate Pump 6	Motor	-
Permeate/ Back pulse Pump 6 (Gearbox)	MBR-B	Mechanical	Permeate Pump 6	Gearbox	-
Permeate/ Back pulse Pump 6	MBR-B	Mechanical	Permeate Pump 6	Pump	1 728 837
Permeate/ Back pulse Pump 7 (Motor)	MBR-B	Electrical	Permeate Pump 7	Motor	-
Permeate/ Back pulse Pump 7 (Gearbox)	MBR-B	Electrical	Permeate Pump 7	Gearbox	-
Permeate/ Back pulse Pump 7	MBR-B	Mechanical	Permeate Pump 7	Pump	1 728 837
Permeate/ Back pulse Pump 8 (Motor)	MBR-B	Mechanical	Permeate Pump 8	Motor	-
Permeate/ Back pulse Pump 8 (Gearbox)	MBR-B	Electrical	Permeate Pump 8	Gearbox	-
Permeate/ Back pulse Pump 8	MBR-B	Mechanical	Permeate Pump 8	Pump	1 728 837
Permeate/ Back pulse Pump 9 (Motor)	MBR-B	Electrical	Permeate Pump 9	Motor	-
Permeate/ Back pulse Pump 9 (Gearbox)	MBR-B	Mechanical	Permeate Pump 9	Gearbox	-
Permeate/ Back pulse Pump 9	MBR-B	Mechanical	Permeate Pump 9	Pump	1 728 837
Main Supervisory Network Switch complete	MBR-B	PLC	SCADA	Main Supervisory Network Switch complete	25 762
Data Network Switch Complete	MBR-B	PLC	SCADA	Data Network Switch Complete	25 762
42U, 19" rack cabinet for all network and computer equipment	MBR-B	PLC	SCADA	42U, 19" rack cabinet for all network and computer equipment	222 359
50" LED Backlit LCD Display	MBR-B	PLC	SCADA	50" LED Backlit LCD Display	74 944
KVM media switch complete with all accessories	MBR-B	PLC	SCADA	KVM media switch complete with all accessories	1 874
Data Network Switch Complete	MBR-B	PLC	SCADA	Data Network Switch Complete	12 881
23" LED Backlit LCD Displays	MBR-B	PLC	SCADA	23" LED Backlit LCD Displays	23 420
Rotating Scum Skimmer	MBR-B	Mechanical	Rotating Scum Skimmer	Rotating Scum	346 127
Screened Wastewater Sluice Gate 1	MBR Fine Screens	Mechanical	Screened Wastewater Sluice Gate 1	Sluice Gate	185 900
Screened Wastewater Sluice Gate 2	MBR Fine Screens	Mechanical	Screened Wastewater Sluice Gate 2	Sluice Gate	185 900

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Screened Wastewater Sluice Gate 3	MBR Fine Screens	Mechanical	Screened Wastewater Sluice Gate 3	Sluice Gate	185 900
Screw Conveyor (Motor) 1	MBR Fine Screens	Electrical	Screw Conveyor	Motor	-
Screw Conveyor (Liner)1	MBR Fine Screens	Mechanical	Screw Conveyor	Liner	-
Screw Conveyor (Gearbox)1	MBR Fine Screens	Mechanical	Screw Conveyor	Gearbox	-
Screw Conveyor (Centreless Screw)1	MBR Fine Screens	Mechanical	Screw Conveyor	Centreless Screw	347 766
Screw Conveyor (Motor)2	MBR Fine Screens	Electrical	Screw Conveyor	Motor	-
Screw Conveyor (Liner)2	MBR Fine Screens	Mechanical	Screw Conveyor	Liner	-
Screw Conveyor (Gearbox)2	MBR Fine Screens	Mechanical	Screw Conveyor	Gearbox	-
Screw Conveyor (Centreless Screw)2	MBR Fine Screens	Mechanical	Screw Conveyor	Centreless Screw	347 766
Scum Suppression Dosing Pump 1 (Stator)	MBR-B	Electrical	CIP Sodium Hypochlorite MBR-B	Stator	-
Scum Suppression Dosing Pump 1 (Motor)	MBR-B	Electrical	CIP Sodium Hypochlorite MBR-B	Motor	-
Scum Suppression Dosing Pump 1 (Gearbox)	MBR-B	Electrical	CIP Sodium Hypochlorite MBR-B	Gearbox	-
Scum Suppression Dosing Pump 1	MBR-B	Mechanical	CIP Sodium Hypochlorite MBR-B	Pump	142 398
Scum Suppression Dosing Pump 2 (Stator)	MBR-B	Electrical	CIP Sodium Hypochlorite MBR-B	Stator	-
Scum Suppression Dosing Pump 2 (Motor)	MBR-B	Mechanical	CIP Sodium Hypochlorite MBR-B	Motor	-
Scum Suppression Dosing Pump 2 (Gearbox)	MBR-B	Electrical	CIP Sodium Hypochlorite MBR-B	Gearbox	-
Scum Suppression Dosing Pump 2	MBR-B	Mechanical	CIP Sodium Hypochlorite MBR-B	Pump	142 312
Scum Withdrawal Sluice Gate	MBR-B	Mechanical	Scum Withdrawal Sluice Gate	Sluice Gate	126 439
Service Water Pumps 1	MBR-B	Mechanical	MBR-B Service Water Pumps	Pump	533 335
Service Water Pumps 2	MBR-B	Mechanical	MBR-B Service Water Pumps	Pump	533 335
Service Water Pumps 3	MBR-B	Mechanical	MBR-B Service Water Pumps	Pump	533 335
Service Water Pumps 4	MBR-B	Mechanical	MBR-B Service Water Pumps	Pump	533 335
Accumulators (Water accumulator 1)	MBR-B	Mechanical	MBR-B Service Water Pumps	Accumulator	107 290
Accumulators (Water accumulator 2)	MBR-B	Mechanical	MBR-B Service Water Pumps	Accumulator	107 290
Skip Dolley 1 (Gearbox)	MBR Fine Screens	Mechanical	Skip Dolley 1	Gearbox	-
Skip Dolley 1	MBR Fine Screens	Mechanical	Skip Dolley 1	Skip Dolley	164 386

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Skip Dolley 2 (Gearbox)	MBR Fine Screens	Electrical	Skip Dolley 2	Gearbox	-
Skip Dolley 2	MBR Fine Screens	Mechanical	Skip Dolley 2	Skip Dolley	164 386
Sodium Hypo Dosing Pump 1 (Motor)	MBR-B	Electrical	Sodium Hypochlorite Dosing Pump 1	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 1 (Gearbox)	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 1	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 1 (Driver)	MBR-B	Electrical	Sodium Hypochlorite Dosing Pump 1	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 1 (Stator)	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 1	Stator	-
Sodium Hypo Dosing Pump 1	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 1	Sodium Hypo Dosing Pumps	129 375
Sodium Hypo Dosing Pump 2 (Stator)	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 2	Stator	-
Sodium Hypo Dosing Pump 2 (Motor)	MBR-B	Electrical	Sodium Hypochlorite Dosing Pump 2	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 2 (Gearbox)	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 2	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 2 (Driver)	MBR-B	Electrical	Sodium Hypochlorite Dosing Pump 2	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 2	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 2	Sodium Hypo Dosing Pumps	129 375
Sodium Hypo Dosing Pump 3 (Stator)	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 3	Stator	-
Sodium Hypo Dosing Pump 3 (Motor)	MBR-B	Electrical	Sodium Hypochlorite Dosing Pump 3	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 3 (Gearbox)	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 3	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 3 (Driver)	MBR-B	Electrical	Sodium Hypochlorite Dosing Pump 3	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 3	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 3	Sodium Hypo Dosing Pumps	129 375
Sodium Hypo Dosing Pump 4 (Stator)	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 4	Stator	-
Sodium Hypo Dosing Pump 4 (Motor)	MBR-B	Electrical	Sodium Hypochlorite Dosing Pump 4	Sodium Hypo Dosing Pumps	-

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Sodium Hypo Dosing Pump 4 (Gearbox)	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 4	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 4 (Driver)	MBR-B	Electrical	Sodium Hypochlorite Dosing Pump 4	Sodium Hypo Dosing Pumps	-
Sodium Hypo Dosing Pump 4	MBR-B	Mechanical	Sodium Hypochlorite Dosing Pump 4	Sodium Hypo Dosing Pumps	129 375
Transfer Pump (Motor)	MBR-B	Electrical	CIP Sodium Hypochlorite MBR-B	Transfer Pump	-
Transfer Pump (Gearbox)	MBR-B	Mechanical	CIP Sodium Hypochlorite MBR-B	Transfer Pump	-
Transfer Pump (Driver)	MBR-B	Electrical	CIP Sodium Hypochlorite MBR-B	Transfer Pump	-
Transfer Pump	MBR-B	Mechanical	CIP Sodium Hypochlorite MBR-B	Transfer Pump	37 146
UF Membrane Air Scour Blower 1 (Pre-Filter)	MBR-B	Mechanical	Air Scour Blower 1	UF Membrane	-
UF Membrane Air Scour Blower 1 (Post-Filter)	MBR-B	Mechanical	Air Scour Blower 1	UF Membrane	-
UF Membrane Air Scour Equipment 1 (Bearings)	MBR-B	Mechanical	Air Scour Blower 1	UF Membrane	-
UF Membrane Air Scour Blower 2 (Pre-Filter)	MBR-B	Mechanical	Air Scour Blower 2	UF Membrane	-
UF Membrane Air Scour Blower 2 (Post-Filter)	MBR-B	Mechanical	Air Scour Blower 2	UF Membrane	-
UF Membrane Air Scour Equipment 2 (Bearings)	MBR-B	Mechanical	Air Scour Blower 2	UF Membrane	-
UF Membrane Air Scour Blower 3 (Pre-Filter)	MBR-B	Mechanical	Air Scour Blower 3	UF Membrane	-
UF Membrane Air Scour Blower 3 (Post-Filter)	MBR-B	Mechanical	Air Scour Blower 3	UF Membrane	-
UF Membrane Air Scour Equipment 3 (Bearings)	MBR-B	Mechanical	Air Scour Blower 3	UF Membrane	-
UF Membrane Air Scour Blower 4 (Pre-Filter)	MBR-B	Mechanical	Air Scour Blower 4	UF Membrane	-
UF Membrane Air Scour Blower 4 (Post-Filter)	MBR-B	Mechanical	Air Scour Blower 4	UF Membrane	-
UF Membrane Air Scour Equipment 4 (Bearings)	MBR-B	Mechanical	Air Scour Blower 4	UF Membrane	-
UF Membrane Air Scour Blower 5 (Pre-Filter)	MBR-B	Mechanical	Air Scour Blower 5	UF Membrane	-
UF Membrane Air Scour Blower 5 (Post-Filter)	MBR-B	Mechanical	Air Scour Blower 5	UF Membrane	-
UF Membrane Air Scour Equipment 5 (Bearings)	MBR-B	Mechanical	Air Scour Blower 5	UF Membrane	-
UF Membrane Air Scour Blower 6 (Pre-Filter)	MBR-B	Mechanical	Air Scour Blower 6	UF Membrane	-
UF Membrane Air Scour Blower 6 (Post-Filter)	MBR-B	Mechanical	Air Scour Blower 6	UF Membrane	-
UF Membrane Air Scour Equipment 6 (Bearings)	MBR-B	Mechanical	Air Scour Blower 6	UF Membrane	-
Membrane Train Feed Sluice Gate 1 (Seal)	MBR-B	Mechanical	Filtration Train 1	Seal	-
Membrane Train Feed Sluice Gate 1 (Spindle)	MBR-B	Mechanical	Filtration Train 1	Spindle	-
Membrane Train Feed Sluice Gate 1 (Control Unit)	MBR-B	Mechanical	Filtration Train 1	Control Unit	-
Membrane Train Feed Sluice Gate 2 (Seal)	MBR-B	Mechanical	Filtration Train 2	Seal	-
Membrane Train Feed Sluice Gate 2 (Spindle)	MBR-B	Mechanical	Filtration Train 2	Spindle	-
Membrane Train Feed Sluice Gate 2 (Control Unit)	MBR-B	Mechanical	Filtration Train 2	Control Unit	-

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Membrane Train Feed Sluice Gate 3 (Seal)	MBR-B	Mechanical	Filtration Train 3	Seal	-
Membrane Train Feed Sluice Gate 3 (Spindle)	MBR-B	Mechanical	Filtration Train 3	Spindle	-
Membrane Train Feed Sluice Gate 3 (Control Unit)	MBR-B	Mechanical	Filtration Train 3	Control Unit	-
Membrane Train Feed Sluice Gate 4 (Seal)	MBR-B	Mechanical	Filtration Train 4	Seal	-
Membrane Train Feed Sluice Gate 4 (Spindle)	MBR-B	Mechanical	Filtration Train 4	Spindle	-
Membrane Train Feed Sluice Gate 4 (Control Unit)	MBR-B	Mechanical	Filtration Train 4	Control Unit	-
Membrane Train Feed Sluice Gate 5 (Seal)	MBR-B	Mechanical	Filtration Train 5	Seal	-
Membrane Train Feed Sluice Gate 5 (Spindle)	MBR-B	Mechanical	Filtration Train 5	Spindle	-
Membrane Train Feed Sluice Gate 5 (Control Unit)	MBR-B	Mechanical	Filtration Train 5	Control Unit	-
Membrane Train Feed Sluice Gate 6 (Seal)	MBR-B	Mechanical	Filtration Train 6	Seal	-
Membrane Train Feed Sluice Gate 6 (Spindle)	MBR-B	Mechanical	Filtration Train 6	Spindle	-
Membrane Train Feed Sluice Gate 6 (Control Unit)	MBR-B	Mechanical	Filtration Train 6	Control Unit	-
Membrane Train Feed Sluice Gate 7 (Seal)	MBR-B	Mechanical	Filtration Train 7	Seal	-
Membrane Train Feed Sluice Gate 7 (Spindle)	MBR-B	Mechanical	Filtration Train 7	Spindle	-
Membrane Train Feed Sluice Gate 7 (Control Unit)	MBR-B	Mechanical	Filtration Train 7	Control Unit	-
Membrane Train Feed Sluice Gate 8 (Seal)	MBR-B	Mechanical	Filtration Train 8	Seal	-
Membrane Train Feed Sluice Gate 8 (Spindle)	MBR-B	Mechanical	Filtration Train 8	Spindle	-
Membrane Train Feed Sluice Gate 8 (Control Unit)	MBR-B	Mechanical	Filtration Train 8	Control Unit	-
Membrane Train Feed Sluice Gate 9 (Seal)	MBR-B	Mechanical	Filtration Train 9	Seal	-
Membrane Train Feed Sluice Gate 9 (Spindle)	MBR-B	Mechanical	Filtration Train 9	Spindle	-
Membrane Train Feed Sluice Gate 9 (Control Unit)	MBR-B	Mechanical	Filtration Train 9	Control Unit	-
Ultraviolet Disinfection System 1	MBR-B	Electrical	Ultraviolet Disinfection System 1	Berson UV	596 997
Ultraviolet Disinfection System 2	MBR-B	Electrical	Ultraviolet Disinfection System 2	Berson UV	596 997
WAS / Scum Pump 1 (Motor)	MBR-B	Electrical	WAS Pump 1	Motor	-
WAS / Scum Pump 1 (Gearbox)	MBR-B	Mechanical	WAS Pump 1	Gearbox	-
WAS / Scum Pump 1	MBR-B	Mechanical	WAS Pump 1	WAS / Scum Pumps	1 445 933
WAS / Scum Pump 2 (Motor)	MBR-B	Electrical	WAS Pump 2	Motor	-
WAS / Scum Pump 2 (Gearbox)	MBR-B	Mechanical	WAS Pump 2	Gearbox	-
WAS / Scum Pump 2	MBR-B	Mechanical	WAS Pump 2	WAS / Scum Pumps	1 445 933
WAS Withdrawal Sluice Gate	MBR-B	Mechanical	WAS Withdrawal Sluice Gate MBR-B	Sluice Gate	264 967
Generator Room MBR Ventilation Fan No 2 (Motor)	MBR-B	Electrical	Generators MBR-B	Motor	-
Generator Room MBR Ventilation Fan No 2 (Gearbox)	MBR-B	Mechanical	Generators MBR-B	Gearbox	-
Generator Room MBR Ventilation Fan No 1 (Motor)	MBR-B	Electrical	Generators MBR-B	Motor	-
Generator Room MBR Ventilation Fan No 1 (Gearbox)	MBR-B	Mechanical	Generators MBR-B	Gearbox	-

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Machine Room Ventilation Fan No 3 (Motor)	MBR-B	Electrical	MBR-B HVAC	Motor	-
Machine Room Ventilation Fan No 3 (Gearbox)	MBR-B	Mechanical	MBR-B HVAC	Gearbox	-
Machine Room Ventilation Fan No 2 (Motor)	MBR-B	Electrical	MBR-B HVAC	Motor	-
Machine Room Ventilation Fan No 2 (Gearbox)	MBR-B	Mechanical	MBR-B HVAC	Gearbox	-
Machine Room Ventilation Fan No 1 (Motor)	MBR-B	Electrical	MBR-B HVAC	Motor	-
Machine Room Ventilation Fan No 1 (Gearbox)	MBR-B	Mechanical	MBR-B HVAC	Gearbox	-
4 ton Chain Hoist and Manual Crawl	Inlet Works	Mechanical	Underslung Condra Crane with Ilula Chain Block	Manual Crawl	488 225
4 ton King Electric Chain Hoist and Manual Crawl Lifting Beam	Inlet Works	Mechanical	Underslung Condra Crane with Ilula Chain Block	Lifting Beam	-
4 ton King Electric Chain Hoist and Manual Crawl Motor 1	Inlet Works	Electrical	Underslung Condra Crane with Ilula Chain Block	Motor	-
4 ton King Electric Chain Hoist and Manual Crawl Gearbox 1	Inlet Works	Mechanical	Underslung Condra Crane with Ilula Chain Block	Gearbox	-
4 ton King Electric Chain Hoist and Manual Crawl Remote Control	Inlet Works	Mechanical	Underslung Condra Crane with Ilula Chain Block	Remote Control	-
Chain Block	Inlet Works	Mechanical	Underslung Condra Crane with Ilula Chain Block	6 ton King Electric Chain Hoist and Manual Crawl	8 483
Coarse Screen 1 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Coarse Front Rake Screen 1	Sluice Gate	503 908
Coarse Screen 2 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Coarse Front Rake Screen 2	Sluice Gate	503 908
Coarse Front Rake Screen 2 Motor	Inlet Works	Electrical	Coarse Front Rake Screen 2	Motor	-
Coarse Front Rake Screen 2 Gearbox	Inlet Works	Mechanical	Coarse Front Rake Screen 2	Gearbox	-
Coarse Front Rake Screen 2	Inlet Works	Mechanical	Coarse Front Rake Screen 2	Coarse Rake Screen	1 381 279
Coarse Screen 3 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Coarse Front Rake Screen 3	Sluice Gate	503 908
Coarse Front Rake Screen 3 Motor	Inlet Works	Electrical	Coarse Front Rake Screen 3	Motor	-
Coarse Front Rake Screen 3 Gearbox	Inlet Works	Mechanical	Coarse Front Rake Screen 3	Gearbox	-
Coarse Front Rake Screen 3	Inlet Works	Mechanical	Coarse Front Rake Screen 3	Coarse Rake Screen	1 381 279
Coarse Screen 4 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Coarse Front Rake Screen 4	Sluice Gate	503 908
Coarse Front Rake Screen 4 Motor	Inlet Works	Electrical	Coarse Front Rake Screen 4	Motor	-
Coarse Front Rake Screen 4 Gearbox	Inlet Works	Mechanical	Coarse Front Rake Screen 4	Gearbox	-
Coarse Front Rake Screen 4	Inlet Works	Mechanical	Coarse Front Rake Screen 4	Coarse Rake Screen	1 381 279
Coarse Screen 5 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Coarse Front Rake Screen 5	Sluice Gate	503 908
Coarse Front Rake Screen 5 Motor	Inlet Works	Electrical	Coarse Front Rake Screen 5	Motor	-

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Coarse Front Rake Screen 5 Gearbox	Inlet Works	Mechanical	Coarse Front Rake Screen 5	Gearbox	-
Coarse Front Rake Screen 5	Inlet Works	Mechanical	Coarse Front Rake Screen 5	Coarse Rake Screen	1 381 279
Coarse Screenings Skip Dolley Motor	Inlet Works	Electrical	Coarse Screenings Skip Dolley	Motor	-
Coarse Screenings Skip Dolley Gearbox	Inlet Works	Mechanical	Coarse Screenings Skip Dolley	Gearbox	-
Coarse Screenings Skip Dolley	Inlet Works	Mechanical	Coarse Screenings Skip Dolley	Skip Dolley	732 789
Coarse Screenings Washer Compactor 2 Gearbox 2	Inlet Works	Mechanical	Coarse Screenings Washer Compactor 1	Gearbox	-
Coarse Screenings Washer Compactor 2 Compactor	Inlet Works	Mechanical	Coarse Screenings Washer Compactor 1	Compactor	1 985 212
Coarse Screenings Washer Compactor 1 Gearbox 2	Inlet Works	Mechanical	Coarse Screenings Washer Compactor 1	Gearbox	-
Coarse Screenings Washer Compactor 1 Gearbox 1	Inlet Works	Mechanical	Coarse Screenings Washer Compactor 1	Gearbox	-
Coarse Screenings Washer Compactor 1 Compactor	Inlet Works	Mechanical	Coarse Screenings Washer Compactor 1	Compactor	-
Coarse Screenings Washer Compactor 1	Inlet Works	Mechanical	Coarse Screenings Washer Compactor 1	Washer Compactor	1 985 212
Fine Screenings Washer Compactor 2 Washer	Inlet Works	Mechanical	Fine Screenings Washer Compactor 2	Motor	-
Fine Screenings Washer Compactor 2 Gearbox 2	Inlet Works	Mechanical	Fine Screenings Washer Compactor 2	Gearbox	-
Fine Screenings Washer Compactor 2	Inlet Works	Mechanical	Fine Screenings Washer Compactor 2	Washer Compactor	1 985 212
Fine Screenings Washer Compactor 1 Washer	Inlet Works	Mechanical	Fine Screenings Washer Compactor 1	Motor	-
Fine Screenings Washer Compactor 1 Washer	Inlet Works	Mechanical	Fine Screenings Washer Compactor 1	Motor	-
Fine Screenings Washer Compactor 1 Gearbox 1	Inlet Works	Mechanical	Fine Screenings Washer Compactor 1	Gearbox	-
Fine Screenings Washer Compactor 1	Inlet Works	Mechanical	Fine Screenings Washer Compactor 1	Washer Compactor	1 985 212
Fine Perforated Plate Screen 2 Outlet Sluice Gate Valve	Inlet Works	Mechanical	Fine Perforated Screen 2	Sluice Gate	503 908
Fine Perforated Screen 2 Motor 2	Inlet Works	Electrical	Fine Perforated Screen 2	Motor	-
Fine Perforated Screen 2 Gearbox 2	Inlet Works	Mechanical	Fine Perforated Screen 2	Gearbox	-
Fine Perforated Screen 2 Motor 1	Inlet Works	Electrical	Fine Perforated Screen 2	Motor	-
Fine Perforated Screen 2 Gearbox 1	Inlet Works	Mechanical	Fine Perforated Screen 2	Gearbox	-
Fine Perforated Screen 2	Inlet Works	Mechanical	Fine Perforated Screen 2	Fine Screen	4 402 204
Fine Perforated Screen 1 Gearbox 2	Inlet Works	Mechanical	Fine Perforated Screen 2	Gearbox	-
Fine Perforated Plate Screen 3 Outlet Sluice Gate Valve	Inlet Works	Mechanical	Fine Perforated Screen 3	Sluice Gate	503 908
Fine Perforated Screen 3 Motor 2	Inlet Works	Electrical	Fine Perforated Screen 3	Motor	-
Fine Perforated Screen 3 Gearbox 2	Inlet Works	Mechanical	Fine Perforated Screen 3	Gearbox	-
Fine Perforated Screen 3 Motor 1	Inlet Works	Electrical	Fine Perforated Screen 3	Motor	-
Fine Perforated Screen 3 Gearbox 1	Inlet Works	Mechanical	Fine Perforated Screen 3	Gearbox	-
Fine Perforated Screen 3	Inlet Works	Mechanical	Fine Perforated Screen 3	Fine Screen	4 402 204
Fine Perforated Plate Screen 4 Outlet Sluice Gate Valve	Inlet Works	Mechanical	Fine Perforated Screen 4	Sluice Gate	503 908
Fine Perforated Screen 4 Motor 2	Inlet Works	Electrical	Fine Perforated Screen 4	Motor	-
Fine Perforated Screen 4 Gearbox 2	Inlet Works	Mechanical	Fine Perforated Screen 4	Gearbox	-

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Fine Perforated Screen 4 Motor 1	Inlet Works	Electrical	Fine Perforated Screen 4	Motor	-
Fine Perforated Screen 4 Gearbox 1	Inlet Works	Mechanical	Fine Perforated Screen 4	Gearbox	-
Fine Perforated Screen 4	Inlet Works	Mechanical	Fine Perforated Screen 4	Fine Screen	4 402 204
Fine Perforated Plate Screen 5 Outlet Sluice Gate Valve	Inlet Works	Mechanical	Fine Perforated Screen 5	Sluice Gate	503 908
Fine Perforated Screen 5 Motor 2	Inlet Works	Electrical	Fine Perforated Screen 5	Motor	-
Fine Perforated Screen 5 Gearbox 2	Inlet Works	Mechanical	Fine Perforated Screen 5	Gearbox	-
Fine Perforated Screen 5 Motor 1	Inlet Works	Electrical	Fine Perforated Screen 5	Motor	-
Fine Perforated Screen 5 Gearbox 1	Inlet Works	Mechanical	Fine Perforated Screen 5	Gearbox	-
Fine Perforated Screen 5	Inlet Works	Mechanical	Fine Perforated Screen 5	Fine Screen	4 402 204
Fine Screenings Skip Dolley Motor	Inlet Works	Electrical	Fine Perforated Screenings Skip Dolley	Motor	-
Fine Screenings Skip Dolley	Inlet Works	Mechanical	Fine Perforated Screenings Skip Dolley	Skip Dolley	732 789
Fine Screenings Washer Compactor 1 Motor 2	Inlet Works	Electrical	Fine Screenings Washer Compactor 1	Motor	-
Fine Screenings Washer Compactor 1 Gearbox 2	Inlet Works	Mechanical	Fine Screenings Washer Compactor 1	Gearbox	-
Fine Screenings Washer Compactor 1 Washer	Inlet Works	Mechanical	Fine Screenings Washer Compactor 1	Washer	-
Fine Screenings Washer Compactor 1 Motor 1	Inlet Works	Electrical	Fine Screenings Washer Compactor 1	Motor	-
Fine Screenings Washer Compactor 1 Gearbox 1	Inlet Works	Mechanical	Fine Screenings Washer Compactor 1	Gearbox	-
Fine Screenings Washer Compactor 1 Compactor	Inlet Works	Mechanical	Fine Screenings Washer Compactor 1	Compactor	-
Fine Screenings Washer Compactor 1	Inlet Works	Mechanical	Fine Screenings Washer Compactor 1	Washer Compactor	1 424 640
Fine Screenings Washer Compactor 2 Motor 2	Inlet Works	Electrical	Fine Screenings Washer Compactor 2	Motor	-
Fine Screenings Washer Compactor 2 Gearbox 2	Inlet Works	Mechanical	Fine Screenings Washer Compactor 2	Gearbox	-
Fine Screenings Washer Compactor 2 Washer	Inlet Works	Mechanical	Fine Screenings Washer Compactor 2	Washer	1 054 987
Fine Screenings Washer Compactor 2 Motor 1	Inlet Works	Electrical	Fine Screenings Washer Compactor 2	Motor	-
Fine Screenings Washer Compactor 2 Gearbox 1	Inlet Works	Mechanical	Fine Screenings Washer Compactor 2	Gearbox	-
Fine Screenings Washer Compactor 2 Compactor	Inlet Works	Mechanical	Fine Screenings Washer Compactor 2	Compactor	-
Fine Screenings Washer Compactor 2	Inlet Works	Mechanical	Fine Screenings Washer Compactor 2	Washer Compactor	1 424 640
Fine Screenings Washer Compactor 1 Motor 2	Inlet Works	Electrical	Fine Perforated Screenings Washer Compactor 1	Motor	-
Fine Screenings Washer Compactor 1 Gearbox 2	Inlet Works	Mechanical	Fine Perforated Screenings Washer Compactor 1	Gearbox	-
Fine Screenings Washer Compactor 1 Washer	Inlet Works	Mechanical	Fine Perforated Screenings Washer Compactor 1	Washer	1 054 987
Fine Screenings Washer Compactor 1 Motor 1	Inlet Works	Electrical	Fine Perforated Screenings Washer Compactor 1	Motor	-

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Fine Screenings Washer Compactor 1 Gearbox 1	Inlet Works	Mechanical	Fine Perforated Screenings Washer Compactor 1	Gearbox	-
Fine Screenings Washer Compactor 1 Compactor	Inlet Works	Mechanical	Fine Perforated Screenings Washer Compactor 1	Compactor	-
Fine Screenings Washer Compactor 1	Inlet Works	Mechanical	Fine Perforated Screenings Washer Compactor 1	Washer Compactor	1 424 640
Fine Screenings Washer Compactor 2 Motor 2	Inlet Works	Electrical	Fine Perforated Screenings Washer Compactor 2	Motor	-
Fine Screenings Washer Compactor 2 Gearbox 2	Inlet Works	Mechanical	Fine Perforated Screenings Washer Compactor 2	Gearbox	-
Fine Screenings Washer Compactor 2 Washer	Inlet Works	Mechanical	Fine Perforated Screenings Washer Compactor 2	Washer	1 054 987
Fine Screenings Washer Compactor 2 Motor 1	Inlet Works	Electrical	Fine Perforated Screenings Washer Compactor 2	Motor	-
Fine Screenings Washer Compactor 2 Gearbox 1	Inlet Works	Mechanical	Fine Perforated Screenings Washer Compactor 2	Gearbox	-
Fine Screenings Washer Compactor 2 Compactor	Inlet Works	Mechanical	Fine Perforated Screenings Washer Compactor 2	Compactor	-
Fine Screenings Washer Compactor 2	Inlet Works	Mechanical	Fine Perforated Screenings Washer Compactor 2	Washer Compactor	1 424 640
Grit Classifier 1 & 2 Skip Dolley Motor	Inlet Works	Electrical	Grit Classifier 1 & 2 Skip Dolley	Motor	-
Grit Classifier 1&2 Skip Dolley	Inlet Works	Mechanical	Grit Classifier 1 & 2 Skip Dolley	Skip Dolley	214 271
Grit Classifier 3 & 4 Skip Dolley Motor	Inlet Works	Electrical	Grit Classifier 3 & 4 Skip Dolley	Motor	-
Grit Classifier 3 & 4 Skip Dolley	Inlet Works	Mechanical	Grit Classifier 3 & 4 Skip Dolley	Skip Dolley	214 271
Lower Screw Pump 1 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Lower Screw Pump 1	Sluice Gate	500 089
Lower Screw Pump 2 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Lower Screw Pump 2	Sluice Gate	500 089
Lower Screw Pump 2 Temperature Controller 4	Inlet Works	Instrumentation	Lower Screw Pump 2	Temperature Controller	-
Lower Screw Pump 2 Temperature Controller 3	Inlet Works	Instrumentation	Lower Screw Pump 2	Temperature Controller	-
Lower Screw Pump 2 Temperature Controller 2	Inlet Works	Instrumentation	Lower Screw Pump 2	Temperature Controller	-
Lower Screw Pump 2 Temperature Controller 1	Inlet Works	Instrumentation	Lower Screw Pump 2	Temperature Controller	-
Lower Screw Pump 3 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Lower Screw Pump 3	Sluice Gate	500 089

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Lower Screw Pump 3 Temperature Controller 4	Inlet Works	Instrumentation	Lower Screw Pump 3	Temperature Controller	-
Lower Screw Pump 3 Temperature Controller 3	Inlet Works	Instrumentation	Lower Screw Pump 3	Temperature Controller	-
Lower Screw Pump 3 Temperature Controller 2	Inlet Works	Instrumentation	Lower Screw Pump 3	Temperature Controller	-
Lower Screw Pump 3 Temperature Controller 1	Inlet Works	Instrumentation	Lower Screw Pump 3	Temperature Controller	-
Lower Screw Pump 4 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Lower Screw Pump 4	Sluice Gate	500 089
Lower Screw Pump 4 Temperature Controller 4	Inlet Works	Instrumentation	Lower Screw Pump 4	Temperature Controller	-
Lower Screw Pump 4 Temperature Controller 3	Inlet Works	Instrumentation	Lower Screw Pump 4	Temperature Controller	-
Lower Screw Pump 4 Temperature Controller 2	Inlet Works	Instrumentation	Lower Screw Pump 4	Temperature Controller	-
Lower Screw Pump 4 Temperature Controller 1	Inlet Works	Instrumentation	Lower Screw Pump 4	Temperature Controller	-
Lower Screw Pump 5 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Lower Screw Pump 5	Sluice Gate	500 089
Lower Screw Pump 5 Temperature Controller 4	Inlet Works	Instrumentation	Lower Screw Pump 5	Temperature Controller	-
Lower Screw Pump 5 Temperature Controller 3	Inlet Works	Instrumentation	Lower Screw Pump 5	Temperature Controller	-
Lower Screw Pump 5 Temperature Controller 2	Inlet Works	Instrumentation	Lower Screw Pump 5	Temperature Controller	-
Lower Screw Pump 5 Temperature Controller 1	Inlet Works	Instrumentation	Lower Screw Pump 5	Temperature Controller	-
Diversion Chamber Sluice Gate	Inlet Works	Mechanical	Main Sewer Inlet Sluice Gate	Sluice Gate	1 063 573
Main Sewer Inlet Sluice Gate	Inlet Works	Mechanical	Main Sewer Inlet Sluice Gate	Sluice Gate	1 063 573
Parshall Flume 1	Inlet Works	Mechanical	Parshall Flume 1	Parshall Flume	70 761
Parshall Flume 2	Inlet Works	Mechanical	Parshall Flume 2	Parshall Flume	70 761
Parshall Flume 3	Inlet Works	Mechanical	Parshall Flume 3	Parshall Flume	70 761
Parshall Flume 4	Inlet Works	Mechanical	Parshall Flume 4	Parshall Flume	70 761
Trash Rack Screen 1 Outlet Sluice Gate	Inlet Works	Mechanical	Trash Rack 1	Sluice Gate	581 321
Trash Rack Screen 1 Inlet Sluice Gate	Inlet Works	Mechanical	Trash Rack 1	Sluice Gate	601 908
Trash Rack Motor 1	Inlet Works	Electrical	Trash Rack 1	Motor	-

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Trash Rack Gearbox 1	Inlet Works	Mechanical	Trash Rack 1	Gearbox	-
Trash Rack Screen 1	Inlet Works	Mechanical	Trash Rack 1	Screen	5 644 736
Trash Rack Screen 2 Outlet Sluice Gate	Inlet Works	Mechanical	Trash Rack 2	Sluice Gate	581 321
Trash Rack Screen 2 Inlet Sluice Gate	Inlet Works	Mechanical	Trash Rack 2	Sluice Gate	601 908
Trash Rack Motor 2	Inlet Works	Electrical	Trash Rack 2	Motor	-
Trash Rack Gearbox 2	Inlet Works	Mechanical	Trash Rack 2	Gearbox	-
Trash Rack Screen 2	Inlet Works	Mechanical	Trash Rack 2	Screen	5 644 736
Trash Rack Screen 3 Outlet Sluice Gate	Inlet Works	Mechanical	Trash Rack 3	Sluice Gate	581 321
Trash Rack Screen 3 Inlet Sluice Gate	Inlet Works	Mechanical	Trash Rack 3	Sluice Gate	601 908
Trash Rack Motor 3	Inlet Works	Electrical	Trash Rack 3	Motor	-
Trash Rack Gearbox 3	Inlet Works	Mechanical	Trash Rack 3	Gearbox	-
Trash Rack Screen 3	Inlet Works	Mechanical	Trash Rack 3	Screen	5 644 736
Trash Rack Screening Belt Conveyor 1 Motor	Inlet Works	Electrical	Trash Rack Screening Belt Conveyor 1	Motor	-
Trash Rack Screening Belt Conveyor 1 Gearbox	Inlet Works	Mechanical	Trash Rack Screening Belt Conveyor 1	Gearbox	-
Trash Rack Screening Belt Conveyor	Inlet Works	Mechanical	Trash Rack Screening Belt Conveyor 1	Trash Rack Screening Belt Conveyor 1	803 913
Grit Classifier 1	Inlet Works	Mechanical	Vortex Degritter 1	Grit Classifier	385 723
Grit Classifier 1 Motor	Inlet Works	Electrical	Vortex Degritter 1	Motor	-
Grit Classifier 1 Skip Dolley Motor	Inlet Works	Electrical	Vortex Degritter 1	Motor	-
Vortex Degritter 1 Outlet Sluice Gate Valve	Inlet Works	Mechanical	Vortex Degritter 1	Sluice Gate	-
Vortex Degritter 1 Outlet Sluice Gate Sensor	Inlet Works	Instrumentation	Vortex Degritter 1	Sluice Gate	-
Vortex Degritter 1 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Vortex Degritter 1	Sluice Gate	-
Vortex Degritter 1 Inlet Sluice Gate Sensor	Inlet Works	Instrumentation	Vortex Degritter 1	Sluice Gate	-
Vortex Degritter 1 Grit Pump Motor	Inlet Works	Electrical	Vortex Degritter 1	Motor	-
Vortex Degritter 1 Grit Pump Gearbox	Inlet Works	Mechanical	Vortex Degritter 1	Gearbox	-
Vortex Degritter 1 Grit Pump	Inlet Works	Mechanical	Vortex Degritter 1	Pump	505 878
Vortex Degritter 1	Inlet Works	Mechanical	Vortex Degritter 1	Grit Classifier	385 723
Grit Classifier 2 Motor	Inlet Works	Electrical	Vortex Degritter 2	Motor	-
Vortex Degritter 2 Outlet Sluice Gate Valve	Inlet Works	Mechanical	Vortex Degritter 2	Sluice Gate	-
Vortex Degritter 2 Outlet Sluice Gate Sensor	Inlet Works	Instrumentation	Vortex Degritter 2	Sluice Gate	-
Vortex Degritter 2 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Vortex Degritter 2	Sluice Gate	-
Vortex Degritter 2 Inlet Sluice Gate Sensor	Inlet Works	Instrumentation	Vortex Degritter 2	Sluice Gate	-
Vortex Degritter 2 Grit Pump Motor	Inlet Works	Electrical	Vortex Degritter 2	Motor	-
Vortex Degritter 2 Grit Pump Gearbox	Inlet Works	Mechanical	Vortex Degritter 2	Gearbox	-

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Vortex Degritter 2 Grit Pump	Inlet Works	Mechanical	Vortex Degritter 2	Pump	505 878
Grit Classifier 2	Inlet Works	Mechanical	Vortex Degritter 2	Grit Classifier	385 723
Grit Classifier 3 Motor	Inlet Works	Electrical	Vortex Degritter 3	Motor	-
Vortex Degritter 3 Outlet Sluice Gate Valve	Inlet Works	Mechanical	Vortex Degritter 3	Sluice Gate	-
Vortex Degritter 3 Outlet Sluice Gate Sensor	Inlet Works	Instrumentation	Vortex Degritter 3	Sluice Gate	-
Vortex Degritter 3 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Vortex Degritter 3	Sluice Gate	-
Vortex Degritter 3 Inlet Sluice Gate Sensor	Inlet Works	Instrumentation	Vortex Degritter 3	Sluice Gate	-
Vortex Degritter 3 Grit Pump Motor	Inlet Works	Electrical	Vortex Degritter 3	Motor	-
Vortex Degritter 3 Grit Pump Gearbox	Inlet Works	Mechanical	Vortex Degritter 3	Gearbox	-
Vortex Degritter 3 Grit Pump	Inlet Works	Mechanical	Vortex Degritter 3	Pump	505 878
Grit Classifier 3	Inlet Works	Mechanical	Vortex Degritter 3	Grit Classifier	385 723
Grit Classifier 4 Motor	Inlet Works	Electrical	Vortex Degritter 4	Motor	-
Vortex Degritter 4 Outlet Sluice Gate Valve	Inlet Works	Mechanical	Vortex Degritter 4	Sluice Gate	-
Vortex Degritter 4 Outlet Sluice Gate Sensor	Inlet Works	Instrumentation	Vortex Degritter 4	Sluice Gate	-
Vortex Degritter 4 Inlet Sluice Gate Valve	Inlet Works	Mechanical	Vortex Degritter 4	Sluice Gate	-
Vortex Degritter 4 Inlet Sluice Gate Sensor	Inlet Works	Instrumentation	Vortex Degritter 4	Sluice Gate	-
Vortex Degritter 4 Grit Pump Motor	Inlet Works	Electrical	Vortex Degritter 4	Motor	-
Vortex Degritter 4 Grit Pump Gearbox	Inlet Works	Mechanical	Vortex Degritter 4	Gearbox	-
Vortex Degritter 4 Grit Pump	Inlet Works	Mechanical	Vortex Degritter 4	Pump	505 878
Grit Classifier 4	Inlet Works	Mechanical	Vortex Degritter 4	Grit Classifier	385 723
Lower Screw Pump 2	Inlet Works	Mechanical	Lower Screw Pump 2	Screw Pump	5 234 449
Lower Screw Pump 2 Gearbox	Inlet Works	Mechanical	Lower Screw Pump 2	Gearbox	-
Lower Screw Pump 2 Grease Pump	Inlet Works	Mechanical	Lower Screw Pump 2	Grease Pump	-
Lower Screw Pump 2 Motor	Inlet Works	Electrical	Lower Screw Pump 2	Motor	-
Lower Screw Pump 3	Inlet Works	Mechanical	Lower Screw Pump 3	Screw Pump	5 234 449
Lower Screw Pump 3 Gearbox	Inlet Works	Mechanical	Lower Screw Pump 3	Gearbox	-
Lower Screw Pump 3 Grease Pump	Inlet Works	Mechanical	Lower Screw Pump 3	Grease Pump	-
Lower Screw Pump 3 Motor	Inlet Works	Electrical	Lower Screw Pump 3	Motor	-
Lower Screw Pump 4	Inlet Works	Mechanical	Lower Screw Pump 4	Screw Pump	5 234 449
Lower Screw Pump 4 Gearbox	Inlet Works	Mechanical	Lower Screw Pump 4	Gearbox	-
Lower Screw Pump 4 Grease Pump	Inlet Works	Mechanical	Lower Screw Pump 4	Grease Pump	-
Lower Screw Pump 4 Motor	Inlet Works	Electrical	Lower Screw Pump 4	Motor	-
Lower Screw Pump 5	Inlet Works	Mechanical	Lower Screw Pump 5	Screw Pump	5 234 449
Lower Screw Pump 5 Gearbox	Inlet Works	Mechanical	Lower Screw Pump 5	Gearbox	-

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Lower Screw Pump 5 Grease Pump	Inlet Works	Mechanical	Lower Screw Pump 5	Grease Pump	-
Lower Screw Pump 5 Motor	Inlet Works	Electrical	Lower Screw Pump 5	Motor	-
Inlet Works Odour Control System and covers for inlet Channels	Inlet Works	Mechanical	Odour Control System	Covers and Piping support	3 788 695
Odour Control Unit Raw Inlet	Inlet Works	Mechanical	Odour Control System	Odour Control System	4 899 601
Odour Control Unit Screenings	Inlet Works	Mechanical	Odour Control System	Odour Control System	4 899 601
Odour Control Unit Degritters	Inlet Works	Mechanical	Odour Control System	Odour Control System	4 899 601
Industrial Network Installation	Inlet Works	PLC	PLC Network Inlet Dewatering	Optic Fibre Inlet	699 436
Change of Inlet Works Equipment Chains and Rakes	Inlet Works	Mechanical	Screening Equipment	Chains	1 452 684
Smart Motor Controller (Tsys-T Base Unit LTMR-XX-EBD & Expansion Voltage Unit LTMEV40BD) (x86)	Inlet Works	Electrical	Smart motor Controllers	Smart motor Controllers	2 316 369
Operator Control Unit (LTCU) (x86)	Inlet Works	Electrical	Smart motor Controllers	Smart motor Controllers	597 674
2 ton King Electric Chain Hoist on Curve Monorail	Dewatering	Mechanical	2 ton King Electric Chain Hoist on Curve Monorail	Lifting Equipment	2 870 089
2 ton King Electric Chain Hoist on Curve Monorail Chain Block	Dewatering	Mechanical	2 ton King Electric Chain Hoist on Curve Monorail	Chain Block	-
2 ton King Electric Chain Hoist on Curve Monorail Gearbox 1	Dewatering	Mechanical	2 ton King Electric Chain Hoist on Curve Monorail	Gearbox	-
2 ton King Electric Chain Hoist on Curve Monorail Gearbox 2	Dewatering	Mechanical	2 ton King Electric Chain Hoist on Curve Monorail	Gearbox	-
2 ton King Electric Chain Hoist on Curve Monorail Lifting Beam	Dewatering	Mechanical	2 ton King Electric Chain Hoist on Curve Monorail	Lifting Beam	-
2 ton King Electric Chain Hoist on Curve Monorail Motor 1	Dewatering	Electrical	2 ton King Electric Chain Hoist on Curve Monorail	Motor	-
2 ton King Electric Chain Hoist on Curve Monorail Motor 2	Dewatering	Electrical	2 ton King Electric Chain Hoist on Curve Monorail	Motor	-
2 ton King Electric Chain Hoist on Curve Monorail Remote Control	Dewatering	Mechanical	2 ton King Electric Chain Hoist on Curve Monorail	Remote Control	-
Air Compressor x2 and dryer	Dewatering	Mechanical	Air Compressor	Air Compressor	533 385
ADDITION OF ODOUR HATCHES to cake silos and holding tanks	Dewatering	Mechanical	Cake Silos	Odour Hatches	413 460

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Central WAS Collection Macerator	Dewatering	Mechanical	Central WAS Collection Macerator	Macerator	667 980
Central WAS Collection Pump 1	Dewatering	Mechanical	Central WAS Collection Pump 1	Centrifugal Pump	446 525
Central WAS Collection Pump 1 Gearbox	Dewatering	Mechanical	Central WAS Collection Pump 1	Gearbox	-
Central WAS Collection Pump 1 Motor	Dewatering	Electrical	Central WAS Collection Pump 1	Motor	-
Central WAS Collection Pump 2	Dewatering	Mechanical	Central WAS Collection Pump 2	Centrifugal Pump	446 525
Central WAS Collection Pump 2 Gearbox	Dewatering	Mechanical	Central WAS Collection Pump 2	Gearbox	-
Central WAS Collection Pump 2 Motor	Dewatering	Electrical	Central WAS Collection Pump 2	Motor	-
Degritted Grit Classifier Conveyor	Dewatering	Mechanical	Degritted Grit Classifier Conveyor	Conveyor	1 350 843
Degritted Grit Classifier Mixer	Dewatering	Mechanical	Degritted Grit Classifier	Classifier	1 435 862
Degritted Primary Sludge Pump 1	Dewatering	Mechanical	Degritted Primary Sludge Pump 1	Pump	307 287
Degritted Primary Sludge Pump 1 Gearbox	Dewatering	Mechanical	Degritted Primary Sludge Pump 1	Gearbox	-
Degritted Primary Sludge Pump 1 Motor	Dewatering	Electrical	Degritted Primary Sludge Pump 1	Motor	-
Degritted Primary Sludge Pump 2	Dewatering	Mechanical	Degritted Primary Sludge Pump 2	Pump	307 287
Degritted Primary Sludge Pump 2 Gearbox	Dewatering	Mechanical	Degritted Primary Sludge Pump 2	Gearbox	-
Degritted Primary Sludge Pump 2 Motor	Dewatering	Electrical	Degritted Primary Sludge Pump 2	Motor	-
Degritter Skip Dolley	Dewatering	Mechanical	Degritter Skip Dolley	Skip Dolley	732 789
Discharge Heater	Dewatering	Mechanical	Poly Hopper 1	Heater	8 213
Discharge Heater	Dewatering	Mechanical	Poly Hopper 2	Heater	8 213
Discharge Heater	Dewatering	Mechanical	Poly Hopper 3	Heater	8 213
Discharge Heater	Dewatering	Mechanical	Poly Hopper 4	Heater	8 213
Flanged Conveyor Outlet Isolation Square Conveyor	Dewatering	Mechanical	WAS Conveyor system	Square Conveyor	1 869 149
Flanged Conveyor Outlet Isolation Square Conveyor	Dewatering	Mechanical	WAS Conveyor system	Square Conveyor	1 869 149
Flanged Conveyor Outlet Isolation Square Conveyor	Dewatering	Mechanical	WAS Conveyor system	Square Conveyor	1 869 149
Gereg Isolation Telescopic Bellmouth	Dewatering	Mechanical	Primary Sludge Holding Tank	Telescopic Bellmouth	160 675
Gereg Isolation Telescopic Bellmouth	Dewatering	Mechanical	Primary Sludge Holding Tank	Telescopic Bellmouth	160 675
Hydro-Cyclone	Dewatering	Mechanical	Hydro-Cyclone	Hydro-cyclone	120 511
Load Cell A	Dewatering	Mechanical	Poly Hopper 1	Load Cell	42 968
Load Cell A	Dewatering	Mechanical	Poly Hopper 2	Load Cell	42 968
Load Cell A	Dewatering	Mechanical	Poly Hopper 3	Load Cell	42 968
Load Cell A	Dewatering	Mechanical	Poly Hopper 4	Load Cell	42 968
Load Cell B	Dewatering	Mechanical	Poly Hopper 1	Load Cell	42 968
Load Cell B	Dewatering	Mechanical	Poly Hopper 2	Load Cell	42 968

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Load Cell B	Dewatering	Mechanical	Poly Hopper 3	Load Cell	42 968
Load Cell B	Dewatering	Mechanical	Poly Hopper 4	Load Cell	42 968
Overhead Crane	Dewatering	Mechanical	Overhead Crane	Lifting Equipment	3 120 793
Overhead Crane Chain Block	Dewatering	Mechanical	Overhead Crane	Chain Block	-
Overhead Crane Gearbox 1	Dewatering	Mechanical	Overhead Crane	Gearbox	-
Overhead Crane Gearbox 2	Dewatering	Mechanical	Overhead Crane	Gearbox	-
Overhead Crane Gearbox 3	Dewatering	Mechanical	Overhead Crane	Gearbox	-
Overhead Crane Lifting Beam	Dewatering	Mechanical	Overhead Crane	Lifting Beam	-
Overhead Crane Motor 1	Dewatering	Electrical	Overhead Crane	Motor	-
Overhead Crane Motor 2	Dewatering	Electrical	Overhead Crane	Motor	-
Overhead Crane Motor 3	Dewatering	Electrical	Overhead Crane	Motor	-
Overhead Crane Remote Control	Dewatering	Mechanical	Overhead Crane	Remote Control	-
Pesticide Dosing Pump	Dewatering	Mechanical	Primary Sludge Pesticide Dosing System	Dosing Pump	224 023
Pesticide Tank Stirrer	Dewatering	Mechanical	Primary Sludge Pesticide Dosing System	Mixer	20 899
Poly 1 Make-up Tank 1	Dewatering	Mechanical	Poly 1 Make-up Tank 1	Tank	293 539
Poly 1 Make-up Tank 1 Mixer	Dewatering	Mechanical	Poly 1 Make-up Tank 1 Mixer	Mixer	83 839
Poly 1 Make-up Tank 1 Mixer Motor	Dewatering	Electrical	Poly 1 Make-up Tank 1 Mixer	Motor	-
Poly 1 Make-up Tank 2	Dewatering	Mechanical	Poly 1 Make-up Tank 2	Tank	293 539
Poly 1 Make-up Tank 2 Mixer	Dewatering	Mechanical	Poly 1 Make-up Tank 2 Mixer	Mixer	83 839
Poly 1 Make-up Tank 2 Mixer Motor	Dewatering	Mechanical	Poly 1 Make-up Tank 2 Mixer	Motor	-
Poly 2 Make-up Tank 3	Dewatering	Mechanical	Poly 2 Make-up Tank 3	Tank	293 539
Poly 2 Make-up Tank 3 Mixer	Dewatering	Mechanical	Poly 2 Make-up Tank 3 Mixer	Mixer	83 839
Poly 2 Make-up Tank 3 Mixer Motor	Dewatering	Mechanical	Poly 2 Make-up Tank 3 Mixer	Motor	-
Poly 2 Make-up Tank 4	Dewatering	Mechanical	Poly 2 Make-up Tank 4	Tank	293 539
Poly 2 Make-up Tank 4 Mixer	Dewatering	Mechanical	Poly 2 Make-up Tank 4 Mixer	Mixer	83 839
Poly 2 Make-up Tank 4 Mixer Motor	Dewatering	Mechanical	Poly 2 Make-up Tank 4 Mixer	Motor	-
Poly Hopper 1	Dewatering	Mechanical	Poly Hopper 1	Hopper	117 074
Poly Hopper 2	Dewatering	Mechanical	Poly Hopper 2	Hopper	117 074
Poly Hopper 3	Dewatering	Mechanical	Poly Hopper 3	Hopper	117 074
Poly Hopper 4	Dewatering	Mechanical	Poly Hopper 4	Hopper	117 074
Dry poly "maxi-bag" lifting equipment	Dewatering	Mechanical	Poly Make Up	Lifting Equipment	478 508
Poly Powder Blower 1	Dewatering	Mechanical	Poly Powder Blower 1	Blower	82 559
Poly Powder Blower 1 Motor	Dewatering	Mechanical	Poly Powder Blower 1	Motor	-
Poly Powder Blower 2	Dewatering	Mechanical	Poly Powder Blower 2	Blower	82 559

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Poly Powder Blower 2 Motor	Dewatering	Mechanical	Poly Powder Blower 2	Motor	-
Poly Powder Blower 3	Dewatering	Mechanical	Poly Powder Blower 3	Blower	82 559
Poly Powder Blower 3 Motor	Dewatering	Mechanical	Poly Powder Blower 3	Motor	-
Poly Powder Blower 4	Dewatering	Mechanical	Poly Powder Blower 4	Blower	82 559
Poly Powder Blower 4 Motor	Dewatering	Mechanical	Poly Powder Blower 4	Motor	-
Poly Rotary Vane Feeder 1	Dewatering	Mechanical	Poly Rotary Vane Feeder 1	Vane Feeder	150 473
Poly Rotary Vane Feeder 1 Motor	Dewatering	Mechanical	Poly Rotary Vane Feeder 1	Motor	-
Poly Rotary Vane Feeder 2	Dewatering	Mechanical	Poly Rotary Vane Feeder 2	Vane Feeder	150 473
Poly Rotary Vane Feeder 2 Motor	Dewatering	Mechanical	Poly Rotary Vane Feeder 2	Motor	-
Poly Rotary Vane Feeder 3	Dewatering	Mechanical	Poly Rotary Vane Feeder 3	Vane Feeder	150 473
Poly Rotary Vane Feeder 3 Motor	Dewatering	Mechanical	Poly Rotary Vane Feeder 3	Motor	-
Poly Rotary Vane Feeder 4	Dewatering	Mechanical	Poly Rotary Vane Feeder 4	Vane Feeder	150 473
Poly Rotary Vane Feeder 4 Motor	Dewatering	Mechanical	Poly Rotary Vane Feeder 4	Motor	-
Primary Poly Stock Tank 1 Mixer	Dewatering	Mechanical	Primary Poly Stock Tank 1 Mixer	Mixer	232 405
Primary Sludge Belt Press 1	Dewatering	Mechanical	Primary Sludge Belt Press 1	Belt Press	8 915 460
Primary Sludge Belt Press 2	Dewatering	Mechanical	Primary Sludge Belt Press 2	Belt Press	8 915 460
Primary Sludge Belt Press 3	Dewatering	Mechanical	Primary Sludge Belt Press 3	Belt Press	8 915 460
Primary Sludge Belt Press 4	Dewatering	Mechanical	Primary Sludge Belt Press 4	Belt Press	8 915 460
Primary Sludge Belt Press Hydraulic Unit 1	Dewatering	Mechanical	Primary Sludge Belt Press 1	Hydraulic Unit	-
Primary Sludge Belt Press Hydraulic Unit 2	Dewatering	Mechanical	Primary Sludge Belt Press 2	Hydraulic Unit	-
Primary Sludge Belt Press Hydraulic Unit 3	Dewatering	Mechanical	Primary Sludge Belt Press 3	Hydraulic Unit	-
Primary Sludge Belt Press Hydraulic Unit 4	Dewatering	Mechanical	Primary Sludge Belt Press 4	Hydraulic Unit	-
Primary Sludge Cake Pump 1	Dewatering	Mechanical	Primary Sludge Cake Pump 1	Progressing Cavity Pump	2 413 579
Primary Sludge Cake Pump 1 Bridge Breaker 1	Dewatering	Electrical	Primary Sludge Cake Pump 1	Bridge Breaker	153 846
Primary Sludge Cake Pump 1 Bridge Breaker 2	Dewatering	Electrical	Primary Sludge Cake Pump 1	Bridge Breaker	153 846
Primary Sludge Cake Pump 1 Bursting Disc Indicator	Dewatering	Instrumentation	Primary Sludge Cake Pump 1	Rupture Disc	164 611
Primary Sludge Cake Pump 1 Gearbox	Dewatering	Mechanical	Primary Sludge Cake Pump 1	Gearbox	-
Primary Sludge Cake Pump 1 Motor	Dewatering	Electrical	Primary Sludge Cake Pump 1	Motor	-
Primary Sludge Cake Pump 2	Dewatering	Mechanical	Primary Sludge Cake Pump 2	Progressing Cavity Pump	2 413 579
Primary Sludge Cake Pump 2 Bridge Breaker 1	Dewatering	Electrical	Primary Sludge Cake Pump 2	Bridge Breaker	153 846
Primary Sludge Cake Pump 2 Bridge Breaker 2	Dewatering	Electrical	Primary Sludge Cake Pump 2	Bridge Breaker	153 846
Primary Sludge Cake Pump 2 Bursting Disc Indicator	Dewatering	Instrumentation	Primary Sludge Cake Pump 2	Rupture Disc	164 611

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Primary Sludge Cake Pump 2 Gearbox	Dewatering	Mechanical	Primary Sludge Cake Pump 2	Gearbox	-
Primary Sludge Cake Pump 2 Motor	Dewatering	Electrical	Primary Sludge Cake Pump 2	Motor	-
Primary Sludge Cake Pump 3	Dewatering	Mechanical	Primary Sludge Cake Pump 3	Progressing Cavity Pump	2 413 579
Primary Sludge Cake Pump 3 Bridge Breaker 1	Dewatering	Electrical	Primary Sludge Cake Pump 3	Bridge Breaker	153 846
Primary Sludge Cake Pump 3 Bridge Breaker 2	Dewatering	Electrical	Primary Sludge Cake Pump 3	Bridge Breaker	153 846
Primary Sludge Cake Pump 3 Bursting Disc Indicator	Dewatering	Instrumentation	Primary Sludge Cake Pump 3	Rupture Disc	164 611
Primary Sludge Cake Pump 3 Gearbox	Dewatering	Mechanical	Primary Sludge Cake Pump 3	Gearbox	-
Primary Sludge Cake Pump 3 Motor	Dewatering	Electrical	Primary Sludge Cake Pump 3	Motor	-
Primary Sludge Cake Silo Discharge Conveyor 1	Dewatering	Mechanical	Primary Sludge Cake Silo Discharge Conveyor 1	Live Bottom Conveyor	1 295 107
Primary Sludge Cake Silo Discharge Conveyor 1 Outlet Valve	Dewatering	Instrumentation	Primary Sludge Cake Silo Discharge Conveyor 1	Solenoid	17 620
Primary Sludge Cake Silo Discharge Conveyor 2	Dewatering	Mechanical	Primary Sludge Cake Silo Discharge Conveyor 2	Live Bottom Conveyor	1 295 107
Primary Sludge Cake Silo Discharge Conveyor 2 Outlet Valve	Dewatering	Instrumentation	Primary Sludge Cake Silo Discharge Conveyor 2	Solenoid	17 620
Primary Sludge Cake Silo Discharge Conveyor 3	Dewatering	Mechanical	Primary Sludge Cake Silo Discharge Conveyor 3	Live Bottom Conveyor	1 295 107
Primary Sludge Cake Silo Discharge Conveyor 3 Outlet Valve	Dewatering	Instrumentation	Primary Sludge Cake Silo Discharge Conveyor 3	Solenoid	17 620
Primary Sludge Cake Silo Discharge Conveyor 4	Dewatering	Mechanical	Primary Sludge Cake Silo Discharge Conveyor 3	Live Bottom Conveyor	1 295 107
Primary Sludge Cake Silo Discharge Conveyor 4 Outlet Valve	Dewatering	Instrumentation	Primary Sludge Cake Silo Discharge Conveyor 4	Solenoid	17 620
Primary Sludge Feed Pump 1	Dewatering	Mechanical	Primary Sludge Feed Pump 1	Pump	362 527
Primary Sludge Feed Pump 1 Gearbox	Dewatering	Mechanical	Primary Sludge Feed Pump 1	Gearbox	-
Primary Sludge Feed Pump 1 Motor	Dewatering	Electrical	Primary Sludge Feed Pump 1	Motor	-
Primary Sludge Feed Pump 1 Stator Temperature Controller	Dewatering	Mechanical	Primary Sludge Feed Pump 1	Temperature Controller	-
Primary Sludge Feed Pump 2	Dewatering	Mechanical	Primary Sludge Feed Pump 2	Pump	362 527
Primary Sludge Feed Pump 2 Gearbox	Dewatering	Mechanical	Primary Sludge Feed Pump 2	Gearbox	-
Primary Sludge Feed Pump 2 Motor	Dewatering	Electrical	Primary Sludge Feed Pump 2	Motor	-
Primary Sludge Feed Pump 2 Stator Temperature Controller	Dewatering	Mechanical	Primary Sludge Feed Pump 2	Temperature Controller	-

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Primary Sludge Feed Pump 3	Dewatering	Mechanical	Primary Sludge Feed Pump 3	Pump	362 527
Primary Sludge Feed Pump 3 Gearbox	Dewatering	Mechanical	Primary Sludge Feed Pump 3	Gearbox	-
Primary Sludge Feed Pump 3 Motor	Dewatering	Electrical	Primary Sludge Feed Pump 3	Motor	-
Primary Sludge Feed Pump 3 Stator Temperature Controller	Dewatering	Mechanical	Primary Sludge Feed Pump 3	Temperature Controller	-
Primary Sludge Feed Pump 4	Dewatering	Mechanical	Primary Sludge Feed Pump 4	Pump	362 527
Primary Sludge Feed Pump 4 Gearbox	Dewatering	Mechanical	Primary Sludge Feed Pump 4	Gearbox	-
Primary Sludge Feed Pump 4 Motor	Dewatering	Electrical	Primary Sludge Feed Pump 4	Motor	-
Primary Sludge Feed Pump 4 Stator Temperature Controller	Dewatering	Mechanical	Primary Sludge Feed Pump 4	Temperature Controller	-
Primary Sludge Filtrate Pump 1	Dewatering	Mechanical	Primary Sludge Filtrate Pump 1	Submersible Pump	392 106
Primary Sludge Filtrate Pump 1 Gearbox	Dewatering	Mechanical	Primary Sludge Filtrate Pump 1	Gearbox	-
Primary Sludge Filtrate Pump 1 Motor	Dewatering	Mechanical	Primary Sludge Filtrate Pump 1	Motor	-
Primary Sludge Filtrate Pump 2	Dewatering	Mechanical	Primary Sludge Filtrate Pump 2	Submersible Pump	392 106
Primary Sludge Filtrate Pump 2 Gearbox	Dewatering	Mechanical	Primary Sludge Filtrate Pump 2	Gearbox	-
Primary Sludge Filtrate Pump 2 Motor	Dewatering	Mechanical	Primary Sludge Filtrate Pump 2	Motor	-
Supply and deliver flange adaptors	Dewatering	Mechanical	Primary Sludge Filtrate Pump Station	Flange adaptors	24 684
Primary Sludge Holding Tank 1	Dewatering	Mechanical	Primary Sludge Holding Tank 1	Tank	-
Primary Sludge Holding Tank 2	Dewatering	Mechanical	Primary Sludge Holding Tank 2	Tank	-
Primary Sludge Pesticide Dosing System	Dewatering	Mechanical	Primary Sludge Pesticide Dosing System	Dosing System	1 266 318
Primary Sludge Poly Feed Pump 1	Dewatering	Mechanical	Primary Sludge Poly Feed Pump 1	Pump	124 395
Primary Sludge Poly Feed Pump 1 Inline Static Mixer	Dewatering	Mechanical	Primary Sludge Poly Feed Pump 1	Mixer	460 835
Primary Sludge Poly Feed Pump 2	Dewatering	Mechanical	Primary Sludge Poly Feed Pump 2	Pump	124 395
Primary Sludge Poly Feed Pump 2 Inline Static Mixer	Dewatering	Mechanical	Primary Sludge Poly Feed Pump 2	Mixer	460 835
Primary Sludge Poly Feed Pump 3	Dewatering	Mechanical	Primary Sludge Poly Feed Pump 3	Pump	124 395
Primary Sludge Poly Feed Pump 3 Inline Static Mixer	Dewatering	Mechanical	Primary Sludge Poly Feed Pump 3	Mixer	460 835
Primary Sludge Poly Feed Pump 4	Dewatering	Mechanical	Primary Sludge Poly Feed Pump 4	Pump	124 395
Primary Sludge Poly Feed Pump 4 Inline Static Mixer	Dewatering	Mechanical	Primary Sludge Poly Feed Pump 4	Mixer	460 835
Primary Sludge Poly Lube Feed Pump 1	Dewatering	Mechanical	Primary Sludge Poly Lube Feed Pump 1	Pump	160 106
Primary Sludge Poly Lube Feed Pump 1 Gearbox	Dewatering	Mechanical	Primary Sludge Poly Lube Feed Pump 1	Gearbox	-
Primary Sludge Poly Lube Feed Pump 1 Motor	Dewatering	Electrical	Primary Sludge Poly Lube Feed Pump 1	Motor	-
Primary Sludge Poly Lube Feed Pump 2	Dewatering	Mechanical	Primary Sludge Poly Lube Feed Pump 2	Pump	160 106
Primary Sludge Poly Lube Feed Pump 2 Gearbox	Dewatering	Mechanical	Primary Sludge Poly Lube Feed Pump 2	Gearbox	-
Primary Sludge Poly Lube Feed Pump 2 Motor	Dewatering	Electrical	Primary Sludge Poly Lube Feed Pump 2	Motor	-

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Primary Sludge Poly Lube Feed Pump 3	Dewatering	Mechanical	Primary Sludge Poly Lube Feed Pump 3	Pump	160 106
Primary Sludge Poly Lube Feed Pump 3 Gearbox	Dewatering	Mechanical	Primary Sludge Poly Lube Feed Pump 3	Gearbox	-
Primary Sludge Poly Lube Feed Pump 3 Motor	Dewatering	Electrical	Primary Sludge Poly Lube Feed Pump 3	Motor	-
Supply and deliver 3 x Netzsch Ring dosing nozzle, DN150, in CrNiMo17-12-2	Dewatering	Mechanical	Poly Lube Pumps	Ring dosing nozzle	59 231
Primary Sludge Recirculation Pump 1	Dewatering	Mechanical	Primary Sludge Recirculation Pump 1	Pump	461 519
Primary Sludge Recirculation Pump 1 Gearbox	Dewatering	Mechanical	Primary Sludge Recirculation Pump 1	Gearbox	-
Primary Sludge Recirculation Pump 1 Motor	Dewatering	Electrical	Primary Sludge Recirculation Pump 1	Motor	-
Primary Sludge Recirculation Pump 2	Dewatering	Mechanical	Primary Sludge Recirculation Pump 2	Pump	461 519
Primary Sludge Recirculation Pump 2 Gearbox	Dewatering	Mechanical	Primary Sludge Recirculation Pump 2	Gearbox	-
Primary Sludge Recirculation Pump 2 Motor	Dewatering	Electrical	Primary Sludge Recirculation Pump 2	Motor	-
Primary Sludge Screw Conveyor 1	Dewatering	Mechanical	Primary Sludge Screw Conveyor 1	Conveyor	2 390 105
Primary Sludge Screw Conveyor 1 Drive	Dewatering	Electrical	Primary sludge screw conveyor	Gearbox	0
Primary Sludge Screw Conveyor 2	Dewatering	Mechanical	Primary Sludge Screw Conveyor 2	Conveyor	2 390 105
Primary Sludge Screw Conveyor 2 Drive	Dewatering	Electrical	Primary sludge screw conveyor	Gearbox	-
Vibrator	Dewatering	Mechanical	Poly Hopper 1	Pneumatic Knocking Hammer Vibrator	-
Vibrator	Dewatering	Mechanical	Poly Hopper 2	Pneumatic Knocking Hammer Vibrator	-
Vibrator	Dewatering	Mechanical	Poly Hopper 3	Pneumatic Knocking Hammer Vibrator	-
Vibrator	Dewatering	Mechanical	Poly Hopper 4	Pneumatic Knocking Hammer Vibrator	-
WAS Belt Press 1	Dewatering	Mechanical	WAS Belt Press 1	Belt Press	12 230 417
WAS Belt Press 1 Gearbox	Dewatering	Mechanical	WAS Belt Press 1	Gearbox	-
WAS Belt Press 1 Hydraulic Unit	Dewatering	Mechanical	WAS Belt Press 1	Hydraulic Unit	-
WAS Belt Press 1 Hydraulic Unit Gearbox	Dewatering	Mechanical	WAS Belt Press 1	Gearbox	-
WAS Belt Press 1 Hydraulic Unit Motor	Dewatering	Electrical	WAS Belt Press 1	Motor	-
WAS Belt Press 1 Motor	Dewatering	Electrical	WAS Belt Press 1	Motor	-
WAS Belt Press 2	Dewatering	Mechanical	WAS Belt Press 2	Belt Press	12 230 417
WAS Belt Press 2 Gearbox	Dewatering	Mechanical	WAS Belt Press 2	Gearbox	-
WAS Belt Press 2 Hydraulic Unit	Dewatering	Mechanical	WAS Belt Press 2	Hydraulic Unit	-
WAS Belt Press 2 Hydraulic Unit Gearbox	Dewatering	Mechanical	WAS Belt Press 2	Gearbox	-
WAS Belt Press 2 Hydraulic Unit Motor	Dewatering	Electrical	WAS Belt Press 2	Motor	-

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WAS Belt Press 2 Motor	Dewatering	Electrical	WAS Belt Press 2	Motor	-
WAS Belt Press 3	Dewatering	Mechanical	WAS Belt Press 3	Belt Press	12 230 417
WAS Belt Press 3 Gearbox	Dewatering	Mechanical	WAS Belt Press 3	Gearbox	-
WAS Belt Press 3 Hydraulic Unit	Dewatering	Mechanical	WAS Belt Press 3	Hydraulic Unit	-
WAS Belt Press 3 Hydraulic Unit Gearbox	Dewatering	Mechanical	WAS Belt Press 3	Gearbox	-
WAS Belt Press 3 Hydraulic Unit Motor	Dewatering	Electrical	WAS Belt Press 3	Motor	-
WAS Belt Press 3 Motor	Dewatering	Electrical	WAS Belt Press 3	Motor	-
WAS Belt Press 4	Dewatering	Mechanical	WAS Belt Press 4	Belt Press	12 230 417
WAS Belt Press 4 Gearbox	Dewatering	Mechanical	WAS Belt Press 4	Gearbox	-
WAS Belt Press 4 Hydraulic Unit	Dewatering	Mechanical	WAS Belt Press 4	Hydraulic Unit	-
WAS Belt Press 4 Hydraulic Unit Gearbox	Dewatering	Mechanical	WAS Belt Press 4	Gearbox	-
WAS Belt Press 4 Hydraulic Unit Motor	Dewatering	Electrical	WAS Belt Press 4	Motor	-
WAS Belt Press 4 Motor	Dewatering	Electrical	WAS Belt Press 4	Motor	-
WAS Belt Press 5	Dewatering	Mechanical	WAS Belt Press 5	Belt Press	12 230 417
WAS Belt Press 5 Gearbox	Dewatering	Mechanical	WAS Belt Press 5	Gearbox	-
WAS Belt Press 5 Hydraulic Unit	Dewatering	Mechanical	WAS Belt Press 5	Hydraulic Unit	-
WAS Belt Press 5 Hydraulic Unit Gearbox	Dewatering	Mechanical	WAS Belt Press 5	Gearbox	-
WAS Belt Press 5 Hydraulic Unit Motor	Dewatering	Electrical	WAS Belt Press 5	Motor	-
WAS Belt Press 5 Motor	Dewatering	Electrical	WAS Belt Press 5	Motor	-
WAS Belt Press 6	Dewatering	Mechanical	WAS Belt Press 6	Belt Press	12 230 417
WAS Belt Press 6 Gearbox	Dewatering	Mechanical	WAS Belt Press 6	Gearbox	-
WAS Belt Press 6 Hydraulic Unit	Dewatering	Mechanical	WAS Belt Press 6	Hydraulic Unit	-
WAS Belt Press 6 Hydraulic Unit Gearbox	Dewatering	Mechanical	WAS Belt Press 6	Gearbox	-
WAS Belt Press 6 Hydraulic Unit Motor	Dewatering	Electrical	WAS Belt Press 6	Motor	-
WAS Belt Press 6 Motor	Dewatering	Electrical	WAS Belt Press 6	Motor	-
WAS Cake Pump 1	Dewatering	Mechanical	WAS Cake Pump 1	Pump	2 413 579
WAS Cake Pump 1 Bridge Breaker 1	Dewatering	Electrical	WAS Cake Pump 1	Bridge Breaker	153 846
WAS Cake Pump 1 Bridge Breaker 2	Dewatering	Electrical	WAS Cake Pump 1	Bridge Breaker	153 846
WAS Cake Pump 1 Bursting Disc Indicator	Dewatering	Instrumentation	WAS Cake Pump 1	Rupture Disc	148 150
WAS Cake Pump 1 Gearbox	Dewatering	Mechanical	WAS Cake Pump 1	Gearbox	-
WAS Cake Pump 1 Motor	Dewatering	Electrical	WAS Cake Pump 1	Motor	-
WAS Cake Pump 1 Stator Temperature Controller	Dewatering	Instrumentation	WAS Cake Pump 1	Temperature Controller	-
WAS Cake Pump 2	Dewatering	Mechanical	WAS Cake Pump 2	Pump	2 413 579

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WAS Cake Pump 2 Bridge Breaker 1	Dewatering	Electrical	WAS Cake Pump 2	Bridge Breaker	153 846
WAS Cake Pump 2 Bridge Breaker 2	Dewatering	Electrical	WAS Cake Pump 2	Bridge Breaker	153 846
WAS Cake Pump 2 Bursting Disc Indicator	Dewatering	Instrumentation	WAS Cake Pump 2	Rupture Disc	148 150
WAS Cake Pump 2 Gearbox	Dewatering	Mechanical	WAS Cake Pump 2	Gearbox	-
WAS Cake Pump 2 Motor	Dewatering	Electrical	WAS Cake Pump 2	Motor	-
WAS Cake Pump 3	Dewatering	Mechanical	WAS Cake Pump 3	Pump	2 413 579
WAS Cake Pump 3 Bridge Breaker 1	Dewatering	Mechanical	WAS Cake Pump 3	Bridge Breaker	153 846
WAS Cake Pump 3 Bridge Breaker 2	Dewatering	Mechanical	WAS Cake Pump 3	Bridge Breaker	153 846
WAS Cake Pump 3 Bursting Disc Indicator	Dewatering	Instrumentation	WAS Cake Pump 3	Rupture Disc	148 150
WAS Cake Pump 3 Gearbox	Dewatering	Mechanical	WAS Cake Pump 3	Gearbox	-
WAS Cake Pump 3 Motor	Dewatering	Electrical	WAS Cake Pump 3	Motor	-
WAS Cake Silo Discharge Conveyor 1	Dewatering	Mechanical	WAS Cake Silo Discharge Conveyor 1	Conveyor	1 295 107
WAS Cake Silo Discharge Conveyor 1 Drive	Dewatering	Electrical	WAS Cake Silo Discharge Conveyor 1	Gearbox	-
WAS Cake Silo Discharge Conveyor 1 Outlet Valve	Dewatering	Instrumentation	WAS Cake Discharge Conveyor 1	Solenoid	17 620
WAS Cake Silo Discharge Conveyor 2	Dewatering	Mechanical	WAS Cake Silo Discharge Conveyor 2	Conveyor	1 295 107
WAS Cake Silo Discharge Conveyor 2 Drive	Dewatering	Electrical	WAS Cake Silo Discharge Conveyor 2	Gearbox	-
WAS Cake Silo Discharge Conveyor 2 Outlet Valve	Dewatering	Instrumentation	WAS Cake Discharge Conveyor 2	Solenoid	17 620
WAS Cake Silo Discharge Conveyor 3	Dewatering	Mechanical	WAS Cake Silo Discharge Conveyor 3	Conveyor	1 295 107
WAS Cake Silo Discharge Conveyor 3 Drive	Dewatering	Electrical	WAS Cake Silo Discharge Conveyor 3	Gearbox	-
WAS Cake Silo Discharge Conveyor 3 Outlet Valve	Dewatering	Instrumentation	WAS Cake Discharge Conveyor 3	Solenoid	17 620
WAS Cake Silo Discharge Conveyor 4	Dewatering	Mechanical	WAS Cake Silo Discharge Conveyor 4	Conveyor	1 295 107
WAS Cake Silo Discharge Conveyor 4 Outlet Valve	Dewatering	Mechanical	WAS Cake Discharge Conveyor 4	Solenoid	17 620
WAS Feed Pump 1	Dewatering	Mechanical	WAS Feed Pump 1	Pump	533 517
WAS Feed Pump 1 Gearbox	Dewatering	Mechanical	WAS Feed Pump 1	Gearbox	-
WAS Feed Pump 1 Motor	Dewatering	Electrical	WAS Feed Pump 1	Motor	-
WAS Feed Pump 2	Dewatering	Mechanical	WAS Feed Pump 2	Pump	533 517
WAS Feed Pump 2 Gearbox	Dewatering	Mechanical	WAS Feed Pump 2	Gearbox	-
WAS Feed Pump 2 Motor	Dewatering	Electrical	WAS Feed Pump 2	Motor	-
WAS Feed Pump 3	Dewatering	Mechanical	WAS Feed Pump 3	Pump	533 517
WAS Feed Pump 3 Gearbox	Dewatering	Mechanical	WAS Feed Pump 3	Gearbox	-
WAS Feed Pump 3 Motor	Dewatering	Electrical	WAS Feed Pump 3	Motor	-
WAS Feed Pump 4	Dewatering	Mechanical	WAS Feed Pump 4	Pump	533 517
WAS Feed Pump 4 Gearbox	Dewatering	Mechanical	WAS Feed Pump 4	Gearbox	-
WAS Feed Pump 4 Motor	Dewatering	Electrical	WAS Feed Pump 4	Motor	-

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WAS Feed Pump 5	Dewatering	Mechanical	WAS Feed Pump 5	Pump	533 517
WAS Feed Pump 5 Gearbox	Dewatering	Mechanical	WAS Feed Pump 5	Gearbox	-
WAS Feed Pump 5 Motor	Dewatering	Electrical	WAS Feed Pump 5	Motor	-
WAS Feed Pump 6	Dewatering	Mechanical	WAS Feed Pump 6	Pump	533 517
WAS Feed Pump 6 Gearbox	Dewatering	Mechanical	WAS Feed Pump 6	Gearbox	-
WAS Feed Pump 6 Motor	Dewatering	Electrical	WAS Feed Pump 6	Motor	-
WAS Filtrate Pump 1	Dewatering	Mechanical	WAS Filtrate Pump 1	Pump	429 776
WAS Filtrate Pump 1 Gearbox	Dewatering	Mechanical	WAS Filtrate Pump 1	Gearbox	-
WAS Filtrate Pump 1 Motor	Dewatering	Electrical	WAS Filtrate Pump 1	Motor	-
WAS Filtrate Pump 2	Dewatering	Mechanical	WAS Filtrate Pump 2	Pump	429 776
WAS Filtrate Pump 2 Gearbox	Dewatering	Mechanical	WAS Filtrate Pump 2	Gearbox	-
WAS Filtrate Pump 2 Motor	Dewatering	Electrical	WAS Filtrate Pump 2	Motor	-
WAS Filtrate Pump 3	Dewatering	Mechanical	WAS Filtrate Pump 3	Pump	429 776
WAS Filtrate Pump 3 Gearbox	Dewatering	Mechanical	WAS Filtrate Pump 3	Gearbox	-
WAS Filtrate Pump 3 Motor	Dewatering	Electrical	WAS Filtrate Pump 3	Motor	-
WAS Holding Tank 01	Dewatering	Mechanical	WAS Holding Tank 1	Tank	-
WAS Holding Tank 02	Dewatering	Mechanical	WAS Holding Tank 2	Tank	-
WAS Holding Tank 1 Aerator 1	Dewatering	Mechanical	WAS Holding Tank 1 Aerator 1	Floating Aerator	1 049 302
WAS Holding Tank 1 Aerator 1 Gearbox	Dewatering	Mechanical	WAS Holding Tank 1	Gearbox	-
WAS Holding Tank 1 Aerator 1 Motor	Dewatering	Electrical	WAS Holding Tank 1	Motor	-
WAS Holding Tank 1 Aerator 2	Dewatering	Mechanical	WAS Holding Tank 1 Aerator 2	Floating Aerator	1 049 302
WAS Holding Tank 1 Aerator 2 Gearbox	Dewatering	Mechanical	WAS Holding Tank 1	Gearbox	-
WAS Holding Tank 1 Aerator 2 Motor	Dewatering	Electrical	WAS Holding Tank 1	Motor	-
WAS Holding Tank 1 Aerator 3	Dewatering	Mechanical	WAS Holding Tank 1 Aerator 3	Floating Aerator	1 049 302
WAS Holding Tank 1 Aerator 3 Gearbox	Dewatering	Mechanical	WAS Holding Tank 1	Gearbox	-
WAS Holding Tank 1 Aerator 3 Motor	Dewatering	Electrical	WAS Holding Tank 1	Motor	-
WAS Holding Tank 2 Aerator 1	Dewatering	Mechanical	WAS Holding Tank 2 Aerator 4	Floating Aerator	1 049 302
WAS Holding Tank 2 Aerator 1 Gearbox	Dewatering	Mechanical	WAS Holding Tank 2	Gearbox	-
WAS Holding Tank 2 Aerator 1 Motor	Dewatering	Electrical	WAS Holding Tank 2	Motor	-
WAS Holding Tank 2 Aerator 2	Dewatering	Mechanical	WAS Holding Tank 2 Aerator 5	Floating Aerator	1 049 302
WAS Holding Tank 2 Aerator 2 Gearbox	Dewatering	Mechanical	WAS Holding Tank 2	Gearbox	-
WAS Holding Tank 2 Aerator 2 Motor	Dewatering	Electrical	WAS Holding Tank 2	Motor	-
WAS Holding Tank 2 Aerator 3	Dewatering	Mechanical	WAS Holding Tank 2 Aerator 6	Floating Aerator	1 049 302
WAS Holding Tank 2 Aerator 3 Gearbox	Dewatering	Mechanical	WAS Holding Tank 2	Gearbox	-

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WAS Holding Tank 2 Aerator 3 Motor	Dewatering	Electrical	WAS Holding Tank 2	Motor	-
WAS Linear Screen 1	Dewatering	Mechanical	WAS Belt Press 1	Gravity Belt Thickener	3 426 021
WAS Linear Screen 1 Gearbox	Dewatering	Mechanical	WAS Belt Press 1	Gearbox	-
WAS Linear Screen 1 Motor	Dewatering	Electrical	WAS Belt Press 1	Motor	-
WAS Linear Screen 2	Dewatering	Mechanical	WAS Belt Press 2	Gravity Belt Thickener	3 426 021
WAS Linear Screen 2 Gearbox	Dewatering	Mechanical	WAS Belt Press 2	Gearbox	-
WAS Linear Screen 2 Motor	Dewatering	Electrical	WAS Belt Press 2	Motor	-
WAS Linear Screen 3	Dewatering	Mechanical	WAS Belt Press 3	Gravity Belt Thickener	3 426 021
WAS Linear Screen 3 Gearbox	Dewatering	Mechanical	WAS Belt Press 3	Gearbox	-
WAS Linear Screen 3 Motor	Dewatering	Electrical	WAS Belt Press 3	Motor	-
WAS Linear Screen 4	Dewatering	Mechanical	WAS Belt Press 4	Linear Screen	3 426 021
WAS Linear Screen 4 Gearbox	Dewatering	Mechanical	WAS Belt Press 4	Gearbox	-
WAS Linear Screen 4 Motor	Dewatering	Electrical	WAS Belt Press 4	Motor	-
WAS Linear Screen 5	Dewatering	Instrumentation	WAS Belt Press 5	Linear Screen	3 426 021
WAS Linear Screen 5 Gearbox	Dewatering	Mechanical	WAS Belt Press 5	Gearbox	-
WAS Linear Screen 5 Motor	Dewatering	Electrical	WAS Belt Press 5	Motor	-
WAS Linear Screen 6	Dewatering	Mechanical	WAS Belt Press 6	Gravity Belt Thickener	3 426 021
WAS Linear Screen 6 Gearbox	Dewatering	Mechanical	WAS Belt Press 6	Gearbox	-
WAS Linear Screen 6 Motor	Dewatering	Electrical	WAS Belt Press 6	Motor	-
WAS Poly Feed Pump 1	Dewatering	Mechanical	WAS Poly Feed Pump 1	Pump	124 395
WAS Poly Feed Pump 1 Gearbox	Dewatering	Mechanical	WAS Poly Feed Pump 1	Gearbox	-
WAS Poly Feed Pump 1 Inline Static Mixer	Dewatering	Mechanical	WAS Poly Feed Pump 1	Mixer	460 835
WAS Poly Feed Pump 1 Motor	Dewatering	Electrical	WAS Poly Feed Pump 1	Motor	-
WAS Poly Feed Pump 2	Dewatering	Mechanical	WAS Poly Feed Pump 2	Pump	124 395
WAS Poly Feed Pump 2 Gearbox	Dewatering	Mechanical	WAS Poly Feed Pump 2	Gearbox	-
WAS Poly Feed Pump 2 Inline Static Mixer	Dewatering	Mechanical	WAS Poly Feed Pump 2	Mixer	460 835
WAS Poly Feed Pump 2 Motor	Dewatering	Electrical	WAS Poly Feed Pump 2	Motor	-
WAS Poly Feed Pump 3	Dewatering	Mechanical	WAS Poly Feed Pump 3	Pump	124 395
WAS Poly Feed Pump 3 Gearbox	Dewatering	Mechanical	WAS Poly Feed Pump 3	Gearbox	-
WAS Poly Feed Pump 3 Inline Static Mixer	Dewatering	Mechanical	WAS Poly Feed Pump 3	Mixer	460 835
WAS Poly Feed Pump 3 Motor	Dewatering	Electrical	WAS Poly Feed Pump 3	Motor	-
WAS Poly Feed Pump 4	Dewatering	Mechanical	WAS Poly Feed Pump 4	Pump	124 395
WAS Poly Feed Pump 4 Gearbox	Dewatering	Mechanical	WAS Poly Feed Pump 4	Gearbox	-
WAS Poly Feed Pump 4 Inline Static Mixer	Dewatering	Mechanical	WAS Poly Feed Pump 4	Mixer	460 835

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WAS Poly Feed Pump 4 Motor	Dewatering	Electrical	WAS Poly Feed Pump 4	Motor	-
WAS Poly Feed Pump 5	Dewatering	Mechanical	WAS Poly Feed Pump 5	Pump	124 395
WAS Poly Feed Pump 5 Gearbox	Dewatering	Mechanical	WAS Poly Feed Pump 5	Gearbox	-
WAS Poly Feed Pump 5 Inline Static Mixer	Dewatering	Mechanical	WAS Poly Feed Pump 5	Mixer	460 835
WAS Poly Feed Pump 5 Motor	Dewatering	Electrical	WAS Poly Feed Pump 5	Motor	-
WAS Poly Feed Pump 6	Dewatering	Mechanical	WAS Poly Feed Pump 6	Pump	124 395
WAS Poly Feed Pump 6 Gearbox	Dewatering	Mechanical	WAS Poly Feed Pump 6	Gearbox	-
WAS Poly Feed Pump 6 Inline Static Mixer	Dewatering	Mechanical	WAS Poly Feed Pump 6	Mixer	460 835
WAS Poly Feed Pump 6 Motor	Dewatering	Electrical	WAS Poly Feed Pump 6	Motor	-
WAS Poly Stock Tank 2 Mixer	Dewatering	Mechanical	WAS Poly Stock Tank 2 Mixer	Mixer	69 860
WAS Screw Conveyor 1	Dewatering	Mechanical	WAS Screw Conveyor 1	Conveyor	2 470 893
WAS Screw Conveyor 1 Drive	Dewatering	Mechanical	WAS Screw Conveyor 1	Gearbox	-
WAS Screw Conveyor 2	Dewatering	Mechanical	WAS Screw Conveyor 2	Conveyor	2 470 893
WAS Screw Conveyor 2 Drive	Dewatering	Mechanical	WAS Screw Conveyor 2	Gearbox	-
Upper Screw Pump 1 Inlet Sluice Gate Valve (Future)	Upper Screw Pump Station	Mechanical	Upper Screw Pump 1	Sluice Gate	436 128
Upper Screw Pump 2	Upper Screw Pump Station	Mechanical	Upper Screw Pump 2	Screw Pump	6 047 965
Upper Screw Pump 2 Blue Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 2	Temperature Controller	-
Upper Screw Pump 2 Gear Box Temperature & Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 2	Temperature Controller	-
Upper Screw Pump 2 Gearbox	Upper Screw Pump Station	Mechanical	Upper Screw Pump 2	Gearbox	-
Upper Screw Pump 2 Gearbox	Upper Screw Pump Station	Mechanical	Upper Screw Pump 2	Gearbox	-
Upper Screw Pump 2 Grease Pump	Upper Screw Pump Station	Mechanical	Upper Screw Pump 2	Grease Pump	-
Upper Screw Pump 2 Grease Pump	Upper Screw Pump Station	Mechanical	Upper Screw Pump 2	Grease Pump	-
Upper Screw Pump 2 Inlet Sluice Gate Valve	Upper Screw Pump Station	Mechanical	Upper Screw Pump 2	Sluice Gate	436 128
Upper Screw Pump 2 Motor	Upper Screw Pump Station	Electrical	Upper Screw Pump 2	Motor	-

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Upper Screw Pump 2 Red Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 2	Temperature Controller	-
Upper Screw Pump 2 White Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 2	Temperature Controller	-
Upper Screw Pump 3	Upper Screw Pump Station	Mechanical	Upper Screw Pump 3	Screw Pump	6 047 965
Upper Screw Pump 3 Blue Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 3	Temperature Controller	-
Upper Screw Pump 3 Gear Box Temperature & Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 3	Temperature Controller	-
Upper Screw Pump 3 Inlet Sluice Gate Valve	Upper Screw Pump Station	Mechanical	Upper Screw Pump 3	Sluice Gate	436 128
Upper Screw Pump 3 Motor	Upper Screw Pump Station	Electrical	Upper Screw Pump 3	Motor	-
Upper Screw Pump 3 Red Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 3	Temperature Controller	-
Upper Screw Pump 3 White Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 3	Temperature Controller	-
Upper Screw Pump 4	Upper Screw Pump Station	Mechanical	Upper Screw Pump 4	Screw Pump	6 047 965
Upper Screw Pump 4 Blue Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 4	Temperature Controller	-
Upper Screw Pump 4 Gear Box Temperature & Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 4	Temperature Controller	-
Upper Screw Pump 4 Gearbox	Upper Screw Pump Station	Mechanical	Upper Screw Pump 4	Gearbox	-
Upper Screw Pump 4 Grease Pump	Upper Screw Pump Station	Mechanical	Upper Screw Pump 4	Grease Pump	-
Upper Screw Pump 4 Inlet Sluice Gate Valve	Upper Screw Pump Station	Mechanical	Upper Screw Pump 4	Sluice Gate	436 128
Upper Screw Pump 4 Motor	Upper Screw Pump Station	Electrical	Upper Screw Pump 4	Motor	-
Upper Screw Pump 4 Red Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 4	Temperature Controller	-

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Upper Screw Pump 4 White Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 4	Temperature Controller	-
Upper Screw Pump 5	Upper Screw Pump Station	Mechanical	Upper Screw Pump 5	Screw Pump	6 047 965
Upper Screw Pump 5 Blue Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 5	Temperature Controller	-
Upper Screw Pump 5 Gear Box Temperature & Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 5	Temperature Controller	-
Upper Screw Pump 5 Gearbox	Upper Screw Pump Station	Mechanical	Upper Screw Pump 5	Gearbox	-
Upper Screw Pump 5 Grease Pump	Upper Screw Pump Station	Mechanical	Upper Screw Pump 5	Grease Pump	-
Upper Screw Pump 5 Inlet Sluice Gate Valve	Upper Screw Pump Station	Mechanical	Upper Screw Pump 5	Sluice Gate	436 128
Upper Screw Pump 5 Motor	Upper Screw Pump Station	Electrical	Upper Screw Pump 5	Motor	-
Upper Screw Pump 5 Red Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 5	Temperature Controller	-
Upper Screw Pump 5 White Winding Temperature Controller	Upper Screw Pump Station	Instrumentation	Upper Screw Pump 5	Temperature Controller	-
Upper Screw Pump Station Manual Crane	Upper Screw Pump Station	Mechanical	Upper Screw Pump Station Manual Crane	Lifting Equipment	345 345
Upper Screw Pump Station Manual Crane Chain Block	Upper Screw Pump Station	Mechanical	Upper Screw Pump Station Manual Crane	Chain Block	-
Upper Screw Pump Station Manual Crane Drive	Upper Screw Pump Station	Electrical	Upper Screw Pump Station Manual Crane	Crane	-
Upper Screw Pump Station Manual Crane Lifting Beam	Upper Screw Pump Station	Mechanical	Upper Screw Pump Station Manual Crane	Lifting Beam	-
Odour Control Unit Upper Screw Pump Station	Upper Screw Pump Station	Mechanical	Odour Control System	Odour Control System	5 444 001
Sodium Hydroxide Storage Tank 2	Chemical Dosing	Mechanical	Sodium Hydroxide Storage Tank 2	Tank	896 274
Sodium Hydroxide Storage Tank 1	Chemical Dosing	Mechanical	Sodium Hydroxide Storage Tank 1	Tank	896 274

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Ferric Sulphate Storage Tank 2	Chemical Dosing	Mechanical	Ferric Sulphate Storage Tank 2	Tank	896 274
Ferric Sulphate Storage Tank 1	Chemical Dosing	Mechanical	Ferric Sulphate Storage Tank 1	Tank	896 274
Sodium Hydroxide Dosing Pump 8 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 8	Motor	-
Sodium Hydroxide Dosing Pump 8	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 8	Dosing Pump	86 510
Sodium Hydroxide Dosing Pump 7 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 7	Motor	-
Sodium Hydroxide Dosing Pump 7	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 7	Dosing Pump	86 510
Ferric Sulphate Dosing Pump 8 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 8	Motor	-
Ferric Sulphate Dosing Pump 8	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 8	Dosing Pump	86 510
Ferric Sulphate Dosing Pump 7 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 7	Motor	-
Ferric Sulphate Dosing Pump 7	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 7	Dosing Pump	86 510
Sodium Hydroxide Dosing Pump 10 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 1	Motor	-
Sodium Hydroxide Dosing Pump 10	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 1	Dosing Pump	86 510
Sodium Hydroxide Dosing Pump 9 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 9	Motor	-
Sodium Hydroxide Dosing Pump 9	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 9	Dosing Pump	86 510
Ferric Sulphate Dosing Pump 10 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 1	Motor	-
Ferric Sulphate Dosing Pump 10	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 1	Dosing Pump	86 510
Ferric Sulphate Dosing Pump 9 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 9	Motor	-
Ferric Sulphate Dosing Pump 9	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 9	Dosing Pump	86 510
Sodium Hydroxide Dosing Pump 2 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 2	Motor	-

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Sodium Hydroxide Dosing Pump 2	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 2	Dosing Pump	86 510
Sodium Hydroxide Dosing Pump 1 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 1	Motor	-
Sodium Hydroxide Dosing Pump 1	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 1	Dosing Pump	86 510
Ferric Sulphate Dosing Pump 2 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 2	Motor	-
Ferric Sulphate Dosing Pump 2	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 2	Dosing Pump	105 815
Ferric Sulphate Dosing Pump 1 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 1	Motor	-
Ferric Sulphate Dosing Pump 1	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 1	Dosing Pump	105 815
Sodium Hydroxide Dosing Pump 4 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 4	Motor	-
Sodium Hydroxide Dosing Pump 4	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 4	Dosing Pump	105 815
Sodium Hydroxide Dosing Pump 3 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 3	Motor	-
Sodium Hydroxide Dosing Pump 3	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 3	Dosing Pump	105 815
Ferric Sulphate Dosing Pump 4 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 4	Motor	-
Ferric Sulphate Dosing Pump 4	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 4	Dosing Pump	105 815
Ferric Sulphate Dosing Pump 3 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 3	Motor	-
Ferric Sulphate Dosing Pump 3	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 3	Dosing Pump	105 815
Sodium Hydroxide Dosing Pump 6 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 6	Motor	-
Sodium Hydroxide Dosing Pump 6	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 6	Dosing Pump	105 815
Sodium Hydroxide Dosing Pump 5 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 5	Motor	-
Sodium Hydroxide Dosing Pump 5	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing Pump 5	Dosing Pump	105 815

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Ferric Sulphate Dosing Pump 6 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 6	Motor	-
Ferric Sulphate Dosing Pump 6	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 6	Dosing Pump	105 815
Ferric Sulphate Dosing Pump 5 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 5	Motor	-
Ferric Sulphate Dosing Pump 5	Chemical Dosing	Mechanical	Ferric Sulphate Dosing Pump 5	Dosing Pump	105 815
Ferric Sulphate Transfer Pump Motor	Chemical Dosing	Mechanical	Ferric Sulphate Transfer Pump	Motor	-
Ferric Sulphate Transfer Pump	Chemical Dosing	Mechanical	Ferric Sulphate Transfer Pump	Pump	300 121
Sodium Hydroxide Transfer Pump Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Transfer Pump	Motor	-
Sodium Hydroxide Transfer Pump Gearbox	Chemical Dosing	Mechanical	Sodium Hydroxide Transfer Pump	Gearbox	-
Sodium Hydroxide Transfer Pump	Chemical Dosing	Mechanical	Sodium Hydroxide Transfer Pump	Pump	211 205
Sodium Hydroxide Mixer 2 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Mixer 2	Motor	-
Sodium Hydroxide Mixer 2	Chemical Dosing	Mechanical	Sodium Hydroxide Storage Tank 2	Mixer	73 321
Sodium Hydroxide Mixer 1 Motor	Chemical Dosing	Mechanical	Sodium Hydroxide Mixer 1	Motor	-
Sodium Hydroxide Mixer 1	Chemical Dosing	Mechanical	Sodium Hydroxide Storage Tank 1	Mixer	73 321
Ferric Sulphate Mixer 2 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Mixer 2	Motor	-
Ferric Sulphate Mixer 2	Chemical Dosing	Mechanical	Ferric Sulphate Storage Tank 2	Mixer	66 180
Ferric Sulphate Mixer 1 Motor	Chemical Dosing	Mechanical	Ferric Sulphate Mixer 1	Motor	-
Ferric Sulphate Mixer 1	Chemical Dosing	Mechanical	Ferric Sulphate Storage Tank 1	Mixer	66 180
Chemical Dosing Room Fan Motor	Chemical Dosing	Mechanical	Chemical Dosing Room Fan	Motor	-
CAS A&B Sodium Hydroxide Filter 2	Chemical Dosing	Mechanical	Sodium Hydroxide Storage Tank 2	Filter	-

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CAS A&B Sodium Hydroxide Filter 1	Chemical Dosing	Mechanical	Sodium Hydroxide Storage Tank 1	Filter	-
MBR A&B Sodium Hydroxide Filter 2	Chemical Dosing	Mechanical	Sodium Hydroxide Storage Tank 2	Filter	-
MBR A&B Sodium Hydroxide Filter 1	Chemical Dosing	Mechanical	Sodium Hydroxide Storage Tank 1	Filter	-
Chemical Dosing Room Fan Louvre Filter	Chemical Dosing	Mechanical	Chemical Dosing Room Fan	Louvre	-
CAS A&B Ferric Sulphate Filter 2	Chemical Dosing	Mechanical	Ferric Sulphate Storage Tank 2	Filter	-
CAS A&B Ferric Sulphate Filter 1	Chemical Dosing	Mechanical	Ferric Sulphate Storage Tank 1	Filter	-
MBR A&B Ferric Sulphate Filter 2	Chemical Dosing	Mechanical	Ferric Sulphate Storage Tank 2	Filter	-
MBR A&B Ferric Sulphate Filter 1	Chemical Dosing	Mechanical	Ferric Sulphate Storage Tank 1	Filter	-
MBR B Sodium Hydroxide Dosing Pulsation Damper	Chemical Dosing	Mechanical	MBR B Sodium Hypochlorite Dosing Line	Pulsation Damper	16 011
MBR B Sodium Hydroxide Dosing Pulsation Damper	Chemical Dosing	Mechanical	MBR B Sodium Hypochlorite Dosing Line	Pulsation Damper	16 011
MBR B Ferric Sulphate Dosing Pulsation Damper	Chemical Dosing	Mechanical	MBR B Ferric Sulphate Dosing Line	Pulsation Damper	17 191
MBR A Sodium Hydroxide Dosing Pulsation Damper	Chemical Dosing	Mechanical	MBR A Sodium Hypochlorite Dosing Line	Pulsation Damper	16 011
MBR A Sodium Hydroxide Dosing Pulsation Damper	Chemical Dosing	Mechanical	MBR A Sodium Hypochlorite Dosing Line	Pulsation Damper	16 011
MBR A Ferric Sulphate Dosing Pulsation Damper	Chemical Dosing	Mechanical	MBR A Ferric Sulphate Dosing Line	Pulsation Damper	17 191
CAS B Sodium Hydroxide Dosing Pulsation Damper	Chemical Dosing	Mechanical	CAS B Sodium Hypochlorite Dosing Line	Pulsation Damper	16 011
CAS B Sodium Hydroxide Dosing Pulsation Damper	Chemical Dosing	Mechanical	CAS B Sodium Hypochlorite Dosing Line	Pulsation Damper	16 011
CAS B Ferric Sulphate Dosing Pulsation Damper	Chemical Dosing	Mechanical	CAS B Ferric Sulphate Dosing Line	Pulsation Damper	17 191
CAS A Sodium Hydroxide Dosing Pulsation Damper	Chemical Dosing	Mechanical	CAS A Sodium Hypochlorite Dosing Line	Pulsation Damper	16 011
CAS A Sodium Hydroxide Dosing Pulsation Damper	Chemical Dosing	Mechanical	CAS A Sodium Hypochlorite Dosing Line	Pulsation Damper	16 011

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CAS A Ferric Sulphate Dosing Pulsation Damper	Chemical Dosing	Mechanical	CAS A Ferric Sulphate Dosing Line	Pulsation Damper	17 191
Upper Screw Pump Station Sodium Hydroxide Dosing Pulsation Damper	Chemical Dosing	Mechanical	USPS Sodium Hypochlorite Dosing Line	Pulsation Damper	16 011
Upper Screw Pump Station Sodium Hydroxide Dosing Pulsation Damper	Chemical Dosing	Mechanical	USPS Sodium Hypochlorite Dosing Line	Pulsation Damper	16 011
Upper Screw Pump Station Ferric Sulphate Dosing Pulsation Damper	Chemical Dosing	Mechanical	USPS Ferric Sulphate Dosing Line	Pulsation Damper	17 191
Dosing Skid 9 Sodium Hydroxide Calibration Tube	Chemical Dosing	Mechanical	Dosing Skid 9 Sodium Hydroxide	Calibration Tube	-
Dosing Skid 4 Ferric Sulphate Calibration Tube	Chemical Dosing	Mechanical	Dosing Skid 4 Ferric Sulphate	Calibration Tube	-
Dosing Skid 10 Sodium Hydroxide Calibration Tube	Chemical Dosing	Mechanical	Dosing Skid 10 Sodium Hydroxide	Calibration Tube	-
Dosing Skid 5 Ferric Sulphate Calibration Tube	Chemical Dosing	Mechanical	Dosing Skid 5 Ferric Sulphate	Calibration Tube	-
Dosing Skid 6 Sodium Hydroxide Calibration Tube	Chemical Dosing	Mechanical	Dosing Skid 6 Sodium Hydroxide	Calibration Tube	-
Dosing Skid 1 Ferric Sulphate Calibration Tube	Chemical Dosing	Mechanical	Dosing Skid 1 Ferric Sulphate	Calibration Tube	-
Dosing Skid 7 Sodium Hydroxide Calibration Tube	Chemical Dosing	Mechanical	Dosing Skid 7 Sodium Hydroxide	Calibration Tube	-
Dosing Skid 2 Ferric Sulphate Calibration Tube	Chemical Dosing	Mechanical	Dosing Skid 2 Ferric Sulphate	Calibration Tube	-
Dosing Skid 8 Sodium Hydroxide Calibration Tube	Chemical Dosing	Mechanical	Dosing Skid 8 Sodium Hydroxide	Calibration Tube	-
Dosing Skid 3 Ferric Sulphate Calibration Tube	Chemical Dosing	Mechanical	Dosing Skid 3 Ferric Sulphate	Calibration Tube	-
MBR B Sodium Hydroxide Dilution Static Mixer	Chemical Dosing	Mechanical	MBR B Sodium Hypochlorite Dosing Line	Mixer	12 584
MBR A Sodium Hydroxide Dilution Static Mixer	Chemical Dosing	Mechanical	MBR A Sodium Hypochlorite Dosing Line	Mixer	12 584
CAS B Sodium Hydroxide Dilution Static Mixer	Chemical Dosing	Mechanical	CAS B Sodium Hypochlorite Dosing Line	Mixer	12 584
CAS A Sodium Hydroxide Dilution Static Mixer	Chemical Dosing	Mechanical	Sodium Hydroxide Dosing System	Mixer	12 584
Upper Screw Pump Station Sodium Hydroxide Dilution Static Mixer	Chemical Dosing	Mechanical	USPS Sodium Hypochlorite Dosing Line	Mixer	12 584

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Ferric Sulphate Transfer System	Chemical Dosing	Mechanical	Ferric Sulphate Dosing System	Dosing System	803 324
Sodium Hydroxide Transfer System	Chemical Dosing	Mechanical	Sodium Hydroxide Transfer System	Dosing System	803 324
Dosing system (bundled skids and cabinet etc) as specified Sodium Hydroxide	Chemical Dosing	Mechanical	Sodium Hydroxide Chemical Dosing	Dosing Skids (Sodium Hydroxide)	817 920
Pressurised storage tanks	Chemical Dosing	Mechanical	Sodium Hydroxide Chemical Dosing	Tanks	1 825 119
Filling station booster pump (inclusive of bundled skids and cabinet etc)	Chemical Dosing	Mechanical	Sodium Hydroxide Chemical Dosing	Pump	134 230
FRP banded grating and frame support	Chemical Dosing	Mechanical	Sodium Hydroxide Chemical Dosing	FRP Grating	225 899
Dosing system (bundled skids and cabinet etc) as specified Ferric Sulphate	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	Dosing Skids (Ferric Sulphate)	817 920
Pressurised storage tanks Ferric Sulphate	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	Tanks	1 581 425
Filling station booster pump (inclusive of bundled skids and cabinet etc) Ferric Sulphate	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	Pump	134 230
FRP banded grating and frame support Ferric Sulphate	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	FRP Grating	225 899
Skid frame	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	Dosing Skid	54 777
Increase - Add two new skids complete with 2 pumps each: Fe ₂ (SO ₄) ₃ & NaOH CAS A & B Feed	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	Chemical Dosing	397 555
Pump	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	Pump	140 634
Pulsation damper	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	Pulsation damper	54 501
Calibration vessel	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	Calibration vessel	8 844
Strainers	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	Strainers	9 954
Skid frame	Chemical Dosing	Mechanical	Ferric Sulphate Chemical Dosing	Skid frame	80 905
Section B - Supply and install site wide chemical dosing lines and in line mixers for chemical dosing	Chemical Dosing	Mechanical	Chemical Dosing	Chemical Diffuser	406 865

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SS Static Mixer (25mm, 450mm long) Chemical Dosing	Chemical Dosing	Mechanical	Chemical Dosing	Mixer	27 854
Tesys-T	Chemical Dosing	Electrical	Sodium Hydroxide Tank 1 Mixer	Voltage Monitor	-
Tesys-T	Chemical Dosing	Electrical	Sodium Hydroxide Tank 2 Mixer	Voltage Monitor	-
Tesys-T	Chemical Dosing	Electrical	Chemical Dosing Room fan 2	Voltage Monitor	-
CPU	Chemical Dosing	PLC	MCC N1.1.2 (Sodium Hydroxide)	CPU PLC	-
Tesys-T	Chemical Dosing	Electrical	Ferric Sulphate Tank 1 Mixer	Voltage Monitor	-
Tesys-T	Chemical Dosing	Electrical	Ferric Sulphate Tank 2 Mixer	Voltage Monitor	-
Tesys-T	Chemical Dosing	Electrical	Chemical Dosing Room fan 2	Voltage Monitor	-
CPU	Chemical Dosing	PLC	MCC N1.1.1 (Ferric Sulphate)	CPU PLC	-
High Pressure Room Chlorine Dosing Equipment:	Chlorine Building	Mechanical	High Pressure Room Chlorine Dosing Equipment:	High Pressure Room Chlorine Dosing Equipment	860 644
Drum Cradles with Scales (mass meters)	Chlorine Building	Instrumentation	High Pressure Room Chlorine Dosing Equipment:	Chlorine scales	255 074
Drum Cradles without Scales	Chlorine Building	Mechanical	High Pressure Room Chlorine Dosing Equipment:	Chlorine cradles	67 997
All chlorine gas pipework complete as specified, including valves, pressure reducing valves devices, catch pots, heaters, vaporisers, pigtails supports etc., as required	Chlorine Building	Mechanical	High Pressure Room Chlorine Dosing Equipment:	Pipework-chlorine	238 276
Vacuum Regulator	Chlorine Building	Mechanical	High Pressure Room Chlorine Dosing Equipment:	Vacuum Regulator-chlorine	241 849
Low Pressure Room Chlorine Dosing Equipment:	Chlorine Building	Mechanical	Low Pressure Room Chlorine Dosing Equipment:	Low Pressure Room Chlorine Dosing Equipment:	957 599
Chlorinator Skids Complete	Chlorine Building	Mechanical	Low Pressure Room Chlorine Dosing Equipment:	Chlorinator Skids Complete	464 940

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Injectors	Chlorine Building	Mechanical	Low Pressure Room Chlorine Dosing Equipment:	Injectors	119 426
Submerged dispersion bar pipe complete (located at the chlorine disinfection chamber)	Chlorine Building	Mechanical	Low Pressure Room Chlorine Dosing Equipment:	Submerged dispersion bar pipe complete (located at the chlorine disinfection chamber)	3 322
Chlorine Dosing Safety Equipment:	Chlorine Building	Mechanical	Chlorine Dosing Safety Equipment:	Chlorine Dosing Safety Equipment:	289 964
Gas Leak Detector, including beacon and siren	Chlorine Building	Instrumentation	Chlorine Dosing Safety Equipment:	Gas Leak Detector, including beacon and siren	42 553
Breathing Apparatus set including enclosure	Chlorine Building	Mechanical	Chlorine Dosing Safety Equipment:	Breathing Apparatus set including enclosure	65 673
Windsock	Chlorine Building	Mechanical	Chlorine Dosing Safety Equipment:	Windsock	9 406
Emergency Closure Kit (safety equipment including weather proof cabinet, gas masks, eye wash bottle, etc.)	Chlorine Building	Mechanical	Chlorine Dosing Safety Equipment:	Emergency Closure Kit (safety equipment including weather proof cabinet, gas masks, eye wash bottle, etc.)	60 634
Safety Signage (wall charts)	Chlorine Building	Mechanical	Chlorine Dosing Safety Equipment:	Safety Signage (wall charts)	1 994
Dry Chlorine Scrubber as specified	Chlorine Building	Mechanical	Chlorine Scrubber	Dry Chlorine Scrubber as specified	6 311 447
HP Room Light and Siren 1	Chlorine Building	Instrumentation	High Pressure Room	Light and Siren	-
HP Room Light and Siren 2	Chlorine Building	Instrumentation	High Pressure Room	Light and Siren	-
Solenoid on Chlorine Drum Sensors	Chlorine Building	Mechanical	Chlorine Dosing	Solenoid	-

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Solenoid on Air Receiver 2 Drain	Chlorine Building	Mechanical	Air Receiver 2	Solenoid	-
Solenoid on Air Receiver 1 Drain	Chlorine Building	Mechanical	Air Receiver 1	Solenoid	-
Oil/Water Separator	Chlorine Building	Mechanical	Oil/ Water Separator	Oil/Water Separator	39 438
Water Separator 2	Chlorine Building	Mechanical	Water Separator 2	Water Separator	18 427
Water Separator 1	Chlorine Building	Mechanical	Water Separator 1	Water Separator	18 427
Refrigerant Dryer 2	Chlorine Building	Mechanical	Refrigerant Dryer 02	Dryer	27 528
Refrigerant Dryer 1	Chlorine Building	Mechanical	Refrigerant Dryer 01	Dryer	27 528
Compressor 2 Motor	Chlorine Building	Mechanical	Compressor 2	Motor	-
Compressor 2	Chlorine Building	Mechanical	Compressor 2	Compressor	397 584
Compressor 1 Motor	Chlorine Building	Mechanical	Compressor 1	Motor	-
Compressor 1	Chlorine Building	Mechanical	Compressor 1	Compressor	397 584
Injector 2	Chlorine Building	Mechanical	Chlorinator 2	Chlorine Injector	-
Injector 1	Chlorine Building	Mechanical	Chlorinator 1	Chlorine Injector	-
Rupture Disc on Feed from Chlorine Drums	Chlorine Building	Mechanical	Chlorine Dosing	Rupture Disc	-
Rupture Disc on Feed from Chlorine Drums	Chlorine Building	Mechanical	Chlorine Dosing	Rupture Disc	-
Chlorine High Pressure Room Safety Shower 1	Chlorine Building	Mechanical	HP Room	Safety Shower	20 899
Chlorine High Pressure Room Safety Shower	Chlorine Building	Mechanical	HP Room	Safety Shower	20 899
Effluent Chamber Sample Pump	Chlorine Building	Mechanical	Effluent Chamber Sample Pump	Sample Pump	21 910
Chlorine Booster Pump 3	Chlorine Building	Mechanical	Chlorine Booster Pump 3	Pump	44 977

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Chlorine Booster Pump 2	Chlorine Building	Mechanical	Chlorine Booster Pump 2	Pump	44 977
Chlorine Booster Pump 1	Chlorine Building	Mechanical	Chlorine Booster Pump 1	Pump	44 977
Channel-mounted Penstock Sluice Gate 4	Chlorine Building	Mechanical	Channel-mounted Penstock Sluice Gate 4	Sluice Gate	186 299
Channel-mounted Penstock Sluice Gate 3	Chlorine Building	Mechanical	Channel-mounted Penstock Sluice Gate 3	Sluice Gate	186 299
Channel-mounted Penstock Sluice Gate 2	Chlorine Building	Mechanical	Channel-mounted Penstock Sluice Gate 2	Sluice Gate	186 299
Channel-mounted Penstock Sluice Gate 1	Chlorine Building	Mechanical	Channel-mounted Penstock Sluice Gate 1	Sluice Gate	186 299
Chlorine Low Pressure Room Actuated Louver 2	Chlorine Building	Mechanical	LP Room	Louver	-
Chlorine Low Pressure Room Actuated Louver 1	Chlorine Building	Mechanical	LP Room	Louver	-
Chlorine Booster Pump 3 Discharge Flow Switch Gearbox	Chlorine Building	Electrical	Chlorine Booster Pump 3	Gearbox	-
Chlorine Booster Pump 2 Discharge Flow Switch Gearbox	Chlorine Building	Mechanical	Chlorine Booster Pump 3	Gearbox	-
Chlorine Booster Pump 2 Discharge Flow Switch Gearbox	Chlorine Building	Mechanical	Chlorine Booster Pump 3	Gearbox	-
Chlorine Booster Pump 3 Strainer	Chlorine Building	Mechanical	Chlorine Booster Pump 3	Strainer	-
Chlorine Booster Pump 2 Strainer	Chlorine Building	Mechanical	Chlorine Booster Pump 2	Strainer	-
Chlorine Booster Pump 1 Strainer	Chlorine Building	Mechanical	Chlorine Booster Pump 1	Strainer	-
Dryer 2	Chlorine Building	Mechanical	Dryer 2	Dryer	-
Dryer 1	Chlorine Building	Mechanical	Dryer 1	Dryer	-
Effluent Chamber Chlorine Diffuser	Chlorine Building	Mechanical	Effluent Chamber Chlorine Diffuser	Chlorine Diffuser	-
Chlorine Drum Overhead Crane Cross Travel 2 Gearbox 3	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane 2	Gearbox	-
Chlorine Drum Overhead Crane Cross Travel 2 Gearbox 2	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane 2	Gearbox	-

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Chlorine Drum Overhead Crane Cross Travel 2 Gearbox 1	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane 2	Gearbox	-
Chlorine Drum Overhead Crane Cross Travel 2	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane 2	Lifting Equipment	-
Chlorine Drum Overhead Crane Cross Travel 1 Motor 1	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Cross Travel 1	Motor	-
Chlorine Drum Overhead Crane Cross Travel 1 Gearbox 3	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Cross Travel 1	Gearbox	-
Chlorine Drum Overhead Crane Cross Travel 1 Gearbox 2	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Cross Travel 1	Gearbox	-
Chlorine Drum Overhead Crane Cross Travel 1 Gearbox 1	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Cross Travel 1	Gearbox	-
Chlorine Drum Overhead Crane Cross Travel 1	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Cross Travel 1	Lifting Equipment	-
Chlorine Drum Overhead Crane Long Travel Motor 1	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Long Travel	Motor	-
Chlorine Drum Overhead Crane Long Travel Gearbox 3	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Long Travel	Gearbox	-
Chlorine Drum Overhead Crane Long Travel Gearbox 2	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Long Travel	Gearbox	-
Chlorine Drum Overhead Crane Long Travel Gearbox 1	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Long Travel	Gearbox	-
Chlorine Drum Overhead Crane Long Travel	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Long Travel	Lifting Equipment	-
Chlorine Drum Overhead Crane Hoist Motor 3	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Hoist	Motor	-
Chlorine Drum Overhead Crane Hoist Motor 2	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Hoist	Motor	-
Chlorine Drum Overhead Crane Hoist Motor 1	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Hoist	Motor	-
Chlorine Drum Overhead Crane Hoist Gearbox 3	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Hoist	Gearbox	-
Chlorine Drum Overhead Crane Hoist Gearbox 2	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Hoist	Gearbox	-
Chlorine Drum Overhead Crane Hoist Gearbox 1	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Hoist	Gearbox	-

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Chlorine Drum Overhead Crane Hoist	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Hoist	Lifting Equipment	1 230 823
Chlorinator 2	Chlorine Building	Mechanical	Chlorinator 2	Chlorinator	-
Chlorinator 1	Chlorine Building	Mechanical	Chlorinator 1	Chlorinator	-
Chlorine room rails	Chlorine Building	Mechanical	Chlorine building hand rails	Rails	499 713
Final Effluent Chamber Chlorine Analyser	Chlorine Building	Instrumentation	Final Effluent Chamber Chlorine Analyser	Chlorine Analyser	34 343
Chlorine Low Pressure Room 2 Chlorine Gas Leak Detector	Chlorine Building	Instrumentation	LP Room	Chlorine Gas Leak Detector	-
Chlorine Low Pressure Room 1 Chlorine Gas Leak Detector	Chlorine Building	Instrumentation	LP Room	Chlorine Gas Leak Detector	-
HP Room Chlorine Gas Leak Detector 2	Chlorine Building	Instrumentation	HP Room	Chlorine Gas Leak Detector	-
HP Room Chlorine Gas Leak Detector 1	Chlorine Building	Instrumentation	HP Room	Chlorine Gas Leak Detector	-
SSTs Scum Submersible Pump 2 Motor	Chlorine Building	Mechanical	SSTs Scum Submersible Pump 2	Motor	-
SSTs Scum Submersible Pump 2	Chlorine Building	Mechanical	SSTs Scum Submersible Pump 2	Pump	823 476
SSTs Scum Submersible Pump 1 Motor	Chlorine Building	Mechanical	SSTs Scum Submersible Pump 1	Motor	-
SSTs Scum Submersible Pump 1	Chlorine Building	Mechanical	SSTs Scum Submersible Pump 1	Pump	823 476
Heat Tracing on Liquid Trap	Chlorine Building	Instrumentation	Chlorine Dosing	Heat Tracing on Liquid Trap	-
Heat Tracing on Manifold	Chlorine Building	Instrumentation	Chlorine Dosing	Heat Tracing on Manifold	-
Heater for Vacuum Regulator	Chlorine Building	Mechanical	Chlorine Dosing	Heater for Vacuum Regulator	-
Chlorine Drum Overhead Crane Hoist Chain Block	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Hoist	Chain Block	-
Chlorine Drum Overhead Crane Hoist Lifting Beam	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Hoist	Lifting Beam	-

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Chlorine Drum Overhead Crane Hoist Remote Control	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Hoist	Remote Control	-
Chlorine Drum Overhead Crane Long Travel Chain Block	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Long Travel	Chain Block	-
Chlorine Drum Overhead Crane Long Travel Lifting Beam	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Long Travel	Lifting Beam	-
Chlorine Drum Overhead Crane Long Travel Remote Control	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Long Travel	Remote Control	-
Chlorine Drum Overhead Crane Cross Travel 1 Chain Block	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Cross Travel 1	Chain Block	-
Chlorine Drum Overhead Crane Cross Travel 1 Lifting Beam	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Cross Travel 1	Lifting Beam	-
Chlorine Drum Overhead Crane Cross Travel 1 Remote Control	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane Cross Travel 1	Remote Control	-
Chlorine Drum Overhead Crane Cross Travel 2 Chain Block	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane 2	Chain Block	-
Chlorine Drum Overhead Crane Cross Travel 2 Lifting Beam	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane 2	Lifting Beam	-
Chlorine Drum Overhead Crane Cross Travel 2 Remote Control	Chlorine Building	Mechanical	Chlorine Drum Overhead Crane 2	Remote Control	-
Windsock	Chlorine Building	Mechanical	Windsock	Windsock	-
MCC CHLORINATION complete	Chlorine Building	Electrical	Chlorine MCC	Chlorine MCC	472 410
REMOTE IO - CHLORINATION	Chlorine Building	Electrical	Chlorine MCC	Remote I/O	195 754
Fibre Panel	MBR Fine Screens	Electrical	MCC MBR-B UV	Fibre Patch Panel	-
CPU	MBR Fine Screens	Electrical	MCC MBR-B UV	CPU PLC	-
MBR PUMP 1	MBR PS	Mechanical	MBR Feed Pump 1	THERMAL O/L	1 378 500
MBR PUMP 1 gearbox	MBR PS	Mechanical	MBR Feed Pump 1	Pump	1 155 351
MBR PUMP 2	MBR PS	Mechanical	MBR Feed Pump 2	THERMAL O/L	1 378 500
MBR PUMP 2 gearbox	MBR PS	Mechanical	MBR Feed Pump 2	Pump	1 155 351
MBR PUMP 3	MBR PS	Mechanical	MBR Feed Pump 3	THERMAL O/L	1 378 500
MBR PUMP 3 gearbox	MBR PS	Mechanical	MBR Feed Pump 3	Pump	1 155 351
MBR PUMP 4	MBR PS	Mechanical	MBR Feed Pump 4	THERMAL O/L	1 378 500

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MBR PUMP 4 gearbox	MBR PS	Mechanical	MBR Feed Pump 4	Pump	1 155 351
UPS Battery	MBR PS	Electrical	MBR PS MCC	UPS Battery	-
Primary Settling Tank 4 Bridge Motor 2	Primary Settling Tanks	Electrical	Primary Settling Tank 4 Bridge	Primary Settling	-
Primary Settling Tank 4 Bridge Motor 1	Primary Settling Tanks	Electrical	Primary Settling Tank 4 Bridge	Primary Settling	-
Primary Settling Tank 4 Bridge Gearbox 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 4 Bridge	Primary Settling	-
Primary Settling Tank 4 Bridge Gearbox 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 4 Bridge	Primary Settling	-
Primary Settling Tank 3 Bridge Motor 2	Primary Settling Tanks	Electrical	Primary Settling Tank 3 Bridge	Primary Settling	-
Primary Settling Tank 3 Bridge Motor 1	Primary Settling Tanks	Electrical	Primary Settling Tank 3 Bridge	Primary Settling	-
Primary Settling Tank 3 Bridge Gearbox 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 3 Bridge	Primary Settling	-
Primary Settling Tank 3 Bridge Gearbox 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 3 Bridge	Primary Settling	-
Primary Settling Tank 2 Bridge Motor 2	Primary Settling Tanks	Electrical	Primary Settling Tank 2 Bridge	Primary Settling	-
Primary Settling Tank 2 Bridge Motor 1	Primary Settling Tanks	Electrical	Primary Settling Tank 2 Bridge	Primary Settling	-
Primary Settling Tank 2 Bridge Gearbox 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 2 Bridge	Primary Settling	-
Primary Settling Tank 2 Bridge Gearbox 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 2 Bridge	Primary Settling	-
Primary Settling Tank 1 Bridge Motor 2	Primary Settling Tanks	Electrical	Primary Settling Tank 1 Bridge	Primary Settling	-
Primary Settling Tank 1 Bridge Motor 1	Primary Settling Tanks	Electrical	Primary Settling Tank 1 Bridge	Primary Settling	-
Primary Settling Tank 1 Bridge Gearbox 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 1 Bridge	Primary Settling	-
Primary Settling Tank 1 Bridge Gearbox 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 1 Bridge	Primary Settling	-

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PST Sludge Splitter Penstock 4	Primary Settling Tanks	Mechanical	PST Sludge Splitter Penstock 4	Free primary 4	451 666
PST Sludge Splitter Penstock 3	Primary Settling Tanks	Mechanical	PST Sludge Splitter Penstock 3	Free primary 3	451 666
PST Sludge Splitter Penstock 2	Primary Settling Tanks	Mechanical	PST Sludge Splitter Penstock 2	Free primary 2	451 666
PST Sludge Splitter Penstock 1	Primary Settling Tanks	Mechanical	PST Sludge Splitter Penstock 1	Free primary 1	451 666
Primary Settling Tank 1 Bridge Wheel 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 1	Primary Settling	-
Primary Settling Tank 1 Bridge Wheel 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 1	Primary Settling	-
Primary Settling Tank 1 Bridge Wheel 3	Primary Settling Tanks	Mechanical	Primary Settling Tank 1	Primary Settling	-
Primary Settling Tank 1 Bridge Wheel 4	Primary Settling Tanks	Mechanical	Primary Settling Tank 1	Primary Settling	-
Primary Settling Tank 1 Bridge Scum Removal Box 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 1	Primary Settling	-
Primary Settling Tank 1 Bridge Scum Removal Box 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 1	Primary Settling	-
Primary Settling Tank 2 Bridge Wheel 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 2	Primary Settling	-
Primary Settling Tank 2 Bridge Wheel 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 2	Primary Settling	-
Primary Settling Tank 2 Bridge Wheel 3	Primary Settling Tanks	Mechanical	Primary Settling Tank 2	Primary Settling	-
Primary Settling Tank 2 Bridge Wheel 4	Primary Settling Tanks	Mechanical	Primary Settling Tank 2	Primary Settling	-
Primary Settling Tank 2 Bridge Scum Removal Box 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 2	Primary Settling	-
Primary Settling Tank 2 Bridge Scum Removal Box 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 2	Primary Settling	-
Primary Settling Tank 3 Bridge Wheel 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 3	Primary Settling	-

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Primary Settling Tank 3 Bridge Wheel 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 3	Primary Settling	-
Primary Settling Tank 3 Bridge Wheel 3	Primary Settling Tanks	Mechanical	Primary Settling Tank 3	Primary Settling	-
Primary Settling Tank 3 Bridge Wheel 4	Primary Settling Tanks	Mechanical	Primary Settling Tank 3	Primary Settling	-
Primary Settling Tank 3 Bridge Scum Removal Box 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 3	Primary Settling	-
Primary Settling Tank 3 Bridge Scum Removal Box 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 3	Primary Settling	-
Primary Settling Tank 4 Bridge Wheel 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 4	Primary Settling	-
Primary Settling Tank 4 Bridge Wheel 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 4	Primary Settling	-
Primary Settling Tank 4 Bridge Wheel 3	Primary Settling Tanks	Mechanical	Primary Settling Tank 4	Primary Settling	-
Primary Settling Tank 4 Bridge Wheel 4	Primary Settling Tanks	Mechanical	Primary Settling Tank 4	Primary Settling	-
Primary Settling Tank 4 Bridge Scum Removal Box 1	Primary Settling Tanks	Mechanical	Primary Settling Tank 4	Primary Settling	-
Primary Settling Tank 4 Bridge Scum Removal Box 2	Primary Settling Tanks	Mechanical	Primary Settling Tank 4	Primary Settling	-
Primary Sludge Pumpstation MCC	Primary Settling Tanks	Electrical	Primary Sludge Pumpstation MCC	Primary Sludge	-
UPS Battery	Primary Settling Tanks	Electrical	Primary Sludge Pumpstation MCC	UPS Battery	-
PRIMARY SLUDGE PUMP 1	Primary Settling Tanks	Instrumentation	Primary Sludge pump station	Pump	213 537
PRIMARY SLUDGE PUMP 2	Primary Settling Tanks	Mechanical	Primary Sludge pump station	Pump	213 537
MACERATOR	Primary Settling Tanks	Mechanical	Primary Sludge pump station	Macerator	256 117
PRIMARY SLUDGE SUMP P. STATION SUMP PUMP	Primary Settling Tanks	Mechanical	Primary Sludge pump station	Pump	40 189

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Manual sluice Gates at PST Flow Splitter	Primary Settling Tanks	Mechanical	Primary Settling Tanks	Penstock	1 044 908
Section A – Supply all equipment for Wireless Installation between Primary Sludge Base Station to 4 x PST Bridges	Primary Settling Tanks	Electrical	Primary Settling Tanks	Wireless PST comms	313 578
Service Water Pump 4 Motor	Service Water Pump Station	Mechanical	Service Water Pump 4	Motor	-
Service Water Pump 4 Gearbox	Service Water Pump Station	Electrical	Service Water Pump 4	Gearbox	-
Service Water Pump 4	Service Water Pump Station	Mechanical	Service Water Pump 4	Pump	418 123
Service Water Pump 4	Service Water Pump Station	Electrical	Service Water Pump 4	Pump	446 859
Service Water Pump 3 Motor	Service Water Pump Station	Mechanical	Service Water Pump 3	Motor	-
Service Water Pump 3 Gearbox	Service Water Pump Station	Electrical	Service Water Pump 3	Gearbox	-
Service Water Pump 3	Service Water Pump Station	Mechanical	Service Water Pump 3	Pump	418 123
Service Water Pump 3	Service Water Pump Station	Electrical	Service Water Pump 3	Pump	446 859
Service Water Pump 2 Motor	Service Water Pump Station	Mechanical	Service Water Pump 2	Motor	-
Service Water Pump 2 Gearbox	Service Water Pump Station	Electrical	Service Water Pump 2	Gearbox	-
Service Water Pump 2	Service Water Pump Station	Mechanical	Service Water Pump 2	Pump	418 123
Service Water Pump 2	Service Water Pump Station	Electrical	Service Water Pump 2	Pump	446 859
Service Water Pump 1 Motor	Service Water Pump Station	Mechanical	Service Water Pump 1	Motor	-
Service Water Pump 1 Gearbox	Service Water Pump Station	Electrical	Service Water Pump 1	Gearbox	-
Service Water Pump 1	Service Water Pump Station	Mechanical	Service Water Pump 1	Pump	418 123

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Service Water Pump 1	Service Water Pump Station	Instrumentation	Service Water Pump 1	Pump	446 859
Kleerflo Filter Inlet Pressure Transmitter	Service Water Pump Station	Instrumentation	Kleerflo Filter	Kleerflo Filter	-
Service Water Pump Station Discharge Pressure Gauge	Service Water Pump Station	Instrumentation	Service Water Common Discharge	Service Water	-
Kleerflo Filter Inlet Pressure Gauge	Service Water Pump Station	Instrumentation	Kleerflo Self-cleaning Filters Compressor	Kleerflo Filter	-
Service Water Sump Level Switch High High	Service Water Pump Station	Instrumentation	Service Water Sump	Service Water	-
Service Water Sump Level Switch	Service Water Pump Station	Instrumentation	Service Water Sump	Service Water	-
Service Water Sump Level Switch Low Low	Service Water Pump Station	Instrumentation	Service Water Sump	Service Water	-
Service Water Sump Level Transmitter	Service Water Pump Station	Instrumentation	Service Water Sump	Service Water	-
Service Water Sump Level Sensor	Service Water Pump Station	Instrumentation	Service Water Sump	Service Water	-
Kleerflo Self-cleaning Filter 1 & Filter 2	Service Water Pump Station	Mechanical	Kleerflo 1	Kleerflo Filter	2 246 000
Service Water Discharge Flow	Service Water Pump Station	Mechanical	Service water Pump station	Service Water	-
1 ton King Electric Chain Hoist and Motorised Crawl	Service Water Pump Station	Mechanical	1 ton King Electric Chain Hoist and Motorised Crawl	Crawl	1 318 689
KLEER FLOW FILTER 1 CONTROL PANEL	Service Water Pump Station	Mechanical	Kleerflo 1	Filters	-
KLEER FLOW FILTER 2 CONTROL PANEL	Service Water Pump Station	Mechanical	Kleerflo 2	Kleerflo Self	-
1 ton King Electric Chain Hoist and Motorised Crawl	Service Water Pump Station	Mechanical	1 ton King Electric Chain Hoist and Motorised Crawl	Hoist	414 013
1 ton King Electric Chain Hoist and Motorised Crawl Lifting Beam	Service Water Pump Station	Mechanical	1 ton King Electric Chain Hoist and Motorised Crawl	1 ton King	-
1 ton King Electric Chain Hoist and Motorised Crawl Motor 1	Service Water Pump Station	Mechanical	1 ton King Electric Chain Hoist and Motorised Crawl	1 ton King	-

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1 ton King Electric Chain Hoist and Motorised Crawl Motor 2	Service Water Pump Station	Mechanical	1 ton King Electric Chain Hoist and Motorised Crawl	1 ton King	-
1 ton King Electric Chain Hoist and Motorised Crawl Motor 3	Service Water Pump Station	Mechanical	1 ton King Electric Chain Hoist and Motorised Crawl	1 ton King	-
1 ton King Electric Chain Hoist and Motorised Crawl Gearbox 1	Service Water Pump Station	Mechanical	1 ton King Electric Chain Hoist and Motorised Crawl	1 ton King	-
1 ton King Electric Chain Hoist and Motorised Crawl Gearbox 2	Service Water Pump Station	Mechanical	1 ton King Electric Chain Hoist and Motorised Crawl	1 ton King	-
Supply flange adaptors	Service Water Pump Station	Mechanical	Service Water Pump Station	Flange adaptors	150 536
Fine Screen motor and gearbox assembly MBR Fine Screens MBR Fine Screens	Replaceable Spares	Mechanical	MBR Fine Screens	Fine Screen motor and gearbox assembly	129 560
UHMPE liners for screw conveyor MBR Fine Screens MBR Fine Screens	Replaceable Spares	Mechanical	MBR Fine Screens	UHMPE liners for screw conveyor	240 429
UHMPE liners for screw conveyor MBR Fine Screens Screw Conveyor	Replaceable Spares	Mechanical	MBR Fine Screens Screw Conveyors	UHMPE liners for screw conveyor	53 911
Membrane cassette dummy header A (Equal to the number of Modules installed per full cassette) Membrane equipment MBR-B	Replaceable Spares	Mechanical	Membranes	Membrane cassette dummy header A (Equal to the number of Modules installed per full cassette)	23 289
Membrane cassette dummy header B (Equal to the number of Modules installed per full cassette) Membrane equipment MBR-B	Replaceable Spares	Mechanical	Membranes	Membrane cassette dummy header B (Equal to the number of Modules installed per full cassette)	23 289
Membrane Cassette Element Endcap (Equal to the number of Modules installed per full train) Membrane equipment MBR-B	Replaceable Spares	Mechanical	Membranes	Membrane Cassette Element Endcap (Equal to the number of Modules installed per full train)	5 046

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Membrane cassette dummy header A (Equal to the number of Modules installed per full cassette) Membrane Equipment MBR-A	Replaceable Spares	Mechanical	Membranes	Membrane cassette dummy header A (Equal to the number of Modules installed per full cassette)	24 540
Membrane cassette dummy header B (Equal to the number of Modules installed per full cassette) Membrane Equipment MBR-A	Replaceable Spares	Mechanical	Membranes	Membrane cassette dummy header B (Equal to the number of Modules installed per full cassette)	24 540
Membrane Cassette Element Endcap (Equal to the number of Modules installed per full train) Membrane Equipment MBR-A	Replaceable Spares	Mechanical	Membranes	Membrane Cassette Element Endcap (Equal to the number of Modules installed per full train)	4 063
Two sets of spare compressor inlet filters per compressor	Replaceable Spares	Mechanical	Instrument Compressors	Filters	11 213
Two sets of spare compressor inlet filters per compressor	Replaceable Spares	Mechanical	Instrument Compressors	Filters	17 328
Set of OEM recommended spares per unit	Replaceable Spares	Mechanical	UV Disinfection	UV	88 755
Sets of V-Belts	Replaceable Spares	Mechanical	WAS Pumps	V-Belts	44 284
Two Sets of spare compressor inlet filters per compressor	Replaceable Spares	Mechanical	Instrument Compressors	Filters	137 293
Portable Sampler 24 x 1L (Hach or similar approved by Engineer)	Laboratory	Mechanical	Laboratory	Laboratory	210 041
Refrigerated Sampler 24 x 1L (Hach or similar approved by Engineer)	Laboratory	Mechanical	Laboratory	Laboratory	280 055
Ammonium Cartridge (Hach LZY694 or similar approved by Engineer)	Laboratory	Mechanical	Laboratory	Laboratory	65 638
Nitrates Cartridge (Hach LZY694 or similar approved by Engineer)	Laboratory	Mechanical	Laboratory	Laboratory	65 638
4No x Phosphate Reagents (Hach 6776100 or similar approved by Engineer) x 4 quantities	Laboratory	Mechanical	Laboratory	Laboratory	105 021

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Potable Starter Package with PHC201 pH Electrode, complete with field kit, buffer Solution, pH 10.01 (NIST), color-coded blue, 500 mL (Hach 8507530 or similar approved by Engineer)	Laboratory	Mechanical	Laboratory	Laboratory	218 793
DR 1900 Portable Spectrophotometer complete with all associated equipment (Hach DR1900-01H or similar approved by Engineer)	Laboratory	Mechanical	Laboratory	Laboratory	227 545
12No x Chlorine Reagents (Hach 2556900 or similar approved by Engineer)	Laboratory	Mechanical	Laboratory	Laboratory	43 759
Moisture Analyser - % moisture, % solids, % Regain (Hach 2946404 or similar approved by Engineer)	Laboratory	Mechanical	Laboratory	Laboratory	262 552
Portable Dissolved Oxygen Kit with Data Logger, complete with field kit/ carrying case, electrolyte solution for 5120 DO sensor, 25 mL, external supplier (Hach LPV4552DL.97.02 or similar approved by Engineer)	Laboratory	Mechanical	Laboratory	Laboratory	218 793
Lasec Drying Oven x 3	Laboratory	Mechanical	Laboratory	Laboratory	232 585
Stay Cold Fridge	Laboratory	Mechanical	Laboratory	Laboratory	40 113
Office Desk	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	4 059
Simple Office Chair (Pisa Midback)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 607
Freestanding Additional Desk	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 019
Small Filling Tray	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	284
Small Noticeboard	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 287
Café Table	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 439
Café Chairs	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 643
Kettle	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	265
Microwave	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 408
Bar Fridge	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 315

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Melamine Kitchen Countertop	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	6 742
Steel Clothing Lockers	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 161
Food Lockers	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 224
Bin	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	152
UPS (Mecer)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 809
Programmable Weighing Terminal (SysTec)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	10 112
System PC (Mecer)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	10 112
Monitor (Mecer 23.8" Wide LED)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 933
Ethernet Switch (Scoop)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	674
Keyboard (Mecer)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	337
Mouse (Mecer)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	281
Printer (HP)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 933
Lawnmower Self Propelled (Kudu)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	16 854
Lawnmower Push	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	6 742
Bush Cutter	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	6 180
Bush Cutter FS120 STIHL (Internal)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	5 500
WAP Jetting Machine	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 034
Portable Generator	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	12 921
Stihl Chainsaw	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 903

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Diesel Bowser	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	44 045
Diesel Bowser - Spare Wheel	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 710
Bio-remedial Trailer/Bowser	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	47 964
Garden Rakes	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	281
Slashers	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	191
Garden Spades	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	253
Garden Shovels	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	253
Garden Forks	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	253
Garden Picks	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	253
Wheel Barrows	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 011
Hose Pipes	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	225
Stepladders Aluminium	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 461
Stepladders Aluminium	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 461
Gasoline Chain Saw - Topsun T6224	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 365
Gasoline Hedge Trimmer - Husqvarna	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	4 845
Ride-On-Lawnmower - Husqvarna	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	15 335
Gedore Tool Set	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	4 270
Gedore Shifting Spanner No. 62/150	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	562
Gedore Shifting Spanner No. 62/300	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	562

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Gedore Pipe Spanner No. 285/600	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	562
Gedore Ballpen Hammer No. 8601/201	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	393
Gedore Engineers Hammer No. 8605/5	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	393
Feeler Gauge	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	596
Stanley Knife	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	562
Submersible Pump 50mm	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 371
Portable Trash Pump 80mm	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	7 303
Electric Trailing Cable 30m	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	6 742
Steel Workbench	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 854
Lifting beam (1 ton)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	0
1000kg Chain Block	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 135
2000kg Chain Block	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 921
Emergency Lighting 500W	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 405
Drum Pump (Petrol) 1 Lit	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	7 247
Arc Welding Machine (oil)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 242
Afrox Saffire Portapak	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	16 854
Electrician Pliers 205mm	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	787
Long Nose Pliers 205mm	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	730
Long Nose Pliers 150mm	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	562

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300mm Hack Saw	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	449
3 Tier Toolbox	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 348
Basic Gear Puller Set	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 685
Set Drills & Electric Drill Set	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 371
3000kg Hydraulic Jack	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 247
150mm Engineers Vice	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 933
150mm Bench Grinder	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 809
400ml Oil Can	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	225
5kg Grease Gun	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 685
Puller Block for Clarifier Wheels	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	11 236
2 Ton A-Frame and Trolley	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	28 090
9meter ladder	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 371
Mobile platform	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	11 236
Mobile Trailer G Rump Pump	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	56 180
Portable Trash Pump 100mm	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 809
20 Gallon Parts Washer	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	7 303
2 Ton Engine Lift	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	6 292
20 Ton Hydraulic	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	22 472
Infra-Red Camera	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 247

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Porta Power Jack Set	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	17 978
Hilton Double Seater	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	18 020
Hilton Single Seater	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	12 805
Moon Round Coffee Table Top	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 315
Moon Round Coffee Table Frame	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 278
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
Slim Nesting Table	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	8 949
La' Mia side Chair Black Frame	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 898
Vulcan Col 1	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	464
Benchwork Leg	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 659
Bench/Framework ADJ Beam	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 298
Rect Globlal Top White	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 888
Global Mob Ped LHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Global Mob Ped RHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
2 Locker Door Units	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	11 905
Benches	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	12 316
2 Locker Door Units	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	11 905
Benches	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	12 316

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Smartline Square Table Top	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 917
Malibu Dining Table Base	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 194
Costa Side Chair	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 532
4 Door Food Locker Units	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	11 165
Xpress Lite Rectangular Desk	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 349
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
Industrial High Reach Chair	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	6 261
PU Castor 50mm (set of 5) Black	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	229
Benchwork Leg	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 179
Bench/Framework ADJ Beam	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 298
Global Mod Ped	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	4 533
Rect Globlal Top White	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 888
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
Radisson Base	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	7 228
Round Radisson Meeting Top	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 366
Primary Vis Chair - Chrome Frame	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 478
Benchwork Leg	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 659
Bench/Framework ADJ Beam	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 298
Global Mob Ped LHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428

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Global Mob Ped RHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Rect Globlal Top White	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 888
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
Benchwork Leg	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 179
Bench/Framework ADJ Beam	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 298
Rect Globlal Top White	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 888
Global Mob Ped LHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
Radisson Base	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	7 228
Round Radisson Meeting Top	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 366
Primary Vis Chair - Chrome Frame	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 478
Benchwork Leg	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 659
Bench/Framework ADJ Beam	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 298
Rect Globlal Top White	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 888
Global Mob Ped LHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Global Mob Ped RHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
Radisson Base	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	7 228

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Round Radisson Meeting Top	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 366
Primary Vis Chair - Chrome Frame	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 478
Computer Work Station 1 (SCADA)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
Computer Work Station 1 (SCADA)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
Computer Work Station 1 (SCADA)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
Computer Work Station 2 (SCADA)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
Computer Work Station 2 (SCADA)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
Computer Work Station 2 (SCADA)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
Computer Work Station 3 (SCADA)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
Computer Work Station 3 (SCADA)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
Computer Work Station 3 (SCADA)	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
CCTV Monitor Screen Station 1	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
CCTV Monitor Screen Station 1	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
CCTV Monitor Screen Station 1	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
CCTV Monitor Screen Station 2	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
CCTV Monitor Screen Station 2	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
CCTV Monitor Screen Station 2	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	-
Smartline Square Table Top	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 917
Malibu Dining Table Base	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 194

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Costa Side Chair	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 532
Faro Bar Chair	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 167
Benchwork Leg	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 659
Bench/Framework ADJ Beam	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 298
Rect Globlal Top White	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 888
Global Mob Ped LHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Global Mob Ped RHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
Benchwork Leg	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 288
Bench/Framework ADJ Beam	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 298
Rect Globlal Top White	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 888
Global Mob Ped RHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
Benchwork Leg	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 179
Bench/Framework ADJ Beam	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 298
Rect Globlal Top White	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 888
Global Mob Ped LHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Global Mob Ped RHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706

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Benchwork Leg	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 179
Bench/Framework ADJ Beam	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 298
Rect Globlal Top White	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 888
Global Mob Ped LHS	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 428
Giro Task Chair H/Adj Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 706
Radisson Base	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	7 228
Round Radisson Meeting Top	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	3 366
Primary Vis Chair - Chrome Frame	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 478
3P Rect Board Room Top White	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	27 624
75SQ Tube TBL Frame Silver	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	32 770
Classical M/B Chair Chrome Arms	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	6 200
Defy Upright Fridge	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	15 401
Defy Microwave Oven	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	2 886
Defy Bar Fridge	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	5 389
Hisense 75" Smart TV	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	43 775
Hisense 55" Smart TV	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	21 854
Logitech Meetup Conference Camera	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	41 405
HMDI Extension Cable	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 650
USB Extension Cable	Moveable Assets	Mechanical	Moveable Assets	Moveable Assets	1 479

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Maintenance Workshop Crane	Maintenance Workshop	Mechanical	Moveable Assets	Crane	505 620
Entrance Gate	Dewatering	Mechanical	Entrance Gate	Entrance Gate	8 933
Entrance Gate Motor	Dewatering	Electrical	Entrance Gate	Entrance Gate motor	33 708
Motorized Crane	Old Pump Station Stores	Mechanical	Old Pump Station stores	Crane	505 620
Old PS Crane	MBR-A	Electrical	MBR-A CCTV	CCTV Cameras	206 254
MBR-A CCTV	MBR-A	Electrical	CCTV Cameras MBR-A	CCTV Cameras	206 254
Valves - All Areas- Isolation, butterfly, butterfly, telescopic, non return, PRV, Knife Gate etc	All Areas	Pipework	Pipework	Valves-All Areas	63 775 930
Valve/Sluice actuators - Balance All areas	All Areas	Electrical	Electrical	Actuators = All areas	7 495 715
Pipework - All areas, excluding original prior to upgrade	All Areas	Pipework	Pipework	Pipework All areas	75 223 764
Treated re-use pumpstation under construction	All Areas	Mechanical	re-use pumpstation	Re-use pumpstation	884 688
HVAC - All areas	All Areas	HVAC	HVAC	HVAC - All Areas	11 321 776
Electrical - Generators -All areas	All Areas	Electrical	Electrical	Generators= All areas	51 366 387
Electrical - Cables & Busbars- All areas	All Areas	Electrical	Electrical	Cables & Busbars - All areas	56 648 911
Electrical - Transformers -All areas (excluding main feed transformers)	All Areas	Electrical	Electrical	Transformers- All areas	7 904 859
Electrical - Mini-sub's -All areas	All Areas	Electrical	Electrical	Mini-sub's - All areas	17 210 537
Electrical - UPS -All areas	All Areas	Electrical	Electrical	UPS - All Areas	826 036
Electrical - MCC's -All areas	All Areas	Electrical	Electrical	MCC's All Areas	65 927 822
Electrical - PLC's + HMI's All Areas	All Areas	Electrical	Electrical	PLC's - All Areas	24 085 841
Electrical - DB's/Kiosks	All Areas	Electrical	Electrical	DB's - All Areas	3 287 880
Electrical - SCADA - All Areas	All Areas	Electrical	Electrical	SCADA - All Areas	6 530 829
Electrical - External lighting, Area, High mast Lighting - All Areas	All Areas	Electrical	Electrical	External Lighting - All areas	4 648 507
Electrical - Instrumentation	All Areas	Electrical	Electrical	Instrumentation - All areas	58 889 058
Mechanical - Selected spares (replace if used)	All Areas	Electrical	Electrical	Replaceable Spares - All areas	33 711 122